

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

Company	Variety	Oil Type ¹	Herb. Type ²	DMR ³	Days		Moisture	Days		Seed Weight	Test Weight	Yield					
					to Flower	Plant Height		to Lodging	Lodge			Oil %	2005	2006	2007	Year 2	Year 3
					DAP ⁴	in	%	DAP	0-9	g/1000	lb/bu	-----lb/A-----					
Advanta Pacific LLC	AP534 NS/CL/DM	NS	CL	Y	66	56	17.4	113	0.0	46.7	28.8	40.5	--	--	1747	--	--
Advanta Pacific LLC	F30236 NSDM	NS	Conv.	Y	61	51	11.1	105	0.0	56.9	29.8	41.8	--	1733	1541	1637	--
Advanta Pacific LLC	F51122 NS/CL/DM	NS	CL	Y	64	54	14.4	111	0.3	58.9	29.2	41.5	--	--	1887	--	--
Advanta Pacific LLC	F51132 NS/CL/DM	NS	CL	Y	66	55	13.5	114	0.0	50.9	28.6	41.3	--	--	1933	--	--
Advanta Pacific LLC	F51179 NSDM	NS	Conv.	Y	65	54	13.2	111	0.0	49.0	31.5	43.7	--	--	1763	--	--
Advanta Pacific LLC	F51231 NSDM	NS	Conv.	Y	60	55	11.1	106	0.0	48.1	31.8	42.8	--	--	1353	--	--
Advanta Pacific LLC	F51289 NSDM	NS	Conv.	Y	60	46	7.5	104	3.3	52.7	30.7	42.5	--	--	1481	--	--
Advanta Pacific LLC	F51321 NSDM	NS	CL	Y	63	50	19.1	117	0.0	49.1	29.0	41.3	--	2917	1781	2349	--
Cropland Genetics	3080 DMR NS	NS	Conv.	Y	63	56	9.0	111	0.0	43.2	29.0	44.1	2656	2276	2343	2309	2425
Croplan Genetics	356 NS	NS	Conv.	N	65	51	11.2	111	0.0	52.1	31.9	42.3	--	2603	2277	2440	--
Croplan Genetics	378 DMR NS	NS	Conv.	Y	64	54	12.1	114	0.0	48.4	29.1	46.2	--	2576	1991	2283	--
Croplan Genetics	528CL NS	NS	CL	N	64	52	15.0	108	0.7	45.0	29.5	44.6	--	--	1391	--	--
Croplan Genetics	564CL NS	NS	CL	N	66	51	16.2	111	0.0	41.5	30.9	43.6	--	--	1675	--	--
Croplan Genetics	584CL NS	NS	CL	N	68	56	14.1	115	0.0	44.6	28.4	41.8	--	--	1949	--	--
Croplan Genetics	803 DMR NS	NS	Conv.	Y	61	47	9.5	105	0.0	44.0	30.8	41.9	--	--	1571	--	--
Dalgren & Company	4421NS	NS	Conv.	N	65	58	16.0	115	0.3	74.2	27.2	38.8	2354	3048	1801	2425	2401
Dalgren & Company	EX4370	Trad	Conv.	N	60	49	10.5	106	0.7	53.3	31.3	40.8	--	--	1495	--	--
Dalgren & Company	EX4377NS	NS	Conv.	N	61	46	11.8	111	0.3	50.4	31.6	43.3	--	--	1835	--	--
Dekalb	DKF29-30	NS	Conv.	Y	63	59	8.9	110	0.0	47.0	29.8	42.9	--	--	1853	--	--
Dekalb	DKF34-33	NS	Conv.	Y	65	51	11.8	105	0.0	49.8	32.6	42.4	--	--	2093	--	--
Dekalb	DKF35-10	NS	Conv.	Y	64	57	16.5	116	0.0	58.3	31.0	41.7	1815	1843	1591	1717	1750
Dekalb	DKF34-80CL	NS	CL	Y	65	55	10.5	110	0.0	50.1	29.4	42.2	--	--	1859	--	--
Dekalb	DKF37-31	NS	Conv.	Y	64	51	14.5	111	0.7	50.0	31.3	42.6	--	2445	2043	2244	--
Dekalb	DKF38-45	NS	Conv.	N	66	51	13.8	111	0.0	47.3	30.3	43.2	--	--	1937	--	--
Integra Seed	Int. 536 NSDM	NS	Conv.	Y	64	55	19.1	115	0.0	53.3	29.7	42.4	1644	2643	2211	2427	2166
Integra Seed	Int. 735 NSCLDM	NS	CL	Y	64	60	12.7	109	0.0	58.4	28.6	42.3	1611	2387	1955	2171	1984
Integra Seed	Int. 737 NSCLDM	NS	CL	Y	67	52	13.7	114	0.0	45.7	27.6	44.6	--	--	1719	--	--
Integra Seed	Int. EXP 736 NSCLDM	NS	Conv.	Y	66	53	13.9	113	0.3	50.7	28.6	43.0	--	--	1735	--	--
Interstate Seed	IS4575 NS/CL	NS	CL	N	64	53	15.1	112	0.0	36.3	28.7	43.9	1726	2093	1439	1766	1753
Interstate Seed	IS4668 NS/CL	NS	CL	N	66	52	16.0	114	0.0	52.8	28.4	42.7	--	2498	1905	2202	--
Interstate Seed	IS4704 NS	NS	Conv.	N	63	47	12.9	115	0.0	56.6	29.3	43.2	1812	2352	1461	1907	1875

