

CDC INCA

Yellow Pea



**YEAR RELEASE TO
SELECT SEED GROWERS**
2015

SUB-LICENSED OUTSIDE OF SK
SeedNet

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BREEDER
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Description

CDC Inca was tested for two years in the field pea co-op registration test "B" in 2011-2012. In these trials, the yield was 114% 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 Inca yielded 104% compared to CDC Amarillo in the southern regions and 99% in the north. In the 2016 Manitoba field pea variety trials, CDC Inca was the highest yielding yellow pea. In the 2016 Alberta Performance Trials, CDC Inca yielded 104% of CDC Amarillo. CDC Canary has PBR'91 protection.

Strengths

- High yield, particularly in the south
- Good resistance to seed coat breakage
- Medium vine length
- Powdery mildew resistance

Neutral

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

Table 1: Agronomic Performance for CDC Inca 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 Inca Compared to the Checks (Pea Co-op Test B, 2011-2012)

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)	4024	94	97	80	4.6	199	2.4	1	24.5	11.1
AGASSIZ (CHECK)	4528	106	99	85	4.4	212	2.6	4	23.8	10.6
CDC INCA	4895	114	99	90	3.6	213	2.5	2	22.8	19.7
CV	8.1									
LSD 05	239		0.9	2.9	0.5	5.4	0.1	1.3	0.6	12.0
# Locations	19		17	18	18	18	18	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)

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