

Technical Bulletin

Genes that fit *your* farm.



CDC Esme Flax



Description:

CDC Esme (FP2591) 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:

- HYF12139/HYF12546

Strengths:

- High grain yield, 105% of CDC Glas and 108% of CDC Bethune
- Larger seed size, 6.33 g tkw vs CDC Glas 5.22 g tkw
- 2 cm shorter than CDC Glas
- Oil content similar CDC Glas and CDC Bethune
- Seed protein similar to CDC Glas
- Immune to flax rust

Neutral Traits:

- Similar protein content to CDC Glas
- Slightly lower lodging tolerance than CDC Glas, 2.4 vs 2.1 on a 1-9 scale where 1 is upright and 9 is flat

Weaknesses:

- 3 day later maturing than CDC Glas

Breeder:

Dr. Bunyamin Tar'an and team,
Crop Development Centre
University of Saskatchewan
Saskatoon, SK

PBR 91 Pending

2019 and 2021 Linseed Co-op Trials

Variety	Yield as % CDC Glas	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	1000 Seed Weight (g)	Oil Content (%)	Oil Yield kg/ha	Iodine Number	Linolenic Acid Content (%)	Seed Protein Content (%)	Meal Protein Content (%)
CDC Bethune	97	100	2.1	59.8	5.93	44.7	950	186	53.2	22.2	40.1
CDC Glas	100	101	2.1	58.2	5.22	44.5	995	189	54.5	21.7	39.6
CDC Kernen	105	104	2.4	65.5	6.33	44.5	1040	192	57.1	22.4	40.3

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		Resistance to:	
								Iodine Number	ALA Content	Lodging	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 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 Rowland	28	38	+4	0	Brown	6.8	45.2	195.1	59.2	G	MR
CDC Sorrel	56	34	+1	+3	Brown	6.4	45.1	192.7	57.8	F	MR
CDC Esme	10	37	+2	-2	Brown	6.3	44.5	192.0	57.1	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				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	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 Kernen	6	100	103	102	102	+1	L	G	MR	MR
CDC Plava	5	93	97	96	94	-3	M	G	---	MR
CDC Rowland	7	101	107	102	103	+3	L	G	MR	MR
CDC Sorrel	4	91	87	94	99	0	L	G	MR	MR
CDC Esme	5	102	103	99	---	+3	L	G	---	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)		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	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 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 Rowland	2023	24	104	104	104	+4	Brown	L	61	G	MR	MR	45	59	195
CDC Sorrel	2008	14	104	110	99	0	Brown	L	61	F	MR	MR	45	58	193
CDC Esme	2023	25	105	109	101	+4	Brown	L	61	G	MR	NT	46	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