

Pterostylis australis

COMMON NAME

southern greenhood

SYNONYMS

None

FAMILY

Orchidaceae

AUTHORITY

Pterostylis australis Hook.f.

FLORA CATEGORY

Vascular – Native

ENDEMIC TAXON

Yes

ENDEMIC GENUS

No

ENDEMIC FAMILY

No

STRUCTURAL CLASS

Orchids

NVS CODE

PTEAUS

CHROMOSOME NUMBER

$2n = 44$

CURRENT CONSERVATION STATUS

2012 | Not Threatened

PREVIOUS CONSERVATION STATUSES

2009 | Not Threatened

2004 | Not Threatened

DISTRIBUTION

Endemic. North, South and Stewart Islands. In the North Island present only from the the East Cape area south and becoming more common in the southern third of the island.

HABITAT

Lowland to subalpine (up to 1200 m a.s.l.) in scrub and tall forest. Generally preferring beech (*Nothofagus Blume*) dominated forest in the North and South Islands. Mostly montane in the North Island. Sometimes found in forestry plantations.



Pterostylis australis. Photographer: DoC



Pterostylis australis. Photographer: DoC

FEATURES

Terrestrial, tuberous, glabrous, spring to summer-green perennial herb forming large colonies through vegetative extension. Plant at flowering 100–250 mm tall. Stem erect, smooth, dark green to reddish green, internodes < leaves. Leaves 4-5, shape changing from base to top of stem; lamina 40-150 x 10-16 mm, dark green to yellow-green, the lowest and those of non-flowering plants, elliptic to broadly elliptic, apex subacute, base subsessile or with a reddish-green winged petiole, margins entire or sometimes finely toothed; mid-stem and upper leaves longer and slightly narrower, more tapered, rarely narrowly lanceolate, margins entire or finely denticulate, 1, 2 or none of the leaves overtopping the flower. Flower solitary, large, dark green to pale green striped with white. Ovary erect. Dorsal sepal 25-45 mm tall, often rather smoothly arcuate but sometimes erect below then sharply horizontal above, apex acuminate often shortly caudate; lateral sepals diverging at a narrow angle, apices strongly reflexed backwards, spreading. Petals shorter than dorsal sepal, acute or acuminate. Labellum basally dark green flushed red or red from mid-section to apex, apex distinctly darker; lamina lanceolate-oblong, slightly arched, broadened almost to middle then narrowing to an obtuse, more or less deflexed, and decurved, pinched tip. Column as tall as labellum; stigma linear, often as broad as column, sometimes overlapped by wings from above.

SIMILAR TAXA

Allied to *Pterostylis banksii* A.Cunn., and sometimes regarded as a form of it. Also close to *P. areolata* Petrie. It differs from *P. banksii* by the shorter, broader leaves, much shorter dorsal sepal and consistently arched labellum. From *P. areolata* it differs by the gradation from the elliptic (rarely broadly elliptic) basal leaves to almost linear-lanceolate mid-stem leaves; usually obviously caudate lateral sepals, and linear stigma

FLOWERING

November - January

FLOWER COLOURS

Green, White

FRUITING

January - April

PROPAGATION TECHNIQUE

Difficult - should not be removed from the wild. Basic orchid mix consists of 2 parts medium coarse sand, ideally clean river sand; 2 parts soil, humus or leaf-mould; 1 part weathered sawdust or rotting wood; 1 part granulated bark. For *Pterostylis* shade of 50% and pots kept evenly moist.

ETYMOLOGY

pterostylis: Winged column

australis: Southern

WHERE TO BUY

Not commercially available

TAXONOMY

On Stewart Island especially this species often has distinctly toothed to finely denticulate leaf margins.

ATTRIBUTION

Fact Sheet prepared for NZPCN by P.J. de Lange 14 April 2007: Description adapted from Moore and Edgar (1970).

REFERENCES AND FURTHER READING

Moore, L.B.; Edgar, E. 1970: Flora of New Zealand. Vol. II. Government Printer, Wellington.

NZPCN FACT SHEET CITATION

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MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/pterostylis-australis/>