

CENSUS CATALOGUE OF IRISH LICHENS

M. R. D. SEAWARD

Postgraduate School of Environmental Science,
University of Bradford, Bradford BD7 1DP,
West Yorkshire, United Kingdom

ABSTRACT: A new census catalogue of Irish lichens, based on vice-county distribution, enumerates 957 taxa (including 6 subspecies, 14 varieties and 2 forms); a significant proportion of the data assembled is derived from earlier records, the present status of which has not been determined. Numerous taxa listed as occurring in the 1953 census catalogue have been omitted since they have proved to be incorrect, dubious, or difficult to assign current nomenclature in the absence of herbarium material. An appendix lists unconfirmed records, including 39 taxa which would be additional to the Irish lichen flora.

Irish lichen records, going back to Caleb Threlkeld (1676-1728), occur sporadically throughout eighteenth century botanical literature, but the true foundations of Irish lichenology were laid in the nineteenth century by Thomas Taylor (c. 1787-1848), Theobald Jones (1790-1868), David Moore (1808-1879) and Isaac Carroll (1828-1880). In the first half of the twentieth century Matilda C. Knowles (1864-1933), Annie Lorrain Smith (1854-1937), Robert Lloyd Praeger (1865-1953), Robert A. Phillips (1866-1945), John Adams (1872-1948) and Lilian E. Porter (1885-1973) added considerably to our knowledge of the flora, their records being summarized by Walter Watson (1872-1960) in his *Census Catalogue* published in 1953. About this period, the Scandinavian lichenologists G. Degelius, E. Dahl and A. H. Magnusson collected in Ireland.

During the next two decades M. E. Mitchell and A. F.-G. Fenton were particularly active in the west and north of Ireland respectively. More recently, a wider area has been investigated, mainly due to the fieldwork carried out by R. K. Brinklow, A. M. Burnet, B. J. Coppins, A. Fletcher, P. W. James, P. M. McCarthy, C. C. Moore, D. H. S. Richardson, F. Rose, M. J. P. Scannell, M. R. D. Seaward, and T. D. V. Swinscrow, with additional support from R. H. Bailey, F. H. Brightman, G. Buck, J. P. Cullinane, S. R. Davey, I. M. Evans, B. W. Ferry, A. C. M. Folan, P. Hackney, D. L. Hawksworth, A. Henssen, C. J. B. Hitch, P. M. Jørgensen, J. R. Laundon, A. McEvoy, M. J. Neff, B. H. Nelson, E. C. Nelson, C. Mothersill, J. Poelt, R. Santesson, J. W. Sheard, H. Sipman, M. Telford and P. B. Topham.

A detailed account of the first two centuries of Irish lichenology is provided by Knowles (1929), and additional information is to be found in Praeger (1949) and Hawksworth and Seaward (1977). The latter also includes a bibliography which can be used to supplement the comprehensive survey of Irish lichen literature from 1727 to 1970 by Mitchell (1971); additional titles are to be found at the end of this introduction.

For the purposes of botanical recording, Ireland is divided into 40 vice-counties as first defined by Praeger (1901), which, despite county boundary changes, Webb (1980) asserts are fixed for all time. The map accompanying Scannell and Synnott (1972) provides a useful guide for locating most records, but Webb's (1980) more authoritative treatment should be consulted for difficult borderline cases. The numbers of the vice-

counties are as follows:

- | | |
|-----------------------------------|------------------|
| 1. South Kerry | 21. Dublin |
| 2. North Kerry | 22. Meath |
| 3. West Cork | 23. Westmeath |
| 4. Mid Cork | 24. Longford |
| 5. East Cork | 25. Roscommon |
| 6. Waterford | 26. East Mayo |
| 7. South Tipperary | 27. West Mayo |
| 8. Limerick | 28. Sligo |
| 9. Clare (including Aran Islands) | 29. Leitrim |
| 10. North Tipperary | 30. Cavan |
| 11. Kilkenny | 31. Louth |
| 12. Wexford | 32. Monaghan |
| 13. Carlow | 33. Fermanagh |
| 14. Laois | 34. East Donegal |
| 15. South-East Galway | 35. West Donegal |
| 16. West Galway | 36. Tyrone |
| 17. North-East Galway | 37. Armagh |
| 18. Offaly | 38. Down |
| 19. Kildare | 39. Antrim |
| 20. Wicklow | 40. Londonderry |

The last *Census Catalogue* for lichens was published thirty years ago (Watson, 1953) and was based mainly on the publications of Knowles (1929) and Porter (1948). Since then there has been considerable lichenological activity, with extensive taxonomic revisions, herbarium analyses, literature searches and fieldwork, much of which has been associated with the accumulation of records for the British Lichen Society's distribution maps scheme (Seaward, 1980). The effect of such taxonomic changes can be readily demonstrated by the fact that the 1,090 lichen taxa listed by Watson (1953) as occurring in Ireland are reduced to only 713 by present-day criteria (cf. Hawksworth, James & Coppins, 1980). Fieldwork, together with herbarium and literature searches, has added a further 244 taxa and more than 30% new vice-county records since 1953. The number of taxa recorded from each vice-county can therefore be summarized as follows:

VC	area (ml2)	no. of taxa	ratio: taxa/area	VC	area (ml2)	no. of taxa	ratio: taxa/area
1	930	581	0.62	21	354	374	1.06
2	923	519	0.56	22	906	169	0.19
3	1,145	516	0.45	23	708	161	0.23
4	950	367	0.39	24	421	142	0.34
5	795	283	0.36	25	950	142	0.15
6	721	281	0.39	26	778	89	0.11
7	850	275	0.32	27	1336	351	0.26

8	1,064	216	0.20	28	721	265	0.37
9	1,348	362	0.27	29	613	192	0.31
10	810	168	0.21	30	746	149	0.20
11	796	238	0.30	31	316	124	0.39
12	901	332	0.37	32	500	92	0.18
13	346	261	0.75	33	714	227	0.32
14	664	249	0.38	34	859	190	0.22
15	738	193	0.26	35	1011	214	0.21
16	826	566	0.69	36	1260	220	0.17
17	840	109	0.13	37	512	149	0.29
18	772	215	0.28	38	957	326	0.34
19	654	204	0.31	39	1191	453	0.38
20	781	455	0.58	40	816	121	0.15
				av.	813	263	0.32
				Ireland	32523	957	0.03

The areas quoted in the above table are according to Praeger (1901). On the basis of taxa recorded per unit area (which, of course, excludes climatic and other ecological factors), the best recorded vice-counties are Dublin, Carlow and West Galway, and those most in need of attention are East Mayo, North-east Galway, Derry and Roscommon.

Many records are scattered throughout the published literature; the extensive surveys of Mitchell (1971), O'Sullivan (1973) and Hawksworth and Seaward (1977) should be consulted for these sources. Further records can be gleaned from distribution maps periodically published in *The Lichenologist* and from the following more recent publications: An Foras Forbartha (1980, 1980a), Coppins (1982), Coppins and James (1978, 1979, 1979a), Ferry (1975), Gilbert (1978), Hackney (1980), Jørgensen and James (1983), Kirby (1980), Laundon (1981), McCarthy (1978, 1978a, 1981, 1982, 1983), McCarthy and Holligan (1984), Mitchell and Scannell (1977), Scannell (1978, 1978a), Seaward (1975, 1977, 1977a, 1978, 1979, 1982, 1983), Seaward, Coppins and Hitch (1978), Seaward and Hitch (1982), and Seaward, Nelson and Coppins (1982).

Much of this information, together with records derived from fieldwork undertaken during the past 25 years, is stored in the data bank of the British Lichen Society's distribution maps scheme based at the University of Bradford. The first volume of the *Atlas of the Lichens of the British Isles* has recently been published (Seaward & Hitch, 1982); it has been compiled from the above sources and contains distribution maps of 176 species, 156 of which occur in Ireland.

A comprehensive survey of herbaria has yet to be undertaken, although a start has been made on this, particularly in respect of Belfast (BEL), Cork (CRK), Dublin (DBN), Edinburgh (E) and the British Museum (Natural History), London (BM), and numerous smaller herbaria including Bolton (BON), Keighley (KGY) and that of the author. Little attempt has been made to determine the present status of many of the taxa in Ireland – some species, for example, are almost certainly extinct – and numerous vice-county entries are based on nineteenth century records. Doubtful vice-county records, either in regard to the identity or to the locality, are listed at the end of the present Census

Catalogue. Nomenclature is mainly according to Hawksworth, James and Coppins (1980). Letters in parentheses after vice-county records refer to the notes on page 32. [they are placed as footnotes here]

ACKNOWLEDGEMENTS

I wish to express my gratitude to the many who have contributed field records, to Dr. B. J. Coppins and Mr. P. W. James for their advice, particularly in respect of nomenclatural problems, to Dr. J. E. P. Currall who provided computer software for storage, retrieval and manipulation of the Irish vice-county distributional data, and to Mr. G. Dempsey who transferred the initial card-indexed information into a machine-readable form for computer processing.

I would like to thank the curators of the various herbaria noted in the introduction for their help and co-operation during the production of this catalogue, especially Miss M. J. P. Scannell, National Botanic Gardens Glasnevin (DBN).

