

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

CDC Bethune

Flax



Strengths:

- **Consistently high yield**
- 110% higher yield than Norlin in Cooperative Registration Trials (1995 to 1997 Coop Trials)
- Very strong straw, similar to McDuff in lodging resistance
- 2 days earlier than McDuff,
- More resistant to fusarium wilt than Norlin or Flanders

Neutral Traits:

- 3 cm taller than Norlin and Flanders
- Medium seed size, slightly larger than Norlin, McDuff and Flanders
- 1 day earlier than Flanders, 1 ½ days later than Norlin

Weaknesses:

- Yield similar to Norlin, McDuff and Flanders under late seeding
- Matures 4 to 5 days later than Norlin under late seeding (but 2 days earlier maturing than McDuff under late seeding)

Breeder:

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

1995 to 1997 Western Cooperative Flax Registration Trials

Entry	Yield (%) of Norlin	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	1000 Seed Wt (gm)	Oil Content (%)	Iodine Number	Protein Content (%)
Flanders	100	102.1	4.0	61.8	5.4	45.4	191.3	35.3
McDuff	101	103.4	2.3	64.7	5.7	47.7	188.7	35.7
Norlin	96	99.8	3.8	62.4	5.8	43.4	188.9	35.2
CDC Normandy	102	99.4	3.8	61.8	5.7	43.4	189.5	35.1
CDC Bethune	106	101.3	2.5	65.1	5.9	45.6	187.6	35.7

2011 Saskatchewan Varieties of Grain Flax Comparison

Variety	Years Tested	Yield as % of CDC Bethune			Maturity	Seed Size	Resistance to:		
		Areas 1&2	Areas 3&4	Irrigation			Lodging	Powdery Mildew	Fusarium Wilt
Vimy	10	94	90	85	M	L	P	P	F
CDC Sorrel	8	100	101	92	L	L	G	F	F
Hanley	4	90	90	93	M	M	G	F	G
AC® Prairie Blue	4	99	92	97	L	S	VG	F	F
AC Prairie Grande	7	92	94	92	M	M	VG	F	F
CDC Bethune	10	100	100	100	L	M	G	F	F

Maturity: M=Medium; L=Late; VL=Very Late

Seed Size: S=Small; M=Medium; L=Large

Lodging: VG=Very Good; G=Good; F=Fair; P=Poor;

Seed Manitoba 2011 Flax Comparison

Variety	Site Years	Long Term Average Yield (% of CDC Bethune)	Maturity	Height	Seed Size	% Oil	Oil Quality	Resistance to:		
								Lodging	Fusarium Wilt	Powdery Mildew
NorLin	76	91	M	M	M	43.5	M	G	MR	S
CDC Normandy	18	86	M	M	M	43.3	M	FG	MR	S
Flanders	14	91	ML	M	S	45.4	MH	FG	MR	MR
AC® Prairie Grande	36	94	ME	M	M	45.6	H	VG	MR	MR
CDC Sorrel	45	101	ML	MT	L	45.1	MH	FG	MR	MR
Hanley	70	95	ME	M	M	44.7	VH	VG	R	MR
AC® Prairie Blue	66	98	ML	MT	S	46.3	H	VG	MR	MR
CDC Bethune	121	100	ML	MT	M	45.6	L	VG	MR	MR

Maturity: ME=Medium Early; M=Medium; ML=Medium Late

Height: M=Medium; MT=Medium Tall

Lodging Resistance: VG=Very Good; G=Good; FG=Fair to Good; F=Fair

Seed Size: S=Small; M=Medium; ML=Medium Large; L=Large

Fusarium & Mildew: R=Resistant; MR=Moderately Resistant; S=Susceptible

Alberta Seed Guide 2010 Flax Comparison

Variety	Yield as % of CDC Bethune					Maturity (days)	Height (cm)	Seed Size	Lodging
	Low <20 bu/ac	Medium <20 bu/ac	High 20-35 bu/ac	Very High >50 bu/ac	All sites				
CDC Sorrel	112	107	98	98	99	1	61	L	G
Hanley	98	101	94	97	97	0	53	M	G
CDC Normandy	104	94	93	91	95	-1	58	M	F
CDC Bethune	100	100	100	100	100	0	58	M	G

*Limited data – 3 station years

XX=Insufficient data

Seed Size: M=Medium; L=Large

Lodging: G=Good; F=Fair;