Technical Bulletin
Genes that fit *your* farm.

SeCan — Canada's Seed Partner

CDC Rowland
Flax

91 — 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:
Dr. Helen Booker
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**

2024 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 Iodine Number	Oil Quality ALA Content	Resistance to: Lodging	Resistance to: Fusarium Wilt
AAC Bright	15	36	+2	0	Yellow	5.6	48.8	192.1	56.2	G	MR
CDC Bethune	84	34	0	0	Brown	5.8	45.6	188.6	54.7	G	MR
CDC Esme	10	37	+2	-2	Brown	6.3	44.5	192.0	57.1	G	MR
CDC Glas	42	36	+1	+3	Brown	5.2	45.8	192.0	56.6	G	MR
CDC Kernen	18	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 Sorrel	56	34	+1	+3	Brown	6.4	45.1	192.7	57.8	F	MR
CDC Rowland	**28**	**38**	**+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

2024 Saskatchewan Varieties of Grain Flax Comparison

Variety	Years Tested	Yield as % of CDC Glas Area 1 & 2	Yield as % of CDC Glas Area 3 South	Yield as % of CDC Glas Area 3 North &4	Yield as % of CDC Glas Irrigation	Relative Maturity +/- 101 days	Seed Size	Resistance to: Lodging	Resistance to: Powdery Mildew	Resistance to: Fusarium Wilt
CDC Glas	**11**	**100**	**100**	**100**	**100**	**0**	**M**	**VG**	**MR**	**MR**
AAC Bright (yellow seed)	6	93	95	95	96	+1	M	G	MR	MR
CDC Bethune	15	95	95	99	103	-1	M	G	MR	MR
CDC Esme	5	102	103	99	---	+3	L	G	---	MR
CDC Kernen	6	100	103	102	102	+1	L	G	MR	MR
CDC Plava	5	93	97	96	94	-3	M	G	---	MR
CDC Sorrel	4	91	87	94	99	0	L	G	MR	MR
CDC Rowland	**7**	**101**	**107**	**102**	**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

2024 Alberta Seed Guide Flax Comparison

Variety	Most Recent Year of Testing	Overall Station Years of Testing	Overall Yield	Yield Category (% CDC Glas) Low <37 (bu/ac)	Yield Category (% CDC Glas) High >37 (bu/ac)	Maturity Rating (Days +/- CDC Glas)	Seed Colour	Seed Size	Height (cm)	Resistance to Lodging	Fusarium Wilt	Powdery Mildew	Oil Content (%)	ALA Content (%)	Iodine Value
CDC Glas (bu/ac)			4136	25	53										
CDC Glas	2023	68	100	100	100	108	Brown	M	62	G	MR	MR	46	57	192
CDC Bethune	2022	47	96	95	96	-1	Brown	M	61	G	MR	MR	46	55	189
CDC Esme	2023	25	105	109	101	+4	Brown	L	61	G	MR	NT	46	59	195
CDC Kernen	2023	34	102	107	99	0	Brown	M	64	G	MR	MR	45	57	191
CDC Plava	2016	26	96	101	87	-3	Brown	M	51	G	MR	NT	47	57	196
CDC Sorrel	2008	14	104	110	99	0	Brown	L	61	F	MR	MR	45	58	193
CDC Rowland	**2023**	**24**	**104**	**104**	**104**	**+4**	**Brown**	**L**	**61**	**G**	**MR**	**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

For more information, call 1-800-665-7333 or visit www.secan.com

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