

# Ranunculus pilifera

## SYNONYMS

Ranunculus haastii subsp. piliferus F.J.F.Fisher

## FAMILY

Ranunculaceae

## AUTHORITY

Ranunculus pilifera (F.J.F.Fisher) Heenan et P.J.Lockhart

## FLORA CATEGORY

Vascular – Native

## ENDEMIC TAXON

Yes

## ENDEMIC GENUS

No

## ENDEMIC FAMILY

No

## STRUCTURAL CLASS

Herbs - Dicotyledons other than Composites

## NVS CODE

RANPIL

## CHROMOSOME NUMBER

2n = 48

## CURRENT CONSERVATION STATUS

2017 | At Risk – Declining | Qualifiers: DP, RR, RF

## PREVIOUS CONSERVATION STATUSES

2012 | At Risk – Declining | Qualifiers: DP

2009 | At Risk – Declining | Qualifiers: DP

2004 | Range Restricted

## DISTRIBUTION

Endemic. South Island. West Otago (Hector Mountains) and Southland (Eyre, Thomson and Takitimu Mountains, also East Dome).

## HABITAT

High alpine occupying sparsely vegetated rock-slides and rock-fields derived from greywacke and non-foliated schist.



## FEATURES

Robust, summer-green, rhizomatous herb up to 400 mm high, forming dense patches up to 1 m across. Rhizomes numerous, stout, fleshy, 10-12 mm diameter, regularly branched, covered with the remains of sheathing petiole bases and vascular strands, with numerous long fleshy roots 2-5 mm diameter; bud scales up to 40 mm long, clasping scape and petiole, abaxial surface moderately to densely covered with pilose hairs, adaxial surface sparsely hairy to glabrate near distal part and glabrous on proximal part. Lamina 60-75 x 75-130 mm, broadly reniform or broadly orbicular in outline, subcoriaceous, adaxial surface grey or grey-green with abaxial surface paler, both surfaces sparsely pilose hairy, glabrate (rarely glabrous), moderately hairy at insertion of petiole, proximal part distinctly veined, divided into 3 primary segments, occasionally further subdivided toward base; segments weakly dissected, with few, oblong to broadly oblong, overlapping lobes, further subdivided into smaller segments with oblong to broadly oblong lobes up to 5-30 mm deep, usually planar or slightly upwardly curved near margin; margin crenate, lobes usually wider than long or of similar width and length, teeth 2-9 mm long, broadly obovate, oblong to broadly oblong, apices obtuse, margin red; petiole 50-250 x 5-9 mm, fleshy, terete; sheath 15-40 mm long, moderately to densely covered with pilose hairs. Scape 80-400 x 5-14 mm, yellow-green or green, basally flushed red, terete with 1-6 flowers, each flower subtended by a leafy bract. Bracts similar to leaves, sessile, smaller toward distal flowers. Peduncles sparsely to moderately hairy, particularly near distal part. Flowers 40-50 mm diameter. Receptacle conical, 9.7-10.0 x 3/5-6.6 mm, often sparsely hairy and with a fringe of retrorse hairs at base, sometimes glabrous. Sepals 4-6, 20-22 x 8-11 mm, yellow-green to light green, oblong, oblong-elliptic or broadly elliptic, sometimes saccate, usually hairy on both surfaces, apex obtuse, often praemorse; nectary a simple pit. Stamens 110-139. glabrous; anthers 1.8-2.8 mm long, cream; filament 1.6-8.5 x 0.7-1.4 mm, translucent, distally tapered. Carpels 126-171 x 4.7-6.1 mm, glabrous or with a small tuft of hairs at base; stigma with minute papillae. Achenes 6.4-7.3 x 2.7-3.4 mm; body obovate, 1.8-2.5 x 1.3-1.7 mm, yellow-brown, surrounded by a wing 0.9-1.0 mm wide; beak curved to ventral side, laterally compressed, tapering toward a point at apex.

## SIMILAR TAXA

Closest to *R. acraeus* Heenan et P.J.Lockhart from which it is distinguished by its weakly dissected, coarsely crenate rather than finely crenate leaf and bract margins, hairy rather than glabrous peduncle; by the 4-5(-6) hairy rather than only abaxially hairy sepals, and allopatric distribution. From *R. haastii* Hook.f. it differs by its much less divided, pilose-hairy rather than glabrous leaves, and allopatric distribution.

## FLOWERING

November - January

## FLOWER COLOURS

Green, Yellow

## FRUITING

December - February

## PROPAGATION TECHNIQUE

Difficult. Should not be removed from the wild

## THREATS

An uncommon species common at sites within its small geographic area.

## ETYMOLOGY

**ranunculus:** From the Latin 'rana' frog, meaning little frog and probably refers to the plants typical marshy habit where frogs abound

**pilifera:** Hair-bearing; having soft short hairs

## WHERE TO BUY

Not commercially available

## NOTES ON TAXONOMY

*Ranunculus piliferus* is further distinguished from both *R. haastii* and *R. acraeus* by its different nrDNA ITS and cpDNA sequences (see Heenan et al. (2006)).

## ATTRIBUTION

Fact Sheet prepared for NZPCN by P.J. de Lange (30 October 2008). Description by P.B. Heenan based on Heenan et al. (2006).

## REFERENCES AND FURTHER READING

Heenan, P.B; Lockhart, P.J.; Kirkham, N.; McBreen, K.; Habel, D. 2006: Relationships in the alpine *Ranunculus haastii* (Ranunculaceae) complex and recognition of *R. piliferus* and *R. acraeus* from southern New Zealand. *New Zealand Journal of Botany* 44(4): 425-441.

## NZPCN FACT SHEET CITATION

Please cite as: de Lange, P.J. (Year at time of access): *Ranunculus pilifera* Fact Sheet (content continuously updated). New Zealand Plant Conservation Network. <https://www.nzpcn.org.nz/flora/species/ranunculus-pilifera/> (Date website was queried)

## MORE INFORMATION

<https://www.nzpcn.org.nz/flora/species/ranunculus-pilifera/>