Technical Bulletin

Genes that fit your farm.



CDC Glas Flax



Adaptation:

All flax growing areas of western Canada

Pedigree:

CDC Bethune/CDC Mons

Strengths:

- 103% grain yield of CDC Bethune across all zones in the western coops
- 105% of CDC Bethune in the black soil zone
- Resistant to flax rust and moderately resistant to fusarium wilt
- 1.9% higher linolenic acid content than CDC Bethune

Neutral Traits:

- slightly taller than CDC Bethune
- 0.5 days later maturing than CDC Bethune

Weaknesses:

 Seed and meal protein less than the check Flanders in western coop trials

Breeder:

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

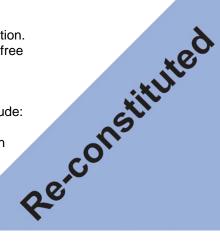
2009 to 2010 Western Cooperative Flax Registration Trials

Variety	Yield (% Flanders)	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	1000 Seed Weight (cm)	Oil Content (%)	lodine Number	Linolenic Acid Content (%)	Protein Content (%)
Flanders	100	110.2	2.8	54.6	5.8	47.0	196.4	59.4	39.1
CDC Bethune	111	110.5	2.5	58.8	6.3	47.2	192.6	56.5	39.5
CDC Glas	114	111.2	2.2	60.3	5.7	47.4	196.0	58.4	37.9

All Certified seed of CDC Glas originates from the re-constituted Breeder seed crop certificate: #110000041504 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 Glas 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).
- Equipment use restrictions (in the year of production only equipment handling pedigreed flax could be used).



2015 Seed Manitoba Flax Comparison

		_	Maturity	Height	Seed	Oil	F	o:	
	Site	Yield	+/-	+/-	Size	Content		Fusarium	Powdery
Variety	Years	bu/acre	102 days	27 inches	TKW	(%)	Lodging	Wilt	Mildew
CDC Bethune	110	34	0	0	5.8	45.6	G	MR	MR
CDC Sanctuary	23	34	3	1	5.8	45.6	G	MR	MR
CDC Sorrel	50	34	1	1	6.4	45.1	F	MR	MR
AC® Prairie Blue	68	34	1	-1	5.2	46.3	VG	MR	MR
AC® Prairie Grande	40	33	-2	-4	5.8	45.6	G	MR	MR
CDC Glas	12	35	1	1	5.2	45.8	G	MR	MR

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

2015 Saskatchewan Varieties of Grain Flax Comparison

	Yield as % of CDC Bethune						Resistance to:			
Variety	Years Tested	Area 1 & 2	Area 3 & 4	Irrigation	Maturity	Seed Size	Lodging	Powdery Mildew	Fusarium Wilt	
CDC Bethune	10	100	100	100	L	М	G MR		MR	
CDC Sanctuary	7	103	101	96	L	М	F	MR	MR	
CDC Sorrel	8	100	101	92	L	L	G	MR	MR	
Hanley	4	90	90	93	М	М	G	MR	R	
AC® Prairie Blue	4	99	92	97	L	S	VG	MR	MR	
AC® Prairie Grande	6	92	94	92	М	М	VG	MR	MR	
CDC Glas	5	103	110	93	L	M	G	MR	MR	

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

2015 Alberta Seed Guide Flax Comparison

			Yield Category (% CDC Bethune)					Agronomic Characteristics			
Variety	Overall Yield	Years Tested	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)	36		15	29	45	59					
CDC Bethune	100	123	100	100	100	100	L	M	58	VG	
CDC Sanctuary	105+	28	XX	100	100	108+	VL	M	64	G	
CDC Sorrel	104	32	112	104	100	99	L	L	61	G	
Hanley	97-	37	99	97	95	97	М	М	53	VG	
AC® Prairie Grande	98-	67	101	101	92-	99	М	М	54	VG	
CDC Glas	106+	23	XX	XX	106	XX	L	M	61	VG	

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