BIBLIOGRAPHY

- AN FORAS FORBARTHA** (1980) *Money Point Generating Station: ecological impact assessment*. Dublin.
- AN FORAS FORBARTHA** (1980a) *Ecological baseline study at Aughinish Island, Shannon Estuary*. Dublin.
- COPPINS, B. J.** (1982) *Taxonomic and phytogeographical studies in the lichen genus Micarea* Fr. PhD thesis, University of London.
- COPPINS, B. J.** and **JAMES, P. W.** (1978) New or interesting British lichens II. *Lichenologist* 10:179-207.
- COPPINS, B. J.** and **JAMES, P. W.** (1979) New or interesting British lichens III. *Lichenologist* 11: 27-45.
- COPPINS, B. J.** and **JAMES, P. W.** (1979a) New or interesting British lichens IV. *Lichenologist* 11: 139-179.
- EARLAND-BENNETT, P. M.** (1974) *Umbilicaria spadochroa* (Hoffm.) DC. from Ireland. *Lichenologist* 6:128-129.
- FERRY, B. W.** (1975) Lichens of Cape Clear Island. *Cape Clear Bird Observatory Report* 13: 37-42.
- GILBERT, O. L.** (1978) *Fulgensia* in the British Isles. *Lichenologist* 10:33-45.
- HACKNEY, P.** (ed.) (1980) Field records — bryophytes and lichens. *Ir.Nat.J.* 20:170.
- HAWKSWORTH, D. L.** (1980) Lichens of the south Devon coastal schists. *Field Studies* 5: 195-227.
- HAWKSWORTH, D. L., JAMES, P. W.** and **COPPINS, B. J.** (1980) Checklist of British lichen-forming, lichenicolous and allied fungi. *Lichenologist* 12:1-115.
- HAWKSWORTH, D. L.** and **SEAWARD, M. R. D.** (1977) *Lichenology in the British Isles 1568-1975. An historical and bibliographical survey*. Richmond.
- JØRGENSEN, P.M.** and **JAMES, P.W.** (1983) Studies on some *Leptogium* species of western Europe. *Lichenologist* 15: 109-125.
- KIRBY, N.** (1980) New additions to the lichen flora of the Burren. *Ir. Nat. J.* 20:45.

- KNOWLES, M. C.** (1929) The lichens of Ireland. *Proc. R. Ir. Acad.* 38 B: 179-434.
- LAUNDON, J. R.** (1981) The species of *Chrysothrix*. *Lichenologist* 13: 101-121.
- McCARTHY, P. M.** (1978) A lichen "oasis" in Cork city. *Ir. Nat. J.* 19: 154-156.
- McCARTHY, P.M.** (1978a) Additions to the lichen flora of Cape Clear Island. *Cape Clear Bird Observatory Report* 15: 31-33.
- McCARTHY, P. M.** (1981) *An ecological study of saxicolous lichen communities at three locations in coastal areas of south-western and western Ireland*. PhD thesis, National University of Ireland.
- McCARTHY, P. M.** (1982) Microclimate and a maritime lichen cleft community. *Lichenologist* 14:195-197.
- McCARTHY, P.M.** (1983) The composition of some calcicolous lichen communities in the Burren, western Ireland. *Lichenologist* 15: 231-248.
- McCARTHY, P.M.** and **HOLLIGAN, P.M.** (1984) Inishvickillane, Co. Kerry: an important lichen site. *Ir. Nat. J.* 21: 266-274.
- MITCHELL, M. E.** (1971) *A bibliography of books, pamphlets and articles relating to Irish lichenology, 1727-1970*. Galway.
- MITCHELL, M. E.** (1983) Lichens. In *Flora of Connemara and the Burren* (by D. A. Webb & M. J. P. Scannell): 284-286. Cambridge.
- MITCHELL, M. E.** and **SCANNELL, M. J. P.** (1977) *Fulgensia subbracteata* (Nyl.) Poelt in Ireland. *Ir. Nat. J.* 19: 95.
- O'SULLIVAN, A. M.** (1973) *A partially annotated bibliography of the Irish flora 1960-1972*. Irish Vegetation Studies no. 3. An Foras Tahintais, Dublin.
- PORTER, L.** (1948) The lichens of Ireland. (Supplement.) *Proc. R. Ir. Acad.* 51 B: 347-386.
- PRAEGER, R. LI.** (1901) *Irish topographical botany*. Dublin.
- PRAEGER, R. LI.** (1949) *Some Irish naturalists*. Dundalk.
- SCANNELL, M. J. P.** (1978) *Catillaria bouteillei* (Desm.) Zahlbr., an epiphyll on leaves of *Prunus laurocerasus* L. from the collection of R. A. Phillips (1937). *Ir. Nat. J.* 19:172.
- SCANNELL, M. J. P.** (1978a) *Sticta dufourei* Del., new to north Tipperary. *Ir. Nat. J.* 19: 205.
- SCANNELL, M. J. P.** (1983) *Veizdaea leprosa* (P. James) Veizda, a lichen new to Ireland. *Ir. Nat. J.* 21:178-179.
- SCANNELL, M. J. P.** and **SYNNOTT, D. M.** (1972) *Census catalogue of the flora of Ireland*. Dublin.
- SEAWARD, M. R. D.** (1975) Some observations on the status of the lichen genus *Lobaria* in south-east Ireland. *Ir. Nat. J.* 18:248-250.
- SEAWARD, M. R. D.** (1975a) Contributions to the lichen flora of south-east Ireland – I. *Proc. R. Ir. Acad.* 75 B: 185-205.
- SEAWARD, M. R. D.** (ed.) (1977) *Lichen ecology*. London.
- SEAWARD, M. R. D.** (1977a) Contributions to the lichen flora of south-east Ireland – II. *Proc. R. Ir. Acad.* 77B: 119-134.

- SEAWARD, M. R. D.** (1978) Irish lichen flora: new vice-county records - 1. *Ir. Nat. J.* 19:189-191.
- SEAWARD, M. R. D.** (1979) Lichens. In: *The flora of County Carlow* (by E. M. Booth): 149-151. Dublin.
- SEAWARD, M. R. D.** (1980) Lichen mapping scheme: second progress report for Ireland. *Ir. Nat. J.* 20: 164-165.
- SEAWARD, M. R. D.** (1982) Additions to the lichen flora of County Carlow. *Ir. Nat. J.* 20:442-444.
- SEAWARD, M. R. D.** (1983) The lichens of County Laois. In: *Laois: an environmental study* (J. Feehan, ed.):130-131, 491-493. Ballykilkavan.
- SEAWARD, M. R. D., COPPINS, B. J.** and **HITCH, C. J. B.** (1978) Irish lichen flora: new vice-county records-2. *Ir. Nat. J.* 19: 268-269.
- SEAWARD, M. R. D.** and **HITCH, C. J. B.** (ed.) (1982) *Atlas of the lichens of the British Isles*. Volume 1. Cambridge.
- SEAWARD, M. R. D., NELSON, E. C.** and **COPPINS, B. J.** (1982) David Moore and Isaac Carroll: some lichenological and bryological correspondence. *Glasra* 6: 73-96.
- WATSON, W.** (1953) *Census catalogue of British lichens*. London.
- WEBB, D. A.** (1980) The biological vice-counties of Ireland. *Proc. R. Ir. Acad.* 80B: 179-196.

CENSUS CATALOGUE

<i>Absconditella delutula</i> (Nyl.) Coppins & Kilius	16
<i>Acarospora amphibola</i> Wedd.	4, 21, 39
<i>A. atrata</i> Hue	1, 21, 38
<i>A. benedarensis</i> Knowles	1, 21
<i>A. cervina</i> Massal.	13
<i>A. fuscata</i> (Nyl.) Arnold	1-7, 9-17, 19-21, 27, 29-31, 33, 38, 39
<i>A. glaucocarpa</i> (Ach.) Körber	38
<i>A. heppii</i> (Naeg.) Naeg.	21, 37
<i>A. macrospora</i> (Hepp) Bagl.	16
<i>A. magnussonii</i> G. Samp.	1
<i>A. rufescens</i> (Ach.) Bansch.	1
<i>A. sinopica</i> (Wahlenb.) Körber	3, 20, 35
<i>A. smaragdula</i> (Wahlenb.) Massal.	1, 3-5, 9, 12, 13, 16, 21, 27, 30, 31
var. <i>lesdainii</i> (Harm. ex A. L. Sm.) Magnusson	30
<i>A. veronensis</i> Massal.	3, 21
<i>Acrocordia conoidea</i> (Fr.) Körber	1, 2, 4, 5, 7-9, 14-20, 22, 24, 25, 27, 28, 30, 33, 36-39
<i>A. gemmata</i> (Ach.) Massal.	1-9, 11-14, 16-24, 27, 28, 30, 31, 33, 37-39
<i>A. macrospora</i> Massal.	3
<i>A. salweyi</i> (Leighton ex Nyl.) A. L. Sm.	1, 3, 5-7, 9, 11, 14-16
<i>Agonimia octospora</i> Coppins & P. James	1-3

<i>A. tristicula</i> (Nyl.) Zahlbr.	1, 2, 9, 16, 28, 29
<i>Amygdalaria pelobotryon</i> (Wahlenb.) Norman	1, 16, 39
<i>Anaptychia ciliaris</i> (L.) Körber	1, 2, 11-13
subsp. <i>mamillata</i> (Taylor) D. Hawksw. & P. James	1
<i>A. fusca</i> (Huds.) Vainio	1, 3-6, 8, 9, 11-13, 16, 17, 20, 21, 26-28, 31, 34, 35, 38-40
<i>Anisomeridium bifforme</i> (Borrer) R. C. Harris	1-14, 16-24, 27, 30-40
<i>A. juistense</i> (Erichsen) R. C. Harris	9, 22
<i>Aphanopsis terrigena</i> (Ach.) Nyl. ex P. Sydow	1
<i>Arctomia delicatula</i> Th. Fr.	16
<i>Arthonia aspersa</i> Leighton	2, 35
<i>A. atlantica</i> P. James	1, 2, 16
var. <i>positiva</i> P. James	1, 3
<i>A. cinereopruinosa</i> auct. angl.	20
<i>A. didyma</i> Körber	3, 16
<i>A. elegans</i> (Ach.) Almq.	1, 2, 16, 20
<i>A. endlicheri</i> (Garov.) Oxner	2, 3
<i>A. galactites</i> (DC.) Dufour	4
<i>A. impolita</i> (Hoffm.) Borrer	2, 3, 8, 14, 18, 35, 36 ^A
<i>A. lapidicola</i> (Taylor) Branth & Rostrup	1, 9, 29, 38, 39
<i>A. phaeobaea</i> (Norman) Norman	1, 16, 21
<i>A. punctiformis</i> Ach.	1-9, 11-14, 16, 18-23, 25, 27-29, 31-35, 38, 39
<i>A. radiata</i> (Pers.) Ach.	1-16, 18-25, 27-39
<i>A. spadicea</i> Leighton	1-3, 5, 11-14, 16, 18, 20, 21, 27, 39
<i>A. stellaris</i> Krempelh.	1-3, 28, 37
<i>A. tumidula</i> (Ach.) Ach.	1-25, 27-36, 38, 39
<i>A. vinosa</i> Leighton	1-3, 5, 7, 12, 13, 15, 16, 20, 27, 33, 38
<i>Arthopyrenia antecellans</i> (Nyl.) Arnold	1-5, 7, 12, 15, 16, 28, 29, 36
<i>A. caesia</i> (Nyl.) Zahlbr.	9
<i>A. cembrina</i> (Anzi) Grumm. ex D. Hawksw.	1-3, 16
<i>A. cerasi</i> (Schrader) Massal.	1, 2, 4
<i>A. elegans</i> R. Sant., in ed.	1, 16
<i>A. halodytes</i> (Nyl.) Arnold	1, 3-6, 9, 12, 16, 20, 21, 27, 31, 34, 35, 38-40
<i>A. rhyponia</i> (Ach.) Massal.	1, 3, 39
<i>A. saxicola</i> Massal.	2, 3, 9, 15, 39
<i>Arthothelium ilicinum</i> (Taylor) P. James	1-5, 16, 28
<i>A. lirellans</i> (Almq.) Coppins	1-3
<i>A. orbilliferum</i> (Almq.) Hasse	2
<i>A. spectabile</i> Flotow ex Massal.	2, 3

^A No recent records; see Seaward and Hitch (1982) map 6.

