

Safflower Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2020

Variety	Days to Flower (DAP*)	Oil [†]			Test Weight (lb/bu)	Yield		
		2020 (%)	2-Yr Avg (%)	3-Yr Avg (%)		2020 (lb/a)	2-Yr Avg (lb/a)	3-Yr Avg (lb/a)
Hybrid 446	75	33.4	35.9	33.5	41.7	2012	1818	1706
Hybrid 300	76	35.5	37.6	34.6	41.2	1684	1777	1638
Hybrid 200	76	33.2	35.9	33.6	40.0	1703	1615	1593
MonDak	76	37.1	39.2	36.3	39.9	1723	1593	1499
Montola 2003	77	39.7	40.9	38.4	39.3	1220	1204	1369
Chickadee	76	38.4	40.3	38.1	40.3	1347	1349	1330
Hybrid 1601	77	41.8	42.3	38.6	35.2	1262	1183	1323
Rubis Red	75	36.4	37.0	33.4	43.9	1717	1425	1306
Cardinal	77	41.9	41.4	38.2	42.3	1354	1323	1291
STI 1201	75	43.1	43.4	42.1	36.1	1388	1286	1187
Hybrid 621	77	43.8	43.2	42.3	31.2	1079	1033	1060
Finch	75	41.3	40.8	38.1	40.9	1343	1165	1011
Morlin	77	43.3	40.7	39.1	38.6	1287	1115	993
STI 1401	77	46.9	46.7	45.8	33.7	1097	970	859
NutraSaff	76	50.3	47.7	46.4	37.0	1158	965	752
Montola 2000	76	39.2	40.8	-	37.6	1265	1330	-
Montola 2001	77	38.3	36.6	-	33.7	1133	1069	-
MEAN	76.2	35.59	38.31	36.98	38.38	1398.4	1307.0	1261.1
C.V. (%)	1.2	1.71	-	-	2.34	13.2	-	-
LSD (5%)	1.5	1.15	-	-	1.50	305.9	-	-
LSD (10%)	1.3	0.95	-	-	1.24	254.4	-	-

* Days after planting † Oil content reported on oven dried basis

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

Elevation: 1902 ft

Soil test (0-6 in.): P=24 ppm; K=158 ppm; pH=7.9; OM=2.9 %

Previous crop: Durum

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

Planted: 5/14/2020

Yield goal: 2,000 lb/a

Harvested: 9/18/2020

Planting population: Conventional 20lb/a PLS, Hybrid 18 lb/a PLS

Soil type: Lihen Loamy Fine Sand

Fertilizer applied: 160 lb/a of Urea (46-0-0) [5/19]

Plot size: 40 ft²

Herbicides applied: Prowl H2O (1.5 pt/a) [5/19], Section 3 (5.33 oz/A), Superb (1 qt/A) [6/16]

Rainfall: 5.1 inches [5/14 - 9/18]

Fungicide applied: Priaxor (8oz/A) [7/21] & [8/3]

Irrigation: 8.0 in [5/14 - 9/18]