



## CDC Rider Variety Description

May, 2023

### Market Class: Green Pea

Year Released to Select Seed Growers: 2022

Sub-licensed Outside of SK: Pending

International Distribution Rights: No

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

Plant Breeders Rights: Applied

### Description

CDC Rider (4506-4) is a mid-maturing high-yielding green pea. In testing in the Co-op and regional trials in Saskatchewan, it yielded 101% in the south and 98% in the north vs. the check variety CDC Amarillo (Table 1). It has very good standability, slightly better than CDC Limerick and CDC Raezer. Protein is similar to CDC Amarillo check and CDC Forest. It has improved resistance to fusarium root rot vs. CDC Limerick, CDC Spruce, and CDC Forest and improved resistance to mycosphaerella blight compared to CDC Forest, CDC Raezer and CDC Spruce. It has good seed characteristics with round seed shape similar to CDC Limerick and rounder than CDC Greenwater. It is rated good for resistance to seed coat breakage, dimpling and bleaching. CDC Rider is showing improved lodging and disease package compared to CDC Forest while maintaining top yields for green peas.

### Strengths

- High yield particularly in the brown, dark brown, and south black soil zone regions
- Good seed characteristic package – rated good for:
  - Resistance to seed coat breakage;
  - Resistance to dimpling;
  - Bleaching;
- Round seed shape – similar to CDC Limerick, rounder than CDC Greenwater
- Good lodging resistance; better than CDC Limerick, similar to CDC Greenwater
- Rated moderately resistant to Fusarium root rot – better than CDC Forest, CDC Limerick, or CDC Spruce
- Improved resistance to mycosphaerella blight – better than CDC Forest, CDC Raezer, or CDC Spruce
- Powdery mildew resistance

### Neutral

- Medium maturity
- Medium-long vine length
- Medium seed weight, similar to CDC Amarillo
- Medium protein concentration, similar to CDC Amarillo and CDC Forest

**Table 1: Performance data from the Co-op and Regional Variety trials for green pea candidate variety CDC Rider vs. the check variety CDC Amarillo and top performing green pea varieties**

VARIETY	YEAR OF RELEASE/ REGISTRATION	YIELD % AMARILLO		RELATIVE MATURITY	LODGING (1-9)**	RESISTANCE TO:					SEED WEIGHT (G/1000)
		SOUTH*	NORTH*			MYCOSPHAERELLA BLIGHT***	FUSARIUM ROOT ROT	SEED COAT BREAKAGE	SEED COAT DIMPLING****	BLEACHING	
CDC FOREST	2017	101	102	MEDIUM	4.0	4.5	I	GOOD	GOOD	GOOD	230
CDC GREENWATER	2014	99	93	MEDIUM	3.5	4.0	MR	FAIR	FAIR	GOOD	230
CDC LIMERICK	2012	96	91	MEDIUM	3.5	4.0	I	GOOD	GOOD	GOOD	210

CDC RAEZER	2011	82	80	EARLY	3.5	5.0	MR	GOOD	GOOD	GOOD	220
CDC SPRUCE	2016	96	98	MEDIUM	4.0	4.5	I	FAIR	FAIR	GOOD	240
CDC RIDER	2022	101	98	MEDIUM	3.0	4.0	MR	GOOD	GOOD	GOOD	220

Source: Varieties of Grain Crops ([SaskSeed Guide](#)) and Crop Development Centre, U of S

\*South: Brown, Dark brown, and south Black soil zone; North: north Black soil zone and Dark grey soil zone

\*\*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%



**UNIVERSITY OF SASKATCHEWAN**

**Crop Development Centre**

**COLLEGE OF AGRICULTURE AND BIORESOURCES**

**AGBIO.USASK.CA**