Thelymitra formosa

COMMON NAME sun orchid

FAMILY Orchidaceae

AUTHORITY Thelymitra formosa Colenso

FLORA CATEGORY Vascular – Native

ENDEMIC TAXON Yes

ENDEMIC GENUS No

ENDEMIC FAMILY No

STRUCTURAL CLASS Orchids

NVS CODE THEFOR

CHROMOSOME NUMBER 2n = 40

CURRENT CONSERVATION STATUS 2017 | At Risk – Naturally Uncommon | Qualifiers: EF, Sp

PREVIOUS CONSERVATION STATUSES

2012 | At Risk – Naturally Uncommon | Qualifiers: EF, Sp 2009 | At Risk – Naturally Uncommon | Qualifiers: DP, EF 2004 | Sparse

DISTRIBUTION Endemic. New Zealand: North Island, South Island, Stewart Island/Rakiura.

HABITAT

Mainly found in lowland to montane wetlands, scrub and open forest. Occasionally colonises roadside banks.

WETLAND PLANT INDICATOR STATUS RATING

FAC: Facultative Commonly occurs as either a hydrophyte or non-hydrophyte (nonwetlands).





Tuateawa Hill. Photographer: John Smith-Dodsworth, Licence: CC BY-NC.



Subsoil bank, nr Tongariro. Photographer: Eric Scanlen, Licence: CC BY-NC.

DETAILED DESCRIPTION

Very stout, robust, usually solitary (sometimes colonial) orchid which at flowering is up to 0.8 m tall. **Stem** dark redgreen or dark green (sometimes glaucous) stout, smooth. **Leaf** 100–400 × 10–20 mm, linear-lanceolate to lanceolate, usually dark green to red-green, channelled and finely ridged, rather fleshy (almost succulent) and thick, sheathing high up stem. **Inflorescences** 10–15-flowered. **Perianth** 9–13 mm long, light to dark blue, without stripes or spots. **Sepals, petals and labellum** similar, all narrowly-obovate. **Column-arms** flattened, more or less channelled, with yellow or orange fringes and cilia arising from margins, each arm projecting from inner face of side lobule, usually standing much taller than anther. **Post-anther lobe** shorter than anther, erect, margins yellowish red and more or less thickened into finger-like callii; side lobules taller than anther, pinkish or yellowish, fleshy, with subulate erect projections on margins and with similar or more elongated tubercles across the surface.

MANAAKI WHENUA ONLINE INTERACTIVE KEY Key to native orchids of New Zealand

SIMILAR TAXA

A very distinctive and singular species of *Thelymitra*. It has no obvious close relatives though sterile plants or those in bud have some similarity to <u>T. ixioides Sw.</u>, from which they can be distinguished by their smooth rather than finely rough stems and overall dark-green to reddish green, rather than somewhat glaucous-green to silvery red-green leaves. When in flower, the combination of pale to dark blue unspotted to striped flowers, distinctively flattened yellow or orange fringed/ciliate column-arms which project from the inner face of the side lobule are especially diagnostic of *T. formosa*. *Thelymitra formosa* is a very robust orchid which is usually found as solitary plants, though on occasion it may found quite substantial colonies.

FLOWERING November–January

FLOWER COLOURS Blue, Violet/Purple

FRUITING December–March

PROPAGATION TECHNIQUE

Difficult. Should not be removed from the wild

THREATS

An apparently naturally uncommon, biologically sparse species. Based on old herbarium specimens it does not appear to have ever been common at any particular location.

ETYMOLOGY

thelymitra: Woman's hat

WHERE TO BUY Not commercially available.

NOTES ON TAXONOMY

There is some uncertainty over the application of the name *Thellymitra formosa*—the type suite is largely another species <u>*T. hatchii* L.B.Moore</u> so further work on the status of plants referred to by the New Zealand Flora Series, Vol. II as *T. formosa* is needed. Description adapted from: Moore, L.B.; Edgar, E. 1970: Flora of New Zealand. Vol. II. Government Printer, Wellington.

ATTRIBUTION

Fact Sheet prepared for NZPCN by P.J. de Lange 14 April 2007. Description subsequently published in Rolfe & de Lange (2010).

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.

Rolfe JR, de Lange PJ. 2010. Illustrated guide to New Zealand sun orchids, *Thelymitra* (Orchidaceae). Jeremy Rolfe, Wellington, NZ. 57 p.

NZPCN FACT SHEET CITATION

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MORE INFORMATION

https://www.nzpcn.org.nz/flora/species/thelymitra-formosa/