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North Dakota Flax

Variety Trial Results for 2020 and Selection Guide

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This selection guide summarizes flax variety performance at the various North Dakota State University Research Extension Centers. Give special attention to flax yield results of those trials nearest to your production area when evaluating varieties in these trials. Also, attempt to view yield averages of several years rather than using only one year's data as a determining factor. In addition, consider other agronomic characteristics, such as maturity, disease tolerance, lodging score and oil percentages, if available.

The agronomic data presented are from replicated research plots using experimental designs that enable the use of statistical analysis. The LSD (least significant difference) numbers beneath the columns in tables are derived from the statistical analyses and only apply to the numbers in the column in which they appear.

If the difference between two varieties exceeds the LSD value, it means that with 95% or 90% probability (LSD 0.05 or 0.10), the higher-yielding variety has a significant yield advantage. If the difference between two varieties is less than the LSD value, then the variety yields are considered similar. The abbreviation NS is used to indicate "no significant difference" for that trait among any of the varieties.

The CV is a measure of variability in the trial. The CV stands for coefficient of variation and is expressed as a percentage. In the tables, the mean indicates the average of the observations in the column. Only compare values within the table and look for trends for the desired trait among different experimental sites and years.

Oil content and harvested seed yield were adjusted to 9% moisture. The oil content data are not intended to be compared between locations. In the table headings (Tables 4 to 11), the lead scientists are acknowledged. Presentation of data for the varieties tested does not imply approval or endorsement by the authors or agencies conducting the tests. NDSU approves the reproduction of any table in this publication only if no portion is deleted, appropriate footnotes are given, the order of the data is not rearranged and NDSU is credited for the data. Research specialists and technicians helped with the field work and data compilation.

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Table 1. Selected Flax Variety Descriptions Tested in 2020 in North Dakota.

Variety ¹	Origin ²	Year Released	Days to Flower Avg. ³	Seed Color	Plant Height	Plant Height		Fusarium Wilt ⁴
						inch Avg. ³		
AAC Bright	Can.	2017	46	Yellow	Tall	24		MS/S ⁵
Aquarius	Pulse USA ⁶	--	41	Brown	Med.short	17		MR
Bison	ND	1926	47	Brown	Med.tall	22		MR
Carter	ND	2004	47	Yellow	Med.tall	19		MS/S ⁵
CDC Buryu	Can.	2016	47	Brown	Med.tall	22		MR
CDC Dorado	Can.	2017	42	Yellow	Med.tall	19		MS ⁵
CDC Glas	Can.	2012	49	Brown	Tall	23		MS ⁵
CDC Neela	Can.	2013	47	Brown	Med.tall	20		MR
CDC Plava	Can.	2015	46	Brown	Med.tall	20		MR
CDC Rowland	Can.	2018	46	Brown	Med.tall	22		MR
Gold ND	ND	2014	48	Yellow	Med.tall	22		MR/R
Lion	Pulse USA ⁶	--	44	Brown	Med.short	17		MR
ND Hammond	ND	2018	46	Brown	Med.	19		MS
Omega	ND	1989	47	Yellow	Med.	18		MS ⁵
Prairie Thunder	Can.	2006	48	Brown	Med.tall	22		MR
Webster	SD	1998	48	Brown	Med.tall	21		MR
York	ND	2002	45	Brown	Med.tall	21		MR/R

¹All varieties have resistance to prevalent races of rust; all have good oil yield and oil quality.

²Can. = Canada; ND = North Dakota State University; SD = South Dakota State University.

³Based on Carrington in 2020.

⁴R = resistant; MR = moderately resistant; MS = moderately susceptible; S = susceptible.

⁵This variety had fusarium wilt within the 2020 CREC flax variety trial, and rating has been adjusted to a lower rating.

⁶Company entering variety into the trial at Carrington.

Table 2. Yield of Flax Varieties at Six Locations in North Dakota, 2018-2020.