<i>Arthrorhaphis citrinella</i> (Ach.) Poelt	1, 2, 12, 16, 20, 38, 39
<i>Aspicilia alpina</i> (Sommerf.) Arnold	2
<i>A. caesiocinerea</i> (Nyl. ex Malbr.) Arnold	1-3, 5, 9, 12, 16, 20, 34, 38, 39
<i>A. calcarea</i> (L.) Mudd	1-34, 36, 37, 39, 40
<i>A. cinerea</i> (L.) Körber	1-5, 12, 13, 16, 20, 21, 29, 34, 38, 39
<i>A. contorta</i> (Hoffm.) Krempelh.	1, 2, 5-11, 13-21, 23, 26, 28, 29, 36, 39
<i>A. epiglypta</i> (Norrlin ex Nyl.) Hue	39
<i>A. gibbosa</i> (Ach.) Körber	1, 3, 6, 16, 19, 20, 34, 39
<i>A. intermutans</i> (Nyl.) Arnold	16, 20
<i>A. laevata</i> (Ach.) Arnold	1, 16, 20, 39
<i>A. leprodescens</i> (Sandst.) Havaas	1, 3, 4, 12, 16, 21, 22, 34, 35, 38, 39
<i>A. morioides</i> Blomb. ex Arnold	38
<i>A. recedens</i> (Taylor) Arnold	1, 16
<i>A. subdepressa</i> auct. angl.	1, 16
<i>A. sylvatica</i> (Arnold) Flagey	39
<i>Bacidia absistens</i> (Nyl.) Arnold	20
<i>B. arceutina</i> (Ach.) Arnold	1, 2, 6, 8-10, 12-16, 18-20, 23, 24, 27-30, 36, 37, 39
<i>B. assulata</i> (Körber) Vezda	1, 13
<i>B. beckhausii</i> Körber	9, 11, 14
<i>B. biatorina</i> (Körber) Vainio	2, 3
<i>B. carneoalbans</i> (Nyl.) A. L. Sm.	16
<i>B. carneoglaucata</i> (Nyl.) A. L. Sm.	16
<i>B. chloroticula</i> (Nyl.) A. L. Sm.	16, 20, 36
<i>B. circumpallens</i> (Nyl.) Arnold	9
<i>B. cuprea</i> (Massal.) Lettau	2, 3, 7, 9, 15, 16, 19, 23, 27, 28, 33, 37
<i>B. egenula</i> (Nyl.) Arnold	16, 27
<i>B. epixanthoides</i> (Nyl.) Lettau	2
<i>B. friesiana</i> (Hepp) Körber	1, 9, 11, 14, 18, 19, 25, 36
<i>B. incompta</i> (Borrer ex Hooker) Anzi	1, 2, 6, 8, 12, 16
<i>B. inundata</i> (Fr.) Körber	1, 2, 4, 16, 20, 33, 36
<i>B. laurocerasi</i> (Delise ex Duby) Zahlbr.	1-12, 14-20, 22-25, 27, 29, 32, 33, 36-38
<i>B. muscorum</i> (Ach.) Mudd	1, 2, 4, 5, 7, 9, 10, 12, 16, 20, 21, 34, 35, 37, 39
<i>B. naegelii</i> (Hepp) Zahlbr.	1, 3, 4, 6, 7, 9-13, 15, 16, 18-22, 24, 25, 27, 29, 32, 36-38, 40
<i>B. phacodes</i> Körber	2-5, 7-9, 12, 13, 15, 16, 18, 20-22, 25, 29, 30, 38
<i>B. rubella</i> (Hoffm.) Massal.	1-9, 11-14, 16, 18, 20-22, 24, 27, 30, 33, 36-39
<i>B. sabuletorum</i> (Schreber) Lettau	1-9, 11-16, 18, 20, 21, 23, 24, 29, 38, 39
<i>B. scopulicola</i> (Nyl.) A. L. Sm.	1, 3, 4, 9, 21, 31
<i>B. trachona</i> (Ach.) Lettau	1, 3
<i>B. vezdae</i> Coppins & P. James	20
<i>Baeomyces placophyllus</i> Ach.	39
<i>B. roseus</i> Pers.	1-3, 7, 16, 20, 28, 33, 35, 36, 38, 39
<i>B. rufus</i> (Huds.) Rebert.	1-9, 12-14, 16, 17, 20, 21, 25-29, 32, 33, 35, 36, 38, 39
<i>Belonia nidarosiensis</i> (Kindt) P. M. Jørg. & Vezda	2, 23

<i>Blarneya hibernica</i> D. Hawksw., Coppins & P. James	2, 6 ^B
<i>Bomblyospora pachycarpa</i> (Delise ex Duby) Massal.	1-3, 16, 39
<i>Bryophagus gloeocapsa</i> Nitschke ex Arnold	2, 4, 18, 36
<i>Bryoria bicolor</i> (Ehrh.) Brodo & D. Hawksw.	1, 12, 13, 20, 21, 39
<i>B. capillaris</i> (Ach.) Brodo & D. Hawksw.	5
<i>B. fuscescens</i> (Gyelnik) Brodo & Hawksw.	2, 6, 12, 13, 18, 20, 21, 36, 38-40
<i>B. subcana</i> (Nyl. ex Stizenb.) Brodo & Hawksw.	36, 39, 40
<i>Buellia aethalea</i> (Ach.) Th. Fr.	1-7, 9, 11-13, 16, 20, 21, 27, 29-31, 34, 35, 37-39
<i>B. coniops</i> (Wahlenb.) Th. Fr.	21, 27, 38
<i>B. disciformis</i> (Fr.) Mudd	1-6, 9, 16, 27, 28, 39
<i>B. geophila</i> (Flörke ex Sommerf.) Lynge	4
<i>B. griseovirens</i> (Turner & Borrer ex Sm.) Almb.	20, 33, 39
<i>B. leptoclinoides</i> (Nyl.) Steiner	13, 21, 38
<i>B. punctata</i> (Hoffm.) Massal.	1-16, 18-24, 27-31, 33-40
var. <i>excelsa</i> (Leighton) Sheard	16
<i>B. schaereri</i> de Not.	4
<i>B. stellulata</i> (Taylor) Mudd	1-9, 12, 13, 16, 20, 21, 26-31, 34, 35, 38-40
<i>B. subdisciformis</i> (Leighton) Vainio	1-4, 9, 16, 21, 27, 31, 38
<i>B. succedens</i> (Nyl.) Arnold	2, 16
<i>B. verruculosa</i> (Sm.) Mudd	1-4, 6, 9, 11, 12, 16, 19-21, 28, 34-40
<i>Byssoloma subdiscordans</i> (Nyl.) P. James	16, 27, 29
<i>Calicium abietinum</i> Pers.	5, 36
<i>C. diploellum</i> Nyl.	2
<i>C. glaucellum</i> Ach.	39
<i>C. quercinum</i> Pers.	3
<i>C. salicinum</i> Pers.	3, 20, 39
<i>C. subquercinum</i> Asah.	2
<i>C. viride</i> Pers.	2, 6, 7, 11-14, 18-20, 22, 24, 39
<i>Caloplaca albolutescens</i> (Nyl.) H. Olivier	17, 21
<i>C. arnoldii</i> (Wedd.) Zahlbr. ex Ginzb.	21
<i>C. atroflava</i> (Turner) Mong.	3, 4, 6, 9, 12, 16, 21, 29, 32, 34, 38, 39
var. <i>submersa</i> (Nyl.) Magnusson	16
<i>C. aurantia</i> (Pers.) Hellbom	1, 3-12, 14-23, 25-29, 33, 34, 36, 38, 39
<i>C. caesiorufa</i> (Wibel) Flagey	1-6, 8, 9, 12, 16, 21, 27, 38-40
<i>C. cerina</i> (Ehrh. ex Hedw.) Th. Fr.	1-23, 25, 27-31, 34-37
<i>C. cerinella</i> (Nyl.) Flagey	3, 7, 8, 10-12, 14, 15, 17, 18, 28, 36
<i>C. chalybaea</i> (Fr.) Müll. Arg.	2, 3
<i>C. chlorina</i> (Flotow) Sandst.	1, 16, 30, 36
<i>C. cirrochroa</i> (Ach.) Th. Fr.	1, 2, 9, 16, 19-21, 28, 38, 39
<i>C. citrina</i> (Hoffm.) Th. Fr.	1-40

^B See Hawksworth, Coppins and James (1980).

