

**North Dakota State University
Williston Research Extension Center**

Safflower Irrigated Variety Trial

MSU-EARC, Sidney, MT, 2022

Variety	Days to Flower	Plant Height	Oil	Test Weight	Yield	
					2022	2-year Average [§]
	(DAP)*	(in)	(%)	(lb/bu)	(lb/ac)	(lb/ac)
Cardinal	70	28.9	37.9	40.1	2373.7	2692
Chickadee	71	25.9	40.3	37.5	2417.5	3297
Hybrid 1601	71	28.9	40.4	33.8	2664.0	-
Hybrid 200	70	26.6	32.0	38.3	2419.1	3414
Hybrid 446	70	25.7	31.6	39.9	2360.2	3393
MonDak	71	26.4	35.9	36.3	2205.1	3463
Montola 2003	71	23.5	37.2	36.6	2250.7	3180
Morlin	71	25.7	40.3	35.9	1971.0	-
NutraSaff	70	27.7	50.4	35.5	2111.5	2765
Rubis Red	69	27.6	30.6	39.3	1962.2	2726
STI 1201	70	23.8	43.4	34.3	2063.8	2928
STI 1401	71	28.0	49.2	34.9	2479.1	2906
STI 2020	71	28.3	40.3	35.8	2403.5	-
Mean	71	26.5	39.3	36.0	2035.2	-
CV %	0.7	5.2	2.1	2.4	11.3	-
LSD (10%)	0.7	1.9	1.1	1.2	317.4	-
LSD (5%)	0.9	2.3	1.3	1.4	381.5	-

Location: Sidney, MT.

Previous Crop: Sugarbeet.

Planted: 05/17/2022.

Harvested: 10/10/2022.

Available Soil: N=19 lb/ac; P₂O₅ = 16.8 ppm.

Applied fertilizers: N=80 lb/ac; P₂O₅=30/ac.

Applied herbicides: Sonalan HFP 32 oz/ac on 5/18/2022; Priaxor 4.8 oz/ac on 07/25/2022.

Irrigation: 4.93 in. Precipitation = 15.26 in.

Note: Moderate to severe grasshopper damage affected the yield, test weight and oil contents.

*DAP=Days after planting. [§]Average of 2020 and 2021.