Variety	Carrington		Dickinson		Hettinger		Langdon		Minot		Williston dryland		Average N.D.	
	2020	3 Yr. Avg.	2020	2020	3 Yr. Avg.	2020	3 Yr. Avg.	2020						
----(bu/a)----														
AAC Bright ¹	25.1	--	20.1	12.5	--	51.4	--	22.9	--	14.9	--	24.5	--	
Bison	18.4	26.1	22.1	14.9	18.4	40.6	40.2	22.5	22.1	17.8	15.3	22.7	24.4	
Carter ¹	19.9	27.0	20.0	14.1	18.9	43.4	41.1	22.5	21.2	14.2	14.7	22.3	24.6	
CDC Buryu	17.9	--	22.9	13.1	--	39.7	--	18.3	--	17.3	22.1	21.5	--	
CDC Dorado ¹	16.2	--	17.9	13.9	--	37.6	--	26.0	--	18.2	--	21.6	--	
CDC Glas	21.3	--	19.7	15.0	20.1	49.6	44.7	23.4	24.3	16.3	17.6	24.2	--	
CDC Neela	22.8	30.0	22.7	16.1	20.9	43.4	41.4	25.1	26.4	14.6	15.9	24.1	26.9	
CDC Plava	22.0	--	18.4	16.2	--	38.7	--	22.3	--	19.9	--	22.9	--	
Gold ND ¹	19.2	24.5	19.1	13.9	18.4	47.7	44.0	23.8	21.7	12.7	14.3	22.7	24.6	
ND Hammond	19.1	27.7	19.2	13.2	--	39.5	39.0	23.6	21.2	16.2	14.6	21.8	--	
Omega ¹	12.7	20.6	19.0	16.3	18.2	40.2	39.1	20.2	20.3	15.0	19.2	20.6	23.5	
Prairie Thunder	19.0	26.3	22.8	17.9	21.3	43.7	43.1	21.6	21.7	18.5	16.3	23.9	25.7	
Webster	22.6	27.5	22.2	14.8	19.6	45.5	43.9	20.0	20.6	18.7	15.1	24.0	25.3	
York	19.7	27.8	20.6	17.2	20.2	47.9	44.3	19.1	19.3	17.0	17.1	23.6	25.7	
Mean	19.7	26.4	20.5	14.9	19.6	43.5	42.1	22.2	21.9	16.5	16.6	22.9	25.1	
CV %	18.7	--	10.9	11.3	--	5.2	--	14.0	--	19.0	--	11.5	7.5	
LSD 0.05	5.9	--	3.7	2.4	--	3.9	--	NS	--	1.4	--	3.0	2.5	
LSD 0.10	5.0	--	3.1	2.0	--	3.3	--	NS	--	1.2	--	2.5	2.0	

¹Yellow seeded.**Table 3. Test Weight and Oil Content of Flax Varieties at Six Locations in North Dakota, 2020.**

