

Technical Bulletin

Genes that fit *your* farm.



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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University of Saskatchewan
Saskatoon, SK

PBR 91 Protected

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

2021 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	6	34	+2	0	Yellow	5.6	48.8	192.1	56.2	G	MR
AAC Prairie Sunshine	16	34	+3	+3	Brown	5.3	47.7	192.5	56.5	VG	MR
CDC Bethune	129	34	0	0	Brown	5.8	45.6	188.6	54.7	G	MR
CDC Buryu	18	34	+1	+3	Brown	5.9	45.3	189.9	54.6	G	MR
CDC Glas	27	36	+1	+3	Brown	5.2	45.8	192.0	56.6	G	MR
CDC Plava	21	34	-2	-3	Brown	5.7	46.5	195.5	57.2	G	MR
CDC Sanctuary	27	35	+3	+2	Brown	5.8	45.6	190.7	57.2	G	MR
CDC Sorrel	56	35	+1	+3	Brown	6.4	45.1	192.7	57.8	F	MR
CDC Rowland	14	37	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

2021 Saskatchewan Varieties of Grain Flax Comparison

Variety	Yield as % of CDC Bethune					Maturity	Seed Size	Resistance to:		
	Years Tested	Area 1 & 2	Area 3 South	Area 4	Irrigation			Lodging	Powdery Mildew	Fusarium Wilt
CDC Bethune	13	100	100	100	100	L	M	G	MR	MR
AAC Bright	3	98	91	95	---	L	M	G	MR	MR
AAC Prairie Sunshine	6	103	93	97	93	L	M	G	MR	MR
CDC Buryu	5	97	105	100	88	L	M	G	MR	MR
CDC Glas	9	107	102	105	98	L	M	VG	MR	MR
CDC Plava	5	99	103	99	90	M	M	G	---	MR
CDC Sanctuary	5	103	91	94	95	L	M	F	MR	MR
CDC Sorrel	4	96	93	97	96	L	L	G	MR	MR
CDC Rowland	4	108	109	108	102	L	L	G	MR	MR

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

2021 Alberta Seed Guide Flax Comparison

Variety	Overall Yield	Years Tested	Yield Category (% CDC Bethune)				Maturity Rating Days +/- CDC Bethune	Agronomic Characteristics			
			Low <20 (bu/ac)	Medium 20-30 (bu/ac)	High 30-37 (bu/ac)	Very High >37 (bu/ac)		Seed Colour	Seed Size	Height (cm)	Resistance to Lodging
CDC Bethune (bu/ac)	33		14	26	33	49					
CDC Bethune	100	140	100	100	100	100	107	Brown	M	59	G
AAC Bright	95	21	XX	XX	98	93	+2	Yellow	S	65	VG
AAC Prairie Sunshine	99	21	XX	XX	100	96	+2	Brown	M	63	VG
CDC Buryu	100	26	97	104	99	97	+1	Brown	L	57	G
CDC Glas	107	44	109	113	107	105	+1	Brown	M	64	G
CDC Plava	101	34	98	109	101	93	-2	Brown	M	53	G
CDC Sorrel	104	32	112	104	100	99	+1	Brown	L	61	F
CDC Rowland	113	24	XX	XX	XX	109	+3	Brown	L	62	G

Seed Size: S=Small, M=Medium, L=Large; Lodging Resistance: P=Poor, F=Fair, G=Good, VG=Very Good

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