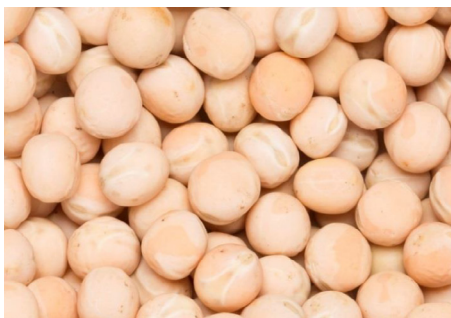


# CDC ATHABASCA

Yellow Pea



**YEAR RELEASE TO  
SELECT SEED GROWERS**  
2016

**SUB-LICENSED OUTSIDE OF SK**  
SeCan

**INTERNATIONAL DISTRIBUTION  
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Canterra Seeds Ltd.  
/Meridian Seeds

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

**PLANT BREEDERS RIGHTS**



## Description

CDC Athabasca is a large seeded yellow pea variety. In two years of testing in the field pea co-op registration trials in 2012-2013, CDC Athabasca yielded 107% of the check varieties CDC Golden and Agassiz (Table 2). The agronomic performance over seven years of testing in the co-op and regional trials in Saskatchewan is shown in Table 1. CDC Athabasca has PBR'91 protection.

## Strengths

- Jumbo seed size
- Very good lodging resistance
- Medium vine length
- Powdery mildew resistance

## Neutral

- Moderate yield relative to CDC Amarillo
- Medium maturity
- Round seed shape
- Moderate protein concentration (better than CDC Amarillo)
- Moderate cooking time
- Fair resistance to Mycosphaerella blight and Fusarium wilt

## Weaknesses

- Rated 'fair' for seed coat breakage

**Table 1: Agronomic Performance for CDC Athabasca 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
<b>CDC ATHABASCA</b>	<b>2016</b>	<b>7</b>	<b>93</b>	<b>97</b>	<b>MEDIUM</b>	<b>3.0</b>	<b>85</b>	<b>4.5</b>	<b>R</b>	<b>I</b>	<b>FAIR</b>	<b>FAIR</b>	<b>GOOD</b>	<b>300</b>	<b>+0.5</b>
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 Athabasca Compared to the Checks (Pea Co-op Test A, 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)	4604	96	96	83	4.4	206	2.5	1	25.0	16.8
AGASSIZ (CHECK)	5023	104	98	86	4.0	223	2.6	6	23.9	12.3
<b>CDC ATHABASCA</b>	<b>5140</b>	<b>107</b>	<b>99</b>	<b>93</b>	<b>3.0</b>	<b>291</b>	<b>2.8</b>	<b>6</b>	<b>24.4</b>	<b>14.1</b>
CV	8.5									
LSD 05	259		0.74	3.2	0.45	6.4			0.6	6.5
# Locations	21		19	17	21	21	21	7	11	2

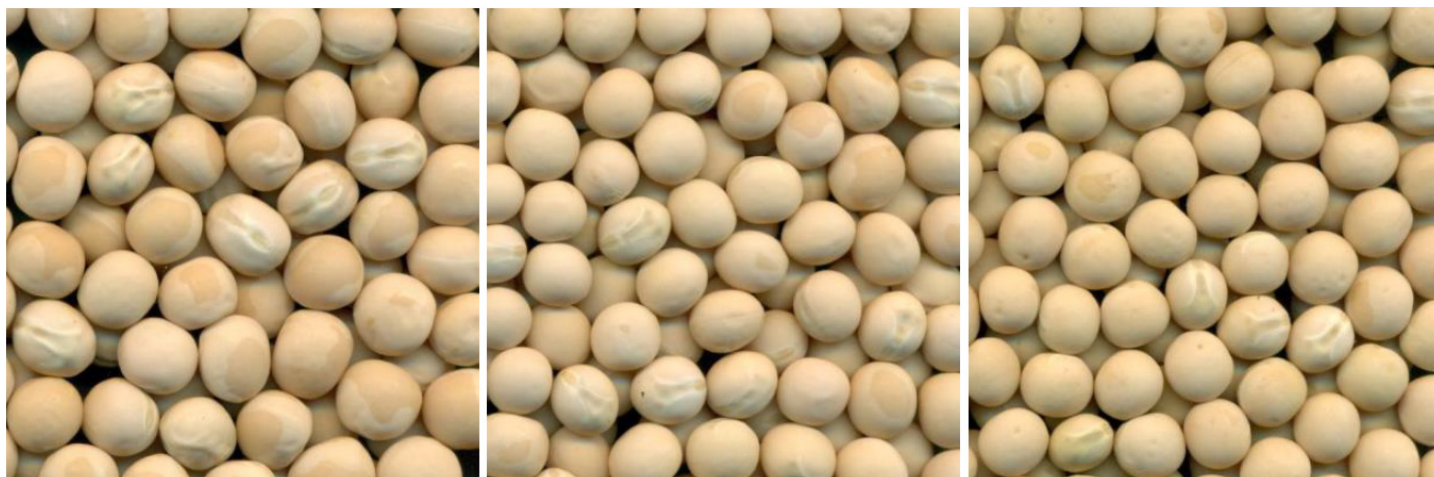
Source: CDC Pulse Breeding Group, U of S

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

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

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

**Figure 1. Scans of seed samples from the 2013 Pea Co-op Test B at Saskatoon of CDC Athabasca and check varieties Agassiz and CDC Golden**



CDC Athabasca

Agassiz

CDC Golden