Variety	Carrington		Dickinson		Hettinger		Langdon		Minot		Williston dryland		Average N.D. ²	
	Test Wt.	Oil	Test Wt.	Oil	Oil	Test Wt.	Test Wt.	Oil	Test Wt.	Oil	Test Wt.	Oil	Test Wt.	Oil
(lb/bu) (%)														
AAC Bright ¹	48.4	41.7	52.1	46.6	46.4	51.1	53.4	43.6	50.7	46.2	51.1	44.9		
Bison	51.8	39.7	53.6	43.5	43.8	53.3	54.0	44.0	52.7	43.7	53.1	42.9		
Carter ¹	52.2	40.1	53.4	44.0	43.2	53.1	53.9	44.1	52.3	43.5	53.0	43.0		
CDC Buryu	50.1	38.7	53.1	44.0	43.1	53.1	52.5	45.7	52.9	43.8	52.3	43.1		
CDC Dorado ¹	49.9	40.7	53.1	44.6	44.6	52.8	53.4	44.2	52.3	44.0	52.3	43.6		
CDC Glas	49.3	41.0	52.2	44.2	44.5	52.0	53.4	42.8	51.9	44.6	51.8	43.4		
CDC Neela	51.2	40.7	53.1	44.6	43.4	53.0	53.9	45.2	51.7	44.2	52.6	43.6		
CDC Plava	51.1	41.4	52.8	44.2	44.8	52.1	53.6	42.3	53.0	44.5	52.5	43.4		
Gold ND ¹	52.0	41.0	53.3	45.2	44.1	53.4	52.4	43.8	52.4	44.4	52.7	43.7		
ND Hammond	51.4	39.1	53.0	42.3	41.0	52.9	53.3	43.1	52.5	42.5	52.6	41.6		
Omega ¹	49.3	38.9	53.7	43.8	42.7	53.2	53.7	44.4	53.0	43.2	52.6	42.6		
Prairie Thunder	50.8	39.0	53.5	43.6	43.9	53.2	53.2	44.6	53.2	43.1	52.8	42.8		
Webster	52.2	40.4	53.2	44.6	44.2	53.7	53.3	44.4	52.8	44.4	53.0	43.6		
York	52.0	40.0	53.2	43.9	43.7	53.4	53.7	46.9	53.0	43.6	53.0	43.6		
Mean	50.8	40.2	53.1	44.2	43.8	52.9	53.4	44.2	52.4	44.0	52.5	43.3		
CV %	2.4	1.6	0.8	0.9	1.0	0.5	2.2	1.4	1.0	0.7	1.2	1.9		
LSD 0.05	1.7	0.9	0.7	0.6	0.6	0.4	NS	1.0	0.2	0.1	0.8	1.1		
LSD 0.10	1.4	0.7	0.6	0.5	0.5	0.4	NS	0.8	0.2	0.1	0.6	0.9		

¹Yellow seeded.²Test weight average of five dryland trials and oil average of five dryland trials.

Table 4. 2020 Flax - Carrington - Authors, M. Ostlie and B. Schatz.

Variety	Days to	Days to	Plant	Oil Content (%)	Test Weight (lb/bu)	Seed Yield		
	Flower (DAP) ¹	Maturity (DAP) ¹	Height (inch)			2020	2-yr. Avg.	3-yr. Avg.
AAC Bright ²	46	73	24	41.7	48.4	25.1	28.6	--
Aquarius	41	71	17	41.8	48.6	23.4	--	--
Bison	47	77	22	39.7	51.8	18.4	22.8	26.1
Carter ²	47	77	19	40.1	52.2	19.9	26.3	27.0
CDC Buryu	47	73	22	38.7	50.1	17.9	19.1	--
CDC Dorado ²	42	71	19	40.7	49.9	16.2	--	--
CDC Glas	49	75	23	41.0	49.3	21.3	28.2	--
CDC Neela	47	75	20	40.7	51.2	22.8	27.2	30.0
CDC Plava	46	75	20	41.4	51.1	22.0	22.8	--
CDC Rowland	46	77	22	40.4	51.7	26.5	--	--
Gold ND ²	48	79	22	41.0	52.0	19.2	20.2	24.5
Lion	44	78	17	42.1	52.1	29.7	--	--
ND Hammond	46	75	19	39.1	51.4	19.1	23.8	27.7
Omega ²	47	72	18	38.9	49.3	12.7	15.9	20.6
Prairie Thunder	48	80	22	39.0	50.8	19.0	21.7	26.3
Webster	48	78	21	40.4	52.2	22.6	22.6	27.5
York	45	76	21	40.0	52.0	19.7	24.6	27.8
Mean	46	75	20	40.4	50.8	20.9	23.4	26.4
CV %	2.0	2.6	10.6	1.6	2.4	18.7	--	--
LSD 0.05	1.3	2.8	3.1	0.9	1.7	5.9	--	--
LSD 0.10	1.1	2.3	2.6	0.7	1.4	5.0	--	--

Planted: May 15. Harvested: Sept. 1. Previous crop: barley.

¹DAP = Days after planting.

²Yellow seeded.

Table 5. 2020 Flax - Organic - Carrington - Authors, S. Zwinger and S. Schaubert.

