



CDC Proclaim (CL[®]) Variety Description

May, 2023

Market Class: Small Red Lentil

Year Released to Select Seed Growers: 2014

Sub-licensed Outside of SK: SeedNet

International Distribution Rights: Pulse USA

Breeder: Dr. Albert Vandenberg, Crop Development Centre, University of Saskatchewan, Saskatoon, SK

Plant Breeders Rights:



CL (Clearfield[®]) is a Trademark of BASF Inc.

Description

CDC Proclaim is a high yielding Clearfield[®] small red lentil that is well-adapted to Saskatchewan. In 10 years of testing in the Co-op and Regional trials in Saskatchewan, CDC Proclaim yielded 105% of CDC Maxim in the brown and dark brown soil zones and 100% in the black and dark gray zones (Table 1). Seed coat colour, cotyledon colour, flowering time, maturity, plant height and seed weight are similar to CDC Maxim. Seed diameter is slightly less than that of CDC Maxim but seed thickness is much higher. Seeds of CDC Proclaim are plumper, therefore more suitable for lentil dehulling. CDC Proclaim is also tolerant to the imidazolinone herbicides imazethapyr and imazamox. CDC Proclaim has PBR'91 protection.

Strengths

- Imidazolinone tolerance
- Seed thickness is greater than CDC Maxim
- Taller than CDC Maxim
- Higher yield compared to CDC Maxim

Neutral

- Similar maturity and height as CDC Maxim
- Good resistance to Ascochyta and Anthracnose (same as CDC Maxim)

Table 1: Agronomic Performance for Small Red Lentils from Co-op and Regional Trials in Saskatchewan

VARIETY	HERBICIDE TOLERANCE	YEAR OF RELEASE	YEARS TESTED	YIELD % OF CDC MAXIM		DISEASE RESISTANCE**		DAYS TO FLOWER	HEIGHT (CM)	MATURITY RATING	SEED WEIGHT (G/1000)
				AREA 1-2*	AREA 3-4*	ASCOCHYTA	ANTHRACNOSE (RACE 1)				
CDC	CL	2007	14	100	100	MR	MR	51	34	EARLY-MID	40

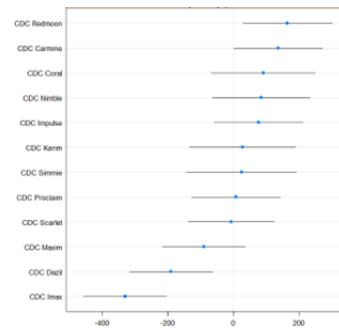
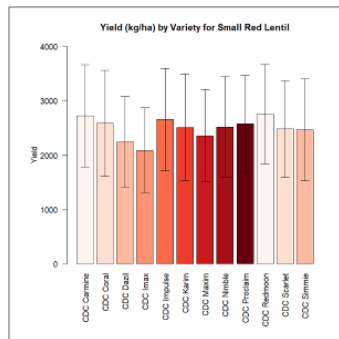
MAXIM												
CDC DAZIL	CL	2010	12	92	33	MR	I	53	33	EARLY-MID	35	
CDC IMPULSE	CL	2014	11	107	100	MR	MR	52	37	EARLY-MID	44	
CDC PROCLAIM	CL	2014	10	105	100	MR	MR	51	34	EARLY-MID	40	
CDC SIMMIE	CL	2019	6	109	103	MR	MR	53	34	EARLY-MID	39	
CDC NIMBLE	CL	2019	7	109	107	MR	MR	52	35	EARLY-MID	38	
CDC REDMOON	NO	2015	10	114	104	MR	MR	52	33	EARLY-MID	41	
CDC CORAL	NO	2016	7	110	103	MR	MR	55	33	EARLY-MID	37	
CDC CARMINE	NO	2016	10	111	106	MR	MR	54	34	EARLY-MID	40	

Source: Varieties of Grain Crops ([SaskSeed Guide](#))

*Area 1: Brown soil zone; Area 2: Dark brown; Area 3: Black; Area 4: Dark grey

**Resistance Ratings: R = Resistant; MR = Moderately resistant; I = Intermediate; S = Susceptible

Figure 1. Long term yield (left) and relative yield ranking (right) of small red lentil varieties from 10 years of RVT data in SK



UNIVERSITY OF SASKATCHEWAN

Crop Development Centre

COLLEGE OF AGRICULTURE AND BIORESOURCES

AGBIO.USASK.CA