



Carmichaelia stevensonii

Common Name(s):

weeping tree broom, cord broom

Current Threat Status (2012):

Threatened - Nationally Endangered

Distribution:

Confined to inland river valleys of South Marlborough.

Habitat:

In low scrub or sparsely vegetated sites overlying free draining colluvial or alluvial soil, rockland, and steep mountain slopes.

Features*:

Leafless tree to 8-10 m tall with stout, sparingly branching trunk to 400 mm diameter and compact canopy of drooping, pendulous branchlets. Branches stout, initially erect soon drooping; grey-brown when mature, with relatively smooth bark and conspicuous raised rings at nodes; actively growing branches yellowish-grey to yellow-green with dark orange striae; bark chartaceous.

Branchlets numerous, pendulous, striate, deeply grooved, subterete to 2 mm diameter yellowish-grey to grey-green. Stipules clasping shoot, 0.5 × 0.3 mm, elongate-triangular, pointed, tomentose on undersides, chartaceous, eventually fraying off with age. Leaves early deciduous, simple, emarginate, alternate, initially folded along midrib but gradually expanding and increasing in size to c.9 × 6 mm, sparsely hairy on upper surface, more densely so on undersides; petioles hairy, fleshy, ± cylindrical, to 3 mm long. Leaves reduced to scales on mature shoots. Inflorescences in simple, lateral, pendulous compact, densely-flowered racemes up to 100 mm long; racemes solitary or in fascicles on peduncles arising directly from nodes on mature branchlets, mostly drooping. Occasionally erect or with the tips ascending. Flowers c.9 × 6 mm; pale lavender, with darker veins and markings. Peduncles pilose; pedicels c.0.5-0.9 mm long, pilose, arising in axils of peduncle scales. Rim and outer surface of calyx tube pilose. Petals whitish with intense lavender or violet markings towards base of standard and keel; veins of all petals dark lavender; standard orbicular, longer than wings, with margins reflexed; wings dolabriform, falcate, obtuse < keel, keel incurved, obtuse, ± the same length as the standard. Ovary sericeous; style long, slender, incurved, glabrate; stigma glabrous; ovules c.5. Pod turgid, rhomboid to suborbicular; immature pods grey-green, style often long-persistent, breaking off near its base leaving a stout, blunt, slightly upturned beak c.1 mm long; mature pod subcoriaceous, stramineous, densely hairy, obliquely obovate, 6 × 3-4 mm including beak; the withered calyx, corolla and stamens remaining long-attached to the pod base. Seeds reniform, oblong or triangular, 1-3 per pod, yellow-green, dark yellow, brown, orange, orange-brown or red-brown, spotted grey brown, red-brown or black, rarely unspotted, 1.7-2.0 mm.

Flowering:

December - January

Fruiting:

March - May

Threats:

Under serious threat from browsing animals such as wild goats. At some lower altitude sites little regeneration is happening due to introduced grasses which outcompete seedlings and colonise fresh disturbed ground in which seedlings would normally germinate. Recent field surveys suggest this species is much more threatened than had previously been believed.

*Attribution:

Description based on fresh flowering material and herbarium specimens.

References and further reading:

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=153



Caption: in cultivation
Photographer: Jesse Bythell



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