Variety	Days to	Days to	Plant	Test Weight (lb/bu)	Seed Yield		
	Flower (DAP) ¹	Maturity (DAP) ¹	Height (inch)		2020	2-yr. Avg.	3-yr. Avg.
CDC Melyn	47	86	25	50.6	8.3	7.1	10.0
CDC Neela	43	79	22	51.0	10.2	7.6	11.6
Gold ND ²	45	83	26	51.3	9.9	8.4	12.0
ND Hammond	43	80	23	50.3	10.0	8.1	10.7
Omega ²	40	76	21	51.8	9.5	8.1	10.0
Pembina	44	82	26	50.6	8.2	6.6	9.6
Prairie Thunder	41	78	20	51.0	6.3	5.6	9.1
York	43	83	21	51.9	12.1	10.5	13.5
Mean	43	81	23	51.1	9.3	7.8	10.8
CV %	0.9	0.9	3.6	1.0	9.3	9.6	11.7
LSD 0.05	0.6	1.1	1.2	0.7	1.3	1.8	2.2
LSD 0.10	0.5	0.9	1.0	0.6	1.1	1.4	1.8

Planted: May 18. Harvested: Aug. 20. Previous crop: oat.

¹DAP = Days after planting.

²Yellow seeded.

Table 6. 2020 Flax - Dickinson - Author, G. Martin.

Variety	Days to	Days to	Plant	Oil Content (%)	Test Weight (lb/bu)	Seed Yield		
	Flower (DAP) ¹	Mature (DAP) ¹	Height (inch)			2019	2020	2-yr. Avg.
AAC Bright ²	56	103	14	46.6	52.1	13.6	20.1	16.9
Bison	55	102	16	43.5	53.6	16.2	22.1	19.2
Carter ²	55	104	16	44.0	53.4	14.7	20.0	17.3
CDC Buryu	57	103	15	44.0	53.1	15.4	22.9	19.2
CDC Dorado	50	104	14	44.6	53.1	--	17.9	--
CDC Glas	57	103	15	44.2	52.2	13.3	19.7	16.5
CDC Neela	55	103	15	44.6	53.1	13.9	22.7	18.3
CDC Plava	56	102	14	44.2	52.8	9.9	18.4	14.2
Gold ND ²	57	105	16	45.2	53.3	14.1	19.1	16.6
ND Hammond	56	105	17	42.3	53.0	11.0	19.2	15.1
Omega ²	57	104	15	43.8	53.7	13.3	19.0	16.2
Prairie Thunder	56	105	18	43.6	53.5	15.9	22.8	19.4
Webster	55	105	17	44.6	53.2	13.9	22.2	18.1
York	55	103	15	43.9	53.2	18.4	20.6	19.5
Mean	55	104	16	44.2	53.1	14.1	20.5	17.4
CV %	1.1	1.3	7.1	0.9	0.8	15.0	10.9	7.4
LSD 0.05	1.0	2.1	1.8	0.6	0.7	3.6	3.7	2.8
LSD 0.10	0.8	1.8	1.5	0.5	0.6	3.0	3.1	2.3

Planted: April 30. Harvested: Sept. 3. Previous crop: oat.

¹DAP = Days after planting.²Yellow seeded.**Table 7. 2020 Flax - Langdon - Authors, B. Hanson and L. Henry.**

Variety	Days to	Plant	Test	Seed Yield				
	Flower (DAP) ¹	Height (inch)	Weight (lb/bu)	2018	2019	2020	2-yr. Avg.	3-yr. Avg.
AAC Bright ²	49	25	51.1	--	38.0	51.4	44.7	--
Bison	46	26	53.3	40.0	40.1	40.6	40.4	40.2
Carter ²	47	25	53.1	37.6	42.3	43.4	42.9	41.1
CDC Buryu	48	26	53.1	--	41.6	39.7	40.7	--
CDC Dorado ²	43	23	52.8	--	--	37.6	--	--
CDC Glas	51	25	52.0	43.0	41.6	49.6	45.6	44.7
CDC Neela	50	24	53.0	37.6	43.2	43.4	43.3	41.4
CDC Plava	46	26	52.1	--	39.7	38.7	39.2	--
Gold ND ²	49	23	53.4	43	41.2	47.7	44.5	44.0
ND Hammond	46	23	52.9	39.2	38.4	39.5	39.0	39.0
Omega ²	45	20	53.2	38.5	38.5	40.2	39.4	39.1
Prairie Thunder	50	28	53.2	43.1	42.6	43.7	43.2	43.1
Webster	50	26	53.7	44.2	42.0	45.5	43.8	43.9
York	47	25	53.4	41.7	43.2	47.9	45.6	44.3
Mean	48	25	53.1	42.2	40.8	45.4	42.5	42.1
CV %	1.8	6.9	0.5	7.9	5.8	5.2	7.1	4.5
LSD 0.05	1.4	2.8	0.4	NS	3.9	3.9	6.5	3.3
LSD 0.10	1.2	2.4	0.4	NS	3.2	3.3	5.3	2.7

