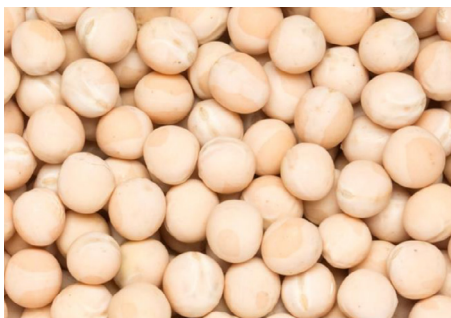


CDC SPECTRUM

Yellow Pea



**YEAR RELEASE TO
SELECT SEED GROWERS**
2016

SUB-LICENSED OUTSIDE OF SK
SeCan

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Canterra Seeds Ltd.
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BREEDER
Dr. Tom Warkentin
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Description

CDC Spectrum was tested for two years in the field pea co-op registration test "B" in 2012-2013. In these trials, the yield was 111% of the mean of the yellow pea check varieties CDC Golden and Agassiz (Table 2). In seven years of testing in the co-op and regional trials in Saskatchewan (Table 1), CDC Spectrum yielded 4% higher than the check variety CDC Amarillo in the southern regions, and 2% higher in the north. CDC Spectrum has PBR'91 protection.

Strengths

- High yield
- Medium vine length
- Powdery mildew resistance

Neutral

- Low seed coat breakage percent
- Medium seed size
- Round seed shape
- Medium maturity
- Moderate protein (slightly higher than CDC Amarillo)
- Moderate cooking time
- Fair resistance to Mycosphaerella blight resistance and Fusarium wilt

Table 1: Agronomic Performance for CDC Spectrum 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: Performance of CDC Spectrum Compared to the Checks (Pea Co-op Test B, 2012-2013)

VARIETY	YIELD (KG/HA)	YIELD (% MEAN OF CHECKS)	DAYS TO MATURITY	VINE LENGTH (CM)	LODGING (PRE-HARVEST)*	SEED WEIGHT (MG)	SEED SHAPE**	SEED COAT BREAKAGE (%)	CRUDE PROTEIN (%)	COOKING TIME (MIN)***
CDC GOLDEN (CHECK)	4743	95	96	85	5.0	206	2.5	1	24.7	10.8
AGASSIZ (CHECK)	5196	105	98	87	4.4	219	2.5	5	23.8	10.1
CDC SPECTRUM	5501	111	100	90	3.2	232	2.5	2	23.9	14.3
CV	8.3									
LSD 05	266		1.1	3.7	0.4	6.3	0.1	4.2	0.6	2.9
# Locations	21		19	16	21	21	21	7	11	2

Source: CDC Pulse Breeding Group, U of S

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

**Seed shape: 1 = Round; 5 = Cubic

***Cooking time = Mattson cooking time (min)

Figure 1. Seed from the 2013 Pea Co-op Test B at Saskatoon of CDC Spectrum and check varieties Agassiz and CDC Golden



CDC Spectrum

Agassiz

CDC Golden