

Technical Bulletin

Genes that fit *your* farm.



CDC Lewochko Yellow Field Pea



Progress Through Research
Le progrès grâce à la recherche

Description:

CDC Lewochko is a mid-maturing yellow cotyledon, semi-leafless field pea with medium vine length, great lodging resistance and powdery mildew resistance.

Parentage:

Strengths:

- Good yield; similar to CDC Spectrum
- Good lodging resistance; similar to CDC Spectrum and CDC Amarillo, better than CDC Inca or CDC Meadow
- Medium-long vine length, taller than CDC Amarillo
- Powdery mildew resistance
- Improved seed characteristic package- rated good for:
 - Resistance to seed coat breakage
 - Resistance to dimpling (better than CDC Amarillo)

- Greenness (less green coloration; better than CDC Inca or CDC Spectrum)
- Shape (round)

Neutral Traits:

- Medium maturity
- Medium seed size (similar to CDC Amarillo)
- Moderate protein concentration
- Fair Mycosphaerella blight resistance (similar to CDC Amarillo, CDC Inca or CDC Spectrum)
- Fair Fusarium wilt resistance (similar to Agassiz)

Breeder:

Funded by:



UNIVERSITY OF SASKATCHEWAN
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Table 1: Performance of CDC 4061-4 compared to the checks (Pea Co-op Test A, 2014-2015)

Variety	Yield (kg/ha)	Yield (% mean of checks)	Days to maturity	Vine length (cm)	Lodging (pre-harvest)	Seed wt (mg)	Shape	Crude protein (%)
CDC Golden (check)	3144	98	93	68	4.1	213	2.5	21.2
Agassiz (check)	3282	102	94	72	3.9	229	2.9	20.8
CDC 4061-4	3728	116	97	78	3.0	231	2.5	21.0
# of locations	22		20	19	24	19	18	5

Lodging score: 1=upright; 9=completely lodged

Shape: 1=round; 5=cubic

Table 2: Disease resistance data of CDC 4061-4 compared to the checks (Pea Co-op Test A, 2014-2015)

Variety	Myco (MB)	Myco (SK)	AUDPC-SK	Fusarium wilt (%)	Powdery mildew
CDC Golden (check)	3.5	4.0	11.3	29	0
Agassiz (check)	3.2	3.3	10.3	19	0
CDC 4061-4	3.5	2.5	10.3	18	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

2025 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	50	Early	L	240	G	VG	F	I	G	G	G
CDC Boundless	97	9	Mid	L	230	VG	VG	F	MR	G	G	G
CDC Hickie	98	23	Mid	M	230	VG	VG	F	MR	G	G	G
CDC Tollefson	104	23	Long	L	240	VG	VG	F	MR	G	G	G
CDC Lewochko	100	42	Long	L	230	VG	VG	F	I	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%

2025 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)	15	100	100	100	23.8	M	2.9	85	3.9	R	MR	F	F	G	230
CDC Boundless	5	109	105	---	+0.5	M	-0.1	90	-0.1	R	MR	G	G	G	230
CDC Canary	10	99	100	---	-0.2	E	+0.2	85	+0.4	R	I	G	F	F	230
CDC Hickie	8	106	105	---	+0.6	M	-0.1	85	0.0	R	MR	G	G	G	230
CDC Spectrum	13	104	103	93	+0.3	M	0.0	85	-0.2	R	I	G	G	F	240
CDC Tollefson	8	107	106	---	-0.1	M	-0.2	90	-0.1	R	MR	G	G	G	240
CDC Lewochko	11	103	103	---	+0.7	M	-0.1	90	-0.1	R	I	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%

2025 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	Yield (%)	Site Years	Protein (%)	Maturity Rating ¹	Vine Length (cm)	Seed Size (TKW)	Standability ²	MB ³	Fusarium Wilt	Seed Coat Breakage	Seed Coat Dimpling ⁴
CDC Amarillo (bu/ac)		74		92		64		80		69		76												
CDC Amarillo (C)	2024	100	87	100	4	100	10	100	22	100	38	100	13	23.8	M	85	230	2.9	3.9	MR	F	F	G	
CDC Canary	2023	103	58	XX	3	95	7	104	14	105	23	103	13	-0.2	E	58	230	3.1	4.3	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	2.9	MR	G	G	G	
CDC Spectrum	2023	103	58	XX	3	94	7	105	14	105	27	103	11	+0.3	M	85	240	2.9	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	2.7	3.8	MR	G	G	G	
CDC Lewochko	2023	103	58	XX	3	98	7	104	14	104	23	103	11	+0.7	M	90	230	2.8	3.8	I	G	G	G	

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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