

# Carex maorica

## COMMON NAME

Māori sedge

## SYNONYMS

*Carex fascicularis* Boott var. *minor* Boott; *Carex forsteri* Wahl. var. *minor* (Boott) Hook.f.

## FAMILY

Cyperaceae

## AUTHORITY

*Carex maorica* Hamlin

## FLORA CATEGORY

Vascular – Native

## ENDEMIC TAXON

Yes

## ENDEMIC GENUS

No

## ENDEMIC FAMILY

No

## STRUCTURAL CLASS

Sedges

## NVS CODE

CARMAO

## CHROMOSOME NUMBER

$2n = c.72-76$

## CURRENT CONSERVATION STATUS

2017 | Not Threatened

## PREVIOUS CONSERVATION STATUSES

2012 | Not Threatened

2009 | Not Threatened

2004 | Not Threatened

## DISTRIBUTION

Endemic. New Zealand: North and South Islands. In the North Island uncommon in the east from East Cape to the Wairarapa otherwise widespread. In the South Island apparently absent from Southland and Fiordland

## HABITAT

Coastal to lowland in freshwater wetlands, under willow in gully systems, along river and stream banks, lake margins, and in damp seepages, pond margins and clearings within forest. Preferring fertile to mid-fertile wetlands.

## WETLAND PLANT INDICATOR STATUS RATING

OBL: Obligate Wetland

Almost always is a hydrophyte, rarely in uplands (non-wetlands).



Taken in Coromandel, January. Photographer: John Smith-Dodsworth, Licence: CC BY-NC.



Atiwhakatu Valley, Wairarapa. Photographer: Jeremy R. Rolfe, Date taken: 02/02/2008, Licence: CC BY.

## DETAILED DESCRIPTION

Light green to yellow-green tufted sedge. **Culms** 150–700 × 1.0–2.5 mm., trigonous, smooth or faintly scabrid below inflorescence; basal sheaths light to dark grey, often red-tinged. **Leaves** > culms, to 1 m long, 2–7 mm wide, double-folded, cross-veinlets ± prominent, keel and margins minutely scabrid. **Inflorescence** of 2–5 close-set, sessile, usually erect, occasionally spreading spikes, or the lowest 1–2 rather distant and shortly pedunculate; terminal spike male; remaining spikes female, usually > and overtopping male spike, 20–60 × 7–12 mm, crowded at same level round base of male spike. **Glumes** usually much < utricles, 1–2 mm long, narrowly ovate-lanceolate, margin of upper part fimbriate or lacerate, hyaline with a green midrib produced to a scabrid awn 1–3 mm long, up to 6 mm long in lowermost glumes. **Utricles** 4.0–5.5–(6.0) × 1.0–1.5 mm., plano-convex or biconvex, turgid, ovate or lanceolate, spreading when ripe, shining light green to light brown with numerous distinct white nerves, very slightly tapered above to a beak 1.5–2.0 mm long, with bifid, glabrous orifice, crura c. ⅓ length of entire beak; stipe narrow, c. 0.5 mm long. **Stigmas** 3. **Nut** c. 1.5 mm. long, triquetrous, ellipsoid, cream or light brown.

## SIMILAR TAXA

*Carex maorica* is easily recognised by its slender culms; pale green to yellow green wide leaves; prominent cross-veinlets on sheaths and leaves; and mostly clustered spikelets, and short glumes with lacerate or fimbriate margins; and by the submembranous, strongly nerved, glabrous, spreading utricles. There are only two other carices in New Zealand with cross-veinlets, the indigenous *C. fascicularis* Boott and naturalised *C. lurida* Wahlenberg. *Carex fascicularis* differs from *C. maorica* by the female spikes mostly distant to ± approximate (but then never clustered at one level round base of male spike). *Carex lurida* is a much larger sedge than either species (up to 2.5 m tall) and has utricles 6–9 × 2–4 rather than 4–6 × 1.0–1.5 mm

## FLOWERING

October—December

## FRUITING

November—May

## LIFE CYCLE

Nuts surrounded by inflated utricles are dispersed by granivory and wind (Thorsen et al., 2009).

## PROPAGATION TECHNIQUE

Easily grown from fresh seed and by the division of established plants. Although a wetland species *C. maorica* will grow well in most soils and moisture regimes. Does best in full sun.

## ETYMOLOGY

**carex**: Latin name for a species of sedge, now applied to the whole group.

## ATTRIBUTION

Fact sheet prepared by P.J. de Lange (12 August 2006). Description adapted from Moore and Edgar (1970).

## REFERENCES AND FURTHER READING

Moore LB, Edgar E. 1970. Flora of New Zealand, Volume II. Indigenous Tracheophyta: Monocotyledones except Gramineae. Government Printer, Wellington, NZ. 354 p.

Thorsen MJ, Dickinson KJM, Seddon PJ. 2009. Seed dispersal systems in the New Zealand flora. *Perspectives in Plant Ecology, Evolution and Systematics* 11: 285–309.

## NZPCN FACT SHEET CITATION

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## MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/carex-maorica/>