North Dakota Flax Variety Trial Results for 2015 and Selection Guide

Hans Kandel and James Hammond (NDSU Main Station); Mike Ostlie, Blaine Schatz and Kelly Bjerke (Carrington Research Extension Center); John Rickertsen and Rick Olson (Hettinger Research Extension Center); Bryan Hanson, Travis Hakanson and Lawrence Henry (Langdon Research Extension Center); Jerry Bergman, Gautam Pradhan, Diana Amiot and Justin Jacobs (Williston Research Extension Center).

This Selection Guide summarizes flax variety performance at the various North Dakota State University Research Extension Centers. Give special attention to 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, also 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 percent 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. Large CVs mean a large amount of variation that could not be attributed to differences in the varieties. 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.

Gold ND is a new flax variety released by NDSU in 2014. It is a yellow-seeded flax that is adapted to the north-central flax growing region of the United States. Gold ND has very high yield potential, good oil content and oil drying quality. It is resistant to flax rust and has good tolerance to flax wilt. The variety has blue flowers and medium seed size.

Oil content and harvested seed yield were adjusted to 9 percent moisture. In the table headings (Table 6-10) 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. The assistance given by many secretaries in typing respective portions of the document is very much appreciated. A special thank you goes to Lisa Johnson, Extension Plant Sciences secretary, for assisting in the compilation of this publication.

Table 1. 2015 North Dakota Flax Variety Descriptions.

Variety[1]	Origin[2]	Year Released	Relative Maturity	Seed Color	Plant Height	Wilt[3]
Carter	ND	2004	Med.	Yellow	Med.	MS/MR
Cathay	ND	1998	Med.	Brown	Med.	MR
CDC Arras	Can.	1999	Med.	Brown	Med.	MR
CDC Bethune	Can.	1999	Med.late	Brown	Med.tall	MR
CDC Glas	Can.	2012	Med.	Brown	Med.tall	MR
CDC Mons	Can.	2003	Med.late	Brown	Med.	MR
CDC Neela	Can.	2013	Med.late	Brown	Med.	MR
CDC Sanctuary	Can.	2012	Med.	Brown	Med.tall	MR
CDC Sorrel	Can.	2007	Med.late	Brown	Med.tall	MR
Gold ND	ND	2014	Med.	Yellow	Med.tall	MR/R
Hanley	Can.	2002	Med.early	Brown	Med.	R
Lightning	Can.	2002	Late	Brown	Med.tall	R
Linott	Can.	1966	Med.early	Brown	Med.	MS/MR
McGregor	Can.	1980	Late	Brown	Med.tall	MR
Neche	ND	1988	Med.	Brown	Med.	MR/R
Nekoma	ND	2002	Late	Brown	Med.	MR
Omega	ND	1989	Med.	Yellow	Med.	MS/MR
Pembina	ND	1998	Med.	Brown	Med.	MR
Prairie Blue	Can.	2003	Med.late	Brown	Med.tall	MR
Prairie Grande	Can.	2008	Med.early	Brown	Med.	MR
Prairie Sapphire	Can.	2012	Med.	Brown	Med.	MR
Prairie Thunder	Can.	2006	Med.	Brown	Short	MR
Rahab 94	SD	1994	Med.	Brown	Med.	MR
Selby	SD	2000	Late	Brown	Tall	MR
Shape	Can.	2010	Med.	Brown	Med.	R
Webster	SD	1998	Late	Brown	Tall	MR
York	ND	2002	Late	Brown	Med.	MR/R

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

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

[3] R = resistant; MR = moderately resistant; MS = moderately susceptible.

Table 2. Plant Height of Flax Varieties at Five Locations in North Dakota, 2015.

