

CDC LEWOCHKO

Yellow Pea



YEAR RELEASE TO SELECT SEED GROWERS

2018

SUB-LICENSED OUTSIDE OF SK

SeCan

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No

BREEDER

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Description

CDC Lewochko is a high yielding, mid-maturing, yellow cotyledon, semi-leafless field pea variety that has very good seed characteristics. In five years of testing in the co-op and regional trials in Saskatchewan, CDC Lewochko yielded 104% of the check variety CDC Amarillo in the south and 103% in the north (Table 1). CDC Lewochko has PBR'91 protection.

Strengths

- High yield in both north and south geographies
- 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)
- Medium-long vine length, taller than CDC Amarillo
- Good lodging resistance, similar to CDC Spectrum and CDC Amarillo, better than CDC Inca or CDC Meadow
- Powdery mildew resistance

Neutral

- Medium seed size (similar to CDC Amarillo)
- Medium maturity
- Moderate protein (slightly higher than CDC Amarillo)
- Fair resistance to Mycosphaerella blight resistance and Fusarium wilt

Table 1: Agronomic Performance for CDC Lewochko from Co-op and Regional Trials in Saskatchewan

Adapted from Varieties of Grain Crops 2019

VARIETY	YEAR REGISTERED	YEARS TESTED	YIELD % AMARILLO		MATURITY	LODGING (1-9)**	VINE LENGTH (CM)	RESISTANCE TO:						SEED WEIGHT (G/1000)	PROTEIN VS. CDC AMARILLO
			1, 2, & SOUTH 3*	NORTH 3 & 4*				MYCOSPHAERELLA BLIGHT***	POWDERLY MILDEW	FUSARIUM WILT	SEED COAT BREAKAGE	SEED COAT DIMPLING****	GREENNESS*****		
CDC AMARILLO (CHECK)	2012	10	100	100	MEDIUM	3.5	85	4.5	R	MR	FAIR	FAIR	GOOD	230	23.0
ABARTH	2012	7	93	90	EARLY	3.5	75	5.0	R	I	FAIR	GOOD	GOOD	280	-0.1
AAC ARDILL	2013	7	103	99	MEDIUM	3.5	85	4.5	R	MR	GOOD	GOOD	GOOD	230	-1.9
AAC ASHER	2017	3	103	100	MEDIUM	4.5	75	4.5	R	I		FAIR	GOOD	260	-0.6
CDC ATHABASCA	2016	7	93	97	MEDIUM	3.0	85	4.5	R	I	FAIR	FAIR	GOOD	300	+0.5
CDC CANARY	2017	6	97	98	EARLY	3.5	85	4.5	R	I	GOOD	FAIR	FAIR	230	-0.1
AAC CARVER	2014	5	103	100	EARLY	4.0	85	5.0	R	I	GOOD	FAIR	GOOD	240	-1.3
AAC CHROME	2017	4	105	102	MEDIUM	4.5	75	4.5	R	I	GOOD	GOOD	GOOD	240	-1.2
CDC INCA	2015	7	104	99	MEDIUM	4.0	85	4.5	R	I	GOOD	GOOD	FAIR	230	-0.8
AAC LACOMBE	2013	6	96	99	MEDIUM	3.5	85	5.0	R	I	FAIR	FAIR	FAIR	250	-0.9
CDC LEWOCHKO	2018	5	104	103	MEDIUM	3.5	90	4.5	R	I	GOOD	GOOD	GOOD	230	+0.7
CDC MEADOW	2006	10	92	89	EARLY	4.0	85	5.0	R	I	GOOD	GOOD	GOOD	220	-0.6
AAC PROFIT	2018	3	101	110	MEDIUM	4.5	90		R	I	GOOD	GOOD	GOOD	230	+0.6
CDC SAFFRON	2011	10	98	92	EARLY	4.0	80	4.5	R	I	GOOD	FAIR	GOOD	250	-0.4
CDC SPECTRUM	2016	7	104	102	MEDIUM	3.5	85	4.5	R	I	GOOD	GOOD	FAIR	240	+0.5

Source: Varieties of Grain Crops 2019 (SaskSeed Guide)

*Area 1: Brown soil zone; Area 2: Dark brown; Area 3: Black; Area 4: Dark grey

**Lodging score: 1 = Upright; 9 = Completely lodged

***Mycosphaerella blight score: 1 = No disease, 9 = Completely blighted

****Seed coat dimpling: Very Good = 0-5%; Good = 6-20%; Fair = 21-50%

*****Greenness: Good = 0-15%; Fair = 16-40%

Table 2: Disease Resistance Data of CDC Lewochko Compared to the Checks (Pea Co-op Test A, 2014-2015)

VARIETY	MYCOSPHAERELLA BLIGHT*				FUSARIUM WILT (%)	POWDERY MILDEW***
	MB	SK	SUTH	AUDPC**		
CDC GOLDEN (CHECK)	3.5	4.0	3.2	11.3	29	0.0
AGASSIZ (CHECK)	3.2	3.3	3.0	10.3	19	0.0
CDC LEWOCHKO	3.5	2.5	3.0	10.3	18	0.0
# Locations	2	2	2	2	2	2

Source: CDC Pulse Breeding Group, U of S

*Assessed at Morden (MB), Saskatoon (SK), and Sutherland (Suth) where 1 = No disease, 9 = Completely blighted

**AUDPC = mycosphaerella blight area under the disease progress curve assessed at Morden

***Powdery mildew: 0 = No disease, 9 = Completely mildewed

Figure 1. Seed samples from the 2015 Pea Co-op Test A of CDC Lewochko and check varieties Agassiz and CDC Golden



CDC Lewochko



Agassiz



CDC Golden