

MEMORANDUM

TO: Prairie Recommending Committee for Pulse and Special Crops
FROM: T.D. Warkentin, J. Horner, B. Barlow, K. Mikituk, C. Breitzkreutz, A. Weerasinghe, D. de Silva, T. Gela, K.K. Gali, G. Arganosa, K. Bett, S. Banniza, and B. Tar'an
Crop Development Centre, 51 Campus Drive
University of Saskatchewan
Saskatoon, Saskatchewan S7N 5A8
DATE: February 11, 2026
SUBJECT: **Request for support for registration of green cotyledon field pea variety CDC 7078-2**

Strengths

- Improved yield (103%) compared to the mean of the green checks, CDC Forest and CDC Limerick
- Good lodging resistance, better than the checks
- Moderately resistant to mycosphaerella blight, better than CDC Limerick, similar to CDC Forest

Neutral traits

- Medium maturity, similar to the checks
- Medium vine length, similar to the checks
- Medium seed weight, slightly greater than CDC Limerick, slightly less than CDC Forest
- Round seed shape, similar to CDC Limerick, rounder than CDC Forest
- Low seed coat breakage score, similar to CDC Forest, higher than CDC Limerick
- Good bleaching resistance, similar to CDC Limerick, better than CDC Forest
- Good green seed intensity, similar to CDC Limerick, better than CDC Forest
- Powdery mildew resistance, same as the checks
- Moderate Fusarium root rot resistance, similar to the checks

Limitations

- Medium seed protein concentration, less than that of the checks CDC Forest and CDC Limerick

Description

Green cotyledon, semileafless field pea variety CDC 7078-2 was tested in the Field Pea Co-operative Registration Test-B in 2024 and 2025. Performance data for CDC 7078-2 are summarized in accompanying Table 1. Seed photos for CDC 7078-2 and check varieties are in Fig 1.

Table 1. Performance of green pea variety CDC 7078-2 compared to the checks (Pea Co-op Test-B, 2024-2025)

Variety	Yield				Seed									
	kg/ha	% of green	DTM	VLTH	PHL (1-9)	Weight (g/1000)	Shape (1-5)	Bleach (1-5)	GCI (1-5)	Protein (%)	Myco (0-9)	SCB (%)	FRR (1-7)	PM
CDC Limerick	3370	96	95	77	3.7	207	2.3	2.5	2.5	26.2	4.28	1.9	5.10	R
CDC Forest	3620	104	96	78	3.4	230	3.0	2.9	3.2	24.2	4.03	3.1	4.95	R
CDC 7078-2	3593	103	96	78	2.6	217	2.5	2.6	2.6	23.1	3.55	4.8	4.85	R
CV	7.6		1.2	5.6	28.3	4.6	9.9	10.5	10.3	3.4	23.0	71.8	11.7	Na
LSD	183.2		0.8	2.8	0.6	9.0	0.2	0.2	0.2	0.5	0.71	1.9	0.56	Na

Yield: % of green = percent yield of the average yield of green checks;

DTM = Days to maturity; VLTH = Vine length (cm); PHL = Pre-harvest lodging score (1=upright, 9=flat);

Shape: 1=round, 5=blocky; Bleach: 1=no bleach, 5=completely bleached;

GCI: green colour intensity: 1=intense, 5=not intense

SCB=seed coat breakage

Myco: mycosphaerella blight, where 0=no disease, 9=completely blighted

FRR: Fusarium root rot where 1=no disease, 7=dead, PM: powdery mildew where R=resistant, S=susceptible

[X] number of locations

Fig. 1. Scans of seed samples from the 2025 Pea Co-op Test-B at Saskatoon (Sutherland) of CDC 7078-2 and check varieties CDC Limerick and CDC Forest.