<i>C. concilians</i> (Nyl.) H. Olivier	34, 38, 39
<i>C. decipiens</i> (Arnold) Blomb. & Forss.	7, 11-14, 20, 39
<i>C. erythrocarpa</i> (Pers.) Zwackh	5
<i>C. ferruginea</i> (Huds.) Th. Fr.	1, 4, 8, 16, 27, 28, 31, 35, 36, 39
<i>C. festiva</i> (Ach.) Zwackh	1-13, 16, 18-23, 25, 27-29, 32-35, 38-40
<i>C. flavovirescens</i> (Wulfen) Dalla Torre & Sarnth.	1, 2, 4, 5, 9, 16, 17, 20, 21, 28, 34, 37-39
<i>C. granulosa</i> (Müll. Arg.) Zahlbr.	1, 3, 12, 21, 38, 39
<i>C. heppiana</i> (Müll. Arg.) Zahlbr.	1-16, 18-29, 33, 34, 38, 39
<i>C. holocarpa</i> (Hoffm.) Wade	1-4, 6, 7, 9, 11-16, 18-24, 27, 28, 30, 32-34, 38, 39
<i>C. isidiigera</i> Vezda	16
<i>C. lactea</i> (Massal.) Zahlbr.	7, 9, 15
<i>C. littorea</i> Tavares	1, 39
<i>C. luteoalba</i> (Turner) Th. Fr.	1, 2, 4-6, 8, 11, 18 ^C
<i>C. marina</i> (Wedd.) Zahlbr.	1-6, 8, 9, 12, 16, 19-22, 27-29, 31, 35, 38-40
<i>C. microthallina</i> (Wedd.) Zahlbr.	1, 3-5, 21, 22, 38, 39
<i>C. ochracea</i> (Schaerer) Flagey	1, 2, 4, 5, 7-9, 15, 17, 19, 22, 23, 34, 37-39
<i>C. sarcopisioides</i> (Körber) Zahlbr.	12, 13, 16, 18, 20, 21 ^D
<i>C. saxicola</i> (Hoffm.) Nordin	1-23, 25-40
<i>C. teicholyta</i> (Ach.) Steiner	4, 9, 24
<i>C. thallincola</i> (Wedd.) Du Rietz	1, 3-6, 9, 12, 16, 21, 22, 27, 28, 31, 35, 36, 38, 39
<i>C. ulcerosa</i> Coppins & P. James	2, 5, 8, 11, 30
<i>C. variabilis</i> (Pers.) Müll. Arg.	9, 15, 16, 27, 28
<i>C. velana</i> (Massal.) Du Rietz	39
<i>C. verruculifera</i> (Vainio) Zahlbr.	1, 3, 5, 9, 12, 16, 21, 27, 34, 38, 39
<i>C. vitellinula</i> auct.	1, 3-12, 14, 16, 19-21, 23, 24, 27-29, 34-36, 38-40
<i>Candelaria concolor</i> (Dickson) Stein	1-5, 7-10, 12-16, 18, 20-22, 24, 37, 39
<i>Candelariella aurella</i> (Hoffm.) Zahlbr.	1, 3, 4, 6, 7, 10-14, 17-21, 23, 31, 34, 35, 38
<i>C. coralliza</i> (Nyl.) Magnusson	1, 3, 10, 13, 16, 21, 22, 35, 36, 38, 39
<i>C. medians</i> (Nyl.) A. L. Sm.	7, 9, 11, 12, 14, 16, 18-23, 25, 26
<i>C. reflexa</i> (Nyl.) Lettau	1, 3, 6, 7, 9, 11-14, 18-23, 38
<i>C. vitellina</i> (Hoffm.) Müll. Arg.	1-14, 16, 18-23, 25-36, 38-40
<i>C. xanthostigma</i> (Ach.) Lettau	6, 7, 9, 11-14, 18, 20-23
<i>Catapyrenium cinereum</i> (Pers.) Körber	16
<i>C. lachneum</i> (Ach.) R.Sant.	1, 3-7, 9, 13, 15-18, 20-22, 24, 27, 28, 31, 33-35, 38, 39
<i>Catillaria anomaloides</i> auct.	16
<i>C. atropurpurea</i> (Schaerer) Th. Fr.	1-5, 9, 16
<i>C. biformigera</i> (Leighton) Magnusson	1, 3, 16, 20, 27, 30, 34
<i>C. bouteillei</i> (Desmaz.) Zahlbr.	3, 8, 10, 14, 15, 18-20, 36
<i>C. chalybeia</i> (Borrer) Massal.	1-7, 9-13, 16, 19-22, 24, 26-30, 32-39
<i>C. contristans</i> (Nyl.) Zahlbr.	20, 21
<i>C. lenticularis</i> (Ach.) Th. Fr.	1-12, 14-16, 18-23, 25, 27-40

^C No recent records; see Seaward and Hitch (1982) map 24.

^D Some, or all, records may refer to *C. obscurella* (Lahm) Th. Fr.

<i>C. littorella</i> auct. brit., non (Nyl.) Zahlbr.	1, 3-6, 8, 16, 18, 19, 21
<i>C. nigroclavata</i> (Nyl.) Schuler	4, 5, 7, 13, 39
<i>C. pulverea</i> (Borrer) Lettau	1-4, 16, 20
<i>C. sphaeroides</i> (Dickson) Schuler	1, 2, 9, 13, 15, 16, 21, 23, 27, 28, 33, 37
<i>C. umbraticula</i> (Nyl.) P. James	16, 39
<i>Catinaria grossa</i> (Pers. ex Nyl.) Vainio	1-4, 6, 8, 9, 15, 27, 33, 39
<i>Cetraria chlorophylla</i> (Willd.) Vainio	16, 35, 39
<i>C. ericetorum</i> Opiz	2, 38
<i>C. islandica</i> (L.) Ach.	1-4, 16, 27, 28, 34, 35, 38
<i>Cetrelia olivetorum</i> (Nyl.) Culb. & C. Culb.	1-4, 7, 20, 25
<i>Chaenotheca brunneola</i> (Ach.) Müll. Arg.	1, 2
<i>C. hispidula</i> (Ach.) Zahlbr.	8, 12, 13
<i>C. trichialis</i> (Ach.) Th. Fr.	2, 5, 6, 8, 33, 39
<i>Chiodecton myrticola</i> Fée	1, 2, 39
<i>C. petraeum</i> Delise ex Duby	2
<i>Chrysothrix candelaris</i> (L.) Laundon	1-7, 9, 11-14, 18-24, 28, 30, 33, 37-40
<i>C. chrysophthalma</i> (P. James) P. James & Laundon	2
<i>Cladonia anomaea</i> (Ach.) Ahti & P. James	1-5, 11-18, 20, 23, 27, 28, 33, 36, 39
<i>C. arbuscula</i> (Wallr.) Rabenh.	1-4, 6-21, 23-40
<i>C. bacillaris</i> auct.	7, 16, 20, 25, 36, 39
<i>C. bellidiflora</i> (Ach.) Schaerer	1, 2, 7, 8, 12-14, 20, 21, 27, 33, 34, 37-39
<i>C. caespiticia</i> (Pers.) Flörke	1, 2, 4, 16, 20, 33, 38, 39
<i>C. capitata</i> (Michaux) Sprengel	1, 39
<i>C. cariosa</i> (Ach.) Sprengel	3, 36
<i>C. cervicornis</i> (Ach.) Flotow	1-4, 12, 16, 21, 35, 38
subsp. <i>verticillata</i> (Hoffm.) Ahti	1-3, 13-16, 18-20, 24, 25, 27, 28, 33, 36, 39
<i>C. chlorophaea</i> (Flörke ex Sommerf.) Sprengel	1-4, 6-8, 10-21, 23-25, 27, 33, 35-40
<i>C. ciliata</i> Stirton	1, 2, 12, 15, 16, 33
var. <i>tenuis</i> (Flörke) Ahti	1-4, 7, 9-13, 15, 16, 18, 20, 24-28, 33, 35, 36, 38, 39
<i>C. coccifera</i> (L.) Wild.	1-21, 23-25, 27-31, 33-40
<i>C. coniocraea</i> auct.	1-7, 9-14, 16-29, 31, 33-36, 38, 39
<i>C. conoidea</i> Ahti	1, 2, 10, 12, 13, 16, 20, 27, 38, 39
<i>C. convoluta</i> (Lam.) Cout.	2, 3
<i>C. cornuta</i> (L.) Hoffm.	3, 20, 39
<i>C. crispata</i> var. <i>cetrariiformis</i> (Deise) Vainio	1-3, 7, 9, 12-14, 18-21, 23-25, 28, 29, 33, 36-39
<i>C. cryptochlorophaea</i> Asah.	23, 25
<i>C. cyathomorpha</i> W. Watson	2, 38
<i>C. deformis</i> (L.) Hoffm.	20, 21, 27
<i>C. digitata</i> (L.) Hoffm.	1-6, 12, 14, 20, 21, 27, 28, 33, 36, 38
<i>C. fimbriata</i> (L.) Fr.	1-14, 16, 17, 19-40
<i>C. floerkeana</i> (Fr.) Flörke	1-5, 7, 9-16, 18-21, 23-31, 33-40

