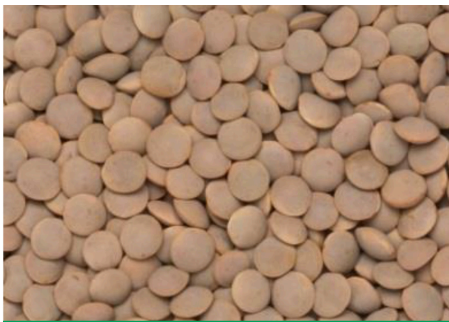


CDC PROCLAIM CL[®]

Small Red Lentil



**YEAR RELEASE 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 eight years of testing in the co-op and regional trials in Saskatchewan, CDC Proclaim yielded 105% of CDC Maxim in the south and 102% in the north (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 (Table 2). 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
- Higher yield compared to CDC Maxim
- Taller than 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 MAXIM	CL	2007	12	100	100	GOOD	GOOD	51	34	EARLY-MID	40
CDC IMPULSE	CL	2014	9	108	95	GOOD	GOOD	52	37	EARLY-MID	44
CDC NIMBLE	CL	2019	5	108	108	GOOD	GOOD	52	35	EARLY-MID	38
CDC REDMOON	NO	2015	8	114	106	GOOD	GOOD	52	33	EARLY-MID	41
CDC CORAL	NO	2016	5	110	106	GOOD	GOOD	55	33	EARLY-MID	37
CDC CARMINE	NO	2016	8	111	106	GOOD	GOOD	54	34	EARLY-MID	40
CDC PROCLAIM	CL	2014	8	105	102	GOOD	GOOD	51	34	EARLY-MID	40

Source: Varieties of Grain Crops 2019 (SaskSeed Guide)

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

Table 2: Three Year Seed Size Summary for CDC Proclaim in the 2011-2013 Lentil Registration Recommendation Trial in Western Canada (6 sites)

VARIETY	SEED THICKNESS DISTRIBUTION (% SEED OVER):										
	ROUND HOLE SCREEN (MM)					SLOTTED SCREEN (MM)					
	5.2 > 13/64	4.8 > 12/64	4.4 > 11/64	4.0 > 10/64	3.6 > 9/64	3.0 > 7.5/64	2.8 > 7.0/64	2.6 > 6.5/64	2.4 > 6.0/64	2.2 > 5.5/65	2.0 > 5.0/64
CDC MAXIM	15	52	28	4	0	1	6	25	44	21	3
CDC PROCLAIM	12	53	31	4	0	3	13	33	41	9	0

Table 3: Three Year Disease Summary for CDC Proclaim CL in the 2011-2013 Lentil Registration Recommendation Trial "C" in Western Canada

VARIETY	MARKET CLASS	ASCOCHYTA BLIGHT (%)	ANTHRACNOSE*		
		2011 INDOOR TEST	2011 INDOOR TEST	2012 FIELD TEST	2013 FIELD TEST
CDC MAXIM	SMALL RED	9.4	4.7	3.3	3.0
CDC IMPROVE	LARGE GREEN	29.7	4.9	4.5	2.3
CDC PROCLAIM	SMALL RED	13.4	4.7	3.3	2.8

Source: CDC Pulse breeding group, U of S

*Anthracnose rating: 0 - 5, where 0 = no disease