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					to Flower	Height		to Maturity					0-9	g/1000	lb/bu	Oil %	2005
													-----lb/A-----				
													-----lb/A-----				
Interstate Seed	IS5770 NS/DM	NS	Conv.	Y	65	54	13.6	115	0.7	45.9	30.5	42.4	--	1811	1803	1807	--
Interstate Seed	IS5880 NS/CL	NS	CL	Y	64	51	16.2	112	0.0	36.7	27.7	44.3	--	2135	1535	1835	--
Interstate Seed	IS6131 NS/DM	NS	Conv.	Y	62	49	11.0	107	0.0	45.8	30.7	40.8	--	--	1787	--	--
Interstate Seed	IS7120 HO/DM	HO	Conv.	Y	62	46	14.2	112	0.0	53.3	31.5	40.7	--	--	1681	--	--
Monsanto	MH6641	NS	Conv.	Y	65	48	10.2	109	0.0	47.9	31.6	40.2	--	--	2379	--	--
Monsanto	MH6642	NS	Conv.	Y	62	53	10.0	114	0.0	52.4	30.8	41.8	--	--	2043	--	--
Monsanto	MH6643	NS	Conv.	Y	63	51	11.1	115	0.0	51.8	30.3	46.7	--	--	1691	--	--
Mycogen Seeds	8D310	NS	Conv.	N	64	60	15.5	116	0.0	83.2	28.8	41.0	2525	2991	1883	2437	2466
Mycogen Seeds	8H288DM	HO	Conv.	Y	63	51	12.8	107	0.0	44.8	30.6	42.7	2764	2289	2067	2178	2373
Mycogen Seeds	8H350DM	HO	Conv.	Y	64	53	10.4	107	0.3	41.1	29.5	43.0	2940	2030	1739	1885	2236
Mycogen Seeds	8N270	NS	Conv.	N	62	50	13.1	108	0.0	46.3	30.5	42.4	1898	1820	1695	1758	1804
Mycogen Seeds	8N337DM	NS	Conv.	Y	62	52	9.7	109	0.0	44.1	31.0	41.6	--	2136	1899	2018	--
Mycogen Seeds	8N358CL	NS	CL	N	64	48	14.3	112	0.0	42.3	29.2	39.9	--	2555	1957	2256	--
Mycogen Seeds	8N386CL	NS	CL	N	64	57	12.3	113	0.7	45.1	28.8	42.6	2506	2477	2025	2251	2336
Mycogen Seeds	8N453DM	NS	Conv.	Y	64	52	12.2	110	0.0	42.1	31.4	42.8	3380	2130	2145	2137	2552
Pioneer Hi-bred Int. Inc.	XF3622	NS	Conv.	Y	65	55	15.8	116	0.0	59.7	29.3	42.2	--	--	1579	--	--
Pioneer Hi-bred Int. Inc.	XF4635	HO	Conv.	Y	66	57	23.1	114	0.0	55.6	31.0	40.5	--	--	1539	--	--
Pioneer Hi-bred Int. Inc.	63M40	NS	Conv.	Y	64	53	12.5	109	0.0	52.1	29.1	42.6	--	--	1983	--	--
Pioneer Hi-bred Int. Inc.	63M80	NS	Conv.	--	65	52	15.1	111	0.0	56.2	29.2	46.3	2630	2543	1471	2007	2215
Pioneer Hi-bred Int. Inc.	63N81	NS	Conv.	Y	65	54	14.1	110	0.0	52.8	29.3	43.9	--	--	1697	--	--
Pioneer Hi-bred Int. Inc.	64H41	HO	Conv.	Y	66	53	21.5	112	1.3	53.5	29.9	44.7	2396	2538	1501	2020	2145
Proseed	6004	NS	CL	N	66	60	15.6	114	0.0	47.7	31.9	43.6	--	--	1473	--	--
Proseed	6294	HO	CL	N	67	61	10.7	107	0.0	37.8	31.0	43.4	--	--	1427	--	--
Proseed	6481	NS	Conv.	N	66	61	11.2	110	0.0	41.0	28.8	39.7	--	--	1897	--	--
Proseed	A-1	NS	Conv.	N	64	60	15.1	113	0.0	51.1	32.3	38.6	2129	2166	1592	1879	1962
Proseed	CL7001	NS	CL	N	68	55	19.4	116	0.0	49.3	27.0	41.1	--	--	1541	--	--
Proseed	E-3	HO	Conv.	Y	64	51	10.1	111	0.0	48.0	30.5	40.8	--	--	1563	--	--
Proseed	E-4	HO	Conv.	Y	65	59	18.4	112	0.3	54.5	28.6	44.9	--	--	1737	--	--
Proseed	E-5	HO	Conv.	Y	66	53	18.5	112	0.7	53.4	28.8	42.7	--	2096	1489	1793	--
Proseed	E-85	HO	Conv.	Y	64	64	14.9	112	0.0	54.0	27.1	41.5	--	1974	2201	2087	--
Proseed	EE-1	HO	Conv.	Y	65	59	19.0	106	0.0	50.7	27.9	43.2	--	--	2129	--	--