Variety	Carrington	Langdon	Williston	Williston-Irrigated	Hettinger	Average N.D.[3]
	(inch)	(inch)	(inch)	(inch)	(inch)	(inch)
Carter[1]	25	26	22	23	32	26
CDC Arras	23	30	23	--	34	27
CDC Bethune	23	30	22	23	34	27
CDC Glas	23	29	22	23	32	26
CDC Neela	24	28	22	--	32	26
CDC Sanctuary	24	28	24	23	32	27
CDC Sorrel	24	31	25	--	34	28
Gold ND[1]	23	30	23	--	33	27
Hanley	24	30	22	23	34	27
Lightning	23	28	23	--	33	27
Neche	25	30	24	24	35	28
Nekoma	23	30	22	--	33	27
Omega[1]	23	26	21	--	30	25
Pembina	22	29	23	--	33	27
Prairie Blue	23	28	23	22	33	27
Prairie Grande	22	27	22	--	33	26
Prairie Sapphire	23	26	26	--	33	27
Prairie Thunder	21	30	24	--	35	27
Rahab 94	24	27	20	--	34	26
Shape	23	27	22	--	33	26
Webster	25	30	24	25	34	28
York	21	30	24	--	33	27
Mean	23	29	23	23	33	27
CV %	10.2	4.8	6.3	10.5	3.8	4.4
LSD 0.05	NS	1.9	2.0	1.2	1.8	1.7
LSD 0.10	NS	1.6	1.7	1.0	1.5	1.4

Table 3. Days to Flower of Flax Varieties at Five Locations in North Dakota, 2015.

Variety	Carrington	Langdon	Williston	Williston-Irrigated	Hettinger	Average N.D.[3]
	(DAP)[2]	(DAP)[2]	(DAP)[2]	(DAP)[2]	(DAP)[2]	(DAP)[2]
Carter[1]	54	46	55	56	57	53
CDC Arras	54	47	56	--	56	53
CDC Bethune	53	48	57	55	56	53
CDC Glas	52	50	57	55	57	54
CDC Neela	53	48	54	--	55	52
CDC Sanctuary	53	49	56	56	57	54
CDC Sorrel	54	48	56	--	56	53
Gold ND[1]	54	50	57	--	58	55
Hanley	55	48	55	55	55	53
Lightning	54	48	57	--	56	54
Neche	54	47	56	56	56	53
Nekoma	53	47	56	--	56	53
Omega[1]	56	47	57	--	59	55
Pembina	54	49	57	--	56	54
Prairie Blue	52	49	55	56	57	53
Prairie Grande	52	46	56	--	55	52
Prairie Sapphire	54	46	57	--	58	54
Prairie Thunder	53	49	57	--	58	54
Rahab 94	54	48	56	--	56	54
Shape	53	45	57	--	56	53
Webster	55	49	56	55	57	54
York	53	49	56	--	55	53
Mean	54	48	56	56	56	53
CV %	1.2	1.1	1.6	1.9	0.8	1.9
LSD 0.05	0.9	0.7	1.3	0.5	0.7	1.4
LSD 0.10	0.8	0.6	1.1	0.4	0.6	1.2

[1]Yellow seeded.

[2]DAP = Days after planting.

[3]Average of the four dryland trials.

Table 4. Yield of Flax Varieties at Five Locations in North Dakota, 2013-2015.

