

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

CDC Rowland Flax



Progress Through Research
Le progrès grâce à la recherche

Description:

CDC Rowland is a large seeded, high yielding brown seeded flax variety with very good lodging resistance and late maturity.

Adaptation:

- All flax growing areas of western Canada, with especially good performance in the long season areas of the black and brown soil zones.

Pedigree:

- CDC Sorrel/F03279//CDC Sorrel/F03279

Strengths:

- 112% grain yield of CDC Bethune across all zones in the registration trials
- Very large seed size – 6.8g for CDC Rowland vs 5.8g for CDC Bethune in registration trials
- Good resistance to lodging, better than CDC Bethune
- Resistant to flax rust and moderately resistant to fusarium wilt and powdery mildew

Neutral Traits:

- Meal protein similar to the checks
- Oil content similar to the checks
- Height similar to CDC Bethune

Weaknesses:

- 4 day later maturing than CDC Bethune

Breeder:

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Crop Development Centre
University of Saskatchewan
Saskatoon, SK

**PBR 91 Protected
PVP Granted**

2015 and 2016 Western Cooperative Flax Registration Trials

Variety	Yield as % CDC Bethune	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	1000 Seed Weight (g)	Oil Content (%)	Iodine Number	Linolenic Acid Content (%)	Seed Protein Content (%)	Meal Protein Content (%)
CDC Bethune	100	102	2.4	64.2	5.8	45.0	188.0	54.8	24.2	43.9
Flanders	93	103	3.5	63.6	5.3	45.1	192.0	57.9	23.9	43.5
Prairie Thunder	95	102	2.2	59.1	6.1	44.2	194.2	58.3	24.7	44.3
CDC Rowland	112	106	2.0	63.5	6.8	44.6	194.5	59.3	24.2	43.6

2026 Seed Manitoba Flax Comparison

Variety	Site Years	Yield bu/ac	Maturity +/- 102 days	Height +/- 68 cm	Seed Colour	Seed Size TKW	Oil Content (%)	Oil Quality		Resistance to:	
								Iodine Number	ALA Content	Lodging	Fusarium Wilt
AAC Bright	25	35	+2	0	Yellow	5.6	48.8	192.1	56.2	G	MR
CDC Bethune	84	35	0	0	Brown	5.8	45.6	188.6	54.7	G	MR
CDC Esme	21	37	+2	-2	Brown	6.3	44.5	192.0	57.1	G	MR
CDC Glas	53	36	+1	+3	Brown	5.2	45.8	192.0	56.6	G	MR
CDC Kernen	29	37	+1	0	Brown	6.5	45.4	191.6	57.3	VG	MR
CDC Plava	21	35	-2	-3	Brown	5.7	46.5	195.5	57.2	G	MR
CDC Rowland	28	39	+4	0	Brown	6.8	45.2	195.1	59.2	G	MR

M=Medium; ME=Medium Early; ML=Medium Late; MR=Moderately Resistant; VG=Very Good; FG=Fair to Good; P=Poor

2026 Saskatchewan Varieties of Grain Flax Comparison

Variety	Years Tested	Yield as % of CDC Glas				Relative Maturity +/- 101 days	Seed Size	Resistance to:		
		Area 1 & 2	Area 3 South	Area 3 North & 4	Irrigation			Lodging	Powdery Mildew	Fusarium Wilt
CDC Glas	14	100	100	100	100	0	M	VG	MR	MR
AAC Bright (yellow seed)	8	93	95	94	97	+1	M	G	MR	MR
CDC Bethune	15	96	93	100	103	-1	M	G	MR	MR
CDC Esme	7	103	103	99	105	+3	L	G	---	MR
CDC Kernen	8	100	106	102	103	+1	L	G	MR	MR
CDC Sorrel	4	90	87	95	99	0	L	G	MR	MR
CDC Rowland	7	102	106	103	103	+3	L	G	MR	MR

M=Medium; L=Late S=Small; M=Medium; L=Large G=Good; VG=Very Good; F=Fair; P=Poor

R=Resistant; MR=Moderately resistant, I=Intermediate; MS=Moderately susceptible; S=Susceptible

2026 Alberta Seed Guide Flax Comparison

Variety	Most Recent Year of Testing	Overall Years of Testing	Overall Yield	Yield Category (% CDC Glas)		Agronomic Characteristics					Disease Tolerance	Quality		
				Low <37 (bu/ac)	High >37 (bu/ac)	Maturity Rating (Days +/- CDC Glas)	Seed Colour	Seed Size	Height (cm)	Resistance to Lodging	Powdery Mildew	Oil Content (%)	ALA Content (%)	Iodine Value
CDC Glas (bu/ac)			44	26	57									
CDC Glas	2025	77	100	100	100	108	Brown	M	62	G	MR	46	57	192
CDC Bethune	2022	47	96	95	96	-1	Brown	M	61	G	MR	46	55	189
CDC Esme	2025	34	105	107	103	+4	Brown	L	61	G	NT	46	59	195
CDC Kernen	2025	43	101	105	99	+2	Brown	M	64	G	MR	45	57	191
CDC Plava	2016	26	96	101	87	-3	Brown	M	51	G	NT	47	57	196
CDC Sorrel	2008	14	104	110	99	0	Brown	L	61	F	MR	45	58	193
CDC Rowland	2023	24	104	104	104	+4	Brown	L	61	G	MR	45	59	195

S=Small, M=Medium, L=Large; VG=Very Good; G=Good; F=Fair; P=Poor; VP=Very; R=Resistant; MR=Moderately resistant, I=Intermediate; MS=Moderately susceptible; S=Susceptible; NT = Not tested