

# Flora Protection Order - bryophytes

## *Hedwigia integrifolia*

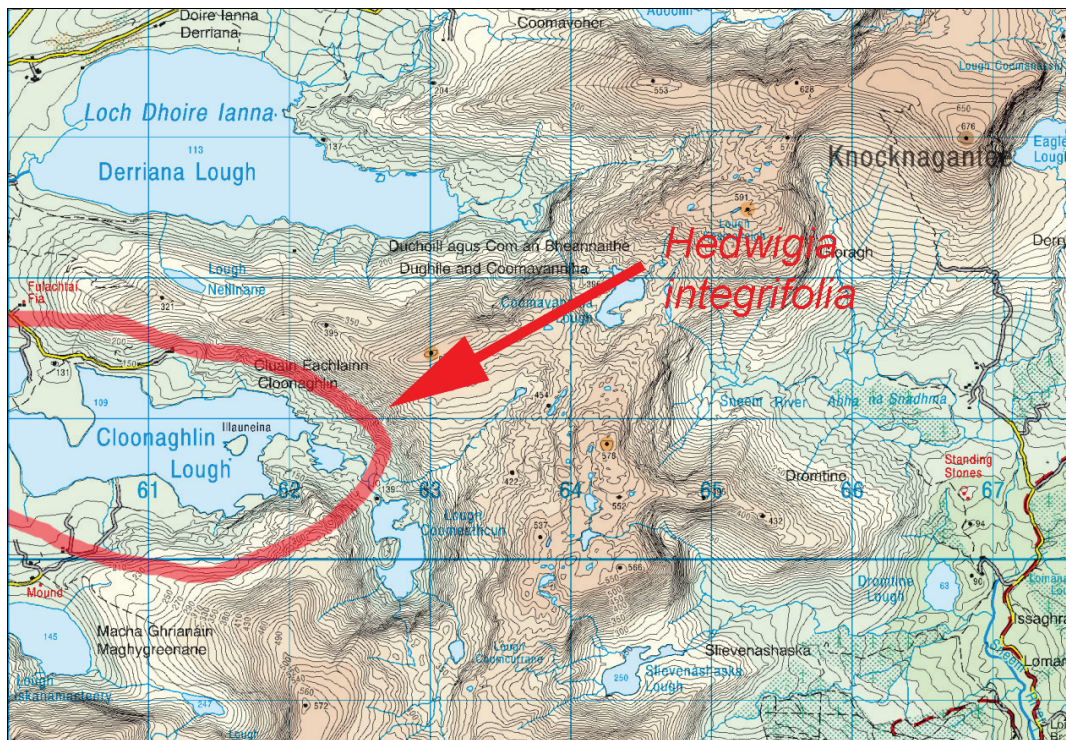
**Status:** Vulnerable; listed on the Flora Protection Order

**Location:** Cloonaghlin Lough, Co. Kerry

### Species Records

Taxon	Vice County number	Taxon Site	Locality / habitat	Grid Reference	Date	Recorder	Protected site
<i>Hedwigia integrifolia</i>	01	03	by Cloonaghlin Lough	V67	1951.09.13	Wallace, E.C.	SAC000365

### Location (1:50,000 Discovery map)



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### Location (6" map)

No map available.

### Field Data Sheet

None available. Not refound by David Holyoak during survey work in 2006. *Hedwigia integrifolia* was searched for by Rory Hodd in 2014 in the vicinity of Cloonaghlin Lough, but was not relocated, the only species of note seen being *Sematophyllum demissum*.

## Aerial photograph

No aerial photograph available.

## Site photographs

None available.

## Management & Conservation

### General

- Some populations are probably vulnerable to shading if scrub or saplings grow up close to rocks

### Potential site-specific threats/issues

- *H. integrifolia* needs to be refound at this site

Excerpt from:

Lockhart, N., Hodgetts, N. & Holyoak, D. (2012). *Rare and Threatened Bryophytes of Ireland*. Belfast: National Museums Northern Ireland Publication No. 028.

