

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

Company	Variety	Oil Type	Herb Type	Plant Height in	Days to Harvest		Moisture %	Seed Weight g/1000	Test Weight lb/bu	Oil %	Yield				
					Flower DAP	PM DAP					2003	2004	2005	Year 2	Year 3
Pioneer	63M80	N	C	62	85	116	8.7	78.0	31.9	46.9	1753	2231	2630	2431	2205
Pioneer	X2405	N	C	54	85	116	8.5	62.3	29.8	45.3	--	--	2813	--	--
Pioneer	X2505	N	C	58	86	117	10.4	72.0	30.1	38.5	--	--	1662	--	--
Pioneer	64H41	HO	C	71	82	120	10.3	64.0	34.0	41.1	--	--	2396	--	--
Pioneer	X64H45	HO	C	72	81	119	10.7	62.8	32.2	40.0	--	--	1822	--	--
Seeds 2000	Defender Plus	N	C	63	84	115	8.3	58.3	31.8	41.1	--	--	2409	--	--
Seeds 2000	Defender HO	HO	C	68	84	115	8.7	58.3	31.5	37.6	--	--	2761	--	--
Seeds 2000	Colonel	N	C	60	85	116	10.4	55.5	27.5	38.9	1998	2432	1739	2086	2056
Seeds 2000	X6539	HO	C	66	87	118	9.4	52.3	32.2	39.3	--	--	2268	--	--
Seeds 2000	Viper	N	CL	62	87	118	9.2	49.0	30.5	41.8	--	2423	1581	2002	--
DeKalb	DKF35-10	N	C	63	82	120	10.3	75.3	32.6	41.4	--	--	1815	--	--
DeKalb	DKF33-33	N	C	61	84	115	9.1	73.5	31.8	39.7	1848	2170	2017	2094	2012
DeKalb	DKF30-33	N	C	62	88	119	11.0	74.3	33.0	40.9	1910	2561	2404	2482	2292
DeKalb	MH4331B	N	C	57	86	117	10.6	71.3	32.1	42.7	--	--	2264	--	--
DeKalb	MH4435	N	C	50	78	119	11.5	61.0	31.5	41.6	--	--	1247	--	--
DeKalb	MH4436	N	C	63	86	117	7.6	62.0	34.7	45.8	--	--	2875	--	--
DeKalb	MH5330	N	C	71	81	119	9.1	72.8	34.3	44.2	--	--	2342	--	--
DeKalb	MH5434	N	C	67	83	121	9.9	77.8	32.2	44.2	--	--	1849	--	--
Mycogen Seed	8N251	N	C	66	80	119	10.8	60.5	32.7	44.4	--	1976	2412	2194	--
Mycogen Seed	8H288DM	HO	C	67	82	120	9.0	64.0	33.9	44.5	--	--	2764	--	--
Mycogen Seed	8N270	N	C	58	80	119	9.3	62.8	31.5	43.3	--	--	1839	--	--
Mycogen Seed	SF270	T	C	57	85	116	9.3	76.5	32.9	38.4	1819	2261	1898	2080	1993
Mycogen Seed	8D310	N	C	66	87	118	12.3	86.5	31.0	37.2	--	1922	2525	2223	--
Mycogen Seed	8H350DM	HO	C	70	81	119	10.0	49.8	32.1	43.6	--	--	2940	--	--
Mycogen Seed	8N386CL	N	CL	66	81	119	10.1	59.0	31.7	41.1	--	--	2506	--	--
Mycogen Seed	8H419CL	HO	CL	67	80	119	10.8	50.8	30.5	39.0	--	--	2456	--	--
Mycogen Seed	8N352	N	C	57	81	120	9.3	70.3	34.5	46.7	--	2021	2037	2029	--
Mycogen Seed	8N453DM	N	C	67	88	119	8.4	57.0	35.7	49.1	--	--	3380	--	--
Garst Seed	02TH003896	HO	C	70	88	119	9.5	54.8	35.0	41.2	--	--	2558	--	--
Garst Seed	03TH004205	HO	C	64	86	117	8.3	57.8	32.6	37.5	--	--	2820	--	--
Garst Seed	03TH004251	N	C	66	86	117	10.1	59.5	29.9	41.7	--	--	2608	--	--
Dyna-Gro	91N05	N	C	50	84	115	10.2	68.3	30.5	39.2	--	1672	1070	1371	--
Dyna-Gro	93N05	N	C	59	88	119	10.0	76.5	31.5	40.1	--	1929	2274	2102	--
Dyna-Gro	93C05CL	N	CL	62	88	119	9.1	48.0	29.8	41.2	--	2013	1676	1845	--
Nidera, S.A.	FN693	N	--	70	87	118	9.0	58.8	31.4	44.1	--	--	2686	--	--
Dahlgren	DO-4421	N	C	64	87	118	10.6	94.8	31.1	37.3	1902	2260	2354	2307	2172
Dahlgren	DO-4440	N	C	57	87	118	10.0	73.3	31.4	40.9	--	2182	1974	2078	--
Dahlgren	DO-4455 CL	N	CL	58	86	117	10.5	59.8	29.3	38.3	--	--	1619	--	--
Kaystar Seed	8330NS	N	C	53	86	117	11.8	74.8	30.2	40.5	2145	2023	1016	1520	1728
Kaystar Seed	8303	T	C	56	85	116	9.6	80.5	31.1	42.1	--	--	1638	--	--
Triumph Seed	TRX3241	N	C	56	85	116	8.6	64.3	31.0	45.9	--	1984	1590	1787	--
Triumph Seed	TRX3249	N	C	59	84	115	7.9	63.5	32.3	44.6	--	--	1640	--	--
Triumph Seed	TRX4240	N	C	60	84	115	9.2	54.5	31.1	44.1	--	--	1387	--	--
Triumph Seed	820HO	HO	C	57	87	118	12.2	51.0	33.2	41.0	--	2402	969	1685	--
Triumph Seed	620CL	N	CL	39	82	121	21.5	17.5	27.0	34.5	--	1973	264	1118	--
Triumph Seed	s672	N	C	44	83	122	11.9	61.8	32.7	47.5	--	--	1821	--	--

