

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

Company/Brand	Variety	Oil Type ¹	Herb. Type ²	DMR ³	Days	Days	Plant Height	Lodge	Seed Weight	Seeds/Pound	Test Weight	Oil ⁴	Seed Yield				
					Flower	to Maturity							g/1000	lb/bu	%	2008	2009
ADVANTA US INC	F51313NS,DM,CL	NS	CL	Y	DAP ⁵ 74	DAP ⁵ 101	in 73	0-9 ⁶ 0.5	45.1	10117	29.5	37.7	--	1895	2263	2079	--
ADVANTA US INC	F30008NS,CL	NS	CL	N	74	103	74	1.0	54.7	8315	28.8	36.6	--	--	2104	--	--
ADVANTA US INC	F51139NS,DM,CL	NS	CL	Y	73	100	77	0.5	58.0	7875	32.0	39.3	2654	1856	2404	2130	2304
ADVANTA US INC	F51137NS,CL	NS	CL	N	73	103	66	0.5	56.9	8018	32.2	38.4	--	--	2372	--	--
ADVANTA US INC	F51122NS,CL	NS	CL	N	71	99	71	0.5	60.5	7565	30.3	38.2	--	--	2364	--	--
ADVANTA US INC	F89057NS,SU	NS	E	N	76	106	79	1.5	58.8	7738	28.7	37.3	--	--	1805	--	--
ADVANTA US INC	F91033NS,SU	NS	E	N	72	98	74	1.3	55.6	8180	31.5	39.0	--	--	2550	--	--
ADVANTA US INC	F89036NS,DM,CL	NS	CL	Y	73	101	74	1.0	56.9	8009	31.1	41.0	--	--	1825	--	--
CROPLAN GENETICS	306 DMR NS	NS	C	Y	71	104	69	0.5	56.7	8050	29.6	38.4	2040	1937	2278	2107	2085
CROPLAN GENETICS	3080 DMR NS	NS	C	Y	72	100	69	0.3	40.8	11181	29.3	42.9	1687	2030	2953	2492	2223
CROPLAN GENETICS	356A NS	NS	C	N	74	104	68	0.3	54.8	8310	30.5	40.6	3181	2037	2959	2498	2726
CROPLAN GENETICS	378 DMR HO	HO	C	Y	72	107	74	0.8	59.3	7672	29.0	38.2	--	--	2705	--	--
CROPLAN GENETICS	460 E NS	NS	E	N	72	104	76	1.3	63.6	7161	30.1	42.5	--	1893	2529	2211	--
CROPLAN GENETICS	555 CL DMR NS	NS	CL	Y	74	101	81	0.3	55.8	8169	28.0	38.8	--	1962	2850	2406	--
CROPLAN GENETICS	564 CL NS	NS	CL	N	74	103	78	0.5	47.8	9538	31.8	40.2	--	--	2654	--	--
CROPLAN GENETICS	559 CL DMR NS	NS	CL	Y	75	103	81	0.3	48.7	9335	31.6	40.7	--	--	2926	--	--
Genosys	6007	NS	CL	N	76	101	82	2.3	57.1	7959	33.4	38.9	2283	1580	2120	1850	1994
Genosys	7052	HO	CL	N	73	100	77	1.3	47.0	9701	33.9	37.8	2087	2022	1825	1924	1978
Genosys	8037	NS	CL	N	73	100	74	0.8	51.3	8887	34.4	40.7	--	--	2258	--	--
Genosys	8064	HO	CL	N	75	103	73	1.8	60.3	7540	29.8	32.8	--	--	1738	--	--
Genosys	7163	NS	C	N	72	101	77	1.3	55.5	8227	28.9	38.6	--	--	2651	--	--
Integra Fortified Seed	516 NSDM	NS	C	Y	74	103	72	1.3	50.9	8970	30.9	41.5	--	1852	2775	2313	--
Integra Fortified Seed	536 NSDM	NS	C	Y	70	104	65	1.5	52.9	8586	28.7	37.5	--	--	2508	--	--
Integra Fortified Seed	735 NSCLDM	NS	CL	Y	70	100	69	1.5	61.7	7387	29.9	37.6	2709	2118	2412	2265	2413
Integra Fortified Seed	IX10-10516 NSCLDM	NS	CL	Y	74	100	78	0.5	56.0	8115	33.8	38.4	--	--	2503	--	--
Integra Fortified Seed	IX10-94 NSSU	NS	E	N	73	98	74	1.0	54.0	8429	30.9	39.0	--	--	2802	--	--
Integra Fortified Seed	IX10-96 NSSU	NS	E	N	77	107	79	1.5	54.3	8391	28.5	37.6	--	--	1766	--	--
Integra Fortified Seed	IX10-98 NSSU	NS	E	N	75	104	76	0.5	53.0	8624	30.4	38.7	--	--	2305	--	--
Mycogen Seeds	8D310	NS	C	N	70	103	76	0.5	83.6	5453	27.3	33.5	--	2555	2514	2534	--
Mycogen Seeds	8D481	NS	C	N	73	111	77	0.5	82.6	5529	28.8	34.6	--	2472	2426	2449	--
Mycogen Seeds	8H288CLDM	HO	CL	Y	70	102	68	1.0	46.6	9753	30.5	41.8	2153	1829	2763	2296	2248
Mycogen Seeds	8H449DM	HO	C	Y	74	103	74	2.3	45.3	10039	31.7	44.6	3120	2142	3066	2604	2776

