





**CARMARTHENSHIRE LOCAL BIODIVERSITY ACTION PLAN LBAP/S42 BRYOPHYTES**

Please refer to <http://rbg-web2.rbge.org.uk/bbs/bbs.htm> for more detailed species description information



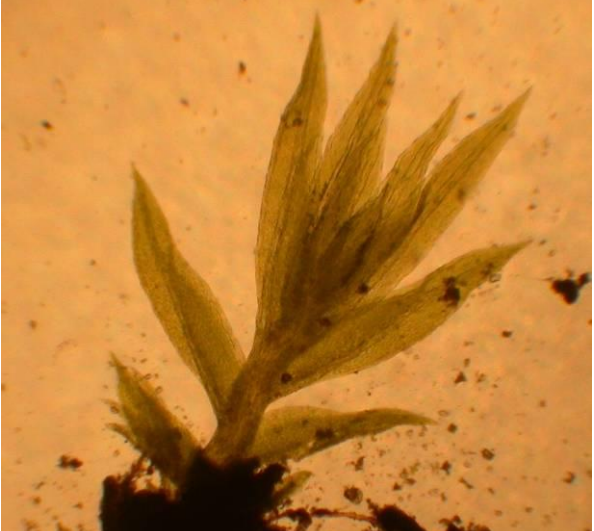


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**OVERALL OBJECTIVES**





- To identify new sites for survey in the county.
- Encourage volunteer interest in bryophytes.
- To use key species as a focus for public/school engagement.
- To raise awareness of these species and the issues affecting them.

SPECIES	PHOTO	HABITAT/CARMS SITES	ISSUES/ACTION REQUIRED
Baltic bryum <i>Bryum marratti</i>		<ul style="list-style-type: none"> <li>• Found on the north side of Tywyn Burrows, and near Ferryside at Morfa Uchaf, in both cases where freshwater flows from dunes on to grazed salt marsh.</li> </ul>	<ul style="list-style-type: none"> <li>• Grazing of dune–saltmarsh transition for <i>Bryum marratii</i></li> </ul>
Sea bryum <i>Bryum warneum</i>		<ul style="list-style-type: none"> <li>• Not seen in Carms since 1910 but recently found at Whiteford Burrows.</li> </ul>	<ul style="list-style-type: none"> <li>• Dune remobilisation for <i>Bryum warneum</i> and <i>Petalophyllum ralfsii</i></li> <li>• CCC/MOD/NRW all removing sea buckthorn from coastal dunes. NRW recreating slacks at Pendine and Pembrey ranges</li> </ul>
Multi-fruited river moss <i>Dendrocryphaea lamyana</i>		<ul style="list-style-type: none"> <li>• Found on the Teifi around Cenarth, Henllan, Pont Tyweli and Maesycrugiau, but commoner on the sunny north bank of the river. Also at one site on the Tywi at Nantgaredig – both SACs. It is found on rocks on banks and overhanging trees.</li> </ul>	<ul style="list-style-type: none"> <li>• Laurel and conifer clearing for <i>Dendrocryphaea lamyana</i> by the Teifi</li> <li>• Info passed to local anglers.</li> </ul>
Irish Daltonia <i>Daltonia spachnoides</i>		<ul style="list-style-type: none"> <li>• Spreading into Wales from Ireland – likes ultrahumid willow in conifer areas. One record from Brechfa Forest and one from near Llyn Brianne.</li> </ul>	<ul style="list-style-type: none"> <li>• No actions suitable.</li> </ul>