Mosses

## *Hedwigia integrifolia* P.Beauv.

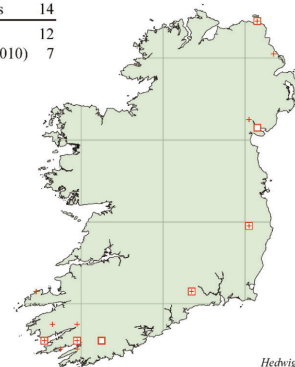
Green Hoar-moss

syn. *H. imberbis* (Sm.) Spruce, *Hedwigidium integrifolium* (P.Beauv.) Dixon

**Status in Ireland:** Vulnerable (B2a, bii, iv); **Status in Europe:** Rare



Number of Hectads	14
+ Old (pre-1970)	12
□ Recent (1970–2010)	7



*Hedwigia integrifolia*

### Identification

An acrocarpous moss with procumbent stems up to 30 mm long, forming tufts or patches that are yellowish-green above and brownish below. Leaves are imbricate when dry, erecto-patent when moist, ovate, acute or acuminate, concave, with recurved margins and lacking a costa. Leaf cells are narrowly rectangular at the base and extending up the middle of the leaf, rounded-quadrate or quadrate-rectangular and pluripapillose in the upper part of the leaf and towards the margins. Capsules are obloid, scarcely emergent, on a seta about 1 mm long.

*H. integrifolia* lacks the white hair-points of the more common *H. stellata*, but resembles that species in general appearance, growth habit and the character of the leaf cells and sporophytes.

### Distribution in Ireland

Recent records are from eight localities in six vice-counties: S. Kerry (Derrynane House, 2 km west of Caherdaniel, 1951–2007); W. Cork (Glengarriff, 1829–2006; Mount Gunnery, 2009); Waterford (Counshingaun, 1966–2007); Wicklow (Glendalough, 1981); Louth (Carlingford Mountain, 2010; Windy Gap, 2010) and Antrim (Fair Head, 1879–1999). There are old records from nine additional localities: S. Kerry (Kenmare, undated; by Cloonaghlin Lough, 1951; Brandon Mountain, 1872); W. Cork (Bantry, 1912; Adrigole, 1963); Wicklow (Lugnaquilla, 1872; Luggala, undated)

and Antrim (Ballygalley Head, 1875; Sallagh Braes, 1910: both from Megaw 1938). A record from Armagh (Slieve Gullion, 1967, leg. R.E. Parker) requires confirmation.

### Ecology and biology

It grows on unshaded or lightly shaded surfaces of sloping, mildly acidic rocks of crags, outcrops and boulders, including sandstone, dolerite and varied metamorphic lithologies, from near sea level to 460 m altitude.

Patches of the species live for at least several years. It is autoicous and occasionally produces capsules, which mature in early summer. Gemmae and tubers are unknown.

### World distribution

It occurs in W. Europe from SW Norway to N. Spain and eastwards to C. and E. France and N. Italy and is listed as *Near Threatened* in Spain and 'declining' in Norway. It is assigned to an Oceanic Temperate floristic element in Europe. Elsewhere, it is known from E. and S. Africa, Caucasus, Sri Lanka, Réunion, C. America, northern S. America and Australasia.

### Threats

Reasons for the apparent decline in Ireland are unknown; no comparable decline is evident in Britain. Some

## RARE AND THREATENED BRYOPHYTES OF IRELAND

populations of *H. integrifolia* are probably vulnerable to shading if scrub or saplings grow up near to rocks.

**Conservation**

Several populations are on protected land. *H. integrifolia* is listed as a Northern Ireland Priority Species.

**Protected sites with recent records:** Carlingford Mountain SAC; Comeragh Mountains SAC; Fair Head

and Murlough Bay ASSI (scheduled for declaration 2011); Glenealo Valley Nature Reserve; Glengarriff Harbour and Woodland SAC; Glengarriff Wood Nature Reserve; Wicklow Mountains National Park; Wicklow Mountains SAC; **Unprotected sites with recent records:** Derrynane House, 2 km west of Caherdaniel (possibly within Kenmare River SAC); Mount Gunnery.