

CDC AMARILLO

Yellow Pea



**YEAR RELEASE TO
SELECT SEED GROWERS**
2012

SUB-LICENSED OUTSIDE OF SK
No

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Canterra Seeds Ltd.
/Meridian Seeds

BREEDER
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PLANT BREEDERS RIGHTS
No

Description

In two years of testing in the field pea co-op registration trials in 2009–2010, CDC Amarillo yielded 110% of the check varieties CDC Golden and Cutlass (Table 2). As a result of this strong performance, CDC Amarillo was designated the official check variety in 2017. The agronomic performance over 10 years of testing in the co-op and regional trials in Saskatchewan is shown in Table 1. CDC Amarillo does not have PBR protection.

Strengths

- Good yield
- Good lodging resistance
- Medium vine length
- Powdery mildew resistance

Neutral

- Medium maturity
- Medium seed weight
- Round seed shape
- Moderate cooking time
- Fair *Mycosphaerella* blight resistance
- Moderately resistant to *Fusarium* wilt

Weaknesses

- Rated 'fair' for seed coat breakage
- Moderate protein concentration

Table 1: Agronomic Performance for CDC Amarillo 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: Agronomic Performance of CDC Amarillo Compared to the Checks (Pea Co-op Test A, 2009-2010)

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)***
CUTLASS (CHECK)	5271	100	104	77	4.0	221	2.7	6.3	23.4	46.8
CDC GOLDEN (CHECK)	5311	100	102	77	4.1	214	2.7	3.3	24.2	30.3
CDC AMARILLO	5812	110	105	86	2.8	233	2.9	6.8	22.7	46.3
CV	9									
LSD 05	301		0.9	2.8	0.6	6.9	0.3	5.2	0.6	26.4
# Locations	20		20	20	20	20	20	8	12	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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