<i>C. foliacea</i> (Huds.) Wild.	1-3, 6-8, 12, 16, 20, 21, 27
<i>C. furcata</i> (Huds.) Schrader	1-21, 23-25, 27-40
var. <i>subrangiformis</i> (Scriba ex Sandst.) Pisut	2, 3, 9, 21
<i>C. glauca</i> Flörke	14, 18, 21, 24, 25, 36, 37
<i>C. gracilis</i> (L.) Wild.	1-4, 7-9, 11-16, 18-21, 25-28, 33, 34, 36-39
<i>C. incrassata</i> Flörke	9, 33
<i>C. luteoalba</i> A. Wilson & Wheldon	3, 11, 20, 39
<i>C. macilenta</i> Hoffm.	1-3, 6, 7, 9-14, 16-21, 24-29, 31, 33, 35-39
<i>C. merochlorophaea</i> Asah.	16, 36
<i>C. mitis</i> Sandst.	16, 27
<i>C. ochrochlora</i> Flörke	1-6, 11, 17, 18, 20, 28, 35, 36, 39
<i>C. parasitica</i> (Hoffm.) Hoffm.	1-3, 19, 21, 27, 28, 38
<i>C. phyllophora</i> Ehrh. ex Hoffm.	1, 7, 8, 18, 21, 27, 38
<i>C. pleurota</i> (Flörke) Schaerer	2, 16, 20, 21, 27, 39
<i>C. pocillum</i> (Ach.) O.-J. Rich.	1, 6-16, 20, 21, 28, 29, 33, 34, 38, 39
<i>C. polydactyla</i> (Flörke) Sprengel	1-7, 9, 11-14, 16-18, 20, 21, 24, 25, 27-30, 33, 35, 36, 38-40
<i>C. portentosa</i> (Dufour) Coem.	1-4, 6, 7, 9-21, 23-25, 27, 28, 31, 33, 35-40
<i>C. pyxidata</i> (L.) Hoffm.	1-6, 9, 11-13, 16-18, 20, 21, 23-28, 33, 35, 38, 39
<i>C. rangiferina</i> (L.) Wigg.	16, 27, 28, 39
<i>C. rangiformis</i> Hoffm.	1-17, 19-21, 23-31, 33-40
<i>C. scabriuscula</i> (Deise) Leighton	3, 10, 13, 14, 16, 18, 20, 21, 27, 36, 38, 39
<i>C. squamosa</i> (Scop.) Hoffm.	1-8, 10-14, 16-18, 20, 21, 24, 25, 27-30, 32-39
var. <i>subsquamosa</i> (Nyl. ex Leighton) Vainio	1-4, 8, 10, 12, 13, 16, 20, 21, 27-29, 33, 35, 39
<i>C. stellaris</i> (Opiz) Pouzar & Vezda	3, 19, 21, 39
<i>C. stereoclada</i> des	1
<i>C. strepsilis</i> (Ach.) Vainio	1-3, 14, 16, 20, 26, 27, 35, 36, 38
<i>C. subcervicornis</i> (Vainio) Kernst.	1-17, 19-21, 23, 24, 26-36, 38-40
<i>C. subulata</i> (L.) Wigg.	2-4, 8, 10-14, 16, 18, 20, 21, 23, 24, 27-29, 33, 35-39
<i>C. uncialis</i> subsp. <i>biuncialis</i> (Hoffm.) Choisy	1-6, 8-21, 23-31, 33-40
<i>Cliostomum graniforme</i> (Hagen) Coppins	3, 20
<i>C. griffithii</i> (Sm.) Coppins	1-14, 18-23, 29-32, 36, 38, 39
<i>Coelocaulon aculeatum</i> (Schreber) Link	1-3, 6, 8, 12, 13, 16, 20, 21, 33-36, 38, 39
subsp. <i>hispidum</i> (Crombie) D. Hawksw.	2, 3, 11, 12, 16, 20, 25, 27, 33-35
<i>Collema auriculatum</i> Hoffm.	1-5, 7-9, 12, 14-16, 18-20, 23, 28, 29, 33, 38, 39
<i>C. confertum</i> Arnold	9
<i>C. crispum</i> (Huds.) Wigg.	1-5, 7-16, 18-24, 26-28, 33, 35-39
<i>C. cristatum</i> (L.) Wigg.	1-19, 21, 22, 24-30, 33-39
var. <i>marginale</i> (Huds.) Degel.	9, 15
<i>C. fasciculare</i> (L.) Wigg.	1-4, 16, 28, 29, 33
<i>C. flaccidum</i> (Ach.) Ach.	1-3, 5-8, 16, 18-20, 24, 27, 29
<i>C. fluviatile</i> (Huds.) Steudel	14, 39
<i>C. fragile</i> Taylor	1, 2, 9, 15, 16, 28, 35
<i>C. fragrans</i> (Sm.) Ach.	3
<i>C. furfuraceum</i> (Arnold) Du Rietz	1-4, 7, 9, 13, 14, 16, 20, 27, 28, 39

<i>C. glebulentum</i> (Nyl. ex Crombie) Degel.	1, 2
<i>C. limosum</i> (Ach.) Ach.	1, 7, 16, 20, 21, 39
<i>C. multipartitum</i> Sm.	1, 2, 5, 8, 9, 15, 16, 19, 27, 28, 37, 39
<i>C. nigrescens</i> (Huds.) DC.	1-6, 8, 12, 17, 20, 27-30, 33-36, 39
<i>C. polycarpon</i> Hoffm.	1, 9, 15, 16, 28, 36
<i>C. subflaccidum</i> Degel.	1-3, 5-7, 9, 16, 20, 39
<i>C. subnigrescens</i> Degel.	1, 2, 9, 16
<i>C. tenax</i> (Swartz) Ach.	1-23, 25-31, 33-40
var. <i>ceranoides</i> (Borrer) Degel.	1, 3, 8, 9, 16, 21, 27, 28
var. <i>vulgare</i> (Schaerer) Degel.	1, 9, 38
<i>C. tuniforme</i> (Ach.) Ach.	1, 2, 5, 9, 14-16, 25, 28, 29, 34, 37, 39
<i>C. undulatum</i> var. <i>granulosum</i> Degel.	9
<i>Coniocybe furfuracea</i> (L.) Ach.	1, 3, 39
<i>Coriscium viride</i> (Ach.) Vainio	1-5, 15, 16, 20, 21, 27, 35, 36, 38, 39
<i>Cornicularia normoerica</i> (Gunn.) Du Rietz	1, 16, 20, 35, 38
<i>Cryptolechia carneolutea</i> (Turner) Massal.	9
<i>Cyphelium inquinans</i> (Sm.) Trevisan	5, 6
<i>Cystocoleus ebeneus</i> (Dillwyn) Thwaites	1, 2, 4, 12, 20, 33, 38, 39
<i>Dendriscoaulon umhausense</i> (Auersw.) Degel.	2
<i>Dermatocarpon meiophyllizum</i> Vainio	1-3, 6, 20, 27-29
<i>D. miniatum</i> (L.) Mann	1-11, 14-21, 23-25, 27-29, 34, 35, 39, 40
<i>D. weberi</i> (Ach.) Mann	1-3, 6, 16, 19, 20, 26-30, 34, 36, 38, 39
<i>Dimerella diluta</i> (Pers.) Trevisan	1, 2, 4, 5, 8-13, 20, 21, 23, 37, 39
<i>D. lutea</i> (Dickson) Trevisan	1-5, 7-9, 12, 14, 16, 17, 20, 24, 26, 27, 33, 36, 38, 39
<i>Diploicia canescens</i> (Dickson) Massal.	1-16, 18-29, 31-40
<i>Diploschistes gypsaceus</i> auct.	9, 15, 16
<i>D. muscorum</i> (Scop.) R. Sant.	1-5, 7, 10, 12, 16, 21, 28, 30, 31, 33-35, 37, 39, 40
<i>D. scruposus</i> (Schreber) Norman	1, 2, 4, 5, 7, 9, 10, 12, 15, 20, 21, 26, 29, 33, 38, 39
<i>Diplotomma alboatrum</i> (Hoffm.) Flotow	1, 3-23, 25, 27-29, 33-39
<i>D. chlorophaeum</i> (Hepp ex Müll. Arg.)	1, 3, 5, 6, 11, 12, 21, 38, 39
<i>D. epipolium</i> (Ach.) Arnold	1, 3, 4, 6, 8-12, 16, 17, 19-22, 27-29, 33-39
<i>Dirina massiliensis</i> f. <i>sorediata</i> (Müll. Arg.) Tehler	1-3, 39
<i>Encephalographa cerebrina</i> (DC.) Massal.	1
<i>Endocarpon adscendens</i> (Anzi) Müll. Arg.	2, 16

<i>Enterographa crassa</i> (DC.) Fée	1-31, 33-40
<i>E. elaborata</i> (Lyell ex Leighton) Coppins	1, 8
<i>F. hutchinsiae</i> (Leighton) Massal.	1-4, 16, 20
<i>Ephebe hispidula</i> (Ach.) Henssen	1, 2, 27, 39
<i>E. lanata</i> (L.) Vainio	1-4, 6, 7, 16, 19-21, 27, 35, 36, 39
<i>Epilichen scabrosus</i> (Ach.) Clem.	3, 16
<i>Evernia prunastri</i> (L.) Ach.	1-40
<i>Fulgensia fulgens</i> (Swartz) Elenkin	12 ^E
<i>Fuscidea cyathoides</i> (Ach.) V. Wirth & Vezda	1-4, 6-9, 11-14, 16, 19-21, 27-29, 31, 33-36, 38-40
<i>F. kochiana</i> (Hepp) V. Wirth & Vezda	6, 7, 11-14, 16, 18, 20, 27, 36, 38
<i>F. lightfootii</i> (Sm.) Coppins & P. James	1-7, 9-16, 18, 20, 21, 23, 24, 30, 32, 33, 37, 39
<i>F. lygaea</i> (Ach.) V. Wirth & Vezda	2, 16, 27
<i>F. recens</i> (Stirton) Hertel, V. Wirth & Vezda	3, 7
<i>F. tenebrica</i> (Nyl.) V. Wirth & Vezda	1, 3, 38
<i>Gomphillus calycioides</i> (Deise) Nyl.	1-3, 7, 9, 16
<i>Graphina anguina</i> (Mont.) Müll. Arg.	1-40
<i>G. pauciloculata</i> Coppins & P. James	5
<i>G. ruiziana</i> (Fée) Müll. Arg.	1-5, 9, 16, 27
<i>Graphis elegans</i> (Borrer ex Sm.) Ach.	1-29, 33, 35-39
<i>G. scripta</i> (L.) Ach.	1-40
<i>Gyalecta derivata</i> (Nyl.) H. Olivier	7, 14, 21, 22, 24
<i>G. fiotowii</i> Körber	3, 4, 6, 8, 20, 22
<i>G. jenensis</i> (Batsch) Zahlbr.	1-3, 7-11, 14-18, 20-23, 25, 27-29, 31, 33, 35, 36, 39
<i>G. truncigena</i> (Ach.) Hepp	1-9, 11, 12, 14, 20-22, 24, 30
<i>Gyalidea hyalinescens</i> (Nyl.) Vezda	16
<i>Gyalideopsis anastomosans</i> P. James & Vezda	12
<i>Haematomma caesium</i> Coppins & P. James	1-4, 6, 16
<i>H. elatinum</i> (Ach.) Massal.	1-5, 15, 16, 27
<i>H. leprarioides</i> (Vainio) Vainio	2, 3
<i>H. ochroleucum</i> (Necker) Laundon	1-3, 11, 12, 19, 20, 29, 39 ^F
<i>H. ventosum</i> (L.) Massal.	4, 12, 16, 20, 21, 34, 38, 40

^E: See Mitchell and Scannell (1977) and Gilbert (1978).

