

Technical Bulletin

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SeCan

Canada's Seed Partner

CDC Redmoon Small Red Lentil



Progress Through Research
Le progrès grâce à la recherche

Description:

CDC Redmoon is a small red cotyledon lentil with higher grain yield than the check CDC Maxim. CDC Redmoon also has a thicker seed than CDC Maxim.

Parentage: MO20/1664S-4//CDC Redberry

Strengths:

- Seed type suitable for the small red lentil market
- High yield, 108% of the yield of CDC Maxim
- Thicker seed than CDC Maxim

Neutral Traits:

- Maturity, flowering and lodging resistance similar to CDC Maxim
- Disease ratings similar 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 Redmoon in the 2011-2012 Lentil Registration Recommendation Trial "A" in Western Canada

Market class	Line	[19] Yield		[11]	[12]	[5]	[10]	[13]
		kg/ha	% of Maxim	Days to flower	Days to mature	Lodging (1-5)	Plant height (cm)	Seed weight g/1000
SR	CDC Maxim	2107	100	53	97	2.3	46	39
ESR	CDC Rosetown	2027	96	55	97	2.5	47	31
SR	CDC Redmoon	2272	108	54	96	2.3	45	40

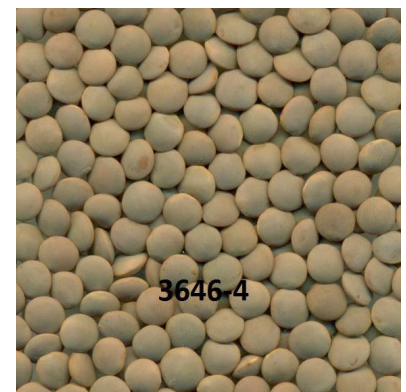
Market Class: SR - small red; ESR - extra small red

[] indicates number of sites

Table 2: Two year disease summary for CDC Redmoon

Line	Indoor Disease Score					Field Disease
	2011		2012			2012
	AN (0-5)	AB (%)	AN Rep 1 (0-10)	AN Rep 2 (0-10)	AB (%)	AN (0-5)
CDC Maxim	4.7	6.4	3.9	4.1	40.0	3.0
CDC Rosetown	1.4	17.2	0.9	1.1	42.5	2.5
CDC Redmoon	4.6	12.3	4.0	3.9	43.8	2.3

AB = Ascochyta Blight, AN = Anthracnose



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

Table 3: Two year seed size summary for CDC Redmoon in the 2011-2012 Lentil Registration Recommendation Trial "A" in Western Canada

Line	% 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
CDC Maxim	1	20	47	26	4	1	1	7	30	41	18	3
CDC Rosetown	0	1	11	57	25	6	0	0	1	24	54	20
CDC Redmoon	0	12	47	29	8	3	3	16	35	33	11	2

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	Cotyledon 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 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 Coral		7	110	103	33	55	E/M	MR	MR	Gray	Red	37
CDC Imp	CL	7	95	93	35	52	E/M	MR	MR	Gray	Red	30
CDC Redmoon		10	114	104	33	52	E/M	MR	MR	Gray	Red	41

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.