Planted: May 20. Harvested: Sept. 22.

¹DAP = Days after planting.²Yellow seeded.

Table 8. 2020 Flax - Dryland - Williston - Authors, M. Miller, C. Wahlstrom, J. Bergman and G. Pradhan.

Cultivar	Days to	Days to	Plant	Test	Oil Content (%)	Seed Yield		
	Flower	Maturity	Height (inch)	Weight (lb/bu)		2020 (bu/a)	2-yr. Avg. (bu/a)	3-yr. Avg. (bu/a)
AAC Bright ²	51	94	20	50.7	46.2	14.9	--	--
Bison	50	93	21	52.7	43.7	17.8	15.2	15.3
Carter ²	50	97	22	52.3	43.5	14.2	14.0	14.7
CDC Buryu	50	94	20	52.9	43.8	17.3	22.1	22.1
CDC Dorado ²	46	92	19	52.3	44.0	18.2	--	--
CDC Glas	51	94	23	51.9	44.6	16.3	18.8	17.6
CDC Neela	52	96	21	51.7	44.2	14.6	15.4	15.9
CDC Playa	52	94	20	53.0	44.5	19.9	24.3	--
Gold ND ²	52	96	23	52.4	44.4	12.7	13.3	14.3
ND Hammond	51	95	23	52.5	42.5	16.2	16.1	14.6
Omega ²	53	95	22	53.0	43.2	15.0	18.4	19.2
Prairie Thunder	52	95	23	53.2	43.1	18.5	18.9	16.3
Webster	51	94	21	52.8	44.4	18.7	15.9	15.1
York	50	94	22	53.0	43.6	17.0	16.6	17.1
Mean	51	94	21	52.4	44.0	16.5	17.4	16.6
CV %	1.9	1.8	8.3	1.0	0.7	19.0	--	--
LSD 0.05	0.5	0.8	0.8	0.2	0.1	1.4	--	--
LSD 0.10	0.4	0.7	0.7	0.2	0.1	1.2	--	--

Planted: May 5. Harvested: Aug. 25. Previous crop: wheat.

¹DAP = Days after planting.²Yellow seeded.**Table 9. 2020 Flax - Irrigated - Williston - Authors, T. Tjelde, J. Jacobs and A. Turnquist.**

Cultivar	Days to	Days to	Plant	Plant	Test	Seed Yield		
	Flower	Maturity	Lodge ¹	Height (0-9)	Weight (inch)	(lb/bu)	2020 (bu/a)	2-yr. Avg. (bu/a)
AAC Bright ³	55	93	0	28	49.9	41.6	--	--
Bison	54	95	0	29	51.4	44.7	41.7	35.1
CDC Buryu	51	91	1	28	50.8	46.0	--	--
CDC Dorado ³	52	91	0	24	51.4	42.0	--	--
CDC Glas	57	94	0	29	50.1	45.3	33.2	30.1
CDC Neela	54	93	0	28	51.7	44.2	--	--
CDC Playa	54	91	1	26	51.1	44.9	--	--
Gold ND ³	59	96	0	30	52.7	41.1	36.1	31.5
ND Hammond	53	96	0	27	51.7	41.6	38.4	33.4
Omega ³	54	94	0	25	52.7	41.5	--	--
Prairie Thunder	55	96	0	30	52.0	41.9	40.0	33.2
Webster	56	96	1	31	52.0	38.5	--	--
York	54	94	1	28	52.2	41.9	37.3	32.5
Mean	54	94	0.3	28	51.5	42.7	37.8	30.6
CV %	4.8	2.7	159	5.1	1.3	8.8	--	--
LSD 0.05	3.7	3.7	0.6	2.1	1.1	5.4	--	--
LSD 0.10	3.1	3.0	0.5	1.7	0.9	4.5	--	--

Planted: May 5. Harvested: Aug. 24. Previous crop: durum.

