

# 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
<b>CDC Esme</b>	<b>105</b>	<b>104</b>	<b>2.4</b>	<b>56.5</b>	<b>6.33</b>	<b>44.5</b>	<b>1040</b>	<b>192</b>	<b>57.1</b>	<b>22.4</b>	<b>40.3</b>

## 2025 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	16	36	+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 Glas	46	37	+1	+3	Brown	5.2	45.8	192.0	56.6	G	MR
CDC Kernen	22	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
CDC Sorrel	56	35	+1	+3	Brown	6.4	45.1	192.7	57.8	F	MR
<b>CDC Esme</b>	<b>14</b>	<b>37</b>	<b>+2</b>	<b>-2</b>	<b>Brown</b>	<b>6.3</b>	<b>44.5</b>	<b>192.0</b>	<b>57.1</b>	<b>G</b>	<b>MR</b>

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

## 2025 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
<b>CDC Glas</b>	<b>13</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>0</b>	<b>M</b>	<b>VG</b>	<b>MR</b>	<b>MR</b>
AAC Bright (yellow seed)	7	92	95	95	96	+1	M	G	MR	MR
CDC Bethune	15	96	93	100	103	-1	M	G	MR	MR
CDC Kernen	7	99	104	102	102	+1	L	G	MR	MR
CDC Plava	5	93	97	97	94	-3	M	G	---	MR
CDC Rowland	7	102	106	103	103	+3	L	G	MR	MR
CDC Sorrel	4	91	87	95	99	0	L	G	MR	MR
<b>CDC Esme</b>	<b>6</b>	<b>102</b>	<b>103</b>	<b>99</b>	<b>105</b>	<b>+3</b>	<b>L</b>	<b>G</b>	<b>---</b>	<b>MR</b>

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

## 2025 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
<b>CDC Glas (bu/ac)</b>			<b>44</b>	<b>26</b>	<b>57</b>									
<b>CDC Glas</b>	<b>2024</b>	<b>73</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>108</b>	<b>Brown</b>	<b>M</b>	<b>62</b>	<b>G</b>	<b>MR</b>	<b>46</b>	<b>57</b>	<b>192</b>
CDC Bethune	2022	47	96	95	96	-1	Brown	M	61	G	MR	46	55	189
CDC Kernen	2024	39	101	106	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 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
<b>CDC Esme</b>	<b>2024</b>	<b>30</b>	<b>105</b>	<b>108</b>	<b>103</b>	<b>+4</b>	<b>Brown</b>	<b>L</b>	<b>61</b>	<b>G</b>	<b>NT</b>	<b>46</b>	<b>59</b>	<b>195</b>

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](http://www.secan.com)