

Sunflower Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2020

Variety	Brand / Company	Oil Type [‡]	Plant Height (in)	Days to Flower (DAP*)	Days to Maturity (DAP*)	Oil [†]		Test Weight (lb/bu)	Harvest Moisture (%)	Yield [‡]	
						2020 (%)	2-Yr Avg (%)			2020 (lb/a)	2-Yr Avg (lb/a)
N4H470 CL Plus	NuSeed	HO	70	70	116	44.3	43.0	32.3	9.7	3108.4	2969.3
N4H302 E	NuSeed	HO	63	69	116	41.1	39.6	29.8	8.6	3075.3	2794.0
Camaro II	NuSeed	NS	72	69	115	42.2	41.1	32.3	8.6	2833.6	2719.4
Falcon	NuSeed	NS	66	70	116	41.9	41.1	31.2	7.7	2320.1	2699.1
H45HO10EX	Dyna-Gro	HO	66	68	117	42.3	40.9	28.8	7.9	2853.3	2546.9
H44HO12CL	Dyna-Gro	HO	67	65	115	44.0	42.1	31.8	8.5	2922.7	2516.0
H42HO18CL	Dyna-Gro	HO	65	66	115	41.4	40.1	31.0	7.7	2729.6	2509.3
E-91 E	Proseed	HO	76	69	116	40.9	38.3	30.8	7.9	2689.8	2392.3
SF440	S&W Seed Company	HO	75	72	116	43.7	-	31.8	8.9	3188.6	-
E-50016	Proseed	HO	71	70	116	38.4	-	29.2	7.8	3010.1	-
SF110	S&W Seed Company	HO	70	67	116	41.7	-	31.7	7.5	2640.6	-
E-93 E	Proseed	NS	76	68	115	38.1	-	28.5	7.9	2611.9	-
12G25 CL	Proseed	HO	67	67	115	42.3	-	31.9	8.9	2386.8	-
MEAN			69.4	68.3	115.6	32.7	36.2	30.9	8.3	2797.7	2643.3
C.V. (%)			6.5	1.5	0.6	3.32	-	2.50	7.26	14.97	-
LSD (5%)			7.7	1.7	1.2	1.83	-	1.30	1.00	705.77	-
LSD (10%)			6.4	1.4	1.0	1.52	-	1.08	0.83	585.05	-

* Days after planting † 0: no lodging - 9: plants lying flat on the ground † Oil content adjusted to 10% moisture ‡ Yield adjusted to harvest moisture

‡ HO=high oleic, NS=NuSun

Location: Latitude 48 9.9222'N; Longitude 103 6.132'W

Soil test (0-6 in.): P=20 ppm; K=134 ppm; pH=7.7; OM=1.9%

(0-24 in.): NO3-N=29 lb/a

Yield goal: 2,5000 lb/a

Planting population: 22,000 seeds/a

Fertilizer applied: 270 lb/a of Urea (46-0-0) [5/28]

Herbicides applied: Prowl H2O (2pt/a) [5/29], Cornerstone (32oz/a), Class Act NG (1qt/100gal) [5/29],

Section 3 (5.33oz/a), Superb (1qt/100gal) [6/26]

Fungicides applied: none applied

Elevation: 1902 ft

Previous crop: Winter Wheat

Planted: 5/27/2020

Harvested: 11/5/2020

Soil type: Lihen Loamy Fine Sand

Plot size: 90 ft²

Rainfall: 5.0 inches [5/27-11/5]

Irrigation: 18.8 inches [5/27 -11/5]