

Technical Bulletin

Genes that fit *your* farm.

SeCan

Canada's Seed Partner

CDC Coral (4371-4) Small Red Lentil

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Progress Through Research
Le progrès grâce à la recherche

Description:

CDC Coral is a small red cotyledon lentil with higher grain yield and improved lodging compared to the check CDC Maxim.

Parentage: LC03600417P x CDC Redberry

Strengths:

- Seed type suitable for the small red lentil market
- High yield, 110% of the yield of CDC Maxim
- Improved lodging compared to CDC Maxim

Neutral Traits:

- Maturity similar to CDC Maxim
- Later Flowering compared to CDC Maxim
- Disease ratings similar CDC Maxim
- Seed appearance similar to CDC Maxim
- Seed diameter and thickness slightly less than CDC Maxim

Weaknesses

- Not tolerant to imidazolinone herbicides

Breeder:

Funded by:



UNIVERSITY OF SASKATCHEWAN

Crop Development Centre

COLLEGE OF AGRICULTURE AND BIORESOURCES
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Table 1: Two year summary of agronomic performance for CDC Coral in the 2012-2013 Lentil Registration Recommendation Trial "A" in Western Canada

Market class	Line	[19] Yield		[11]	[7]	[4]	[9]	[12]
		kg/ha	% of Maxim	Days to flower	Days to mature	Lodging (1-5)	Plant height (cm)	Seed weight g/1000
SR	CDC Maxim	2291	100	58	95	2.6	46	41
SR	CDC Coral	2520	110	62	95	2.3	45	38

Market Class: SR - small red

[] indicates number of sites

Table 2: Two year disease summary for CDC Coral

Line	2012		2013				
	Field	Indoor	AB Indoor		AN Indoor		AN Field
	AN (0-5)	AB (%)	Test 1 (%)	Test 2 (%)	Rep 1 (0-10)	Rep 2 (0-10)	(0-5)
CDC Maxim	3.0	40.0	27.5	33.8	4.1	3.0	2.3
CDC Rosetown	2.5	42.5	36.9	38.8	0.5	0.7	1.5
CDC Coral	2.3	37.5	24.4	36.9	3.6	3.0	2.3

AB = Ascochyta Blight, AN = Anthracnose

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

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Table 3: Two year seed size summary for CDC Coral in the 2012-2013 Lentil Registration Recommendation Trial "A" in Western Canada

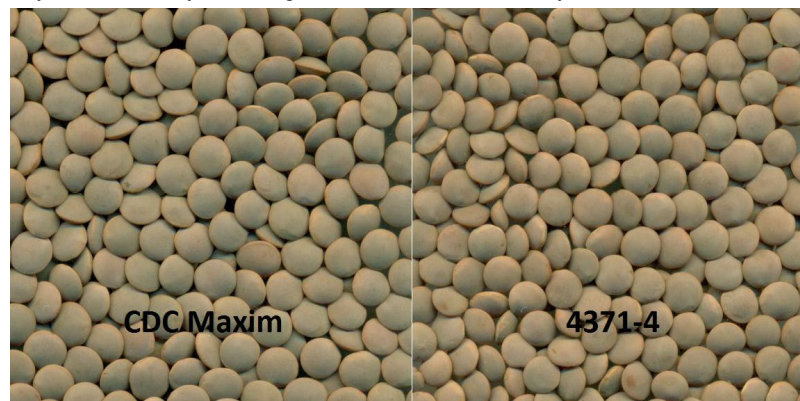
Market class	Line	[4] % Seed over											
		Round hole screen						Slotted screen					
		5.6 mm >14/64	5.2 mm >13/64	4.8 mm >12/64	4.4 mm >11/64	4.0 mm >10/64	3.6 mm >9/64	3.0 mm >7.5/64	2.8 mm >7.0/64	2.6 mm >6.5/64	2.4 mm >6.0/64	2.2 mm >5.5/65	2.0 mm >5.0/64
SR	CDC Maxim	1	22	52	21	3	0	1	5	25	49	18	2
ESR	CDC Rosetown	0	0	10	54	30	5	0	0	1	18	60	21
SR	CDC Coral	0	6	38	42	13	2	0	3	19	50	26	2

Market Class: SR - small red; ESR – extra small red

2021 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	Cotyled on Colour	Seed Weight (g/1000)
			Area 1 & 2	Area 3 & 4				Ascochyta Blight	Anthracnose Race 1			
CDC Maxim (C)	CL	14	100	100	34	51	E/M	MR	MR	Gray	Red	40
CDC Impulse	CL	11	107	100	37	52	E/M	MR	MR	Gray	Red	44
CDC Redmoon		10	114	104	33	52	E/M	MR	MR	Gray	Red	41
CDC Roxy		10	103	97	34	53	E/M	MR	MR	Gray	Red	32
CDC Carmine		10	111	106	34	54	E/M	MR	MR	Gray	Red	40
CDC Imp	CL	7	95	93	35	52	E/M	MR	MR	Gray	Red	30
CDC Coral		7	110	103	33	55	E/M	MR	MR	Gray	Red	37

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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