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					to Flower	Height		to Maturity					0-9	g/1000	lb/bu		
Proseed	EE-2	HO	Conv.	Y	65	64	15.0	107	0.7	51.2	28.7	42.8	--	--	2207	--	--
Proseed	EE-3	HO	Conv.	Y	68	52	12.5	106	0.0	49.9	28.7	41.3	--	--	1681	--	--
Seeds 2000	Defender HO	HO	Conv.	Y	64	56	9.6	109	0.0	46.6	29.5	42.9	2761	1810	1533	1672	2035
Seeds 2000	Defender Plus	NS	Conv.	Y	64	51	11.0	108	0.0	53.0	29.9	41.8	2409	1793	1385	1589	1862
Seeds 2000	Viper	NS	CL	N	64	50	14.2	111	0.0	37.9	28.6	42.0	1581	2148	1705	1927	1811
Seeds 2000	X4239 HODMR	HO	Conv.	Y	64	48	14.9	113	0.7	38.4	29.5	40.9	--	1934	1941	1937	--
Triumph Seed Co. Inc.	s672	NS	Conv.	N	67	38	9.0	114	0.0	37.0	31.4	46.2	1821	2735	1745	2240	2100
Triumph Seed Co. Inc.	TRX3244	NS	Conv.	N	65	61	12.0	105	0.0	53.3	28.6	41.0	--	2571	1679	2125	--
Triumph Seed Co. Inc.	TRX7341	NS	Conv.	Y	66	57	9.3	106	0.0	51.1	29.7	42.7	--	--	1802	--	--
Triumph Seed Co. Inc.	TRX7434HOCL	HO	Conv.	N	68	61	18.6	117	0.0	41.2	30.7	41.6	--	--	2069	--	--
Triumph Seed Co. Inc.	TRX7449	NS	Conv.	Y	68	53	18.9	113	0.0	43.8	28.0	42.5	--	--	1585	--	--
Triumph Seed Co. Inc.	TRXs7322	NS	Conv.	Y	67	38	15.1	118	0.0	42.3	31.9	44.1	--	--	2007	--	--
Triumph Seed Co. Inc.	TRXs7424	NS	Conv.	N	65	36	13.9	115	0.7	35.1	31.6	43.7	--	--	1821	--	--
										59.2							
LSD 5%	--				2	8	7.9	4	0.8	52.1	1.6	3.7	577	725	455	--	--
C.V.%	--				1.6	9.4	35.1	2.2	316.4	49.9	3.3	5.3	--	--	15.8	--	--
Mean	--				64	53	13.8	111	0.2	41.4	29.8	42.4	1860	2214	1778	--	--

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

² Herbicide Type: Conv.=Conventional, CL=Clearfield.

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

⁴ DAP=Days after planting.