^F No differentiation into vars. *ochroleucum* and *porphyrium*.

<i>Herteliana taylorii</i> (Salwey) P. James	1-4, 16, 20, 27, 38
<i>Heterodermia leucomelos</i> (L.) Poelt	1, 3, 5, 21
<i>H. obscurata</i> (Nyl.) Trevisan	1-4, 8, 14, 16, 21, 29, 30, 39
<i>Huilia albocaerulescens</i> (Wulfen) Hertel	1-4, 6-14, 16, 19-21, 24, 26, 27, 32, 33, 36, 38, 39
<i>H. cinereoatra</i> (Ach.) Hertel	1, 9, 13, 27, 28
<i>H. consentiens</i> (Nyl.) Hertel	1, 9, 20, 39
<i>H. crustulata</i> (Ach.) Hertel	1-7, 9-16, 20-23, 25, 27, 28, 30-33, 35, 36, 39
<i>H. hydrophila</i> (Fr.) Hertel	16, 20
<i>H. macrocarpa</i> (DC.) Hertel	1-14, 16, 18, 20, 21, 26-40
<i>H. melinodes</i> (Körber) Hertel	2, 16, 27
<i>H. platycarpoides</i> (Bagl.) Hertel	1-3, 16, 19, 27, 38, 39
<i>H. soledizodes</i> (Lamy) Hertel	2, 39
<i>H. tuberculosa</i> (Sm.) P. James	1-4, 6-14, 16, 18-22, 27-29, 31-33, 36, 38, 39
<i>Hymenelia lacustris</i> (With.) Poelt & Vezda	1-3, 6, 9, 16, 20, 21, 27-31, 33, 35, 36, 38, 39
<i>H. prevostii</i> (Duby) Krempelh.	28
<i>Hypocenomyce scalaris</i> (Ach.) Choisy	3, 6, 12, 14, 18, 20, 21, 36, 38
<i>Hypogymnia intestiniformis</i> (Vill.) Räsänen	26, 27
<i>H. physodes</i> (L.) Nyl.	1-16, 18-40
<i>H. tubulosa</i> (Schaerer) Havaas	1-7, 9-16, 18-22, 24, 25, 27, 29, 30, 33, 35-37, 39, 40
<i>Icmadophila ericetorum</i> (L.) Zahlbr.	1-3, 9, 12, 16, 18, 20, 21, 25, 27-29, 33, 35, 39
<i>Ionaspis epulotica</i> (Ach.) Blomb. & Forss.	1, 6, 9, 16, 20, 39
<i>Lasallia pustulata</i> (L.) Mérat	1-3, 16, 20, 39
<i>Lecanactis abietina</i> (Ach.) Körber	1-4, 6, 13, 18, 20, 28, 33, 35, 38, 39
<i>L. homalotropa</i> (Nyl.) Gilenstam	1-4, 16
<i>L. lyncea</i> (Sm.) Fr.	14
<i>L. plocina</i> auct.	16
<i>L. premnea</i> (Ach.) Arnold	1-3, 5-9, 11-16, 18-21, 38, 39
<i>L. subabietina</i> Coppins & P. James	1, 2, 16
<i>Lecania actaea</i> (Nyl.) B. de Lesd.	3, 16, 21, 27
<i>L. aipospila</i> (Wahlenb.) Th. Fr.	1, 3, 4, 21, 27, 34, 39
<i>L. albariella</i> (Nyl.) Müll. Arg.	2, 4, 7, 16, 19, 20, 27, 39
<i>L. atrynoides</i> Knowles	3, 21
<i>L. baeomma</i> (Nyl.) P. James & Laundon	1, 3, 4, 7-10, 16, 22, 28
<i>L. cyrtella</i> (Ach.) Th. Fr.	2-14, 16, 18-23, 27, 28, 33, 39
<i>L. dubitans</i> (Nyl.) A. L. Sm.	4
<i>L. erysibe</i> (Ach.) Mudd	1-7, 9, 12-14, 16, 18-23, 27, 34, 37-39
<i>L. fuscella</i> (Schaerer) Körber	4, 14, 18, 20, 25

<i>L. ralfsii</i> (Salwey) A. L. Sm.	1, 3, 16, 21
<i>L. spodomela</i> (Nyl.) A. L. Sm.	16, 21
<i>Lecanora actophila</i> Wedd.	1, 3, 9, 12, 16, 21, 22, 31, 34, 35, 38, 39
<i>L. agardhiana</i> Ach.	21, 32
<i>L. aitema</i> (Ach.) Hepp	2, 15, 18, 39
<i>L. albescens</i> (Hoffm.) Branth & Rostrup	1-40
<i>L. andrewii</i> B. de Lesd.	1, 3, 16
<i>L. atra</i> (Huds.) Ach.	1-40
<i>L. badia</i> (Pers.) Ach.	1, 3, 6, 11-13, 16, 19, 20, 22, 38, 39
<i>L. campestris</i> (Schaerer) Hue	1-23, 27-30, 32-39
<i>L. carpinea</i> (L.) Vainio	1-16, 18-25, 27-40
<i>L. cenisia</i> Ach.	2, 4, 6, 12, 20, 21, 27, 38, 39
<i>L. chlarotera</i> Nyl.	1-25, 27-39
<i>L. conferta</i> (Duby ex Fr.) Grognot	21, 36
<i>L. confusa</i> Almb.	1, 3-7, 9-14, 18-21, 27, 28, 38, 39
<i>L. conizaeoides</i> Nyl. ex Crombie	4-6, 11-14, 16, 18-22, 36-39
<i>L. crenulata</i> (Dickson) Hook.	1, 2, 6-9, 11, 14-16, 20-23, 27, 29, 30, 32, 34-36, 38, 39
<i>L. dispersa</i> (Pers.) Sommerf.	1-40
<i>L. epanora</i> (Ach.) Ach.	1, 3, 12, 20, 21, 35
<i>L. epibryon</i> (Ach.) Ach.	39
<i>L. expallens</i> Ach.	1-14, 16, 18-24, 27, 28, 30, 33, 34, 36, 39
<i>L. frustulosa</i> (Dickson) Ach.	11, 16
<i>L. fugiens</i> Nyl.	1, 3, 5, 12, 16, 21, 29, 39
<i>L. gangaleoides</i> Nyl.	1-3, 6, 9-13, 16, 20, 21, 27, 31, 34, 35, 38, 39
<i>L. grumosa</i> (Pers.) Du Rietz	20
<i>L. helicopsis</i> (Wahlenb. ex Ach.) Ach.	1, 3, 4, 6, 8, 9, 12, 16, 20-22, 27, 31, 34, 35, 38-40
<i>L. intricata</i> (Ach.) Ach.	1-3, 6, 7, 16, 20, 27-29, 38, 39
<i>L. intumescens</i> (Rebent.) Rabenh.	1, 2, 4, 7, 8, 13, 18, 27
<i>L. jamesii</i> Laundon	1-4, 16, 24, 27, 28
<i>L. laevis</i> Poelt	25, 28, 37
<i>L. muralis</i> (Schreber) Rabenh.	1-7, 9, 11-14, 16-22, 30, 31, 33, 34, 36, 38-40
<i>L. nitens</i> Ach.	20
<i>L. pallida</i> (Schreber) Rabenh.	1-10, 14-16, 18-21, 25, 27, 29-31, 34-38, 40
<i>L. piniperda</i> Körber	1, 16, 18
<i>L. poliophaea</i> (Wahlenb. ex Ach.) Ach.	1, 3, 16, 34, 38, 39
<i>L. polytropa</i> (Hoffm.) Rabenh.	1-4, 6, 7, 9-14, 16, 18-22, 27-31, 33-36, 38-40
<i>L. praepostera</i> Nyl.	3
<i>L. rupicola</i> (L.) Zahlbr.	1, 3, 4, 6, 9-14, 16, 19-21, 31, 34-36, 38-40
<i>L. saligna</i> (Schrader) Zahlbr.	12, 21, 34
<i>L. sambuci</i> (Pers.) Nyl.	1, 7, 9, 11, 12, 14, 18, 21, 28, 37
<i>L. soralifera</i> (Suza) Räsänen	1-3, 6, 7, 9-14, 19-22, 38, 39
<i>L. subcarnea</i> (Liljeblad) Ach.	2, 6, 16
<i>L. subfuscata</i> Magnusson	24, 25, 36, 39
<i>L. symmicta</i> (Ach.) Ach.	1, 3-7, 9-14, 16, 18-21, 23, 27, 28, 30-33, 36, 38, 39
<i>L. tenera</i> (Nyl.) Crombie	1, 3, 12, 16
<i>L. varia</i> (Hoffm.) Ach.	1-24, 26-30, 32-36, 38-40

