

Technical Bulletin

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SeCan

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CDC Carmine (3674-15) Small Red Lentil



Progress Through Research
Le progrès grâce à la recherche

Description:

CDC Carmine is a small red cotyledon lentil with higher grain yield and greater seed thickness compared to the check CDC Maxim.

Weaknesses

- Not tolerant to imidazolinone herbicides

Parentage: CDC Viceroy/1439S-3//CDC Redberry

Strengths:

- Seed type suitable for the small red lentil market
- High yield, 106% of the yield of CDC Maxim
- Seed thickness is greater than CDC Maxim

Breeder:

Funded by:



UNIVERSITY OF SASKATCHEWAN

Crop Development Centre

COLLEGE OF AGRICULTURE AND BIORESOURCES
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Neutral Traits:

- Similar agronomic, maturity and disease resistance characteristics compared to CDC Maxim

Table 1: Two year summary of agronomic performance for CDC 3674-15 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	36
SR	CDC Carmine	2229	106	56	97	2.0	46	39

Market Class: SR - small red

[] indicates number of sites

Table 2: Two year disease summary for CDC 3674-15

Line	2011		2012			
	Indoor	Indoor	AN Indoor		AB Indoor	AN Field
	AN (0-5)	AB (%)	Rep 1 (0-10)	Rep 2 (0-10)	%	(0-5)
CDC Maxim	4.7	6.4	3.9	4.1	40.0	3.0
CDC Carmine	4.3	9.5	3.6	4.1	30.0	2.8

AB = Ascochyta Blight, AN = Anthracnose

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	Anthraco nose 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 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 Carmine		10	111	106	34	54	E/M	MR	MR	Gray	Red	40

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.

Figure 1. Direct comparison of CDC Carmine and CDC Maxim:

