Epilobium hirtigerum

COMMON NAME

hairy willowherb

SYNONYMS

Epilobium junceum G.Forst. var. hirtigerum (A.Cunn.)Curtis, E. junceum sensu Hook.f. pro parte, E. tetragonum L. E. brasiliense Hausskn., E. sarmentaceum sensu Back. et Bakh., E. cinereum sensu Raven prop parte.

FAMILY

Onagraceae

AUTHORITY Epilobium hirtigerum A.Cunn.

FLORA CATEGORY Vascular – Native

ENDEMIC TAXON No

ENDEMIC GENUS No

ENDEMIC FAMILY No

STRUCTURAL CLASS Herbs - Dicotyledons other than Composites

NVS CODE EPIHIR

CHROMOSOME NUMBER 2n = 36

CURRENT CONSERVATION STATUS 2017 | At Risk – Recovering | Qualifiers: EF, SO

PREVIOUS CONSERVATION STATUSES

2012 | Threatened – Nationally Critical | Qualifiers: DP, EF, SO 2009 | Threatened – Nationally Critical | Qualifiers: DP, EF, SO 2004 | Data Deficient

DISTRIBUTION

Indigenous. New Zealand: North Island, South Island, Chatham Islands. Also Australia, Indonesia and South America.

HABITAT

Coastal, lowland to montane. A short-lived species of open ground, seepages on cliff faces, sparsely-vegetated wetland margins, braided riverbeds, lake edges, and swamps. Now most common in urban areas and associated wasteland.

WETLAND PLANT INDICATOR STATUS RATING

FAC: Facultative

Commonly occurs as either a hydrophyte or non-hydrophyte (non-wetlands).





Epilobium hirtigerum. Photographer: Cathy Jones, Licence: CC BY.



Epilobium hirtigerum showing growth habit. Photographer: Peter J. de Lange, Licence: CC BY-NC.

DETAILED DESCRIPTION

Robust perennial, stoloniferous, dull grey to grey-green, reddish tinged herb, 0.2–1.8 m tall. Plants distinctly hairy, all parts except petals densely covered in long spreading, and short erect, eglandular, greyish hairs; hairs of inflorescence glandular. Stems usually unbranched; woody near base. Stolons numerous (especially in winter), arising from base of stems, and sometimes from rootstock, dark red, glabrescent. Stolon leaves bright green, streaked, tinged or blotched dark red, glabrous, 50-80 × 10-40 mm, broadly ovate, to elliptic, base oblique to broadly cuneate, sometimes attenuate, apex acute to obtuse, sometimes rounded, margins coarsely and ± evenly serrated, teeth up to 18 on each side; lateral veins 2-4 each side of midrib, conspicuous. Leaves of stems and inflorescences alternate except near base where opposite, glaucous, hairy; 15-60 × 2-8 mm, linear to narrowly lanceolate, base acute or acuminate, apex acuminate, margins coarsely serrate, sometimes undulate, teeth 0-12 on each side, evenly distributed or concentrated toward leaf apex; lateral veins 2-4 each side of midrib, usually inconspicuous. Inflorescence erect. Flowers erect, up 16 mm diameter. Pedicel 0-70 mm long. Ovaries 14-30 mm long, invested with spreading, appressed, glandular hairs. Sepals keeled, 2.5-5.3 × 0.8-1.0 mm, invested with spreading, appressed, glandular hairs. Floral tube 0.5–0.9 mm deep. 1.0–1.5 mm diameter at apex, internally bearing a conspicuous ring of long white hairs. **Petals** white (North Island and South Island) or rose-pink (South Island), 2.8-8.0 × 1.8-5.2 mm wide, notched, notch 0.6-1.8 mm deep, petals of white-flowered plants often shorter than sepals, scarcely spreading apart at anthesis, petals of rose-pink -flowered plants longer than sepals, spreading widely at anthesis. Stamens 8, of two lengths, 4 longer (0.8–4.0 mm) and 4 shorter (0.3–0.5 mm); anthers 0.5–1.2 × 0.3–0.5 mm, cream. Stigma rarely positioned above lower set of stamens; style 1.2–4.2 mm long, white, basally invested in long hairs; stigma clavate, 0.6–2.4 × 0.6–0.9 mm. Capsules on pedicels 6–15 mm long; narrowly cylindric, 35-60 mm long, densely pubescent with both long, spreading, appressed, eglandular, and shorter, erect, glandular hairs. Seeds 0.9–1.1 × 0.5 mm, orange-brown, obovoid, papillose; coma easily detached, 5–8 mm long, white.

SIMILAR TAXA

Hairy willow herb is most often confused with <u>Epilobium cinereum</u> which is commonly found growing in the same habitats. Epilobium cinereum differs from hairy willow herb by its smaller, spreading rather than erect growth habit, non-dimorphic, smaller (up to 40×7 mm), coarsely toothed leaves, larger (up to 20 mm wide), consistently dark rose-purple flowers than open widely, and slightly smaller (0.8–1 mm) seeds.

FLOWERING

September-May

FLOWER COLOURS

Red/Pink, White

FRUITING

November-June

PROPAGATION TECHNIQUE

Easily grown from seed and rooted pieces of stem. Prefers full sun and does best in damp ground. Despite its scarcity in the wild, in cultivation this species can quickly become invasive.

THREATS

Most records since the 1990s are from urban situations, country roadsides, within coastal areas or under willow (*Salix* spp.) along river banks. Plants are usually in wasteland, often within new housing developments, bordering drains, within old quarry pits or growing in cliff seepages. A common habitat is car parks, traffic islands and roadside gutters. In these sites some quite large populations have been destroyed by housing, road works and through competition from large, faster growing weeds. However, overall it now seems clear that this species is increasing its range rather than in decline.

ETYMOLOGY

epilobium: From the Greek epi- 'upon' and lobos 'a pod', the flowers appearing to be growing on the seed pod.

NOTES

Most New Zealand plants have white flowers, with only a few instances of rose-purple coloured flowers (the more usual colour form in Australia) are known.

ATTRIBUTION

Fact sheet first prepared for NZPCN by P.J. de Lange 6 January 2008. Description adapted from Raven & Raven (1976) and Webb & Simpson (2001).

REFERENCES AND FURTHER READING

Raven PH, Raven TE. 1976. The genus *Epilobium* in Australasia. *New Zealand DSIR Bulletin 216*. Government Printer, Wellington, NZ. 321 p. Webb CJ, Simpson MJA. 2001. Seeds of New Zealand Gymnosperms and Dicotyledons. Manuka Press, Christchurch. 428 p.

NZPCN FACT SHEET CITATION

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MORE INFORMATION

https://www.nzpcn.org.nz/flora/species/epilobium-hirtigerum/