

Safflower Irrigated Variety Trial - NDSU
WREC, Nesson Valley, ND 2021

Variety	Stand (%)	Days to Flower (DAP*)	Days to Maturity (DAP*)	Plant Height (in)	Oil†			Test Weight (lb/bu)	Yield		
					2021 (%)	2-Yr Avg (%)	3-Yr Avg (%)		2021‡ (lb/a)	2-Yr Avg (lb/a)	3-Yr Avg (lb/a)
Hybrid 446	67	73	118	21	29.1	31.2	33.6	41.9	2332	2172	1989
MonDak	78	75	116	19	33.2	35.2	37.2	39.3	2704	2213	1963
Hybrid 200	55	73	116	20	31.1	32.1	34.3	40.0	2506	2105	1912
Cardinal	88	75	115	22	34.1	38.0	39.0	40.9	2738	2046	1795
Chickadee	76	74	118	20	36.9	37.6	39.2	41.0	2502	1924	1733
Montola 2003	72	76	117	19	35.9	37.8	39.2	40.8	2601	1911	1670
Montola 2000	62	73	117	18	36.1	37.7	39.3	37.7	2229	1747	1630
Rubis Red	54	73	117	21	29.3	32.8	34.4	43.8	1829	1773	1559
Finch	87	72	116	20	35.1	38.2	38.9	39.7	2278	1811	1536
STI1201	44	75	116	19	40.6	41.8	42.5	36.6	1697	1543	1423
Montola 2001	53	75	120	20	36.4	37.3	36.5	33.4	1741	1437	1293
Nutrasaff	61	74	118	21	47.1	48.7	47.5	38.0	1916	1537	1282
STI1401	51	77	120	20	45.5	46.2	46.3	36.0	1719	1408	1220
MEAN	65.3	74.4	117.2	20.0	36.18	38.05	39.07	39.16	2214.9	1817.5	1615.8
C.V. (%)	22.2	2.6	1.3	7.2	3.21	-	-	2.04	16.6	-	-
LSD (5%)	22.6	3.2	2.6	2.3	2.01	-	-	1.30	535.7	-	-
LSD (10%)	18.8	2.6	2.2	2.0	1.68	-	-	1.09	446.2	-	-

+ Days after planting * 0: no lodging - 9: plants lying flat on the ground † Oil content reported on oven dried basis ‡ Hail storm on July 22, 2021

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

Elevation: 1902 ft

Soil test (0-6 in.): P=30 ppm; K=130 ppm; pH=7.5; OM=1.9 %

Previous crop: Barley

(0-24 in.): NO3-N=47 lb/a

Planted: 5/7/2021

Yield goal: 2,000 lb/a

Harvested: 9/23/2021

Planting population: 278,000 seeds/a

Soil type: Lihen Loamy Fine Sand

Applied fertilizer: 99 lb/a of Urea (46-0-0) [4/29]

Plot size: 55 ft²

Herbicides applied: Prowl H2O (2pt/a) [5/10] and Section 3 (5.33oz/a) and Superb (1pt/100gal) [6/17]

Rainfall: 7.9 inches (5/7 - 9/23)

Fungicides applied: Priaxor D (8oz/a) [7/28]

Irrigation: 12.9 inches (5/7 - 7/25)