

NORTH DAKOTA STATE UNIVERSITY  
Williston Research Extension Center

Flax Irrigated Variety Trial

WREC, Nesson Valley, ND 2017

Variety	Origin	Year of release	Seed type	Days to flower (DAP <sup>+</sup> )	Days to mature (DAP <sup>+</sup> )	Plant height (in)	Oil <sup>†</sup> (%)	Test weight (lb/bu)	Yield		
									2017 (bu/a)	2-Yr Avg (bu/a)	3-Yr Avg (bu/a)
CDC Glas	Canada	2012	Brown	61	93	26	40.6	53.3	37.6	47.2	47.7
Prarie Blue	Canada	2003	Brown	60	92	26	40.1	53.4	36.7	43.5	42.2
Carter	NDSU	2004	Yellow	57	95	25	39.5	53.2	32.2	39.1	36.9
Bison	NDSU	1926	Brown	58	94	26	40.5	54.3	38.9	45.2	-
Gold ND	NDSU	2014	Yellow	61	96	28	40.6	54.0	38.4	42.4	-
York	NDSU	2002	Brown	56	92	26	40.1	53.1	36.6	41.6	-
CDC Sorrel	Canada	2007	Brown	62	90	27	40.0	53.5	33.7	41.4	-
CDC Sanctuary	Canada	2012	Brown	58	90	27	40.0	53.3	37.7	37.5	-
CDC Melyn	Canada	2016	Yellow	62	89	25	40.1	53.6	31.8	-	-
Mean				59.6	92.4	26.1	40.16	53.53	35.95	42.21	42.28
C.V.(%)				-	-	-	1.02	0.95	12.33	-	-
LSD (5%)				-	-	-	0.71	0.88	7.67	-	-
LSD (10%)				-	-	-	0.58	0.73	6.32	-	-

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

Previous crop: Durum

Planted: 5-2-2017

Harvested: 9-7-2017

Plot size: 48.75 ft<sup>2</sup>

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"): NO<sub>3</sub>-N=52 lb/a

Applied fertilizer in lb/a broadcast: 190 lbs of urea (46-0-0)

Yield goal = 50 bu/a

Planting population = 30 lbs/a

Herbicides applied: Spartan Charge 7.5oz/a (5/4/2017), Section 2EC 8oz/a + Trophy Gold 2qt/100gal H<sub>2</sub>O (6/26/2017)

Fungicides applied: Priaxor 8oz/a (6/28/2017)

Rainfall: 6.64 in. (5/2/2017 - 9/7/2017)

Irrigation: 15.4 in. (5/2/2017 - 9/7/2017)

<sup>+</sup>Days after planting

<sup>†</sup>Oil content adjusted to a 9% moisture