

**NDSU Langdon Research Extension Center
2018 Oil Sunflower Trial**

Oil Sunflower - 2018 (page 1-2)

Langdon

Brand	Hybrid	Hybrid Type ¹	Status ²	Days to Flower (DAP) ³	Days to PM (DAP) ³	Plant Height (inch)	Oil (%)	Test Weight (lb/bu)	Harvest Moist. %	Seed Yield				
										2016	2017	2018	2-yr Avg.	3-yr Avg.
Croplan	3845 HO	HO,DMR	CA	68	108	58	38.7	31.4	18	--	3209	2557	2883	--
Croplan	432 E	NS,DMR	CA	63	110	60	35.0	30.3	15	2449	3193	2570	2881	2737
Croplan	450 E HO	EX,HO,DMR	CA	69	110	63	39.5	30.2	18	--	3394	2824	3109	--
Croplan	455 E HO	EX,HO,DMR	CA	66	109	64	39.2	30.6	17	3356	3801	2818	3310	3325
Croplan	545 CL	CL,NS,DMR	CA	70	109	61	40.1	31.2	18	3465	3365	2451	2908	3094
Croplan	549 CL	CL,NS,DMR	CA	64	106	64	39.4	29.8	16	2880	3778	3165	3471	3274
Croplan	557 CL HO	CL,HO,DMR	CA	72	108	62	39.3	30.3	18	--	--	2399	--	--
DuPont Pioneer	P63HE60	EX,HO,DMR	CA	64	108	58	37.7	30.1	16	2704	3006	2728	2867	2813
DuPont Pioneer	P63HE90	EX,HO,DMR	CA	67	109	66	39.5	31.3	17	3476	3281	2725	3003	3161
DuPont Pioneer	P64HE101	EX,HO,DMR	CA	70	111	64	38.6	31.9	19	--	3095	2679	2887	--
LCS	18-001HO	HO	Exp	72	109	65	41.4	30.2	19	--	--	2694	--	--
LCS	18-002HO	HO	Exp	66	109	66	38.8	30.1	15	--	--	2415	--	--
LCS	18-003HOCLP	CP,HO	Exp	69	108	60	36.7	27.4	16	--	--	2978	--	--
LCS	18-004HO	HO	Exp	68	105	64	37.7	27.5	16	--	--	1885	--	--
LCS	18-005LN	Tradition	Exp	71	109	67	40.0	31.6	15	--	--	2686	--	--
LCS	18-006HO	HO	Exp	69	110	63	39.0	30.1	16	--	--	2613	--	--
LCS	18-007LN	Trad.	Exp	68	109	67	37.5	29.5	16	--	--	3022	--	--
LCS	18-008HOCL	CL,HO	Exp	68	109	61	36.8	29.4	16	--	--	2453	--	--
LCS	18-010LNCLP	CP,Trad.	Exp	68	108	62	38.4	32.3	17	--	--	2662	--	--
LCS	18-012LNCLP	CP,Trad.	Exp	67	108	61	37.4	29.3	16	--	--	2751	--	--
Nuseed	Badger DMR	CL,NS,CON,DMR	CA	66	106	63	36.0	27.4	16	3799	3728	1942	2835	3156
Nuseed	Camaro II	CL,NS,DMR	CA	69	107	59	38.9	31.2	16	3068	3457	2504	2980	3010
Nuseed	Falcon	EX,NS	CA	69	109	58	41.0	32.8	18	3038	2888	2090	2489	2672
Nuseed	N4HE302	EX,HO	CA	66	106	60	40.5	27.6	17	--	--	2611	--	--
Nuseed	N4HM354	CL,NS,DMR	CA	64	106	58	40.2	31.7	16	3508	3066	2572	2819	3049
Nuseed	N4HP470	CP,HO,DMR	CA	69	110	62	42.4	31.4	19	--	--	2733	--	--
Nuseed	N5LM307	CL,NS,CON,DMR	CA	61	107	59	35.4	28.5	16	--	--	2380	--	--

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Brand	Hybrid	Hybrid Type ¹	Status ²	Days to Flower (DAP) ⁴	Days to PM (DAP) ⁴	Plant Height (inch)	Test Oil (%)	Harvest Weight (lb/bu)	Harvest Moist. (%)	Seed Yield				
										2016	2017	2018	2-yr Avg.	3-yr Avg.
NuTec	63C4 CL	CL,NS,DMR	CA	63	105	56	38.7	30.5	17	3191	3111	2414	2762	2905
NuTec	64H6	EX,HO,DMR	CA	66	106	64	38.9	29.3	14	--	--	3027	--	--
NuTec	68H7	EX,HO,DMR	CA	68	110	65	38.5	33.4	19	3439	2505	2154	2330	2700
NuTec	68M5	EX,NS,DMR	CA	68	111	65	38.1	32.1	17	--	--	2528	--	--
NuTec	69M2	EX,NS,DMR	CA	69	112	64	40.7	32.0	19	--	3512	3353	--	--
Proseed	E 12G25 CL	CL,NS	Exp	66	107	68	37.7	30.4	17	3487	3364	2781	3073	3211
Proseed	E 362436	NS,DMR	CA	67	107	65	37.0	31.5	17	--	2954	2843	2899	--
Proseed	E 50016 CL	CP,NS,DMR	CA	68	110	60	37.9	31.0	17	--	3425	2640	3033	--
Proseed	E-21 CL	CL,NS,DMR	CA	69	110	66	36.2	28.5	22	--	2488	2112	2300	--
Proseed	E-31 CL	CL,NS,DMR	CA	67	108	61	36.9	28.2	16	2665	2940	2424	2682	2677
Proseed	E-71 CL	CL,NS,DMR	CA	68	108	60	37.0	28.6	16	--	2859	2406	2632	--
Proseed	E-72	NS,DMR	CA	71	109	64	39.0	30.7	18	--	2841	2193	2517	--
Proseed	E-73	CL,NS,DMR	CA	68	106	60	36.5	26.4	16	--	3118	2011	2564	--
USDA ⁴	894	Trad.	CK	65	106	63	38.3	30.3	15	2263	2841	2607	2724	2570
USDA ⁵	Honeycomb NS	NS	CK	58	98	56	36.1	28.1	14	--	2085	2888	2487	--
Trial Mean				67	108	62	38.4	30.1	17	3114	3177	2578	--	--
C.V. %				1.9	1.5	3.8	3.1	3.0	6.7	10.2	9.9	15.2	--	--
LSD 5%				2.1	2.7	3.9	1.9	1.5	1.8	528	514	637	--	--
LSD 10%				1.8	2.3	3.2	1.6	1.2	1.5	441	430	533	--	--

¹Type: HO = High Oleic, NS = NuSun, Trad = Traditional(linoleic), CL = Clearfield, EX= ExpressSun, DMR = Downy Mildew Resistant

CON=ConOil

²Status: CA-Commercially available, Exp-Experimental, CK-Long term hybrid check

³Days after planting

⁴Long-term hybrid check ⁵Early maturing check

Maturity checks: Days to flower; Medium maturing check - 8N270CLDM- 61, late maturing check - 559CL- 65

Maturity Checks: Days to mature; Medium maturing check - 8N270CLDM- 106, Late maturing check - 559CL- 110

Oil and yield were adjusted to 10% moisture.

Planting Date: May 21

Harvest Date: October 16