Huperzia australiana

SYNONYMS

Urostachys australianus (Herter) Herter ex Nessel; Urostachys cockaynei Herter ex Nessel; Lycopodium australianum Herter; Lycopodium australianum (Herter) Allan; Lycopodium selago sensu Hook.f.

FAMILY Lycopodiaceae

AUTHORITY Huperzia australiana (Herter) Holub

FLORA CATEGORY Vascular – Native

ENDEMIC TAXON No

ENDEMIC GENUS No

ENDEMIC FAMILY No

STRUCTURAL CLASS Lycophytes (clubmosses, selaginella, quillworts)

NVS CODE HUPAUS

CURRENT CONSERVATION STATUS 2017 | Not Threatened | Qualifiers: SO

PREVIOUS CONSERVATION STATUSES

2012 | Not Threatened 2009 | Not Threatened 2004 | Not Threatened

DISTRIBUTION

Indigenous. New Zealand: North Island, South Island, Stewart Island/Rakiura, Chatham Islands, Auckland Islands, Campbell Island/Motu Ihupuku and Macquarie Islands. Known from the Raukumara Range southwards. Also Australia and Borneo.

HABITAT

Coastal to alpine (mostly alpine in the main islands of New Zealand but descending to sea level on the Chatham and subantarctic islands) in scrub, herbfield and peat bogs.

WETLAND PLANT INDICATOR STATUS RATING

FACW: Facultative Wetland Usually is a hydrophyte but occasionally found in uplands (non-wetlands).

DETAILED DESCRIPTION

Terrestrial, stiffly erect tufted plants producing 1 to many branches from near base. branches rigid, erect (rarely decumbent), undivided or branched 1–3×, 60–400 mm long, producing bulbils at intervals. **Sterile leaves and sporophylls** similarly densely spirally arranged, erect, imbricate, thick, ovate to lanceolate, acute 4–9 mm long, 1.0–1.5 mm wide, green to yellowish green, or tinged orange; margins entire or with few, obscure teeth at apex. **Sporophylls** scattered, not restricted to defined zones. **Sporangia** c. 1 mm long × 1.5 mm wide, obscured by sporophylls; sporangia often partially replaced by bulbils. (Description adapted from Chinnock (1998) and Brownsey & Smith-Dodsworth (2000)).





Upper Hollyford. Photographer: John Smith-Dodsworth, Licence: CC BY-NC.



Upper Hollyford. Photographer: John Smith-Dodsworth, Licence: CC BY-NC.

SIMILAR TAXA

Easily distinguished from all other New Zealand members of the Lycopodiaceae by the scarcely differentiated sterile leaves and fertile sporophylls, as well as the unique presence of bulbils. Sterile terrestrial forms of *Phlegmariurus varius* growing in peat bogs are impossible to distinguish from sterile *H. australiana*.

FLOWERING

N.A.

FLOWER COLOURS No flowers

FRUITING N.A.

LIFE CYCLE Minute spores are wind dispersed (Thorsen et al., 2009).

PROPAGATION TECHNIQUE

Difficult—should be left in the wild.

ETYMOLOGY

huperzia: Named after Johann Peter Huperz (1771-1816), an early 19th century German botanist and specialist in ferns

australiana: From the Latin australis meaning southern

WHERE TO BUY

Not commercially available.

ATTRIBUTION

Fact Sheet Prepared for NZPCN by P.J. de Lange 16 March 2011. Description adapted from Chinnock (1998) and Brownsey & Smith-Dodsworth (2000).

REFERENCES AND FURTHER READING

Brownsey PJ, Smith-Dodsworth JC. 2000. New Zealand Ferns and Allied Plants. David Bateman, Auckland, NZ. 168 p.

Chinnock RJ. 1998. Lycopodiaceae. *Flora of Australia 48, Ferns Gymnosperms and allied groups*: 66–85. ABRS/CSIRO Victoria, Australia.

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. <u>https://doi.org/10.1016/j.ppees.2009.06.001</u>.

NZPCN FACT SHEET CITATION

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MORE INFORMATION

https://www.nzpcn.org.nz/flora/species/huperzia-australiana/