

Technical Bulletin

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SeCan

Canada's Seed Partner

CDC Kernen Flax



Progress Through Research
Le progrès grâce à la recherche

Description:

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

Adaptation:

- All flax growing areas of western Canada.

Pedigree:

- CDC Sorrel/F03279//CDC Sorrel/F03074

Strengths:

- 106% grain yield of CDC Glas and 108% of CDC Bethune across all zones in the registration trials
- Larger seed size – 6.09g for CDC Kernen vs 5.38g for CDC Glas and 5.93g for CDC Bethune in registration trials
- Resistant to flax rust and moderately resistant to fusarium wilt and powdery mildew
- Significantly higher linolenic acid content compared to CDC Glas and CDC Bethune in registration trials

Neutral Traits:

- +2cm taller than CDC Glas and +3 taller than CDC Bethune
- Good lodging resistance but slightly weaker straw than CDC Glas and CDC Bethune
- Oil content similar to the checks

Weaknesses:

- 2 day later maturing than CDC Bethune

Breeder:

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University of Saskatchewan
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PBR 91 Protected

2018 and 2019 Linseed Co-op Trials

Variety	Yield as % CDC Glas	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	98	105	1.2	59.8	5.93	44.7	186	53.2	22.2	40.1
CDC Glas	100	106	1.2	60.5	5.38	45.3	189	54.5	21.7	39.6
CDC Rowland	103	110	1.3	59.8	6.76	45.0	194	58.2	21.7	39.3
CDC Kernen	106	108	1.6	62.5	6.09	45.1	192	57.1	21.4	38.9

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 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
CDC Kernen	29	37	+1	0	Brown	6.5	45.4	191.6	57.3	VG	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 Rowland	7	102	106	103	103	+3	L	G	MR	MR
CDC Sorrel	4	90	87	95	99	0	L	G	MR	MR
CDC Kernen	8	100	106	102	103	+1	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 Station 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 Plava	2016	26	96	101	87	-3	Brown	M	51	G	NT	47	57	196
CDC Rowland	2023	24	104	104	104	+4	Brown	L	61	G	MR	45	59	195
CDC Sorrel	2008	14	104	110	99	0	Brown	L	61	F	MR	45	58	193
CDC Kernen	2025	43	101	105	99	+2	Brown	M	64	G	MR	45	57	191

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