<i>Lecidea advertens</i> Nyl.		27
<i>L. aeruginosa</i> Bower		1, 2, 5, 23
<i>L. aglaea</i> Sommerf.		2, 16, 39
<i>L. auriculata</i> Th. Fr.		1, 12, 25, 27, 38-40
<i>L. caesioatra</i> Schaerer		16
<i>L. carrollii</i> Coppins & P. James		1-5, 7-9, 15-17, 20, 27, 33, 35 ^G
<i>L. confluens</i> (Web.) Ach.	1, 3, 4, 6, 8, 9, 16, 20, 21, 27, 29, 32, 33, 35, 36, 38-40	
<i>L. diducens</i> Nyl.		1, 16, 27, 38
<i>L. erratica</i> Körber		4, 15, 16, 39
<i>L. fuliginosa</i> Taylor		1, 3, 16
<i>L. furvella</i> Nyl. ex Mudd		38
<i>L. fuscoatra</i> (L.) Ach.	1-4, 11, 12, 14, 16, 20, 21, 27, 36, 38, 39	
<i>L. gelatinosa</i> Flörke		3, 16, 20, 21, 39
<i>L. granulosa</i> (Hoffm.) Ach.	1-14, 16, 18-23, 25, 27-29, 33-35, 38, 39	
<i>L. grumosa</i> Leighton		16, 38
<i>L. hypnorum</i> Labert		1-3, 14, 16, 20, 28, 33, 37, 39
<i>L. immersa</i> (Hoffm.) Ach.	1, 2, 4-6, 8, 9, 14-22, 28-30, 34, 37, 39	
<i>L. lactea</i> Flörke ex Schaerer		1-3, 8, 9, 20, 21, 27, 36, 38, 39
<i>L. lapicida</i> (Ach.) Ach.		1, 20, 38, 39
<i>L. leucophaea</i> (Flörke ex Rabenh.) Nyl.		1, 3, 16, 20, 28, 36, 38
<i>L. limborina</i> (Nyl.) Lamy		1
<i>L. limosa</i> Ach.		31
<i>L. lithophila</i> (Ach.) Ach.	1, 2, 5, 13, 16, 20, 27, 30-32, 36, 38-40	
<i>L. macula</i> Taylor		1, 16, 32
<i>L. matildae</i> Magnusson		20
<i>L. metzleri</i> (Körber) Th. Fr.		4, 9, 13, 16, 19, 27, 28, 33
<i>L. monticola</i> (Ach.) Schaerer	1-5, 7-9, 11-16, 18-25, 27-29, 32-34, 36, 39	
<i>L. ochrococca</i> Nyl.		2
<i>L. orosthea</i> (Ach.) Ach.		1-3, 6, 7, 16, 20, 21, 38
<i>L. pedatula</i> Nyl.		16
<i>L. phaeops</i> Nyl.		1-3, 16, 27, 39
<i>L. plana</i> (Lahm) Nyl.		36, 38
<i>L. pycnocarpa</i> (Körber) Ohl.		29
<i>L. rufofusca</i> (Anzi) Nyl.		16
<i>L. speirea</i> (Ach.) Ach.	1, 3, 6, 9, 11, 16, 19, 20, 27, 30	
<i>L. submoestula</i> Nyl.		16, 39
<i>L. subumbonella</i> Lamy		16, 30
<i>L. sulphurea</i> (Hoffm.) Wahlenb.	1-4, 6-9, 11-14, 16, 20, 21, 27-29, 34, 35, 38-40	
<i>L. tephrizans</i> Leighton		16
<i>L. turgidula</i> Fr.		1
<i>L. uliginosa</i> (Schrader) Ach.s ^H	1-7, 9, 11-14, 16, 18, 20, 21, 23, 24, 33, 35, 36, 38-40	
<i>L. valentior</i> Nyl.		1, 3, 6, 16
<i>L. vorticosa</i> (Flörke) Körber		20
<i>Lecidella anomaloides</i> (Massal.) Hertel & Kilius		2
<i>L. carpathica</i> Körber		1, 16

^G cf. Coppins and James (1979a) p. 152.

^H Records include *Lecidea icmalea* Ach.

<i>L. elaeochroma</i> (Ach.) Choisy	1-25, 27-40
f. <i>soralifera</i> (Erichsen) D. Hawksw.	1, 3, 4, 7, 12-14, 20, 24, 27
<i>L. euphorea</i> (Flörke) Hertel	36
<i>L. prasinula</i> (Wedd.) Hertel	6
<i>L. scabra</i> (Taylor) Hertel & Leuckert	1-9, 11-14, 16, 19-21, 27-29, 31, 32, 34-36, 38-40
<i>L. stigmatea</i> (Ach.) Hertel & Leuckert	1, 2, 4-7, 9-14, 18-23, 28, 39
<i>L. subincongrua</i> (Nyl.) Hertel & Leuckert	1, 3-5, 9, 12, 13, 16, 21, 27, 34, 35, 38, 39
<i>Lecidoma demissum</i> (Rutström) G. Schneider & Hertel	20, 38
<i>Lemmopsis arnoidiana</i> (Hepp) Zahlbr.	29
<i>L. leptogiella</i> (Nyl.) A. L. Sm.	16
<i>Lempholemma botryosum</i> (Massal.) Zahlbr.	9, 15
<i>L. chalazanum</i> (Ach.) B. de Lad.	1, 5, 25
<i>L. cladodes</i> (Tuck.) Zahlbr.	9
<i>L. myriococcum</i> (Ach.) Th. Fr.	5, 39
<i>L. radiatum</i> (Sommerf.) Henssen	28
<i>Lepraria crassissima</i> (Hue) Lettau	9, 15, 20, 39
<i>L. incana</i> (L.) Ach.	1-14, 16, 18-25, 27-29, 33-35, 39
<i>L. membranacea</i> auct.	1-3, 16, 20, 21, 39
<i>L. neglecta</i> auct.	1-3, 12, 20, 39
<i>L. zonata</i> Brodo	12, 20
<i>Leprocaulon microscopicum</i> (Vill.) Gains ex D. Hawksw.	1, 3, 16, 20, 21, 40
<i>Leproplaca chrysodeta</i> (Vainio ex Räsänen) Laundon	1, 9, 14, 15, 26
<i>L. xantholyta</i> (Nyl.) Hue	1, 5, 9, 15, 24, 28, 38, 39
<i>Leptogium biatorinum</i> (Nyl.) Leighton	3
<i>L. brebissonii</i> Mont.	1-4, 12, 16
<i>L. britannicum</i> P. Jørg.	1-4, 6, 8, 9, 11, 15, 16, 20, 21, 24, 27-29, 34, 35, 39
<i>L. burgessii</i> (L.) Mont.	1-4, 7, 9, 16, 39
<i>L. cochleatum</i> (Dickson) P.M. Jørg. & P. James	1, 2, 9
<i>L. cretaceum</i> (Sm.) Nyl.	28
<i>L. cyanescens</i> (Ach.) Körber	1-4, 6, 7, 9, 11, 13, 16, 20, 27, 28, 33
<i>L. diffractum</i> Krempelh. ex Körber	2, 9, 15
<i>L. hibernicum</i> Mitchell ex P. Jørg.	1, 2
<i>L. juressianum</i> Tavares	1-3
<i>L. lichenoides</i> (L.) Zahlbr.	1-13, 15-22, 24-31, 33, 34, 36-39
<i>L. massiliense</i> Nyl.	28
<i>L. minutissimum</i> (Flörke) Fr.	1, 3, 20
<i>L. palmatum</i> (Huds.) Mont.	20, 37
<i>L. plicatile</i> (Ach.) Leighton	1-3, 9, 13, 20, 25, 28, 39
<i>L. schraderi</i> (Hernh.) Nyl.	1, 2, 4, 6, 7, 9, 12-16, 19, 20, 28, 34, 37, 39
<i>L. sinuatum</i> (Huds.) Massal.	1-10, 12-14, 16-21, 23, 27-29, 33, 34, 36, 37, 39
<i>L. tenuissimum</i> (Dickson) Körber	1-5, 9, 16, 18, 21, 37, 38

<i>L. teretiusculum</i> (Wallr.) Arnold	1, 2, 16, 20
<i>L. turgidum</i> (Ach.) Crombie	1
<i>Lichina confinis</i> (Mall.) Agardh	1, 3-6, 8, 9, 12, 16, 20-22, 27, 28, 31, 34, 35, 38-40
<i>L. pygmaea</i> (Lightf.) Agardh	1-6, 9, 12, 16, 20, 21, 27-29, 31, 34, 35, 38-40
<i>Lithographa tessarata</i> var. <i>petraea</i> (Ach.) Redinger	16
<i>Lobaria amplissima</i> (Scop.) Foiss.	1-3, 20, 27, 39
<i>L. laetevirens</i> (Lightf.) Zahlbr.	1-4, 9, 14, 16, 20, 26-28, 35, 39, 40
<i>L. pulmonaria</i> (L.) Hoffm.	1-7, 9, 12, 14, 16, 17, 19-21, 26-29, 33, 35, 39
<i>L. scrobiculata</i> (Scop.) DC.	1-4, 6, 7, 16, 35, 39
<i>Massalongia carnosa</i> (Dickson) Körber	1, 2, 16, 20, 21, 39
<i>Melanolecia jurana</i> (Schaerer) Hertel	9, 15
<i>Melaspilea amota</i> Nyl.	2, 3
<i>M. diplasiospora</i> (Nyl.) Müll. Arg.	2
<i>M. ochrothalamia</i> Nyl.	2-5, 20
<i>Menegazzia terebrata</i> (Hoffm.) Massal.	1-4, 16, 39
<i>Micarea alabastrites</i> (Nyl.) Coppins	1, 16
<i>M. bauschiana</i> (Körber) V. Wirth & Vezda	1, 9, 16
<i>M. denigrata</i> (Fr.) Hedi.	7, 14, 28, 39
<i>M. leprosula</i> (Th. Fr.) Coppins & A. Fletcher	3, 12, 16, 36, 38, 39
<i>M. lignaria</i> (Ach.) Hedl.	1-3, 5-7, 12-14, 16, 19-22, 26, 27, 31, 33, 35, 36, 38-40
var. <i>endoleuca</i> (Leighton) Coppins	16, 27
<i>M. lutulata</i> (Nyl.) Coppins	16, 27
<i>M. melaena</i> (Nyl.) Hedl.	2, 21, 27, 35
<i>M. nitschkeana</i> (Lahm ex Rabenh.) Harm	6, 10, 12, 13, 20
<i>M. peliocarpa</i> (Anzi) Coppins & R. Sant.	2, 16, 18, 20, 34-36, 39
<i>M. prasina</i> Fr.	1-3, 11-14, 16, 17, 20, 21
<i>M. stipitata</i> Coppins & P. James	2
<i>M. sylvicola</i> (Flotow) Vezda & V. Wirth	1, 6, 10-14, 16, 18, 20, 38
<i>M. synotheoides</i> (Nyl.) Coppins	27
<i>M. tuberculata</i> (Sommerf.) R. Anderson	2, 16, 20
<i>Microglaena corrosa</i> (Körber) Arnold	20
<i>M. larbalestieri</i> A. L. Sm.	16
<i>M. modesta</i> (Nyl.) A. L. Sm.	1, 2, 5, 8, 23, 37
<i>M. muscorum</i> (Fr.) Th. Fr.	30
<i>Moelleropsis nebulosa</i> (Hoffm.) Gyelnik	2-4, 16, 30, 34
<i>Mycoblastus sanguinarius</i> (L.) Norman	2, 11, 20, 21
<i>M. sterilis</i> Coppins & P. James	1-3, 6, 12, 20

