

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

AC[®] Prairie Blue

Flax



Strengths:

- 99% of CDC Bethune yield in Saskatchewan areas 1 & 2
- 98% of CDC Bethune yield in Manitoba
- Better lodging resistance than CDC Bethune
- Resistance to flax rust and fusarium wilt similar to Flanders

Neutral Traits:

- Seed size slightly smaller than CDC Bethune
- High oil content and high oil quality (high iodine number)

Weaknesses:

- One day later maturing than CDC Bethune

Breeder:

Dr. Scott Duguid
AAFC Morden, Manitoba

1999 to 2001 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	101.7	2.7	61.2	5.3	45.0	190.7	42.5
Vimy	92	99.1	4.6	63.2	6.1	44.4	191.1	43.6
Prairie Blue	108	102.5	1.6	62.9	5.2	45.9	191.0	43.0

2011 Saskatchewan Varieties of Grain Flax Comparison

Variety	Years Tested	Yield as % of CDC Bethune			Resistance to:				
		Areas 1&2	Areas 3&4	Irrigation	Maturity	Seed Size	Lodging	Powdery Mildew	Fusarium Wilt
CDC Bethune	10	100	100	100	L	M	G	F	F
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 Grande	7	92	94	92	M	M	VG	F	F
AC[®] Prairie Blue	4	99	92	97	L	S	VG	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
CDC Bethune	121	100	ML	MT	M	45.6	L	VG	MR	MR
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

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 Bethune	100	100	100	100	100	0	58	M	G
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
AC[®] Prairie Blue	XX	99	XX	XX	95	1	53	S	VG

*Limited data – 3 station years

XX=Insufficient data

Seed Size: M=Medium; L=Large

Lodging: G=Good; F=Fair;