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					Flower	to Maturity							g/1000	lb/bu	%	2008	2009
Mycogen Seeds	8N270CLDM	NS	CL	Y	DAP ⁵ 69	DAP ⁵ 103	in 70	0-9 ⁶ 1.0	48.8	9368	31.7	40.4	2453	1835	2462	2148	2250
Mycogen Seeds	8N358CLDM	NS	CL	Y	71	100	70	1.8	48.9	9303	30.6	43.2	2087	1992	2709	2351	2263
Mycogen Seeds	8N433DM	NS	C	Y	75	100	71	1.3	45.3	10069	28.8	43.9	--	2250	3166	2708	--
Mycogen Seeds	8N510	NS	C	N	76	103	74	1.0	44.2	10292	29.6	40.2	--	--	3312	--	--
Panner Seed, Inc	PAN 7813NS	NS	C	N	75	103	76	1.3	43.7	10483	29.9	40.9	--	--	2809	--	--
Panner Seed, Inc	PAN 7924NS	NS	C	N	77	104	78	1.0	48.0	9469	28.3	39.1	--	--	3012	--	--
Panner Seed, Inc	PAN 8466NS/CL	NS	CL	N	76	103	80	1.3	49.9	9101	29.0	39.5	--	--	3184	--	--
Panner Seed, Inc	PEX 7404	NS	C	N	73	100	74	0.8	46.3	9853	29.8	37.1	--	--	2769	--	--
Panner Seed, Inc	PEX 7904	HO	C	N	75	102	75	1.0	46.1	9868	29.5	38.4	--	--	3178	--	--
Panner Seed, Inc	PEX 7803	HO	C	N	76	103	75	0.8	42.5	10722	28.7	41.0	--	--	2899	--	--
PROSEED	E-4	NS	C	Y	72	101	74	1.0	61.6	7430	29.3	38.0	--	1640	2048	1844	--
PROSEED	E-8	NS	C	Y	74	102	87	2.8	56.4	8091	27.9	40.1	--	2114	2273	2193	--
PROSEED	E-85	NS	C	Y	73	104	81	0.5	58.3	7800	26.8	38.3	1983	2015	2483	2249	2160
PROSEED	E-5	NS	C	Y	77	105	84	1.5	54.1	8399	30.1	39.0	2447	2067	2576	2322	2363
PROSEED	7001 CL	NS	CL	N	73	106	74	1.3	54.7	8326	27.5	36.7	--	2046	2544	2295	--
PROSEED	9001 CL	NS	CL	N	71	101	70	0.5	59.3	7706	30.8	38.2	--	2139	2191	2165	--
SEEDS 2000	Defender Plus	NS	C	Y	70	101	67	0.5	62.7	7262	30.5	37.3	1823	1802	1948	1875	1858
SEEDS 2000	Firebird	NS	E	N	76	101	70	0.8	45.0	10107	29.0	38.5	--	--	2914	--	--
SEEDS 2000	Blazer CL	NS	CL	N	75	103	80	1.0	51.5	8824	29.3	41.7	--	--	3009	--	--
SEEDS 2000	Cobra	NS	E	N	73	100	72	1.0	61.9	7342	29.5	41.1	--	--	2234	--	--
SEEDS 2000	X9866	NS	CL	Y	74	103	78	1.3	59.4	7662	28.7	38.2	--	--	2558	--	--
SEEDS 2000	X9828	NS	CL	Y	73	104	71	0.5	59.8	7610	29.3	37.2	--	--	2545	--	--
Syngenta	2930 NS/DM	NS	C	Y	70	103	73	1.3	51.7	8864	31.0	40.0	2327	1366	2309	1837	2000
Syngenta	3433 NS/DM	NS	C	Y	74	103	67	0.8	55.3	8238	31.8	42.2	2195	1672	2545	2108	2137
Syngenta	3732 NS	NS	C	N	74	101	73	1.5	53.5	8574	31.6	40.1	--	2337	2779	2558	--
Syngenta	3845 HO	HO	C	N	72	100	71	1.3	56.2	8107	31.7	42.7	2537	2006	2717	2361	2420
Syngenta	3875 NS	NS	C	N	76	99	74	1.5	53.7	8525	30.6	39.8	--	2049	3163	2606	--
Syngenta	3480 NS/CL/DM	NS	CL	Y	73	102	69	1.3	52.9	8598	29.4	42.2	2138	1831	2699	2265	2222
Syngenta	3980 NS/CL	NS	CL	N	75	102	74	1.0	53.1	8625	30.4	37.7	2640	2265	2134	2199	2346
Syngenta	4651 NS/DM	NS	C	Y	72	106	75	1.5	58.7	7757	28.9	38.8	--	--	2862	--	--
Syngenta	7120 HO/DM	HO	C	Y	71	107	67	0.5	57.9	7871	30.3	36.8	1946	1373	1978	1675	1766

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					50% Flower	to Maturity							in	0-9 ⁶	g/1000	lb/bu	%
Triumph	810HCLD	HO	CL	Y	DAP ⁵ 69	DAP ⁵ 103	75	1.3	59.8	7709	29.3	40.2	--	--	2522	--	--
Triumph	610CLD	NS	CL	Y	70	103	73	1.3	55.6	8343	29.5	39.1	--	--	2313	--	--
Triumph	s655	NS	C	Y	74	102	46	0.5	42.5	11011	30.7	42.5	2241	1627	1543	1585	1803
Triumph	s673	NS	C	N	78	104	59	1.0	38.6	11819	28.6	41.7	--	--	2549	--	--
LSD 5%	--	--	--	--	1	3	5	1.0	5.8	989	1.4	1.5	642	454	411	--	--
C.V.%	--	--	--	--	1.3	2.0	5.1	70.7	7.7	8.3	3.4	2.8	20.1	16.8	11.9	--	--
Mean	--	--	--	--	73	102	73	1.0	54.4	8562	30.1	39.4	2304	1934	2501	--	--

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.

² Herbicide 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).