



Carmichaelia hollowayi

Common Name(s):

Holloways broom

Current Threat Status (2012):

Threatened - Nationally Critical

Distribution:

Endemic. South Island, where it is only known from limestone outcrops on the south bank of the Waitaki River.

Habitat:

Limestone bluffs, outcrops, colluvium and their associated rendzina soils.

Features*:

Dwarf, suckering broom, up to 0.5 x 1(-2) m. Branches 10-30 mm diam., stout, horizontal, spreading, cladodes virtually leafless, 50-80(-100) x 3.5 mm, erect to spreading, yellow-green, apex rounded, never sharp-tipped. Leaves when present, simple, 4.5-12.5 x 1.8-4.5 mm, obovate to oblanceolate, green. Inflorescence a (1-)2-3-flowered raceme, flowers dark purple. Standard 7-8 x 7-8 mm, broad-orbicular, erect, purple or red-purple, margins white. Wings 5.5-6.5 x 2.5-3 mm, oblong, white, purple veined, keel 5 x 3.5 mm, distally tinged purple otherwise white or purple-veined. Pods long persistent, 8-11 x 4.8-6 mm, broad elliptic, laterally compressed, valves very flat. Seeds 2.5-2.9 x 2.4-2.6 mm, reniform, 1(-2) per pod, yellow-green or green with black mottling.

Flowering:

November - December

Fruiting:

January - May

Threats:

There are less than 250 adult plants in the wild found in three populations. Because the species suckers, exact numbers of adult plants cannot be determined and it is likely than there are far fewer than currently believed. Although two of the three known populations occur on protected or covenanted land, the species remains at serious risk at all sites from browsing animals and from competition by tall grasses, shrubs and hawkweeds. Aside from these issues recruitment failure (in part linked to weed control) seems to be critical problem.

*Attribution:

Fact sheet prepared for NZPCN by P.J. de Lange 1 October 2003. Description adapted from Heenan (1995) - see also de Lange et al. (2010).

References and further reading:

de Lange, P.J.; Heenan, P.B.; Norton, D.A.; Rolfe, J.R.; Sawyer, J.W.D. 2010: Threatened Plants of New Zealand. Christchurch, Canterbury University Press. 471pp.

Heenan, P. B. 1995: A taxonomic revision of *Carmichaelia* (Fabaceae-Galegeae) in New Zealand (part I). *New Zealand Journal of Botany* 33: 455-475.

Thorsen, M. J.; Dickinson, K. J. M.; Seddon, P. J. 2009. Seed dispersal systems in the New Zealand flora. *Perspectives in Plant Ecology, Evolution and Systematics* 2009 Vol. 11 No. 4 pp. 285-309

For more information, visit:

http://nzpcn.org.nz/flora_details.asp?ID=7



Caption: In flower

Photographer: John Barkla



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