

Lepidium naufragorum

BIOSTATUS

Native – Endemic taxon

CURRENT CONSERVATION STATUS

2023 | Threatened – Nationally Vulnerable | Qualifiers: CD, DPS, DPT, RR

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CATEGORY

Vascular

STRUCTURAL CLASS

Herbs - Dicotyledons other than Composites

FLOWER COLOURS

Green, White

DETAILED DESCRIPTION

Stout perennial herb. Stems 150-600 mm long, glabrous, ascending to erect or decumbent, usually dying back to ground during winter, very rarely rooting at nodes and persisting for a second or third season. Rosette and lower stem leaves 60-120(-180) x 15-30 mm, bright grass-green to dark green or yellow-green, narrow-oblong, narrow-oblongate, usually pinnatifid through sometimes all simple and sharply serrate, glabrous, rather fleshy, pinnae 3-7 pairs, sharply toothed at apex and distal margins. Middle stem leaves similar through trending to shallow pinnatifid or sharply serrate. Upper stem leaves 10-50 x 2-10 mm, narrow-obovate to linear-oblongate, pinnatifid to simply, sharply toothed at apex, and/or pinnae apices if present, cuneate at base. Racemes 30-120 mm, terminal and axillary; rachis glabrous or sparsely hairy; pedicels 3-5 mm long at fruiting, sparsely hairy, erecto-patent. Flowers c.3 mm diameter. Sepals 1 x 1 mm, glabrous or sparsely hairy, often mixed within the same flower, green with scarious margins. Petals white, slightly longer than sepals, spreading, clawed; limb obovate, emarginate. Stamens 4, equal. Nectaries 4, 0.25 mm long. subulate. Silicles 2.8-4 x 2.3-3.2 mm; yellow-green, bright green to dark green, broadly elliptic; style 0.1-0.2 mm, persistent. free from narrow wing, equal or exceeding the shallow notch; stigma 0.4 mm diameter; valves glabrous. Seed 1.7-2 mm, obovoid, orange-brown, not winged, distinctly mucilaginous when wet.

SIMILAR TAXA

Lepidium naufragorum was initially regarded as part of the natural variation seen in *L. flexicaule* Kirk, however, its usually erect rather than decumbent trailing stems, sharply serrated pinnate to simple leaves, much longer, less obviously leaf-opposed racemes, larger flowers with clawed emarginate petals longer than the sepals, 4 rather than 2 stamens, large nectaries and narrower, longer silicles readily distinguish it from *L. flexicaule*. DNA sequences (nrDNA and cpDNA) suggest *L. naufragorum* has a hybrid origin and that this may not have involved *L. flexicaule*.

DISTRIBUTION

Known from nine sites; abundant at two (Taumaka and Popotai, Open Bay Islands) but uncommon to very uncommon at the others (perhaps 5000 plants in total).



In cultivation. Photographer: John Barkla, Licence: CC BY.



Mature and developing silicles. In cultivation. Photographer: Jeremy R. Rolfe, Date taken: 28/02/2009, Licence: CC BY.

HABITAT

Strictly coastal (0-20 m a.s.l.), on rock stacks, offshore islands, boulder beaches, cliff faces and rock ledges, and in or near seal haul outs and sea bird roosts and nesting grounds. Usually found in sites free from taller vegetation, and evidently requiring frequent disturbance to maintain a healthy population structure.

THREATS

This species was formally described in 1995, although it was collected several times prior to its formal recognition. This species reaches its greatest abundance on the Open Bay Islands. The majority of *Lepidium naufragorum* populations are subject to yearly monitoring to ascertain population health and trends.

GENUS

Lepidium

FAMILY

Brassicaceae

AUTHORITY

Lepidium naufragorum Garn.-Jones et D.A.Norton

SYNONYMS

None

TAXONOMIC NOTES

Has many features suggestive of a hybrid origin between a rosette forming, pinnatifid-leaved species and a leafy species.

ENDEMIC TAXON

Yes

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

FLOWERING

September - April

FRUITING

October - May

LIFE CYCLE AND DISPERSAL

Mucilaginous seeds are dispersed by attachment and possibly wind and water (Thorsen et al., 2009).

PROPAGATION TECHNIQUE

Easily grown from fresh seed. The pinnatifid form (which is the more commonly seen type in cultivation) is rather attractive, though like all New Zealand lepidia this species is very prone to *Albugo candida* (J.F.Gmel.) Kuntze infections which soon disfigure and in some cases kill plants. Like the other lepidia species the leaves of this plant are edible and make an excellent addition to any summer salad.

ETYMOLOGY

lepidium: Scale-shaped (pods)

CHROMOSOME NUMBER

$2n = c.144$

PREVIOUS CONSERVATION STATUSES

2017 | Threatened – Nationally Vulnerable | Qualifiers: CD, RR

2012 | Threatened – Nationally Vulnerable | Qualifiers: CD, RR

2009 | Threatened – Nationally Vulnerable | Qualifiers: CD, RR

2004 | Sparse

[Jump to current conservation status](#)

REFERENCES AND FURTHER READING

Norton, D.A. and P.J. de Lange. 1999. Coastal cress (Nau) recovery plan. Threatened Species Recovery Plan 26. [Department of Conservation](#)

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 11: 285-309

ATTRIBUTION

Fact sheet prepared by P.J. de Lange for NZPCN (1 June 2013)

NZPCN FACT SHEET CITATION

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<https://www.nzpcn.org.nz/flora/species/lepidium-naufragorum/> (Date website was queried)

MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/lepidium-naufragorum/>

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27 May 2026