

**NDSU Carrington Research Extension Center
2009 Variety Trial Data**

Oil Sunflower **Carrington (Page 1 of 2)**

Brand	Hybrid	Hybrid Type ¹	Neck Drop %	Plant Ht. inch	Plant Lodge 0 to 9	Leaf Rust ² %	Days to Bloom	Days to PM	Moist. @ Harvest %	Test Weight lb/bu	Oil Content @ 10% M %	Oil ---- Seed Yield ----			
												2-yr. 2009 Avg. lb/ac	3-yr. Avg. lb/ac	Oil Yield lb/ac	
Pioneer Brand	63N82	NS,Ex	11	55	0.0	11.3	81.0	135.3	8.3	31.3	40.4	876	1426	--	366
Pioneer Brand	64H41	HO	24	62	0.0	12.5	79.0	134.8	8.7	33.5	38.4	1104	1508	1859	426
Proseed	6007	NS,CL	8	63	0.0	4.8	81.8	133.5	9.0	32.9	40.0	1599	1659	--	643
Proseed	7052	NS,CL	18	61	0.0	4.3	78.8	132.5	8.2	31.9	42.4	1336	1656	--	568
Proseed	7207	NS,CL	5	57	0.0	8.0	81.3	128.3	8.1	30.4	40.2	933	1314	--	375
Proseed	7001 CL	NS,CL	44	56	0.0	1.9	80.0	137.5	8.3	30.5	39.7	1222	--	--	477
Proseed	9001 CL	NS,CL	49	49	0.0	1.4	78.3	133.8	8.5	31.2	39.8	1204	--	--	479
Proseed	E-85	NS	23	61	0.0	7.5	79.0	133.0	8.1	27.7	40.5	1516	1668	1963	614
Proseed	E-4	NS	19	54	0.0	8.8	78.3	130.8	7.8	29.7	40.0	786	--	--	315
Proseed	E-5	NS	16	63	0.0	14.0	81.3	130.5	8.1	28.3	39.6	1065	1395	1815	422
Proseed	E-6	NS	18	60	0.0	6.5	83.5	135.5	7.9	27.1	39.6	1136	1497	--	451
Proseed	E-8	NS	46	58	0.0	2.9	79.5	137.0	7.8	29.2	41.0	1322	--	--	543
Mycogen Seeds	8N270CLDM	NS,CL,DM	0	48	0.0	8.8	75.3	132.5	8.3	30.1	40.7	987	1404	1694	401
Mycogen Seeds	8H288CLDM	HO,CL,DM	23	50	0.0	1.8	77.3	133.0	8.1	31.0	40.3	1259	1437	--	508
Mycogen Seeds	8N358CLDM	NS,CL,DM	13	54	0.0	6.8	77.8	130.8	8.2	29.8	42.2	1346	1587	1914	568
Mycogen Seeds	8D310	NS	31	55	0.0	4.0	77.0	136.0	8.1	30.0	37.5	1563	1518	1865	587
Mycogen Seeds	8D481	NS	22	59	0.0	2.0	79.5	137.3	8.0	31.7	38.5	878	1604	--	336
Mycogen Seeds	8N433DM	NS,DM	23	57	0.0	3.5	78.8	131.5	8.1	29.9	42.2	1294	--	--	546
Mycogen Seeds	8N453DM	NS,DM	15	55	0.0	7.8	79.3	132.0	8.6	31.8	43.5	1247	1679	2088	546
Mycogen Seeds	8H449DM	HO,DM	14	56	0.0	5.8	78.5	132.3	8.5	32.2	42.7	1357	1794	--	580
Nidera Seed	LN9714 IMI-HO-	HO,CL	23	59	0.0	4.3	83.5	136.3	8.3	32.6	38.6	940	--	--	362
Nidera Seed	KN9035 IMI-HO-	HO,CL	30	57	0.0	3.5	80.3	136.8	8.3	31.5	40.6	1261	--	--	515
