

# CDC GREENWATER

Green Pea



## YEAR RELEASE TO SELECT SEED GROWERS

2014

## SUB-LICENSED OUTSIDE OF SK

No

## INTERNATIONAL DISTRIBUTION RIGHTS

Canterra Seeds Ltd.  
/Meridian Seeds

## BREEDER

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

## PLANT BREEDERS RIGHTS

No

## Description

CDC Greenwater is a green cotyledon, semi-leafless field pea variety. CDC Greenwater has long vine length and very good lodging resistance. In nine years of testing in the Saskatchewan co-op and regional trials, CDC Greenwater yielded 99% of CDC Amarillo in the south and 92% in the north (Table 1). CDC Greenwater does not have PBR protection.

## Strengths

- Good yield (similar to CDC Amarillo)
- Medium-long vine length
- Good lodging resistance, similar to CDC Amarillo
- Moderately resistant to Fusarium wilt
- Powdery mildew resistance

## Neutral

- Good bleaching resistance
- Medium maturity
- Round seed shape
- Intense green cotyledon color
- Medium seed weight
- Moderate cooking time
- Fair resistance to Mycosphaerella blight

## Weaknesses

- Rated 'fair' for seed coat breakage and dimpling
- Protein lower than CDC Amarillo

**Table 1: Agronomic Performance for CDC Greenwater 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***	POWDERY MILDEW	FUSARIUM WILT	SEED COAT BREAKAGE	SEED COAT DIMPLING****	BLEACHING		
CDC AMARILLO (CHECK)	2012	10	100	100	MEDIUM	3.5	85	4.5	R	MR	FAIR	FAIR	n/a	230	23.0
BLUEMAN	2018	3	91	88	MEDIUM	4.5	85	4.5	R	I	n/a	GOOD	FAIR	220	+0.3
AAC COMFORT	2016	4	90	99	MEDIUM	4.5	85	4.5	R	I	GOOD	GOOD	GOOD	250	-0.4
COOPER	2004	8	89	80	MEDIUM	4.0	80	5.0	R	I	FAIR	GOOD	FAIR	270	+0.9
CDC FOREST	2017	6	100	101	MEDIUM	4.0	85	4.5	R	I	GOOD	GOOD	GOOD	230	-0.2
<b>CDC GREENWATER</b>	<b>2014</b>	<b>9</b>	<b>99</b>	<b>92</b>	<b>MEDIUM</b>	<b>3.5</b>	<b>90</b>	<b>4.0</b>	<b>R</b>	<b>MR</b>	<b>FAIR</b>	<b>FAIR</b>	<b>GOOD</b>	<b>230</b>	<b>-1.1</b>
CDC LIMERICK	2012	10	95	90	MEDIUM	3.5	85	4.0	R	I	GOOD	GOOD	GOOD	210	+2.8
CDC PATRICK	2008	10	87	86	MEDIUM	4.5	80	4.5	R	MR	GOOD	GOOD	GOOD	190	-1.0
CDC PLUTO	2010	8	92	84	MEDIUM	5.5	80	4.5	R	I	GOOD	GOOD	GOOD	160	-0.2
AAC RADIUS	2014	6	77	77	MEDIUM	5.0	85	4.5	R	I	VERY GOOD	GOOD	GOOD	230	+0.5
CDC RAEZER	2011	10	81	80	EARLY	3.5	85	5.0	R	MR	GOOD	GOOD	GOOD	220	-0.3
AAC ROYCE	2014	5	92	84	MEDIUM	5.0	70	5.0	R	I	FAIR	FAIR	GOOD	260	+0.4
CDC SAGE	2005	5	73	71	MEDIUM	4.0	80	5.0	R	MR	GOOD	FAIR	GOOD	220	n/a
CDC SPRUCE	2016	7	94	99	MEDIUM	4.0	85	4.5	R	I	FAIR	FAIR	GOOD	240	+0.1
CDC STRIKER	2002	10	81	80	MEDIUM	3.5	80	4.5	S	MR	VERY GOOD	GOOD	GOOD	240	+2.0

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%

**Table 2: Disease Resistance Data of CDC Greenwater Compared to the Checks (Pea Co-op Test A, 2010-2011)**

VARIETY	MYCOSPHAERELLA BLIGHT*			FUSARIUM WILT (%)	POWDERY MILDEW***
	MB	SK	AUDPC**		
CDC STRIKER (CHECK)	5.0	5.7	14.7	7.2	6.5
COOPER (CHECK)	4.7	5.2	13.7	23.4	0.0
<b>CDC GREENWATER</b>	<b>5.4</b>	<b>5.2</b>	<b>15.0</b>	<b>8.4</b>	<b>0.0</b>
# Locations	2	2	2	2	2

Source: CDC Pulse Breeding Group, U of S

\*Assessed at Morden (MB) and Saskatoon (SK) 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

For more information, visit [saskpulse.com](http://saskpulse.com)