DAP=Days after planting

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Oil Types: T=traditional, N=nusun, HO=high oleic, NA=not available

Herbicide Types: C=conventional, CL=clearfield

Downy Mildew disease incident was significant for non-resistant hybrids

Record precipitation in June caused water damage in some plots, and these were dropped from the analysis

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Company	Variety	Oil Type	Herb Type	Plant Height	Days		Harvest Moisture	Seed Weight	Test Weight	Oil	Yield				
					to Flower	to PM					2003	2004	2005	Year	2
Croplan Genetics	803	T	C	58	85	116	7.8	63.0	34.0	43.2	--	--	1499	--	--
Croplan Genetics	340HO	HO	C	59	75	121	15.1	63.5	29.6	38.5	--	2422	1596	2009	--
Croplan Genetics	343DMRHO	HO	C	58	86	117	10.0	67.8	33.1	38.9	--	--	2364	--	--
Croplan Genetics	378DMRHO	HO	C	65	88	119	11.4	58.3	29.7	39.6	--	--	1876	--	--
Croplan Genetics	3080DMR	N	C	62	86	117	7.2	49.3	31.7	46.8	2037	1986	2656	2321	2226
Croplan Genetics	308	N	C	52	86	117	9.3	47.3	31.8	45.9	1982	1928	1271	1600	1727
Croplan Genetics	520CL	N	CL	59	85	116	9.5	43.3	30.7	41.8	--	2492	1216	1854	--
Croplan Genetics	544CL	N	CL	65	87	118	10.1	53.5	29.9	38.4	--	2587	1924	2255	--
HyTest Seed	HTF24N40	N	--	63	85	116	7.4	54.8	31.5	47.5	--	--	2771	--	--
HyTest Seed	HTF 26 N42	N	--	63	87	118	10.7	57.5	31.8	42.8	--	--	2083	--	--
HyTest Seed	HTF 28C44	N	--	66	87	118	10.4	58.5	29.8	38.8	--	--	1995	--	--
HyTest Seed	HTF 27043	HO	--	57	86	117	10.1	55.3	29.8	38.2	--	--	2111	--	--
Proseed	E-2	N	CL	63	84	115	8.8	68.0	30.9	41.0	--	--	2459	--	--
Proseed	CL-42	N	CL	70	87	118	10.1	64.3	29.5	39.1	--	--	1635	--	--
Proseed	CL-43	N	CL	44	85	116	14.2	60.5	28.4	33.5	--	--	1033	--	--
Proseed	T-1	N	C	47	82	120	11.8	62.8	27.0	40.1	--	2739	899	1819	--
Proseed	T-4	N	C	65	86	117	8.2	67.5	31.8	45.8	--	--	2348	--	--
Proseed	9441	N	C	68	87	118	10.2	63.0	30.2	43.6	1810	1642	1930	1786	1794
Proseed	9405	N	C	59	82	121	17.0	82.0	28.0	40.5	--	--	1809	--	--
Proseed	CL55-15	N	CL	54	87	118	12.7	71.0	31.0	35.0	1713	2096	653	1374	1487
Proseed	E-1	HO	C	67	85	116	8.2	77.0	28.7	40.1	--	--	2569	--	--
Proseed	A-1	N	C	68	87	118	9.7	68.8	34.3	48.6	--	--	2129	--	--
Proseed	A-2	N	C	74	86	117	8.9	57.3	32.6	43.3	--	--	2459	--	--