Nidera Seed	LN9987 IMI-NS-I	NS,CL	19	52	0.0	1.5	80.8	136.0	8.0	32.0	38.6	1597	--	--	617
Seeds 2000	Blazer CL	NS,CL	14	57	0.0	10.3	80.5	129.3	8.0	27.8	42.3	785	1267	1781	332
Seeds 2000	Barracuda	NS,CL	45	52	0.0	7.0	80.3	133.8	8.1	29.9	42.4	938	1535	--	397
Seeds 2000	Defender Plus-DM	NS,DM	13	52	0.3	3.5	78.0	130.8	8.2	29.9	40.7	1207	1436	1698	488
Seeds 2000	Viper	NS,CL	24	52	0.3	26.3	82.3	123.8	8.0	28.6	39.4	426	1101	1476	165
Seeds 2000	X5619	NS,Ex	9	53	0.3	7.0	79.3	131.3	8.3	28.2	41.9	974	--	--	410
Croplan Genetics	306 DMR NS	NS,DM	19	49	0.3	3.8	77.8	137.3	8.3	29.7	40.7	731	1182	--	297
Croplan Genetics	3080 DMR NS	NS,DM	29	50	0.3	5.8	79.5	130.0	8.3	30.5	44.1	1103	1491	1795	487
Croplan Genetics	356A NS	NS	14	51	0.3	3.0	81.3	134.5	8.2	29.3	42.6	965	1611	2163	411
Croplan Genetics	369 DMR NS	NS,DM	41	52	0.3	4.0	83.0	137.5	8.3	31.3	40.0	648	1142	--	259
Croplan Genetics	460 E NS	NS,Ex	11	57	0.3	8.0	78.8	130.3	8.3	28.6	42.8	1150	--	--	493
Croplan Genetics	555 CL DMR NS	NS,CL,DM	18	59	0.0	3.5	79.8	133.5	8.4	30.6	42.0	1175	--	--	493
Integra Seed	735	NS,CL	30	48	0.0	2.0	77.3	133.5	8.2	30.9	39.9	1146	1503	1792	459
Integra Seed	51139NSCLDM	NS,CL,DM	11	56	0.8	2.3	77.5	130.3	8.3	32.3	42.8	1478	--	--	634
Integra Seed	737	NS,CL	24	53	0.8	2.3	81.0	137.3	8.4	30.4	39.4	990	1429	1702	390
Integra Seed	51179NSDM	NS,DM	15	44	0.3	4.8	79.0	132.5	8.3	30.4	43.1	1234	--	--	533
Dahlen & Comp	4421	NS	25	55	0.8	3.0	77.3	136.3	8.4	28.5	37.8	1228	--	--	463
Dahlgren	4455	NS	15	53	0.5	4.3	78.0	137.5	8.1	32.4	38.6	1156	--	--	449
Dahlgren	4416CL	NS,CL	25	53	0.8	15.0	78.8	128.8	7.9	26.7	34.6	806	--	--	280
Pannar	PAN7924 NS	NS	32	54	0.0	0.1	79.8	136.0	10.3	29.5	42.3	2073	2089	2257	877
Pannar	PAN7813 NS	NS	27	57	0.0	0.1	78.8	134.0	8.9	32.0	44.1	1976	2018	2233	873
Pannar	PAN8560 NS/CL	NS,CL	29	59	0.8	2.5	81.3	137.3	8.3	30.5	40.5	1073	--	--	430
Pannar	PAN8466 NS/CL	NS,CL	10	57	0.5	13.8	81.3	129.3	8.1	26.9	41.1	685	--	--	285
Pannar	PAN8579 NS/DM	NS,DM	18	53	1.0	5.0	79.3	132.3	8.3	30.1	42.6	1152	1460	--	491
MEAN			22.5	54.4	0.2	5.3	79.6	133.7	8.3	30.3	41.0	1218	--	--	496
C.V. %			65.1	8.6	357	71.6	1.8	1.4	5.6	2.9	3.2	16.4	--	--	17.4
LSD .05			20.3	6.5	NS	5.2	2.0	2.6	0.6	1.2	1.8	277	--	--	120