	Carrington		Langdon		Williston		Williston-Irr.	Hettinger		Average N.D.[1]	
Variety	**2015**	**3 Yr.**	**2015**	**3 Yr.**	**2015**	**3 Yr.**	**2015**	**2015**	**3 Yr.**	**2015**	**3 Yr.**
	----(bu/a)----		----(bu/a)----		---(bu/a)---		---(bu/a)---	----(bu/a)---		----(bu/a)---	
Carter[1]	30.0	24.9	36.4	38.0	30.1	25.0	32.6	35.5	26.5	33.0	29.3
CDC Arras	21.9	20.9	36.5	38.8	26.0	24.0	--	31.4	26.0	29.0	27.9
CDC Bethune	29.9	25.3	37.5	38.4	27.8	23.5	36.1	32.5	27.8	31.9	29.1
CDC Glas	35.0	--	41.3	41.9	30.4	24.9	48.7	35.4	--	35.5	--
CDC Neela	32.5	--	39.4	--	31.5	-	--	36.2	--	34.9	--
CDC Sanctuary	32.9	25.8	41.2	40.6	28.1	24.3	37.4	35.1	--	34.3	30.2
CDC Sorrel	33.2	28.6	40.1	38.6	29.5	27.0	--	32.8	--	33.9	31.4
Gold ND[1]	36.5	26.8	36.3	37.9	29.8	25.6	--	33.1	--	33.9	30.1
Hanley	30.9	24.2	37.1	38.3	27.7	23.7	38.4	32.1	26.1	31.9	28.7
Lightning	26.2	22.8	35.2	37.6	25.9	23.9	--	33.0	25.9	30.1	28.1
Neche	27.6	24.6	36.8	38.2	25.4	24.6	34.4	29.7	--	29.9	29.1
Nekoma	33.5	27.2	37.4	37.7	27.2	23.9	--	32.8	27.5	32.7	29.6
Omega[1]	23.5	20.5	35.8	36.9	27.4	23.4	--	27.2	--	28.5	26.9
Pembina	25.7	23.8	36.9	37.6	27.7	22.8	--	30.5	26.8	30.2	28.1
Prairie Blue	26.3	20.3	37.5	37.1	28.6	25.7	39.8	33.8	28.7	31.5	27.7
Prairie Grande	30.5	24.6	37.2	34.2	27.1	22.9	--	33.2	27.6	32.0	27.2
Prairie Sapphire	32.3	24.5	38.3	41.1	26.9	22.7	--	30.5	--	32.0	29.4
Prairie Thunder	27.9	23.1	37.3	41.3	27.4	23.0	--	28.2	26.6	30.2	29.1
Rahab 94	29.8	26.0	37.8	36.6	27.6	24.5	--	33.1	--	32.1	29.0
Shape	28.8	23.7	40.1	41.1	26.2	22.0	--	31.4	--	31.6	28.9
Webster	27.6	25.2	35.0	39.5	27.5	22.8	41.4	30.8	26.0	30.2	29.2
York	30.2	26.4	35.4	37.4	26.6	24.1	--	33.8	29.2	31.5	29.3
Mean	29.7	24.5	37.6	38.5	27.7	24.0	38.6	32.4	26.6	31.9	28.9
CV %	12.8	--	5.7	--	9.2	-	12.9	6.9	--	5.8	5.9
LSD 0.05	5.4	--	3.0	--	3.5	-	2.4	3.2	--	2.6	2.8
LSD 0.10	4.5	--	2.5	--	3.0	-	2.0	2.6	--	2.2	2.4

[1] Average 2015 of the four dryland trials and 3 Yr. is from Carrington, Langdon and Williston.

Table 5. Yield of Flax Varieties at Five Locations in North Dakota, 2013-2015.

	Carrington		Langdon	Williston		Williston-Irr.		Hettinger		Average N.D.[1]	
Variety	**Test Wt.**	**Oil**	**Test Wt.**	**Test Wt.**	**Oil**	**Test Wt.**	**Oil**	**Test Wt.**	**Oil**	**Test Wt.**	**Oil**
	(lb/bu)	(%)	(lb/bu)	(lb/bu)	(%)	(lb/bu)	(%)	(lb/bu)	(%)	(lb/bu)	(%)
Carter[1]	53.7	44.0	53.0	54.2	37.8	54.1	36.8	56.4	45.5	54.3	42.4
CDC Arras	52.4	43.1	51.9	53.6	37.6	--	--	56.0	44.7	53.5	41.8
CDC Bethune	52.6	45.6	51.9	53.9	37.7	54.1	37.6	56.2	44.9	53.6	42.7
CDC Glas	52.7	46.2	50.8	52.7	38.7	53.2	38.5	54.9	46.5	52.8	43.8
CDC Neela	53.6	44.9	51.9	53.2	38.6	--	--	55.5	46.3	53.6	43.3
CDC Sanctuary	53.1	44.9	50.7	53.3	38.4	53.2	37.5	54.9	45.9	53.0	43.1
CDC Sorrel	52.9	45.3	52.3	53.5	38.8	--	--	55.5	45.3	53.5	43.1
Gold ND[1]	53.8	44.2	52.3	54.2	38.9	--	--	56.2	46.7	54.1	43.2
Hanley	52.1	46.9	52.2	53.7	37.8	53.8	37.3	55.7	44.9	53.4	43.2
Lightning	52.4	42.2	52.1	53.5	38.1	--	--	56.0	45.1	53.5	41.8
Neche	52.7	44.0	52.5	53.9	37.4	53.8	37.1	55.9	45.1	53.7	42.1
Nekoma	53.6	45.5	52.6	54.2	38.2	--	--	55.7	45.6	54.0	43.1
Omega[1]	53.4	44.5	53.1	54.5	37.5	--	--	56.7	46.1	54.4	42.7
Pembina	51.7	44.1	52.8	53.7	38.4	--	--	55.5	45.9	53.4	42.8
Prairie Blue	52.2	45.6	51.7	53.7	38.6	53.4	38.2	55.6	46.4	53.3	43.6
Prairie Grande	52.6	46.0	51.0	53.7	38.2	--	--	55.4	46.5	53.2	43.6
Prairie Sapphire	51.9	46.2	51.4	52.6	39.3	--	--	54.5	46.7	52.6	44.0
Prairie Thunder	53.2	44.9	51.5	53.9	37.2	--	--	56.2	43.8	53.7	42.0
Rahab 94	53.5	45.1	50.2	52.8	38.1	--	--	55.1	46.0	52.9	43.1
Shape	52.9	44.5	51.4	53.3	39.3	--	--	55.2	46.7	53.2	43.5
Webster	53.8	43.8	52.2	53.8	38.4	54.0	38.1	55.9	45.5	53.9	42.6
York	52.6	43.6	52.4	53.7	37.5	--	--	55.5	45.5	53.6	42.2
Mean	52.9	44.8	51.9	53.6	38.2	53.7	37.6	55.7	45.7	53.5	42.9
CV %	0.9	2.6	51.9	0.5	1.1	0.6	0.9	0.6	1.3	0.8	1.6
LSD 0.05	0.6	1.6	1.0	0.4	0.6	0.2	0.2	0.4	0.8	0.6	1.1
LSD 0.10	0.5	1.4	0.7	0.3	0.5	0.2	0.2	0.4	0.7	0.5	1.0