¹Lodging: 0 = none, 9 = lying flat on the ground.²DAP = Days after planting.³Yellow seeded.

Table 10. 2020 Flax - Minot - Authors, E. Eriksmoen, A. Kraklau and D. Howat.

Variety	Days to	Plant	Oil Content	Test Weight	Seed Yield	
	Flower (DAP) ²	Height (inch)			2020	3-yr. Avg. ¹
AAC Bright ³	44	22	43.6	53.4	22.9	--
Bison	46	23	44.0	54.0	22.5	22.1
Carter ³	46	22	44.1	53.9	22.5	21.2
CDC Buryu	43	19	45.7	52.5	18.3	--
CDC Dorado ³	45	20	44.2	53.4	26.0	--
CDC Glas	45	20	42.8	53.4	23.4	24.3
CDC Neela	46	23	45.2	53.9	25.1	26.4
CDC Plava	44	20	42.3	53.6	22.3	--
CDC Rowland	46	23	44.7	54.2	22.6	--
Gold ND ³	45	19	43.8	52.4	23.8	21.7
ND Hammond	46	25	43.1	53.3	23.6	21.2
Omega ³	47	25	44.4	53.7	20.2	20.3
Prairie Thunder	44	23	44.6	53.2	21.6	21.7
Webster	45	20	44.4	53.3	20.0	20.6
York	46	24	46.9	53.7	19.1	19.3
Mean	45	22	44.2	53.5	22.3	21.9
CV %	1.2	7.7	1.4	2.2	14.0	9.1
LSD 0.05	1.0	3.0	1.0	NS	NS	3.4
LSD 0.10	1.0	2.0	0.8	NS	NS	2.8

Planted: May 14. Harvested: Aug. 29. Previous crop: spring wheat.

¹Average of 2017, 2018 and 2020.²DAP = Days after planting.³Yellow seeded.**Table 11. 2020 Flax - Hettinger - Authors, J. Rickertson and Michael Wells.**

Variety	Days to	Plant	Oil Content	Seed Yield		
	Flower (DAP) ³	Height (inch)		2020	2-yr. Avg. ¹	3-yr. Avg. ²
AAC Bright ⁴	51	20	46.4	12.5	--	--
Bison	47	21	43.8	14.9	18.3	18.4
Carter ⁴	49	21	43.2	14.1	19.3	18.9
CDC Buryu	47	19	43.1	13.1	--	--
CDC Dorado ⁴	46	17	44.6	13.9	--	--
CDC Glas	50	22	44.5	15.0	19.6	20.1
CDC Neela	48	19	43.4	16.1	20.6	20.9
CDC Plava	51	21	44.8	16.2	--	--
Gold ND ⁴	50	21	44.1	13.9	18.0	18.4
ND Hammond	50	20	41.0	13.2	17.6	--
Omega ⁴	51	21	42.7	16.3	17.6	18.2
Prairie Thunder	51	23	43.9	17.9	22.5	21.3
Webster	50	21	44.2	14.8	19.4	19.6
York	50	19	43.7	17.2	20.6	20.2
Mean	49	20	43.8	14.9	19.3	19.6
CV %	1.6	7.1	1.0	11.3	8.0	7.9
LSD 0.05	1.2	2.1	0.6	2.4	3.5	2.7
LSD 0.10	1.0	1.7	0.5	2.0	2.8	2.2

Planted: May 6. Harvested: Sept. 4. Previous crop: dry pea.

¹Average of 2018 and 2020.²Average of 2016, 2018 and 2020.³DAP = Days after planting.⁴Yellow seeded.

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