

Technical Bulletin

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SeCan

Canada's Seed Partner

AAC Bright Yellow Flax



Progress Through Research
Le progrès grâce à la recherche

Description:

AAC Bright is a high yielding yellow seeded flax variety with very good lodging resistance, small seed size and later maturity.

Adaptation:

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

Pedigree:

- M6155/CDC Bethune

Strengths:

- 112% grain yield of AC Nugget and 94% of CDC Bethune across all zones in the western flax 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:

- Higher iodine number compared to CDC Bethune but slightly lower compared to AC Nugget
- Meal protein slightly lower than AC Nugget
- Slightly larger seed than AC Nugget

Weaknesses:

- 2 day later maturing than CDC Bethune
- AAC Bright, like most other yellow flax varieties, expresses a low percentage of brown seed that may need to be managed at processing

Breeder:

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

PBR 91 Protected



2013 & 2014 Western Cooperative Flax Registration Trials

Variety	Yield as % AC Nugget	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 (%)
AC Nugget	100	107.5	2.1	56.4	5.4	45.9	193.0	57.6	22.7	42.0
CDC Bethune	119	103.0	2.3	57.7	5.9	44.4	187.5	53.6	22.4	40.2
Linola 2047	99	105.6	2.8	57.7	5.6	44.3	184.7	51.8	23.3	41.7
AAC Bright	112	106.5	1.8	58.4	5.7	47.6	191.0	55.1	21.3	40.6

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

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 Prairie Sunshine	16	34	+3	+3	Brown	5.3	47.7	192.5	56.5	VG	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 Bright	6	34	+2	0	Yellow	5.6	48.8	192.1	56.2	G	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 Prairie Sunshine	6	103	93	97	93	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 Bright	3	98	91	95	---	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)				Maturity Rating Days +/- CDC Bethune	Agronomic Characteristics			
			Low <20 (bu/ac)	Medium 20-30 (bu/ac)	High 30-37 (bu/ac)	Very High >37 (bu/ac)		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 Prairie Sunshine	99	21	XX	XX	100	96	+2	Brown	M	63	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 Bright	95	21	XX	XX	98	93	+2	Yellow	S	65	VG

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

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