

**NDSU Carrington Research Extension Center
2018 Variety Trial Data**

Oil Sunflower **Carrington (Page 1 of 3)**

Brand	Hybrid	Hybrid Type ¹	Tech Trait	Plant Ht. inch	Days to Bloom	Days to PM	Moist. at Harvest %	Test Weight lb/bu	Oil Content ² %	----- Seed Yield -----		
										2018	2-yr. Avg. lb/ac	3-yr. Avg.
Allegiant	65H81CL	HO	Clearfield	56.6	59.8	101.0	8.7	29.8	41.3	1483	--	--
Allegiant	70H51CL	HO	Clearfield	59.5	64.8	104.5	9.5	28.6	43.1	1215	--	--
Croplan	3845 HO	HO	N/A	55.5	62.8	102.3	8.9	31.0	40.7	1381	1715	--
Croplan	450 E HO	HO	ExpressSun	62.2	63.3	105.8	11.1	28.9	39.9	1655	1854	--
Croplan	455 E HO	HO	ExpressSun	65.2	62.8	103.3	9.3	28.4	40.4	1373	1802	1837
Croplan	545 Cl	NuSun	Clearfield	55.2	63.8	101.0	8.5	28.5	41.5	1279	1913	1912
Croplan	549 CL	NuSun	Clearfield	69.1	62.0	100.5	8.9	29.7	41.3	1675	2188	1965
Croplan	557 CL HO	HO	Clearfield	58.7	63.8	102.5	8.8	28.6	40.4	1409	--	--
Croplan	568 CL HO	HO	Clearfield	59.7	65.3	103.8	9.3	28.5	40.3	1165	1739	--
Croplan	432 E	NuSun	ExpressSun	61.9	59.5	101.3	9.2	29.8	39.2	1822	2333	2041
Dupont Pioneer	P63HE90	HO	ExpressSun	61.5	62.5	103.8	10.4	29.1	41.0	1532	1908	1919
Dupont Pioneer	P64HE101	HO	ExpressSun	59.6	64.5	105.3	12.4	29.0	40.2	1556	--	--
Dupont Pioneer	P64ME01	NuSun	ExpressSun	59.5	64.0	105.0	10.5	29.8	41.5	1510	1916	1914
Dyna-Gro	H42HO18CL	HO	Clearfield	56.4	60.5	101.3	8.6	29.6	40.2	1305	--	--
Dyna-Gro	H44HO12CL	HO	Clearfield	60.2	60.8	101.3	8.7	30.6	41.7	1307	--	--
Dyna-Gro	H45NS16CIL	NuSun	Clearfield	58.9	61.0	99.3	8.3	28.7	41.4	1330	--	--
Dyna-Gro	H48HO15CL	HO	Clearfield	59.0	64.5	105.8	10.3	27.8	41.8	1365	--	--
Dyna-Gro	H49HO19CL	HO	Clearfield	58.2	63.5	102.3	9.3	27.7	40.1	1552	--	--
Dyna-Gro	XH81H51EX	HO	ExpressSun	47.6	50.0	99.0	8.3	26.2	35.3	818	--	--
Dyna-Gro	XH81N46EX	NuSun	ExpressSun	61.5	62.0	100.3	8.6	27.4	40.4	1225	--	--
Dyna-Gro	XH81N48EX	NuSun	ExpressSun	61.9	63.3	101.7	9.4	30.8	43.0	1366	--	--
Dyna-Gro	XH82H63EX	HO	ExpressSun	66.6	63.5	105.3	11.9	30.9	40.0	1619	--	--
MEAN				61.5	62.6	102.4	9.3	29.1	40.9	1454	--	--
C.V. (%)				10.2	1.6	1.3	6.4	2.9	2.1	15.3	--	--
LSD 0.10				7.3	1.2	1.5	0.7	1.0	1.0	260	--	--
LSD 0.05				8.7	1.4	1.8	0.8	1.2	1.2	309	--	--