Proseed	A-3	N	C	66	86	117	10.3	51.5	34.7	41.3	--	--	1839	--	--
Proseed	A-4	N	C	76	83	121	11.6	74.3	30.2	45.1	--	--	2105	--	--
Interstate Seed	HyOleic 120	HO	C	62	88	119	11.3	64.8	31.9	37.6	--	1895	1329	1612	--
Interstate Seed	F10046	HO	C	36	83	121	15.3	60.0	29.7	33.6	--	1892	384	1138	--
Interstate Seed	EX8888	N	CL	59	84	122	18.4	73.0	27.3	36.4	--	--	1051	--	--
Interstate Seed	HySun521	N	C	59	83	121	13.9	68.3	31.5	39.9	1517	1878	1885	1881	1760
Interstate Seed	HySun511	N	C	51	86	117	10.3	70.8	30.2	40.9	1783	2036	1213	1625	1677
Interstate Seed	4575NS/CL	N	CL	60	80	118	8.9	54.8	30.8	40.3	--	2084	1726	1905	--
Interstate Seed	6111	T	C	53	86	117	9.3	85.5	33.0	41.1	--	--	1988	--	--
Interstate Seed	6521	T	C	59	80	119	9.1	56.3	33.1	44.3	2191	2536	1553	2045	2093
Interstate Seed	4704-NS	N	C	55	81	119	11.4	81.3	31.1	38.2	1513	2055	1812	1933	1793
Interstate Seed	4540-NS	N	C	51	87	118	9.9	92.5	33.8	43.0	--	1768	2335	2051	--
Interstate Seed	F10003	N	C	56	87	118	12.3	73.0	30.6	37.7	--	1990	1099	1544	--
Interstate Seed	F10016	N	C	50	87	118	15.3	75.5	29.3	38.6	--	--	796	--	--
Interstate Seed	HySun525	N	C	54	87	118	12.2	63.0	30.2	39.9	1783	1779	1043	1411	1535
Triumph Seed	660CL	N	CL	70	91	122	14.1	67.5	28.6	39.0	--	--	2185	--	--
Integra Seed	INT552NS	N	C	63	88	119	13.0	76.0	30.5	42.2	2173	2500	1646	2073	2106
Integra Seed	INT536NS	N	C	56	87	118	10.1	62.5	31.8	40.8	1592	2136	1644	1890	1791
Integra Seed	INT432	T	C	65	83	122	8.3	83.5	31.0	44.6	2202	2356	2595	2476	2384
Integra Seed	INT735	N	CL	63	87	118	8.9	51.8	30.0	41.0	--	1728	1611	1669	--
Integra Seed	INTEX707	N	CL	63	82	121	12.2	77.0	28.6	39.4	--	--	1670	--	--
Oil Check	Hybrid894	NA	C	55	87	118	14.3	64.0	29.0	37.0	--	--	782	--	--
Maturity Check	Hysun311 (E-PM)	NA	C	67	84	115	8.0	76.3	32.1	44.2	--	--	1866	--	--
Maturity Check	SF270 (M-PM)	NA	C	55	79	118	10.3	63.8	32.0	39.2	--	--	1383	--	--
Maturity Check	P6451 (L-PM)	NA	C	55	88	119	10.3	66.5	29.9	43.3	--	--	1810	--	--
LSD 5%	--	--	--	8	NS	3	4.8	19.8	1.1	2.4	473	389	577	--	--
C.V.%	--	--	--	9.5	7.7	1.9	31.4	15.3	2.6	4.2	18.0	14.9	22.4	--	--
Mean	--	--	--	60	85	118	11.0	64.8	31.1	41.0	1875	1864	1860	--	--

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