

Technical Bulletin

Genes that fit *your* farm.

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Canada's Seed Partner

CDC Boundless Yellow Field Pea



Progress Through Research
Le progrès grâce à la recherche

Description:

CDC Boundless is a high yielding yellow cotyledon field pea with high protein, medium seed weight, medium-long vine length, good standability and good resistance to seed coat breakage, dimpling and less green coloration. **CDC Boundless** is a great fit for all yellow pea growers in western Canada

Neutral Traits:

- Medium maturity, similar to CDC Amarillo
- Medium seed size similar to CDC Amarillo
- 4.0 rating for resistance to *Mycosphaerella* blight, similar to CDC Amarillo at 4.5

Strengths:

- **106%** yield of CDC Amarillo
- **Very good resistance to seed coat breakage**
- +1.1% protein compared to CDC Amarillo
- Good lodging resistance; better than CDC Amarillo and AAC Lacombe
- Medium-long vine length; slightly longer than CDC Amarillo and AAC Lacombe
- Powdery mildew resistance
- Moderate resistance rating to Fusarium wilt

Breeder: Dr Tom Warkentin and team Crop Development Centre, University of Saskatchewan Saskatoon, SK

PBR Protected



Table 1: Performance of CDC Boundless (CDC 5779-1) compared to the checks (Pea Co-op Test A, 2020-2021)

Variety	Yield (kg/ha)	Yield (% mean of checks)	Days to maturity	Vine length (cm)	Lodging (pre-harvest)	Seed wt (mg)	Shape (1-5)	Crude protein (%)	Seed Coat Breakage %
CDC Amarillo (check)	3780	100	91	71	2.9	226	2.5	22.7	16.8
AAC Lacombe (check)	3798	100	91	71	2.9	254	2.7	23.3	10.6
CDC Boundless	4012	106	91	74	2.6	226	2.6	23.8	3.3
# of locations	21		19	19	17	13	12	13	11

Lodging score: 1=upright; 9=completely lodged
Shape: 1=round; 5=cubic

Table 2: Performance of CDC Boundless (CDC 5779-1) compared to the checks (Pea Co-op Test A, 2020-2021)

Variety	Myco (0-9)	Fusarium root rot (1-7)	Powdery mildew
CDC Amarillo (check)	4.2	3.5	R
AAC Lacombe (check)	3.9	3.8	R
CDC Boundless	3.9	3.2	R
# locations	4	2	

Myco: *Mycosphaerella* blight, where 1=no disease, 9=completely blighted

Fusarium root rot, where 1 = healthy and 7 = completely decayed

Powdery mildew – R = resistant. S = susceptible

2026 Seed Manitoba

Variety	Yield % of Check AAC Carver	Site Years Tested	Relative Maturity	Relative Vine Length	Seed Size (TKW)	Resistance to:						
						Lodging	Powdery Mildew	MB ¹	Fusarium Wilt ²	Green Seed Coat ³	Seed Coat Breakage	Seed Coat Dimpling ⁴
AAC Carver	100	67	Early	L	240	G	VG	F	I	G	G	G
CDC Canuck	102	6	Long	L	240	VG	VG	F	MR	G	VG	G
CDC Hickie	98	29	Mid	M	230	VG	VG	F	MR	G	G	G
CDC Lewochko	100	48	Long	L	230	VG	VG	F	I	G	G	G
CDC Tollefson	103	29	Long	L	240	VG	VG	F	MR	G	G	G
CDC Boundless	98	15	Long	L	230	VG	VG	F	MR	G	G	G

1. Mycosphaerella Blight; 2. Varieties which show good disease tolerance to one strain of Fusarium wilt may be susceptible to other strains; 3. Green seed coats: G= 0-10%, F= 11-25%
4. Seed coat dimpling rating: VG= 0-5%, G= 6-20%, F= 21-50%

