

Technical Bulletin

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SeCan

Canada's Seed Partner

AAC Prairie Sunshine Flax



Progress Through Research
Le progrès grâce à la recherche

Description:

AAC Prairie Sunshine is a high yielding brown seeded flax variety with very good lodging resistance, medium seed size and later maturity.

Adaptation:

- All flax growing areas of western Canada, especially the longer growing season areas.

Pedigree:

- FP2214/CDC Bethune

Strengths:

- 105% grain yield of CDC Bethune across all zones in the registration trials
- Very good lodging resistance
- Resistant to flax rust and moderately resistant to fusarium wilt
- Higher oil content compared to the checks

Neutral Traits:

- Iodine value similar to CDC Bethune
- Meal protein similar to CDC Bethune
- 2cm taller than CDC Bethune
- Slightly smaller seed than CDC Bethune

Weaknesses:

- 3 day later maturing than CDC Bethune

Breeder:

Dr. Scott D. Duguid
Agriculture and Agri-Food Canada
Morden, MB

PBR 91 Protected

2012 & 2013 Western Cooperative Flax Registration Trials

Variety	Yield as % CDC Bethune	Maturity (days)	Lodging 1 = erect 9 = flat	Height (cm)	1000 Seed Weight (g)	Oil Content (%)	Iodine Number	Linolenic Acid Content (%)	Seed Protein Content (%)	Meal Protein Content (%)
CDC Bethune	100	101.2	1.4	59.1	6.0	45.6	188.2	54.5	22.7	41.6
Flanders	92	101.5	1.8	56.3	5.4	45.5	191.8	57.4	22.5	41.2
AAC Prairie Sunshine	105	104.3	1.1	61.5	5.5	47.7	192.1	56.3	22.0	41.9

2021 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	6	34	+2	0	Yellow	5.6	48.8	192.1	56.2	G	MR
CDC Bethune	129	34	0	0	Brown	5.8	45.6	188.6	54.7	G	MR
CDC Buryu	18	34	+1	+3	Brown	5.9	45.3	189.9	54.6	G	MR
CDC Glas	27	36	+1	+3	Brown	5.2	45.8	192.0	56.6	G	MR
CDC Plava	21	34	-2	-3	Brown	5.7	46.5	195.5	57.2	G	MR
CDC Rowland	14	37	4	0	Brown	6.8	45.2	195.1	59.2	G	MR
CDC Sanctuary	27	35	+3	+2	Brown	5.8	45.6	190.7	57.2	G	MR
CDC Sorrel	56	35	+1	+3	Brown	6.4	45.1	192.7	57.8	F	MR
AAC Prairie Sunshine	16	34	+3	+3	Brown	5.3	47.7	192.5	56.5	VG	MR

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

2021 Saskatchewan Varieties of Grain Flax Comparison

Variety	Yield as % of CDC Bethune					Maturity	Seed Size	Resistance to:		
	Years Tested	Area 1 & 2	Area 3 South	Area 4	Irrigation			Lodging	Powdery Mildew	Fusarium Wilt
CDC Bethune	13	100	100	100	100	L	M	G	MR	MR
AAC Bright	3	98	91	95	---	L	M	G	MR	MR
CDC Buryu	5	97	105	100	88	L	M	G	MR	MR
CDC Glas	9	107	102	105	98	L	M	VG	MR	MR
CDC Plava	5	99	103	99	90	M	M	G	---	MR
CDC Rowland	4	108	109	108	102	L	L	G	MR	MR
CDC Sanctuary	5	103	91	94	95	L	M	F	MR	MR
CDC Sorrel	4	96	93	97	96	L	L	G	MR	MR
AAC Prairie Sunshine	6	103	93	97	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

2021 Alberta Seed Guide Flax Comparison

Variety	Overall Yield	Years Tested	Yield Category (% CDC Bethune)				Agronomic Characteristics				
			Low <20 (bu/ac)	Medium 20-30 (bu/ac)	High 30-37 (bu/ac)	Very High >37 (bu/ac)	Maturity Rating Days +/- CDC Bethune	Seed Colour	Seed Size	Height (cm)	Resistance to Lodging
CDC Bethune (bu/ac)	33		14	26	33	49					
CDC Bethune	100	140	100	100	100	100	107	Brown	M	59	G
AAC Bright	95	21	XX	XX	98	93	+2	Yellow	S	65	VG
CDC Buryu	100	26	97	104	99	97	+1	Brown	L	57	G
CDC Glas	107	44	109	113	107	105	+1	Brown	M	64	G
CDC Plava	101	34	98	109	101	93	-2	Brown	M	53	G
CDC Rowland	113	24	XX	XX	XX	109	+3	Brown	L	62	G
CDC Sorrel	104	32	112	104	100	99	+1	Brown	L	61	F
AAC Prairie Sunshine	99	21	XX	XX	100	96	+2	Brown	M	63	VG

Seed Size: S=Small, M=Medium, L=Large; Lodging Resistance: P=Poor, F=Fair, G=Good, VG=Very Good

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