1Yellow seeded.

2Test weight average of the four dryland trials and oil average of three dryland trials.

Table 6. 2015 Flax - Carrington - Authors, M. Ostlie, B. Schatz and K. Bjerke.

Variety	Days to Flower	Days to PM	Plant Height	Oil Content	Test Weight	Seed Yield		
						2015	2-yr. Avg.	3-yr. Avg.
	(DAP)[1]	(DAP)[1]	(inch)	(%)	(lb/bu)	----------(bu/a)----------		
Carter[2]	54	92	25	44.0	53.7	30.0	30.6	24.9
CDC Arras	54	92	23	43.1	52.4	21.9	25.8	20.9
CDC Bethune	53	91	23	45.6	52.6	29.9	31.6	25.3
CDC Glas	52	90	23	46.2	52.7	35.0	32.8	--
CDC Neela	53	91	24	44.9	53.6	32.5	33.3	--
CDC Sanctuary	53	92	24	44.9	53.1	32.9	31.0	25.8
CDC Sorrel	54	92	24	45.3	52.9	33.2	34.0	28.6
Gold ND[2]	54	95	23	44.2	53.8	36.5	33.6	26.8
Hanley	55	91	24	46.9	52.1	30.9	28.9	24.2
Lightning	54	94	23	42.2	52.4	26.2	27.9	22.8
Neche	54	93	25	44.0	52.7	27.6	30.3	24.6
Nekoma	53	91	23	45.5	53.6	33.5	32.4	27.2
Omega[2]	56	93	23	44.5	53.4	23.5	25.5	20.5
Pembina	54	92	22	44.1	51.7	25.7	29.0	23.8
Prairie Blue	52	89	23	45.6	52.2	26.3	26.2	20.3
Prairie Grande	52	90	22	46.0	52.6	30.5	30.1	24.6
Prairie Sapphire	54	91	23	46.2	51.9	32.3	30.1	24.5
Prairie Thunder	53	92	21	44.9	53.2	27.9	28.9	23.1
Rahab 94	54	92	24	45.1	53.5	29.8	31.3	26.0
Shape	53	91	23	44.5	52.9	28.8	29.6	23.7
Webster	55	93	25	43.8	53.8	27.6	30.9	25.2
York	53	91	21	43.6	52.6	30.2	32.6	26.4
Mean	53	92	23	44.8	52.9	29.7	30.3	24.5
CV %	1.2	1	10.2	2.6	0.9	12.8	--	--
LSD 0.05	0.9	2	NS	1.6	0.6	5.4	--	--
LSD 0.10	0.8	1.6	NS	1.4	0.5	4.5	--	--

Planted: May 5. Harvested: Aug. 31. Previous crop: spring wheat.

[1]DAP = Days after planting.

[2]Yellow seeded.

Table 7. 2015 Flax - Langdon - Authors, B. Hanson, T. Hakanson and L. Henry.