<p>Lead moss <i>Ditrichum plumbicola</i></p>		<ul style="list-style-type: none"> <li>• Found on two disused lead mines at Rhandirmwyn. The main site was designated in 2013 as Mwyngloddfa Nantymwyn SSSI.</li> </ul>	<ul style="list-style-type: none"> <li>• SSSI protection for <i>Ditrichum plumbicola</i> and <i>Scopelophila cataractae</i></li> </ul>
<p>Tongue-leaved copper moss <i>Scopelophila cataractae</i></p>		<ul style="list-style-type: none"> <li>• Found on one disused lead mines at Rhandirmwyn. The site was designated in 2013 as Mwyngloddfa Nantymwyn SSSI.</li> </ul>	<ul style="list-style-type: none"> <li>• SSSI protection for <i>Ditrichum plumbicola</i> and <i>Scopelophila cataractae</i></li> </ul>
<p>Awl-leaved ditrichum <i>Ditrichum subulatum</i></p>		<ul style="list-style-type: none"> <li>• Found on acidic banks above coastal creeks. One record from the Taf estuary north of Dylan Thomas' Boathouse, Laugharne.</li> </ul>	<ul style="list-style-type: none"> <li>• Further survey for <i>Ditrichum subulatum</i> (estuary banks),</li> </ul>
<p>Portuguese pocket moss <i>Fissidens curvatus</i></p>		<ul style="list-style-type: none"> <li>• Found at Dryslwyn castle, but gorse scrub has invaded here, and also recorded on a lane bank near Llandeilo.</li> </ul>	<ul style="list-style-type: none"> <li>• Scrub clearance at Dryslwyn Castle for <i>Fissidens curvatus</i></li> <li>• Discuss with CADW?</li> </ul>
<p>Fragile frillwort <i>Fossombronia fimbriata</i></p>		<ul style="list-style-type: none"> <li>• Found at Pont-ar-Wysg where a sheep track crosses a base-rich flush.</li> </ul>	<ul style="list-style-type: none"> <li>• Maintain upland grazing for <i>Fossombronia fimbriata</i></li> </ul>
<p>Pitted frillwort <i>Fossombronia foveolata</i></p>	 <div style="border: 1px solid black; padding: 2px;"> <p>Most <i>Fossombronia</i> look identical and their spores need to be checked.</p> </div>	<ul style="list-style-type: none"> <li>• Found on banks of Usk Reservoir</li> </ul>	<ul style="list-style-type: none"> <li>• Further survey - upland pools.</li> </ul>
<p>Lesser squirrel tail moss <i>Habrodon perpusillus</i></p>		<ul style="list-style-type: none"> <li>• Found on sycamores at St John's Hill, on the south side of Laugharne.</li> </ul>	<ul style="list-style-type: none"> <li>• Sycamore protection at Sir John's Hill for <i>Habrodon perpusillus</i></li> <li>• CCC PROW informed of presence of moss at St John's Hill</li> </ul>



<p>Veilwort <i>Pallavicinia lyellii</i></p>		<ul style="list-style-type: none"> <li>• Found in tussocky rank Molinia at Cors Goch, Glyn bog, Llyn Llech Owain, Llanpumsaint and recently on a ridge above Rhandirmwyn.</li> </ul>	<ul style="list-style-type: none"> <li>• Water level management on bogs for <i>Pallavicinia lyellii</i></li> </ul>
<p>Petalwort <i>Petalophyllum ralfsii</i></p>		<ul style="list-style-type: none"> <li>• Found at Laugharne–Pendine Burrows; extinct at Pembrey and Tywyn Burrows</li> </ul>	
<p>Willson’s pottia <i>Pottia wilsonii</i></p>		<ul style="list-style-type: none"> <li>• Extinct, recorded once near Llansteffan in 1907.</li> </ul>	<ul style="list-style-type: none"> <li>• Further survey of coastal slopes near Llansteffan</li> </ul>
<p>Spreading-leaved beardless moss <i>Weissia squarrosa</i></p>		<ul style="list-style-type: none"> <li>• Found on a verge near Ferryside.</li> </ul>	<ul style="list-style-type: none"> <li>• Further survey - (arable and rye-grass leys)</li> <li>• Pass details on to CCC Streetscene re verge management.</li> </ul>

- Recording is continuing and new sites continue to be found
- Other – the Oceanic Ravine bryophyte assemblage is threatened by hydro schemes through the reduction of humidity when water is removed to go through turbines.
- Further survey for *Tortula wilsonii* (thin soil on coastal rock).