

Lepidium oleraceum

COMMON NAMES

nau, Cook's scurvy grass

BIOSTATUS

Native – Endemic taxon

CURRENT CONSERVATION STATUS

2023 | Threatened – Nationally Endangered | Qualifiers: Sp, CD, DPT, RR

[Jump to previous conservation statuses](#)

CATEGORY

Vascular

STRUCTURAL CLASS

Herbs - Dicotyledons other than Composites

FLOWER COLOURS

White, Yellow

DETAILED DESCRIPTION

Glabrous, much-branched, perennial, herb up to 1 x 1 m, usually less. All parts strongly pungent when bruised. Stems erect to decumbent, stout, somewhat woody near base, flexuous. Petioles winged of variable length. Leaves 20-100 x 15-40 mm, decreasing in size toward stem apices, dark green to green, fleshy, somewhat succulent, narrow-oblongate, obovate to elliptic, margins, deeply and evenly serrated, cuneately narrowed at base. Inflorescences racemose, terminal and lateral, usually leaf-opposed 30-150 mm at fruiting; pedicels erecto-patent, 3-10 mm long at fruiting. Flowers fragrant. Sepals 1-2 x 0.5-1 mm. Petals white, 2.5-3.5 x 0.5-2 mm, obovate-spathulate. Stamens 4, yellow. Silicles 3-5 x 2.5-5 mm, broadly ovate, truncate at base, apex acute, not winged; style 0.1-0.2 mm; seeds 1.5-2 mm, ovoid, orange-brown

SIMILAR TAXA

Distinguished from all other indigenous and exotic *Lepidium* species by the glabrous stems, persistent, toothed, stem leaves, glabrous pedicels, flowers with four stamens and by the acute silicles which lack a marginal wing.

DISTRIBUTION

Endemic. New Zealand, Kermadec Island group, Three Kings Island group, North, South, Stewart Islands and the Bounty Islands group.

HABITAT

Now strictly coastal, *L. oleraceum* is usually found in friable well manured soils, guano deposits, or rock crevices associated with seabird roosts and nesting sites. Occasionally it grows under taller vegetation, and then usually near petrel or shear water burrows. The species is now mainly found on rock stacks, islets, and windshorn headlands on rodent free offshore islands. In some places it has been found growing on sand or gravel beaches, and in one location it grows on boulders and clay that are part of an artificial sea wall. Historically this species was also known from the upper Waitaki Valley, well inland from the sea. This suggests that before human occupation it was once more widespread away from coastal situations.

THREATS

Seriously threatened by loss of indigenous sea bird nesting grounds because it is dependent on high-fertility soils and regular cycles of animal induced disturbance. It is susceptible to a range of introduced pests and diseases, including rodents, snails, aphids, leaf miner, diamond back moth and cabbage white butterfly, and is browsed by cattle and other livestock. A fungus-like disease (*Albugo candida* (J.F.Gmel.) Kuntze) is also a problem; and the plant has been and continues to be over-collected by people.



Lepidium oleraceum. Photographer: Wayne Bennett, Licence: CC BY-NC.



Silicles and seeds. In cultivation. Photographer: Jeremy R. Rolfe, Date taken: 15/05/2011, Licence: CC BY.

GENUS

Lepidium

FAMILY

Brassicaceae

AUTHORITY

Lepidium oleraceum Sparrm. ex G.Forst.

SYNONYMS

Lepidium oleraceum var. acutidentatum Kirk, L. oleraceum var. frondosum Kirk, L. oleraceum var. serrulatum Thell.

TAXONOMIC NOTES

Chatham, Antipodes, Snares and Auckland Island plants differ from *L. oleraceum* s.s. Their taxonomic status is under review. Cooks scurvy grass or nau, played a vital role in preventing scurvy in ship crews visiting New Zealand during the late 1700s and early 1800s. All parts of the plant are edible. The Maori name nau is of ancient derivation and is found in varying forms throughout Polynesia. Many Pacific Island peoples have traditions of harvesting and/or cultivating related lepidia as a vegetable food and suggests NZ Maori may well have used *L. oleraceum* and allied species in the same way.

ENDEMIC TAXON

Yes

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

FLOWERING

Flowers appear year-round, but mainly from September to March.

FRUITING

Fruiting occurs from December to April. Seed production is rapid so flowers, immature and ripe seed capsules are often found on the same plant.

LIFE CYCLE AND DISPERSAL

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

PROPAGATION TECHNIQUE

Easy from fresh seed. Can be grown from semi-hardwood cuttings. Fast growing. Does best in friable soils enriched with N, P, K, in full sun. This species, and indeed all other representatives of the genus in New Zealand are very prone to fungal diseases and insect attack, and can be difficult to maintain. *Lepidium oleraceum* is best treated as an annual.

PLANT OF THE MONTH

This plant has been featured as a Plant of the Month – see [Trilepidea: NZPCN newsletter for October 2005](#) for the full story.

ETYMOLOGY

lepidium: Scale-shaped (pods)

oleraceum: As a vegetable

NVS CODE

LEPOLE

CHROMOSOME NUMBER

$2n = c.72$

PREVIOUS CONSERVATION STATUSES

2017 | Threatened – Nationally Endangered | Qualifiers: CD, DP, EF, RR, Sp

2012 | Threatened – Nationally Endangered | Qualifiers: CD, DP, EF, RR, Sp

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

2004 | Threatened – Nationally Endangered

Jump to current conservation status

REGIONAL CONSERVATION STATUSES

Auckland: 2025 | Regionally Threatened – Regionally Critical | Qualifiers: CD, DPS, DE, EF, PF, RR Help

The regional threat classification system leverages off the national assessments in the NZTCS, providing information relevant for the regional context. Auckland conservation status information is sourced from the “Conservation status of vascular plant species in Tāmaki Makaurau / Auckland” Simpkins E et al. (2025) report.

REFERENCES AND FURTHER READING

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

Sawyer, J.W.D., de Lange, P.J. 2007. *Lepidium oleraceum* - a threatened herb of coastal Wellington. Wellington Botanical Society Bulletin, 50: 30-36

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

Webb, C.J.; Sykes, W.R.; Garnock-Jones, P.J. 1988. *Flora of New Zealand. Volume IV. Naturalised Pteridophytes, Gymnosperms, Dicotyledons*. Christchurch, New Zealand, Botany Division, D.S.I.R.

ATTRIBUTION

Description adapted from Webb et al. (1988).

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MORE INFORMATION

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

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