

CDC ORKNEY

Kabuli Chickpea



**YEAR RELEASED TO
SELECT SEED GROWERS**
2020

SUB-LICENSED OUTSIDE OF SK
Pending

**INTERNATIONAL DISTRIBUTION
RIGHTS**
Not assigned

BREEDER
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PLANT BREEDERS RIGHTS
Applied

Description

Kabuli chickpea variety CDC Orkney (1748-1) is a high-yielding kabuli chickpea. In 2 years of head-to-head testing in the Chickpea Regional Variety Trials (2019 - 2020), CDC Orkney yielded 108% and 106% of the check variety Amit in the brown and dark brown soil zones respectively (Table 1). In the head-to-head comparison, it yielded similar to CDC Palmer and 6% higher than CDC Leader. CDC Orkney matures 1 day earlier than CDC Leader and has the advantage of imazamox herbicide tolerance (Solo ADV as per PMRA label registration). This variety has improved resistance to Ascochyta blight vs. CDC Leader. Seed size is smaller than CDC Palmer or CDC Leader. Application for PBR'91 protection for CDC Orkney has been submitted.

Strengths

- Herbicide tolerance (imazamox)
- High yielding herbicide tolerant Kabuli chickpea

Neutral

- Similar agronomic and maturity characteristics compared to CDC Palmer and CDC Leader
- Similar disease resistance as CDC Leader

Weaknesses

- Smaller seed size than CDC Palmer

Table 1: Kabuli Chickpea Agronomic Performance Data (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)	SEED WEIGHT (G/1000)	HERBICIDE TOLERANCE: SOLO® ADV (IMAZAMOX)
				AREA 1*	AREA 2*						
AMIT (B-90) CHECK	-	PBR '78	KABULI	100	100	4.4	108	55	49	246	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	93	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	YES
CDC ORKNEY (1748-1)	2020	APPLIED	KABULI	108	106	5.1	108	53	48	359	YES
CDC 3647	2021	APPLIED	KABULI	104	104	4.7	107	52	48	287	YES
CDC 3652	2021	APPLIED	KABULI	91	84	5.1	109	53	49	406	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