

Sunflower Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2022

Variety	Brand / Company	Oil Type [‡]	Hybrid Type	Harvested Population (Plants/A)	Days to Flower (DAP ⁺)	Oil [†]			Test Weight (lb/bu)	Yield		
						2022 (%)	2-Yr Avg (%)	3-Yr Avg (%)		2022 (lb/a)	2-Yr Avg (lb/a)	3-Yr Avg (lb/a)
N4H302 E	Nuseed	HO	Express	24651	67	45.2	39.2	39.6	32.3	3768	2971	3006
Falcon	Nuseed	NS	Express	23859	70	44.0	37.8	39.2	36.1	3423	3025	2790
H42HO18CL	Dynagro	HO	Clearfield	28314	67	45.6	38.7	39.7	35.5	2972	2619	2656
H45HO10EX	Dynagro	HO	Express	17523	75	43.9	39.3	40.4	33.2	2686	2526	2635
4425 CL	Sunrich	MO	Clearfield	25344	68	41.7	35.9	-	32.6	3640	3410	-
4415 HO/DM/CLP	Sunrich	HO	Clearfield Plus	26334	68	42.4	37.4	-	32.6	3662	3126	-
N4H470 CLP	Nuseed	HO	Clearfield Plus	27027	71	49.2	42.1	-	32.9	3287	3211	-
H47HO11EX	Dynagro	HO	Express	19107	70	42.5	36.2	-	35.9	3011	2739	-
N4H422 CL	Nuseed	HO	Clearfield	26796	69	46.7	-	-	34.0	4427	-	-
H49HO19CL	Dynagro	HO	Clearfield	23958	71	46.2	-	-	34.2	3898	-	-
H50HO20CP	Dynagro	HO	Clearfield Plus	26730	32	47.2	-	-	33.8	3319	-	-
SS91 (conf.)	Sunrich	Confectionary	Conventional	19899	68	28.1	-	-	27.8	3218	-	-
SS90 (conf.)	Sunrich	Confectionary	Conventional	19800	64	31.3	-	-	27.1	2853	-	-
MEAN				23795.5	66.2	42.62	38.33	39.73	32.93	3397.2	2953.3	2771.6
C.V. (%)				12.0	-	5.01	-	-	7.22	12.4	-	-
LSD (5%)				4781.2	-	3.59	-	-	4.01	709.5	-	-
LSD (10%)				3963.4	-	2.98	-	-	3.33	588.1	-	-

‡ HO=high oleic, NS=NuSun, MO=mid oleic + Days after Planting † Oil content adjusted to 10% moisture

Location: Latitude 48 9.9222°N; Longitude 103 6.132°W
 Soil Test (0-6 in.): P=20 ppm; K=170 ppm; pH=7.6; OM=2.0%
 (0-24 in.): NO3-N=62 lb/a
 Yield goal: 2,500 lb/a
 Planting population: 26,500 seeds/a (30" row spacing)
 Applied fertilizer: 195 lb/a of Urea (46-0-0)
 Herbicides applied: Prowl (2pt/a) [6/3]
 Fungicides applied: Priaxor (8oz/a) [7/21]

Elevation: 1902 ft
 Previous crop: Dry Bean
 Planted: 6/1/2022
 Harvested: 11/3/2022
 Soil type: Lihen Loamy Fine Sand
 Plot size: 220 ft²
 Rainfall: 15.5 inches (4/1 - 11/3)
 Irrigation: 18.0 inches (5/24 - 11/3)