2026 Saskatchewan Seed Guide

Variety	Years Tested	Yield (% of CDC Amarillo)			Protein	Relative Maturity	Lodging ¹	Vine Length (cm)	Resistance to:						Seed Weight (g/1000)
		1, 2, & South 3	North 3 & 4	Irrigation					MB ²	Powdery Mildew	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling ³	Greenness ⁴	
CDC Amarillo (C)	16	100	100	100	23.7	M	2.9	85	3.8	R	MR	F	F	G	230
CDC Canary	10	99	100	---	-0.2	E	+0.2	85	+0.4	R	I	G	F	F	230
CDC Canuck	4	109	106	---	-0.1	M	+0.2	90	-0.4	R	MR	G	G	F	240
CDC Hickie	9	106	104	---	+0.6	M	-0.1	85	0.0	R	MR	G	G	G	230
CDC Lewochko	12	104	103	---	+0.8	M	-0.1	90	-0.2	R	I	G	G	G	230
CDC Spectrum	14	104	103	93	+0.3	M	+0.1	85	-0.2	R	I	G	G	F	240
CDC Tollefson	9	107	106	---	-0.1	M	-0.2	90	-0.1	R	MR	G	G	G	240
CDC Boundless	6	108	106	---	+0.5	M	-0.1	90	-0.1	R	MR	G	G	G	230

1. Lodging: 1= completely upright, 9= completely lodged; values are +/- CDC Amarillo; 2. Mycosphaerella Blight score (1-9): 1= no disease, 9= completely blighted, values are +/- CDC Amarillo
3. Seed coat dimpling: VG= 0-5%, G= 6-20%, F= 21-50%; 4. Green seed coats: G= 0-15%, F= 16-40%

2026 Alberta Seed Guide

Variety	Most Recent year of RVT Testing	Overall Yield	Overall Station Years of Testing	Brown - Irrigated		Brown		Black-short		Black-mid		Grey Wooded		Agronomic Characteristics:					Disease Tolerance ⁵		Tolerance to:		
				Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Yield (%)	Site Years	Protein (%)	Maturity Rating ¹	Vine Length (cm)	Seed Size (TKW)	Stand- ability ²	MB ³	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling ⁴	Green Seed Coat ⁶
CDC Amarillo (bu/ac)		74		83		63		83		70		75											
CDC Amarillo (C)	2025	100	105	100	6	100	13	100	27	100	44	100	15	23.7	M	85	230	2.9	3.8	MR	F	F	G
CDC Canary	2023	103	58	XX	3	95	7	104	14	105	23	103	13	-0.2	E	85	230	3.1	4.2	I	G	F	F
CDC Hickie	2024	101	25	XX	2	XX	2	105	6	101	10	XX	3	+0.6	M	85	230	2.8	3.8	MR	G	G	G
CDC Lewochko	2023	103	58	XX	3	98	7	104	14	104	23	103	11	+0.8	M	90	230	2.8	3.6	I	G	G	G
CDC Spectrum	2023	103	68	XX	3	94	7	105	18	105	29	105	11	+0.3	M	85	240	3.0	3.7	I	G	G	F
CDC Tollefson	2024	105	25	XX	2	XX	2	108	6	106	10	XX	5	-0.1	M	90	240	2.8	3.7	MR	G	G	G
CDC Boundless	2025	105	30	XX	3	XX	5	107	7	106	11	XX	4	0.5	M	90	230	2.8	3.7	MR	G	G	G

1. Maturity: E= Early, M= Medium, L= Late; Standability: 2. 1= completely upright, 9= completely lodging; 3. Mycosphaerella Blight: 4. 1= no disease, 9= completely blighted;
5. Seed Coat Dimpling: VG= 0-5%, G= 6-20%, F= 21-50%; 6. Disease Tolerance: I= intermediate, MR= moderately resistance, R= resistant; Green Seed Coat: G= 0-10%, F= 11-25%

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