

Technical Bulletin

Genes that fit *your* farm.



CDC Canary Yellow Field Pea



Progress Through Research
Le progrès grâce à la recherche

Description:

CDC Canary is a high yielding yellow cotyledon, semi-leafless field pea with medium vine length, good lodging tolerance and powdery mildew resistance.

Parentage: Ceb4152/1658-7

Strengths:

- 10% higher yield compared to the mean of the yellow pea checks CDC Golden and Agassiz
- Good lodging resistance, similar to Agassiz and better than CDC Golden
- Medium vine length, longer than the checks
- Powdery mildew resistant

Neutral Traits:

- Medium maturity, same as CDC Golden and 1 day earlier than Agassiz
- Medium seed size, slightly larger than CDC Golden and Agassiz

- Round seed shape, slightly blockier than the checks
- Low seed coat breakage percent, similar to the checks
- Moderate protein concentration, same as Agassiz and less than CDC Golden
- Fair mycosphaerella blight resistance; similar to the checks
- Fair Fusarium wilt resistance; similar to the checks

Breeder:

Funded by:



UNIVERSITY OF SASKATCHEWAN

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Table 1: Performance of CDC Canary compared to the checks (Pea Co-op Test B, 2013-2014)

Variety	Yield (kg/ha)	Yield (% mean of checks)	Days to maturity	Vine length (cm)	Lodging (pre-harvest)	Seed wt (mg)	Shape	Seed coat breakage (%)	Crude protein (%)
CDC Golden (check)	4472	97	97	87	4.7	210	2.5	1.5	23.7
Agassiz (check)	4797	104	98	90	4.2	223	2.6	4.6	22.7
CDC Canary	5103	110	97	95	3.9	232	3.0	2.3	22.7
CV	8.3								
LSD 05	293		.8	3.8	.5	7.7	.2	2.6	.7
# locations	22		20	16	23	19	20	4	9

Lodging score: 1=upright; 9=completely lodged

Shape: 1=round; 5=cubic

Cooking=Mattson cooking time (min);

Table 2: Disease resistance data of CDC Canary compared to the checks (Pea Co-op Test B, 2013-2014)

Variety	Myco (MB)	Myco (SK)	AUDPC-SK	Fusarium wilt (%)	Powdery mildew
CDC Golden (check)	4.8	4.2	17.3	25	0
Agassiz (check)	5.0	4.4	16.2	21	0
CDC Canary	4.9	4.4	17.5	27	0
LSD 05	1.2	1.1	1.7	18.4	0
# locations	2	2	2	2	2

Myco (MB)= Mycosphaerella blight assessed at Morden, MB (1=no disease, 9=completely blighted)

Myco (SK)= Mycosphaerella blight assessed at Saskatoon, SK.

AUDPC= Mycosphaerella blight area under the disease progress curve

Powdery mildew (0=no disease, 9=completely mildewed)

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

2023 Seed Manitoba

Variety	Yield (% of CDC Amarillo)	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
CDC Amarillo (C)	100	57	Long	M	230	VG	VG	F	G	G	F	F
CDC Athabasca	97	41	Long	L	300	VG	VG	F	G	G	F	F
CDC Hickie	103	6	Mid	M	230	VG	VG	F	G	F	G	G
CDC Lewochko	103	41	Mid	L	230	VG	VG	F	F	G	G	G
CDC Spectrum	97	41	Long	L	240	VG	VG	F	F	G	G	G
CDC Canary	98	41	Early	L	230	VG	VG	F	F	F	G	F

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%

2024 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)	14	100	100	100	23.0	M	3.5	85	4.5	R	MR	F	F	G	230
CDC Boundless	4	109	100	---	+0.8	M	3.0	90	4.5	R	MR	G	G	G	230
CDC Hickie	7	107	106	---	+0.5	M	3.5	85	4.5	R	MR	G	G	G	230
CDC Lewochko	10	104	104	---	+0.9	M	3.5	90	4.5	R	I	G	G	G	230
CDC Spectrum	12	105	103	94	+0.7	M	3.5	85	4.5	R	I	G	G	F	240
CDC Canary	10	99	100	---	+0.1	E	3.5	85	4.5	R	I	G	F	F	230

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

2024 Alberta Seed Guide

Variety	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	Yield (%)	Site Years	Protein (%)	Maturity Rating ¹	Vine Length (cm)	Seed Size (TKW)	Stand-ability ²	MB ³	Fusarium Wilt	Seed Coat Breakage
CDC Amarillo (C)	100	58	100	3	100	7	100	14	100	23	100	11	23.0	M	85		2.4	4.5	MR	F	F	G
CDC Hickie	104	16	XX	1	XX	1	XX	4	107	7	XX	3	+0.5	M	85	230	2.6	4.5	MR	G	G	G
CDC Lewochko	103	58	XX	3	98	7	104	14	104	23	103	11	+0.9	M	90	230	1.6	4.5	I	G	G	G
CDC Spectrum	103	58	XX	3	94	7	105	14	104	23	103	11	+0.7	M	85	240	2.1	4.5	I	G	G	F
CDC Canary	103	58	XX	3	95	7	104	14	105	23	103	11	+0.1	E	58	230	2.6	4.5	I	G	F	F

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

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