

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

CDC Sanctuary

Flax



Adaptation:

- All flax growing areas of western Canada

Pedigree:

- CDC Bethune/FP2006

Strengths:

- Grain yield equal to CDC Bethune in all zones in the western coops
- 105% of CDC Bethune in the brown soil zones
- Resistant to flax rust and moderately resistant to fusarium wilt
- 2.4% higher linolenic acid content than CDC Bethune

Neutral Traits:

- Slightly lower oil content than CDC Bethune

Weaknesses:

- slightly weaker straw than CDC Bethune
- two days later maturing than CDC Bethune

Breeder:

Dr. Gordon Rowland
Crop Development Centre
University of Saskatchewan
Saskatoon, SK

2006 to 2008 Western Cooperative Flax Registration Trials

Variety	Yield (% Flanders)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	1000 Seed Weight (cm)	Oil Content (%)	Iodine Number	Linolenic Acid Content (%)	Protein Content (%)
Flanders	100	97.8	2.4	59.3	5.2	46.3	191.5	57.1	24.2
CDC Bethune	107	97.5	1.3	62.4	5.8	46.8	188.5	54.7	24.8
CDC Sanctuary	107	100.3	2.3	66	5.7	46.5	190.3	57.1	24.2

All Certified seed of CDC Sanctuary originates from the re-constituted Breeder seed crop certificate: #110000041503 and can be traced to this lot from every generation of production. The Breeder seed was carefully screened, and tested at every stage of production to be free of Triffid.

In addition all seed lots of re-constituted CDC Sanctuary are produced in accordance with the additional certification requirements outlined by the breeder. These additional steps include:

- 1) Extended cropping history (five years out of flax in 2012, three years out of flax in 2013).
- 2) Equipment use restrictions (in the year of production only equipment handling pedigreed flax could be used).

Re-constituted

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

2016 Seed Manitoba Flax Comparison

Variety	Site Years	Yield bu/acre	Maturity +/- 102 days	Height +/- 27 inches	Seed Size TKW	Oil Content (%)	Oil Quality		Resistance to:	
							Iodine Number	ALA Content	Lodging	Fusarium Wilt
CDC Bethune	115	34	0	0	5.8	45.6	188.6	54.7	G	MR
CDC Glas	16	35	1	1	5.2	45.8	192.0	56.6	G	MR
CDC Plava	7	34	-2	-1	5.7	46.5	195.5	57.2	G	MR
CDC Sorrel	51	34	1	1	6.4	45.1	192.7	57.8	F	MR
AC [®] Prairie Blue	68	34	1	-1	5.2	46.3	192.2	57.3	VG	MR
AC [®] Prairie Grande	40	33	-2	-4	5.8	45.6	192.9	57.5	G	MR
CDC Sanctuary	27	35	3	1	5.8	45.6	190.7	57.2	G	MR

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

2016 Saskatchewan Varieties of Grain Flax Comparison

Variety	Yield as % of CDC Bethune				Maturity	Seed Size	Resistance to:		
	Years Tested	Area 1 & 2	Area 3 & 4	Irrigation			Lodging	Powdery Mildew	Fusarium Wilt
CDC Bethune	10	100	100	100	L	M	G	MR	MR
CDC Glas	5	104	109	93	L	M	VG	MR	MR
CDC Sorrel	8	100	101	92	L	L	G	MR	MR
Hanley	4	90	90	93	M	M	G	MR	R
AC [®] Prairie Blue	4	99	92	97	L	S	VG	MR	MR
AC [®] Prairie Grande	6	92	94	92	M	M	VG	MR	MR
CDC Sanctuary	7	103	101	96	L	M	F	MR	MR

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

2016 Alberta Seed Guide Flax Comparison

Variety	Overall Yield	Years Tested	Yield Category (% CDC Bethune)				Agronomic Characteristics			
			Low <20 (bu/ac)	Medium 20-35 (bu/ac)	High 35-50 (bu/ac)	Very High >50 (bu/ac)	Maturity Rating	Seed Size	Height (cm)	Resistance to Lodging
CDC Bethune (bu/ac)	34		14	29	44	58				
CDC Bethune	100	102	100	100	100	100	L	M	58	G
CDC Glas	106+	23	XX	XX	106	XX	L	M	61	G
CDC Plava	106	17	XX	117	95	XX	M	M	52	G
CDC Sorrel	104	32	112	104	100	99	L	L	61	F
Hanley	97-	37	99	97	95	97	M	M	53	VG
AC [®] Prairie Grande	99	69	101	103	92-	99	M	M	53	G
CDC Sanctuary	105+	28	XX	100	100	108+	VL	M	64	G

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