

Flax Irrigated Variety Trial - NDSU

WREC, Nesson Valley, ND 2019

Variety	Days to Flower (DAP*)	Days to Maturity (DAP*)	Lodging (0 - 9+)	Plant Height (in)	Oil†			Test Weight (lb/bu)	Yield		
					2019 (%)	2-Yr Avg (%)	3-Yr Avg (%)		2019 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
Bison	60	94	1	29	38.2	38.2	39.0	52.6	38.7	30.2	33.1
CDC Sanctuary	59	94	0	28	38.6	38.1	38.7	51.9	36.6	29.8	32.4
York	59	95	0	26	39.0	38.4	38.9	52.4	32.8	27.9	30.8
Gold ND	59	97	0	28	40.3	39.2	39.6	53.3	31.2	26.7	30.6
CDC Sorrel	58	95	0	29	38.6	38.7	39.1	52.5	33.9	27.6	29.6
CDC Glas	58	94	0	25	39.9	39.2	39.7	51.8	21.2	22.5	27.5
ND Hammond	58	94	0	28	38.5	38.0	-	52.5	35.2	29.2	-
Prairie Thunder	60	95	0	31	37.4	37.3	-	52.7	38.0	28.8	-
CDC Melyn	58	92	0	26	39.0	39.5	-	53.3	25.2	28.5	-
Pembina	59	95	1	28	38.6	38.5	-	52.7	29.9	26.5	-
Rahab 94	60	94	0	28	38.7	38.3	-	52.1	29.6	26.2	-
CDC Bethume	58	96	0	28	38.7	-	-	52.7	29.2	-	-
MEAN	58.7	94.3	0.2	27.8	38.80	38.49	39.18	52.51	32.02	27.63	30.67
C.V. (%)	2.2	2.6	214.8	6.9	1.77	-	-	1.42	19.26	-	-
LSD (5%)	1.9	3.5	ns	2.8	0.99	-	-	1.08	8.81	-	-
LSD (10%)	1.5	2.9	0.5	2.3	0.82	-	-	0.89	7.33	-	-

* Days after planting † 0: no lodging - 9: plants lying flat on the ground † Oil content adjusted to 9% moisture

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

Elevation: 1902 ft

Soil test (0-6 in.): P=13 ppm; K=313 ppm; pH=7.6 ; OM=3.1%

Previous crop: Corn

(0-24 in.): NO3-N=15 lb/a

Planted: 5/6/2019

Yield goal: 50 bu/a

Harvested: 8/30/2019

Planting population: 1 million seeds/a

Soil type: Lihen Loamy Fine Sand

Applied fertilizer: 141 lb/a of Urea (46-0-0)

Plot size: 61 ft²

Herbicides applied: Spartan Charge 2 oz/a and Preference 7 oz/a (5/10),

Rainfall: 9.4 in. (5/6 - 8/30)

Section 3EC 5.33 oz/a, 28-0-0 2 at/a, Destiny HC 1.5 pt/a (6/24), Gramaxone SL 2.0 2 pt/a and Destiny HC 2 qt/100 gal (8/28)

Fungicides applied: Priaxor D 8 oz/a (7/12)