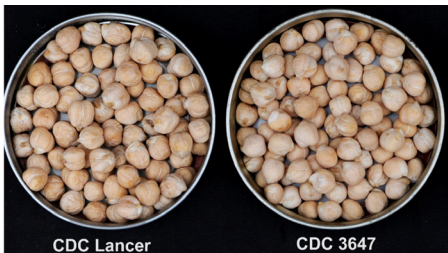


CDC PEARL

Kabuli Chickpea



YEAR RELEASED TO SELECT SEED GROWERS

2021

SUB-LICENSED OUTSIDE OF SK

Pending

INTERNATIONAL DISTRIBUTION RIGHTS

Not Assigned

BREEDER

Dr. Bunyamin Tar'an
Crop Development Centre
University of Saskatchewan
Saskatoon, SK

PLANT BREEDERS RIGHTS

Applied

Description

Kabuli chickpea variety CDC Pearl is a smaller seeded kabuli chickpea with improved resistance to *Ascochyta* blight and imazamox herbicide tolerance (Solo ADV as per PMRA label registration). In 2 years of head-to-head testing in the regional chickpea trials (2019 - 2020), compared to the check "Amit", CDC Pearl yielded 104% in both the brown and dark brown soil zones (Table 1). This is lower than the recent kabuli varieties CDC Lancer and CDC Orkney, however the main advantage of Pearl is its improved disease resistance. This variety also has earlier maturity compared to CDC Leader and CDC Orion. Seed size is smaller than other kabuli varieties making seeding more economical. Application for PBR'91 protection for CDC Pearl has been submitted.

Strengths

- Herbicide tolerance (imazamox)
- Improved resistance to *Ascochyta* blight
- Earlier maturity vs. CDC Leader

Neutral

- Similar agronomic and maturity characteristics compared to CDC Palmer and CDC Orkney

Weaknesses

- Lower yield than CDC Lancer

Table 1: Agronomic Performance for Kabuli Chickpea CDC Pearl vs. Other Kabuli Chickpea Varieties
(yield data represents 2 years of head-to-head data from the 2019-2020 Chickpea Regional Trial in Western Canada)

VARIETY	YEAR OF RELEASE	PBR STATUS	TYPE	YIELD % AMIT		ASCOCHYTA BLIGHT RATING**	DAYS TO MATURITY	DAYS TO FLOWER	HEIGHT (CM)	RVT SEED WEIGHT (G/1000)	2020 BREEDER SEED (G/1000)	HERBICIDE TOLERANCE: SOLO® ADV (IMAZAMOX)
				AREA 1*	AREA 2*							
AMIT (B-90) CHECK	non VRP	PBR '78	KABULI	100	100	4.4	108	55	49	246	N/A	NO
CDC FRONTIER (95NN29)	2003	-	KABULI	107	111	4.6	111	55	45	332	-	NO
CDC ORION (491-5)	2010	-	KABULI	76	72	6.7	111	51	45	395	-	NO
CDC LEADER (493-24)	2011	-	KABULI	102	92	5.3	109	57	39	370	-	NO
CDC PALMER (1041-3)	2014	PBR '91	KABULI	107	93	5.5	108	52	42	399	-	NO
CDC LANCER (3662)	2019	APPLIED	KABULI	107	106	5.0	106	53	45	346	367	YES
CDC ORKNEY (1748-1)	2020	APPLIED	KABULI	108	106	5.1	108	53	48	359	361	YES
CDC PASQUA NEW	2021	APPLIED	KABULI	91	84	5.1	109	53	49	406	423	YES
CDC PEARL NEW	2021	APPLIED	KABULI	104	104	4.7	107	52	48	287	328	YES

Source of Yield Data: : 2019 - 2020 Chickpea Regional Trials in Western Canada

Source of Agronomic & Disease Ratings: Varieties of Grain Crops 2021 (SaskSeed Guide)

*Area 1: Brown soil zone; Area 2: Dark brown

**Ascochyta Blight rating: where 0 = no disease; 9 = completely blighted