Planting Date = June 5 ; Harvest Date = October 19 ; Previous Crop = Flax

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Brand	Hybrid	Hybrid Type ¹	Tech Trait	Plant Ht. inch	Days to Bloom	Days to PM	Moist. at Harvest %	Test Weight lb/bu	Oil Content ² %	----- Seed Yield -----		
										2018	2-yr. Avg. lb/ac	3-yr. Avg.
Dyna-Gro	XH82H65EX	HO	ExpressSun	62.8	61.5	100.3	8.7	27.5	39.3	1441	--	--
LCS	LCSADVX18-001HO	HO	N/A	66.0	64.5	101.3	8.8	27.9	40.7	1349	--	--
LCS	LCSADVX18-002HO	HO	N/A	70.4	62.5	100.8	8.5	29.4	40.1	1614	--	--
LCS	LCSADVX18-003HOCLP	HO	Clearfield Plus	63.9	63.8	102.8	8.7	28.4	39.5	1457	--	--
LCS	LCSADVX18-004HO	HO	N/A	66.2	63.0	100.8	8.6	27.9	39.5	1362	--	--
LCS	LCSADVX18-005LN	Traditional	N/A	68.1	65.0	105.3	8.8	31.1	42.8	1434	--	--
LCS	LCSADVX18-006HO	HO	N/A	60.2	63.0	104.5	8.9	29.3	40.6	1673	--	--
LCS	LCSADVX18-007LN	Traditional	N/A	68.5	62.5	101.3	8.6	29.3	41.9	1586	--	--
LCS	LCSADVX18-008HOCL	HO	Clearfield	63.0	63.3	100.8	8.3	28.4	39.5	1427	--	--
LCS	LCSADVX18-009LN	Traditional	N/A	65.6	61.8	97.8	8.4	28.4	40.1	1558	--	--
LCS	LCSADVX18-010LNCLP	Traditional	Clearfield Plus	69.1	64.3	105.8	10.2	30.8	41.8	1824	--	--
LCS	LCSADVX18-011LN	Traditional	N/A	64.7	62.0	99.3	8.5	28.0	41.6	1505	--	--
LCS	LCSADVX18-012LNCLP	Traditional	Clearfield Plus	59.3	63.0	102.3	8.6	27.3	40.2	1446	--	--
LCS	LCSADVX18-013LN	Traditional	N/A	66.8	62.3	97.8	8.6	28.9	41.3	1811	--	--
Mycogen Seeds	8H449CLDM	HO	Clearfield	54.8	64.0	102.3	9.4	33.2	42.3	1173	1825	1814
Mycogen Seeds	MY8H456CL	HO	Clearfield	62.1	64.5	104.8	9.5	27.3	41.7	1312	1530	--
Mycogen Seeds	MY8H460CP	HO	Clearfield	59.4	65.0	107.0	12.3	31.5	44.5	1284	--	--
Nuseed	Badger DMR	NuSun	Clearfield	59.9	61.3	101.5	8.5	28.4	39.2	1749	2185	2026
Nuseed	Camaro II	NuSun	Clearfield	61.8	62.8	101.0	9.2	30.8	42.4	1818	1975	1871
Nuseed	Falcon	NuSun	ExpressSun	58.5	63.8	102.3	9.2	31.8	42.5	1323	1349	1407
Nuseed	Hornet	HO	Clearfield	64.1	63.8	101.0	9.0	28.6	39.9	1510	1914	1816
Nuseed	N4H302 E	HO	ExpressSun	63.0	62.3	100.0	8.4	28.4	39.2	1268	1855	--
MEAN				61.5	62.6	102.4	9.3	29.1	40.9	1454	--	--
C.V. (%)				10.2	1.6	1.3	6.4	2.9	2.1	15.3	--	--
LSD 0.10				7.3	1.2	1.5	0.7	1.0	1.0	260	--	--
LSD 0.05				8.7	1.4	1.8	0.8	1.2	1.2	309	--	--

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										2018	2-yr. Avg. lb/ac	3-yr. Avg.
Nuseed	N4HM354	NuSun	Clearfield	54.4	60.0	99.5	8.4	29.5	42.1	1637	1706	1715
Nuseed	N4H470 CL Plus	HO	Clearfield Plus	60.0	63.8	101.3	8.8	28.4	41.0	1233	1747	--
Nuseed	N5LM307	NuSun	Clearfield	63.0	60.3	101.3	9.2	27.3	39.5	1491	1567	1591
Nutech	63C4	NuSun	Clearfield	56.3	60.8	100.5	8.7	29.8	42.1	1322	1735	1723
Nutech	64H6	HO	ExpressSun	62.2	61.8	102.0	8.8	28.8	39.4	1590	--	--
Nutech	68H7	HO	ExpressSun	65.5	63.0	104.0	11.6	31.0	40.4	1397	1511	1657
Nutech	68M5	NuSun	ExpressSun	62.2	62.8	103.8	10.4	29.5	40.4	1529	--	--
Nutech	69M2	NuSun	ExpressSun	62.1	64.0	106.0	11.3	30.0	42.4	1409	1861	--
Proseed	E 50016 CL	NuSun	Clearfield Plus	61.1	63.8	104.3	9.0	30.0	42.6	1333	1831	--
Proseed	E-21 CL	NuSun	Clearfield	65.6	62.8	106.0	11.5	28.2	41.0	1233	1502	--
Proseed	E-31 CL	NuSun	Clearfield	60.9	63.5	104.3	9.4	28.5	40.5	1560	1807	1716
Proseed	E-362436	NuSun	N/A	67.1	60.5	101.0	9.5	31.1	41.0	1696	2055	--
Proseed	E-71 CL	NuSun	Clearfield	58.9	64.0	103.3	9.3	28.8	41.2	1586	1889	--
Proseed	E-72	NuSun	N/A	61.5	63.8	102.5	9.4	29.9	42.9	1417	1663	--
Proseed	E-73 CL	NuSun	Clearfield	63.3	64.8	103.0	10.0	28.9	41.2	1499	1906	--
Sunopta	4415 HO/CLP/DM	HO	Clearfield Plus	61.7	63.3	103.3	9.2	30.3	41.5	1395	1659	1669
Sunopta	4425 CL	NuSun	Clearfield	64.5	62.8	105.0	8.8	29.9	39.3	1777	2022	2104
Sunopta	EX721CL	HO	Clearfield	65.2	63.5	101.5	8.9	27.5	38.9	1471	--	--
Sunopta	EX72468CL	NuSun	Clearfield	64.8	65.8	106.5	10.3	26.9	42.3	1441	--	--
Sunopta	EX725 CL	NuSun	Clearfield	62.0	62.8	105.3	9.9	27.8	40.9	1755	--	--
MEAN				61.5	62.6	102.4	9.3	29.1	40.9	1454	--	--
C.V. (%)				10.2	1.6	1.3	6.4	2.9	2.1	15.3	--	--
LSD 0.10				7.3	1.2	1.5	0.7	1.0	1.0	260	--	--
LSD 0.05				8.7	1.4	1.8	0.8	1.2	1.2	309	--	--

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¹ Oil Type: HO = High Oleic, NS = NuSun, Trad = Traditional. * Hybrid detail as provided by seed company.

² Oils reported at 10% moisture.