Variety	Days to Flower	Plant Height	Test Weight	Seed Yield				
				2013	2014	2015	2-yr. Avg.	3-yr. Avg.
	(DAP)[1]	(inch)	(lb/bu)	(bu/a)				
Bison	46	29	52.0	--	38.9	37.0	38.0	--
Carter[2]	46	26	53.0	38.0	39.5	36.4	38.0	38.0
CDC Arras	47	30	51.9	40.4	39.6	36.5	38.1	38.8
CDC Bethune	48	30	51.9	38.5	39.2	37.5	38.3	38.4
CDC Glas	50	29	50.8	41.8	42.6	41.3	42.0	41.9
CDC Neela	48	28	51.9	--	38.6	39.4	39.0	--
CDC Sancturary	49	28	50.7	42.4	38.2	41.2	39.7	40.6
CDC Sorrel	48	31	52.3	37.5	38.2	40.1	39.2	38.6
Gold ND[2]	50	30	52.3	39.9	37.4	36.3	36.8	37.9
Hanley	48	30	52.2	40.9	36.8	37.1	36.9	38.3
Lightning	48	28	52.1	39.6	37.9	35.2	36.5	37.6
Linott	48	30	51.9	39.2	39.1	34.9	37.0	37.7
McGregor	48	29	51.8	36.7	40.2	39.0	39.6	38.6
Neche	47	30	52.5	39.5	38.4	36.8	37.6	38.2
Nekoma	47	30	52.6	37.5	38.3	37.4	37.9	37.7
Omega[2]	47	26	53.1	38.7	36.1	35.8	36.0	36.9
Pembina	49	29	52.8	37.7	38.2	36.9	37.5	37.6
Prairie Blue	49	28	51.7	34.0	39.8	37.5	38.7	37.1
Prairie Grande	46	27	51.0	30.5	34.8	37.2	36.0	34.2
Prairie Sapphire	46	26	51.4	46.6	38.3	38.3	38.3	41.1
Prairie Thunder	49	30	51.5	45.1	41.6	37.3	39.5	41.3
Rahab 94	48	27	50.2	32.3	39.6	37.8	38.7	36.6
Shape	45	27	51.4	45.2	37.9	40.1	39.0	41.1
Webster	49	30	52.2	44.6	38.9	35.0	36.9	39.5
York	49	30	52.4	38.9	38.0	35.4	36.7	37.4
Mean	48	29	51.9	39.4	38.6	37.5	38.1	38.5
CV %	1.1	4.8	1.0	10.6	7.9	5.7	--	--
LSD 0.05	0.7	1.9	0.7	5.0	NS	3.0	--	--
LSD 0.10	0.6	1.6	0.6	6.0	NS	2.5	--	--

Planted: May 29. Harvested: Sept. 21.

[1]DAP = Days after planting.

[2]Yellow seeded.

Table 8. 2015 Flax - Dryland - Williston - Authors, J. Bergman, G. Pradhan and D. Amiot.

Cultivar	Days to Flower	Days to PM	Plant Height	Test Weight	Oil Content	Seed Yield		
						2015	2-yr. Avg.	3-yr. Avg.
	(DAP)[1]	(DAP)[1]	(inch)	(lb/bu)	(%)	----------(bu/a)----------		
Bison	55	81	22	53.5	37.8	26.2	21.9	--
Carter[2]	55	82	22	54.2	37.8	30.1	24.3	25.0
CDC Arras	56	81	23	53.6	37.6	26.0	22.4	24.0
CDC Bethume	57	84	22	53.9	37.7	27.8	23.0	23.5
CDC Glas	57	82	22	52.7	38.7	30.4	24.6	24.9
CDC Neela	54	79	22	53.2	38.6	31.5	24.8	--
CDC Sanctuary	56	82	24	53.3	38.4	28.1	23.3	24.3
CDC Sorrel	56	80	25	53.5	38.8	29.5	24.5	27.0
Gold ND[2]	57	84	23	54.2	38.9	29.8	24.7	25.6
Hanley	55	79	22	53.7	37.8	27.7	23.1	23.7
Lightning	57	82	23	53.5	38.1	25.9	22.6	23.9
Linott	57	82	24	53.3	37.0	25.8	22.3	23.6
McGregor	57	82	22	53.7	37.8	28.1	22.9	23.6
Neche	56	81	24	53.9	37.4	25.4	23.0	24.6
Nekoma	56	83	22	54.2	38.2	27.2	23.6	23.9
Omega[2]	57	82	21	54.5	37.5	27.4	24.1	23.4
Pembina	57	82	23	53.7	38.4	27.7	22.2	22.8
Prairie Blue	55	81	23	53.7	38.6	28.6	24.4	25.7
Prairie Grande	56	81	22	53.7	38.2	27.1	22.3	22.9
Prairie Sapphire	57	82	26	52.6	39.3	26.9	22.1	22.7
Prairie Thunder	57	82	24	53.9	37.2	27.4	22.9	23.0
Rahab 94	56	80	20	52.8	38.1	27.6	23.6	24.5
Shape	57	82	22	53.3	39.3	26.2	21.8	22.0
Webster	56	82	24	53.8	38.4	27.5	21.8	22.8
York	56	82	24	53.7	37.5	26.6	22.7	24.1
Mean	56	81	23	53.6	38.1	27.7	23.2	24.0
CV %	1.6	2.8	6.3	0.5	1.1	9.2	--	--
LSD 0.05	1.3	3.2	2.0	0.4	0.6	3.5	--	--
LSD 0.10	1.1	2.7	1.7	0.3	0.5	3.0	--	--

