

Irrigated Safflower Variety Trial - NDSU

WREC, Nesson Valley, ND 2017

Variety	Plant Height (in)	Days to Flower (DAP [†])	Oil [†] (%)	Test Weight (lb/bu)	Yield		
					2017 (lb/a)	2-Yr Avg (lb/a)	3-Yr Avg (lb/a)
MonDak	27	72	32.8	43.2	2689	2238	2018
Hybrid 1601	30	71	32.1	39.3	2672	2449	2364
Montola 2003	25	72	34.2	42.4	2628	2038	1785
Rubis Red	27	69	28.3	47.0	2622	1918	-
Hybrid 446	27	70	27.5	44.5	2552	2132	1953
Hybrid 200	27	72	27.1	40.6	2379	1791	1729
Cardinal	29	73	32.0	44.7	2368	1865	1654
Baldy	26	69	25.2	45.9	2223	1608	-
Montola 2001	26	73	29.7	36.2	2195	1773	-
Hybrid 300	25	71	27.5	43.6	2156	-	-
STI 1201	24	72	39.1	37.4	2128	1649	1583
Finch	30	74	32.4	41.5	2041	1742	1669
Montola 2004	23	71	32.4	40.9	1985	1451	-
Hybrid 9049	26	70	27.3	42.1	1974	1735	1670
Morlin	26	73	32.9	38.0	1974	1594	-
Montola 2000	23	71	31.0	38.4	1971	1759	-
NutraSaff	28	72	44.8	36.3	1561	1379	1242
STI 1401	27	73	42.8	33.0	1508	1388	-
Mean	26.4	71.6	32.29	41.05	2222.8	1794.8	1766.6
C.V. (%)	7.8	3.0	3.47	4.54	13.4	-	-
LSD (5%)	3.4	3.6	1.85	3.09	493.9	-	-
LSD (10%)	2.8	3.0	1.54	2.57	411.2	-	-

Location: Latitude 48 9.9222'N; Longitude 103 6.132'W; Elevation 1902 ft

Previous crop: Durum

Planted: 5-8-2017

Harvested: 9-8-2017

Plot size: 50 ft²

Soil type: Lihen Loamy Fine Sand

Soil test to (0-6"): P=16 ppm; K=195 ppm; pH=7.6; OM=2.2%
(0-24"): NO3-N=52 lb/a

Applied fertilizer in lb/a broadcast: 100 lbs of Urea (46-0-0)

Yield goal: 2,000 lb/a

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

Herbicides applied: Prowl H2O 3.5pt/a (5/15/2017), Section 2EC 8oz/a + Trophy Gold 2qt/100gal H2O (6/26/2017),
Gramoxone 2pt/a + Class Act 2pt/100gal H2O (8/30/2017)

Fungicides applied: Priaxor 8oz/a (7/20/2017), Endura 11oz/a (8/7/2017)

Rainfall: 6.57 in. (5/8/2017 - 9/8/2017)

Irrigation: 9.8 in. (5/8/2017 - 9/8/2017)

Irrigation dates and amounts (inches): 1.0 (5/17), 0.8 (5/24), 0.6 (6/7), 1.0 (6/15), 1.0 (6/21),
0.8 (6/26), 0.8 (6/30), 0.8 (7/5), 1.2 (7/25), 1.2 (7/31), and 0.8 (8/3)[†]Days after planting[†]Oil adjusted to an oven dry basis