

Technical Bulletin

Genes that fit *your* farm.



CDC Lima CL[®] Large Green Lentil



Progress Through Research
Le progrès grâce à la recherche

Description:

CDC Lima CL[®] is an Imidazolinone tolerant large green lentil variety with higher yield and seed thickness compared to CDC Improve and CDC Impower

Strengths:

- Imidazolinone tolerance
- Seed thickness greater than that of CDC Improve and CDC Impower
- High yield compared to CDC Improve and CDC Impower
- Improved lodging resistance over CDC Improve and CDC Impower



CL (Clearfield) is a Trademark of BASF Inc

Neutral Traits:

- Similar agronomic and maturity characteristics compared to CDC Improve and CDC Impower
- Similar disease resistance as CDC Improve and CDC Impower

Weaknesses

- Slightly shorter than CDC Improve and CDC Impower; more similar to CDC Maxim

Breeder:

Funded by:



UNIVERSITY OF SASKATCHEWAN
Crop Development Centre
COLLEGE OF AGRICULTURE AND BIORESOURCES
AGBIO.USASK.CA



Table 1: Agronomic performance of IBC-937 in the 2013 Lentil Registration Recommendation Trial (RRT) in Western Canada

Market class	Line	[8] Yield			[5] Days to flower	[3] Days to mature	[2] Lodging (1-5)	[4] Plant height (cm)	[6] Seed weight g/1000
		kg/ha	% of Maxim	% of Improve					
SR	CDC Maxim	2958	100	124	53	99	1.4	41	42
LG	CDC Improve	2379	80	100	54	99	2.6	44	73
LG	IBC-937	2709	92	114	51	100	2.1	42	73

Market Class: SR-small red; SG - small green; MR - medium red LG= large green

[] indicates number of sites

Table 2: Agronomic performance summary of IBC-937 in the 2014-2015 Lentil Registration Recommendation Trial (RRT) in Western Canada

Market class	Line	[18] Yield			[11] Days to flower	[10] Days to mature	[9] Lodging (1-5)	[8] Plant height (cm)	[10] Seed weight g/1000
		kg/ha	% of Maxim	% of Impower					
SR	CDC Maxim	2031	100	119	55	97	1.8	38	40
LG	CDC Impower	1707	84	100	57	99	2.9	43	69
LG	IBC-937	1887	93	111	55	100	2.4	58	74

Market Class: SR-small red; SG - small green; MR - medium red LG=large green

[] indicates number of sites

For more information, call 1-800-665-7333 or visit www.secan.com

Table 3: Agronomic performance summary of IBC-937 in the 2015-2017 Lentil Regional Variety Trial (RVT)

Market class	Line	[29] Yield			[8]	[10]	[10]	[10]	[11]
		kg/ha	% of Maxim	% of Impower	Days to flower	Days to mature	Lodging (1-5)	Plant height (cm)	Seed weight g/1000
SR	CDC Maxim	2261	100	145	55	96	1.6	36	38
LG	CDC Impower	1556	69	100	57	97	3.0	39	63
LG	IBC-937	1827	81	117	55	97	2.2	35	68

Market Class: SR-small red; SG - small green; MR - medium red
 [] indicates number of sites

2020 Seed Manitoba

Variety	Maturity Rating	Yield % of Check	Site Years Tested	Cotyledon Colour	Seed Wt (TKW) Grams	Resistance Level		2019 Yield: % of CDC Maxim	
						Ascochyta Blight	Anthracnose Race 1	Hamiota	Melita
CDC Maxim (C)	Early/Medium	100	22	Red	40	G	G	100	100
CDC Impower (CL)	Medium	70	14	Yellow	74	G	P	69	84
CDC Lima (CL)	Early/Medium	85	2	Yellow	74	G	P	78	92

2020 SaskSeed Guide

Variety	Herbicide Tolerance ¹	Years Tested ²	Yield (% of CDC Maxim)		Height (cm)	Days to Flower	Maturity Rating ³	Resistance to:		Seed Coat Colour	Cotyledon Colour	Seed Weight (g/1000)
			Area 1 & 2	Area 3 & 4				Ascochyta Blight	Anthracnose Race 1			
CDC Maxim (check)	CL	13	100	100	34	51	E/M	G	G	Gray	Red	40
CDC Impower	CL	11	82	67	41	52	M/L	G	VP	Green	Yellow	74
CDC Lima	CL	7	92	85	35	51	M/L	G	VP	Green	Yellow	74

1. CL indicates Clearfield tolerant variety
2. Co-op and Regional Trials in SK since 2006. Comparisons to the check variety, small red lentil CDC Maxim.
3. Maturity ratings: normal maturity range in days based on May 1 seeding E=100, VL=110 but maturity can be much earlier in dry years, much later in cool wet years.

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