Planted: April 28. Harvested: Sept. 16. Previous crop: spring wheat.

Table 9. 2015 Flax - Irrigated - Williston - Author, J. Jacobs

Cultivar	Days to Flower	Plant Height	Test Weight	Oil Content	Seed Yield
	(DAP)[1]	(inch)	(lb/bu)	(%)	(bu/a)
Carter[2]	56	23	54.1	36.8	32.6
CDC Bethume	55	23	54.1	37.6	36.1
CDC Glas	55	23	53.2	38.5	48.7
CDC Sanctuary	56	23	53.2	37.5	37.4
Hanley	55	23	53.8	37.3	38.4
Neche	56	24	53.8	37.1	34.4
Prairie Blue	56	22	53.4	38.2	39.8
Webster	55	25	54.0	38.1	41.4
Mean	56	23	53.7	37.7	38.6
CV %	1.9	10.5	0.6	0.9	12.9
LSD 0.05	0.5	1.2	0.2	0.2	2.4
LSD 0.10	0.6	1.4	0.2	0.2	2.8

Planted: May 1. Harvested: Aug. 20. Previous crop: barley.

[1]DAP = Days after planting.

[2]Yellow seeded.

Table 10. 2015 Flax - Hettinger - Authors, J. Rickertsen and R. Olson

Variety	Days to Bloom	Plant Height	Oil Content	Test Weight	Seed Yield	
					2015	3-yr. Avg.
	(DAP)[1]	(inch)	(%)	(lb/bu)	----------(bu/a)----------	
Carter[2]	57	32	45.5	56.4	35.5	26.5
CDC Arras	56	34	44.7	56.0	31.4	26.0
CDC Bethume	56	34	44.9	56.2	32.5	27.8
CDC Glas	57	32	46.5	54.9	35.4	--
CDC Neela	55	32	46.3	55.5	36.2	--
CDC Santuary	57	32	45.9	54.9	35.1	--
CDC Sorrel	56	34	45.3	55.5	32.8	--
Gold ND[2]	58	33	46.7	56.2	33.1	--
Hanley	55	34	44.9	55.7	32.1	26.1
Lightning	56	33	45.1	56.0	33.0	25.9
Neche	56	35	45.1	55.9	29.7	--
Nekoma	56	33	45.6	55.7	32.8	27.5
Omega[2]	59	30	46.1	56.7	27.2	--
Pembina	56	33	45.9	55.5	30.5	26.8
Praire Blue	57	33	46.4	55.6	33.8	28.7
Prairie Grande	55	33	46.5	55.4	33.2	27.6
Prairie Sapphire	58	33	46.7	54.5	30.5	--
Prairie Thunder	58	35	43.8	56.2	28.2	26.6
Rahab 94	56	34	46.0	55.1	33.1	--
Shape	56	33	46.7	55.2	31.4	--
Webster	57	34	45.5	55.9	30.8	26.0
York	55	33	45.5	55.5	33.8	29.2
Mean	56	33	45.7	55.7	32.4	27.0
CV %	0.8	3.8	1.3	0.6	6.9	--
LSD 0.05	0.7	1.8	0.8	0.4	3.2	--
LSD 0.10	0.6	1.5	0.7	0.4	2.6	--

Planted: April 30. Harvested: Aug. 12. Previous crop: barley.

[1]DAP = Days after planting.

[2]Yellow seeded.