Planting Date = May 27 ; Harvest Date = November 16 ; Previous Crop = Cover Crop/Fallow

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												2-yr. Avg. 2009	3-yr. Avg.	Oil Yield lb/ac	
Pannar	PEX7803	HO	56	51	0.8	0.1	79.8	136.8	8.4	30.8	42.5	1499	--	--	636
Pannar	PEX7904	HO	38	51	0.5	0.1	79.8	136.0	8.7	30.8	41.7	1761	--	--	735
Pannar	PEX7404	NS	36	54	1.0	0.1	78.0	137.3	8.1	31.8	41.3	1988	--	--	847
Advanta US Inc	F51313NS,MD,CI	NS,CL	30	58	0.0	0.1	78.8	135.8	8.1	31.5	40.8	1711	--	--	698
Advanta US Inc	F51139NS,DM,CI	NS,CL,DM	9	57	0.0	3.5	78.3	131.5	8.4	33.0	41.6	2036	2064	--	849
Advanta US Inc	F51137NS,CL	NS,CL	36	59	0.0	1.8	79.5	135.8	8.4	31.9	39.9	1445	1845	--	578
Dekalb	IS7120 HO/DM	HO,DM	29	51	0.0	10.8	77.5	137.5	8.1	32.2	37.8	440	1001	1530	167
Dekalb	DKF29-30 NS/DM	NS,DM	15	50	0.0	20.8	77.8	130.3	8.2	30.2	40.8	775	1156	1593	316
Dekalb	DKF34-33 NS/DM	NS,DM	21	53	0.0	5.5	78.8	133.0	8.4	31.3	41.4	1190	1495	2002	492
Dekalb	MH9001	NS,CL	23	56	0.0	3.5	81.5	133.8	8.8	31.2	42.5	1434	--	--	609
Dekalb	MH9002	NS,CL	11	57	0.0	2.3	78.8	131.3	8.5	33.3	41.5	1789	--	--	742
Dekalb	DKF37-31 NS	NS	5	53	0.0	3.3	79.8	131.8	8.2	29.6	42.9	1237	1778	2182	530
Dekalb	DKF37-32 NS	NS	17	49	0.0	2.8	80.5	134.0	8.4	30.1	43.3	1444	--	--	624
Dekalb	DKF39-80CL	NS,CL	45	56	0.0	3.1	81.3	137.8	8.1	30.4	40.1	905	1473	--	363
Dekalb	DKF34-80CL	NS,CL	15	50	0.0	3.8	78.5	136.3	8.3	29.0	40.2	1165	1430	1916	469
Dekalb	DKF38-75 NS	NS	14	58	0.0	1.8	81.8	132.5	8.0	28.7	40.2	1523	--	--	613
Dekalb	DKF38-45 HO	HO	13	51	0.0	9.0	79.8	127.8	7.8	29.8	40.9	1027	1574	2038	420
CHS Sunflower	08EXP01	Trad	31	56	0.3	10.0	78.8	127.5	7.9	24.7	38.3	789	--	--	303
Triumph	s671	NS,SS	21	39	1.0	0.1	82.5	138.0	8.5	32.1	43.9	1440	1835	2042	632
Triumph	s878HO	HO,SS	39	43	0.0	2.3	83.0	137.8	8.3	31.8	42.7	1177	1513	1850	503
Triumph	s655	NS,SS,DM	40	45	0.0	0.9	83.0	138.0	8.1	31.7	42.4	959	1288	--	407
Triumph	TRX7435HO	HO	15	60	0.0	1.8	79.5	137.0	9.0	30.0	42.2	1694	--	--	714
Triumph	TRX8341	NS	20	54	0.0	0.1	77.8	137.5	8.8	30.8	42.9	1542	1815	--	663
Triumph	630CL	NS,CL	26	59	0.0	0.1	80.8	136.5	9.5	30.5	41.6	1254	1593	--	520
Triumph	TRX8330HO	HO	20	56	0.0	12.0	79.3	132.3	8.2	28.9	42.1	833	--	--	351
Triumph	845HO	HO	6	62	0.0	5.3	79.5	129.0	8.2	26.2	41.3	1065	1456	1777	440
USDA	894	Trad	56	52	0.0	10.5	77.8	134.8	8.5	31.0	40.9	1075	1357	1708	439
MEAN			22.5	54.4	0.2	5.3	79.6	133.7	8.3	30.3	41.0	1218	--	--	496
C.V. %			65.1	8.6	357	71.6	1.8	1.4	5.6	2.9	3.2	16.4	--	--	17.4
LSD .05			20.3	6.5	NS	5.2	2.0	2.6	0.6	1.2	1.8	277	--	--	120

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¹ Information on hybrid detail is noted as provided by company. Type: HO = High Oleic, NS = NuSun, Trad = Traditional, CL = Clearfield, Ex = ExpressSun, DM = Downy Mildew Resistant, SS = Short Stature.

² Sunflower leaf rust was prevalent throughout this test, seed yields were impacted by these infections.