

Sunflower Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2019

Variety	Company / Brand	Hybrid Type	Oil Type	Days to Flower (DAP*)	Plant Height (in)	Lodging (0 - 9+)	Oil† (%)	Test Weight (lb/bu)	Harvest Moisture (%)	Yield‡ (lb/a)
Falcon	Nuseed	Express	Nusun	75	46	0	40.3	32.3	12.4	3078
N4H470 CL Plus	Nuseed	Clearfield	High Oleic	76	45	0	41.8	28.2	15.2	2830
H49NS14CL	Dyna-Gro	Clearfield	Nusun	76	41	0	38.2	31.2	15.8	2674
Camaro II	Nuseed	Clearfield	Nusun	75	46	0	40.0	31.3	13.7	2605
N4H302 E	Nuseed	Express	High Oleic	73	51	0	38.2	26.2	12.6	2513
H48HO15CL	Dyna-Gro	Clearfield	High Oleic	76	46	0	43.0	29.0	15.1	2379
H45NS16CL	Dyna-Gro	Clearfield	Nusun	70	47	0	38.6	31.3	12.2	2365
H49HO19CL	Dyna-Gro	Clearfield	High Oleic	76	42	0	38.1	28.3	15.9	2358
H42HO18CL	Dyna-Gro	Clearfield	High Oleic	71	44	0	38.8	30.8	12.4	2289
H45HO10EX	Dyna-Gro	Express	High Oleic	73	49	0	39.5	28.5	12.7	2241
E-362436	Proseed	Conventional	Nusun	71	51	0	36.5	31.2	13.6	2154
H44HO12CL	Dyna-Gro	Clearfield	High Oleic	68	46	0	40.1	30.3	12.8	2109
E-91 E	Proseed	Express	Nusun	75	56	0	35.6	30.0	11.8	2095
E-31 CL	Proseed	Clearfield	Nusun	75	49	0	33.6	29.0	12.3	1954
N4HM354	Nuseed	Clearfield	Nusun	71	46	0	40.0	31.8	12.1	1870
E-92 E	Proseed	Express	Nusun	77	62	0	35.8	26.5	12.4	1755
MEAN				73.5	47.9	0.0	38.63	29.74	13.30	2329.3
C.V. (%)				1.1	10.0	0.0	4.35	5.33	6.17	19.5
LSD (5%)				1.2	6.8	ns	2.40	2.26	1.17	648.2
LSD (10%)				5.7	5.7	ns	2.00	1.88	0.97	540.5

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

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

Elevation: 1902 ft

Soil test (0-6 in.): P=20 ppm; K=191 ppm; pH=7.7 ; OM=2%

Previous crop: Soybean

(0-24 in.): NO₃-N=34 lb/a

Planted: 5/21/2019

Planting population: 26,000 seeds/a

Harvested: 11/26/2019

Applied fertilizer: 265 lb/a of Urea (46-0-0) [5/8]

Soil type: Lihen Loamy Fine Sand

Herbicides applied: Prowl H₂O 1.5 pt/a (5/23) and Section 3EC 5.33 oz/a (6/24)

Plot size: 260 ft²

Fungicides applied: none applied

Rainfall: 19.5 inches (5/21 - 11/26)