<i>Mycoporum quercus</i> (Massal.) Müll. Arg.	1, 3, 5, 20
var. <i>ilicis</i> (Riedl) Coppins	16
<i>Nephroma laevigatum</i> Ach.	1-4, 7-9, 16, 20, 27, 28, 33, 39
<i>N. parile</i> (Ach.) Ach.	1, 2, 4, 9, 13, 39
<i>Normandina pulchella</i> (Borrer) Nyl.	1-9, 11, 12, 14-17, 20-22, 24-30, 33, 35, 38, 39
<i>Ochrolechia androgyna</i> (Hoffm.) Arnold	1-4, 6, 7, 9-23, 27-30, 33, 36, 38, 39
<i>O. inversa</i> (Nyl.) Laundon	1-3, 6, 12-16, 20, 27, 33
<i>O. pallescens</i> (L.) Massal.	2-4, 9, 12, 15, 20, 21, 25, 34
<i>O. parella</i> (L.) Massal.	1-40
<i>O. subviridis</i> (Höeg) Erichsen	1-3, 5-7, 12, 13, 15, 16, 18, 20, 23, 29, 30, 36, 39
<i>O. tartarea</i> (L.) Massal.	1, 2, 4, 5, 7-10, 12, 15, 16, 18, 20, 21, 24, 27-29, 33-36, 38, 39
<i>O. turneri</i> (Sm.) Hasselrot	1-3, 5-7, 11-14, 16, 20-22, 25, 27, 28, 31, 36, 39, 40
<i>Omphalina ericetorum</i> (Fr. ex Fr.) M. Lange	25
<i>O. hudsoniana</i> (Jenn.) Bigelow	20
<i>Opegrapha actophila</i> Nyl.	16
<i>O. areniseda</i> Nyl.	27
<i>O. atra</i> Pers.	1-25, 27-40
<i>O. arula</i> Nyl.	16
<i>O. calcarea</i> Turner ex Sm.	1-5, 8, 9, 12, 14-16, 18, 20-23, 27-34, 37-39
<i>O. cesareensis</i> Nyl.	1, 3, 9, 21
<i>O. chevallieri</i> Leighton	1, 2, 4, 5, 8, 9, 11, 12, 14-16, 21, 35, 38, 39
<i>O. conferta</i> Anzi	1-6, 9, 12, 16, 21, 27, 34, 36, 38
<i>O. corticola</i> Coppins & P. James	3
<i>O. gyrocarpa</i> Flotow	1-3, 5, 9, 11, 12, 16, 20, 21, 26, 27, 38, 39
<i>O. herbarum</i> Mont.	1-16, 18-20, 22-25, 27, 31, 34-40
<i>O. hysteriiformis</i> Nyl.	16
<i>O. lichenoides</i> Pers.	2, 5, 8, 16, 39
<i>O. lithyrga</i> Ach.	1, 2, 11, 16
<i>O. mougeotii</i> Massal.	2, 3, 9, 15, 19, 33, 39
<i>O. niveoatra</i> (Borrer) Laundon	1-5, 7, 11-14, 16, 18-21, 25, 27, 28, 38
<i>O. ochrocheila</i> Nyl.	1-4, 16, 30, 39
<i>O. paraxanthodes</i> Nyl.	16
<i>O. prosodea</i> Ach.	2
<i>O. rimalis</i> Ach.	4, 8, 16
<i>O. rufescens</i> Pers.	2, 4, 5, 10, 14, 16, 19, 20, 23, 24, 35, 37, 39
<i>O. saxatilis</i> DC.	1-3, 9, 11-14, 16, 19-21, 27, 33, 39
<i>O. saxicola</i> Ach.	1-5, 9, 16, 21, 27, 28, 33, 34, 37-40
<i>O. saxigena</i> Taylor	1, 2, 16, 21, 39
<i>O. sorediifera</i> P. James	1-5, 16, 20, 28
<i>O. varia</i> Pers.	1-9, 11-14, 16, 18-25, 27, 28, 30, 31, 33-37, 40
<i>O. venticellifera</i> (Kunze) Laundon	1, 2, 20, 27
<i>O. viridis</i> (Ach.) Nyl.	1-5, 16, 37
<i>O. vulgata</i> (Ach.) Ach.	1-14, 16, 18-24, 27, 28, 30, 32, 36-39
<i>O. zonata</i> Körber	1-4, 6, 9, 19, 20, 22, 39

<i>Orphniospora atrata</i> (Sm.) Poelt	21
<i>Pachyphiale cornea</i> (With.) Poetsch	1-3, 9, 14, 16, 20
<i>Pannaria conoplea</i> (Ach.) Hory	1-4, 9, 14, 16, 20, 27, 28, 33, 39
<i>P. leucophaea</i> (Vahl) P. Jørg.	1-3, 8, 9, 16, 27, 34, 39
<i>P. mediterranea</i> Tavares	2
<i>P. pezizoides</i> (Weber) Trevisan	1-5, 7, 16, 20, 27, 34, 39
<i>P. rubiginosa</i> (Ach.) Bory	14, 9, 16, 25-29, 33, 35, 39
<i>P. sampaiana</i> Tavares	1-3
<i>Parmelia afrorevoluta</i> Krog & Swinscow	1
<i>P. arnoldii</i> Du Rietz	1-3, 16
<i>P. borrieri</i> (Sm.) Turner	1, 3, 4, 13, 18, 20, 24, 25, 39
<i>P. britannica</i> D. Hawksw. & P. James	1-3, 16
<i>P. caperata</i> (L.) Ach.	1-40
<i>P. conspersa</i> (Ach.) Ach.	1-4, 6, 7, 9, 11-14, 16, 19-21, 27, 29, 30, 34, 35, 38, 39
<i>P. crinita</i> Ach.	1-3, 6-9, 12-14, 16, 18, 20-23, 27-30, 33-36, 38, 39
<i>P. delisei</i> (Duby) Nyl.	3, 8, 13, 16, 20, 21, 27
<i>P. discordans</i> Nyl.	1, 11-13, 20, 21, 38
<i>P. disjuncta</i> Erichsen	38
<i>P. endochlora</i> Leighton	1-3, 16
<i>P. exasperata</i> de Not.	1-40
<i>P. exasperatula</i> Nyl.	13, 20, 21, 38, 39
<i>P. glabratula</i> (Lamy) Nyl.	1-14, 16-24, 27-31, 33, 35-40
subsp. <i>fuliginosa</i> (Fr. ex Duby) Laundon	1-14, 16, 19-22, 27-31, 34-36, 38-40
<i>P. horrescens</i> Taylor	1
<i>P. incurva</i> (Pers.) Fr.	1, 2, 20, 21, 39
<i>P. laevigata</i> (Sm.) Ach.	1-8, 10-14, 16, 17, 20-22, 24, 26-30, 33-36, 38, 39
<i>P. loxodes</i> Nyl.	1, 8, 10, 12, 13, 16, 20, 21
<i>P. mougeotii</i> Schaerer ex Dietr.	1-3, 6, 11-14, 16, 19-21, 35, 36, 38
<i>P. omphalodes</i> (L.) Ach.	1-4, 6-8, 11-13, 16, 20, 21, 27-31, 33-40
<i>P. pastillifera</i> (Hann.) R. Schubert & Klem.	4, 11-13, 20
<i>P. perlata</i> (Huds.) Ach.	1-40
<i>P. pulla</i> Ach.	3, 8, 9, 12, 16, 20, 21, 28, 29, 38-40
<i>P. reddenda</i> Stirton	1, 3, 12, 20, 24, 33
<i>P. reticulata</i> Taylor	1-5, 9, 12, 14, 16, 24, 25, 28, 30, 39
<i>P. revoluta</i> Flörke	1-25, 27, 28, 30, 33, 35-39
<i>P. robusta</i> Degel.	1, 3
<i>P. saxatilis</i> (L.) Ach.	1-40
<i>P. sinuosa</i> (Sm.) Ach.	1-5, 14, 16, 20, 24, 25, 27-30, 39
<i>P. soledians</i> Nyl.	13
<i>P. subaurifera</i> Nyl.	1-16, 18-25, 27-31, 33, 35-39
<i>P. subrudecta</i> Nyl.	1-25, 27-40
<i>P. sulcata</i> Taylor	1-40
<i>P. taylorensis</i> Mitchell	1-4, 16, 39
<i>P. tiliacea</i> (Hoffm.) Ach.	1-5, 14, 16, 17, 20
<i>P. verruculifera</i> Nyl.	3, 16, 27, 39

<i>Parmeliella atlantica</i> Degel.	1-4, 9, 16, 25, 27
<i>P. jamesii</i> Ahlner & P.Jørg.	1-4, 20
<i>P. plumbea</i> (Lightf.) Vainio	1-4, 9, 16, 26-28, 33, 35, 39, 40
<i>P. testacea</i> P. Jørg.	1-4, 39
<i>P. triptophylla</i> (Ach.) Müll. Arg.	1-6, 9, 16, 20, 33, 39
<i>Parmeliopsis aleurites</i> (Ach.) Nyl.	1, 39 ^I
<i>P. ambigua</i> (Wulfen) Nyl.	39
<i>P. hyperopta</i> (Ach.) Arnold	33
<i>Parmentaria chilensis</i> Fée	1, 2, 16
<i>Peltigera apthosa</i> (L.) Willd.	1, 2, 4, 5, 8, 9, 16, 20, 33, 39, 40
<i>P. canina</i> (L.) Wild.	9, 13
<i>P. collina</i> (Ach.) Schrader	1-4, 7, 16, 20, 25, 28, 33, 39
<i>P. degenii</i> Gyelnik	2
<i>P. horizontalis</i> (Huds.) Baumg.	1-14, 16, 20, 21, 23-35, 38-40
<i>P. hymenina</i> (Ach.) Delise	1-5, 7, 9-14, 16, 20, 23-25, 27, 33 ^J
<i>P. leucophlebia</i> (Nyl.) Gyelnik	9
<i>P. malacea</i> (Ach.) Funck	3
<i>P. membranacea</i> (Ach.) Nyl.	1-5, 7, 10, 11, 13, 14, 16, 20, 25, 29, 33 ^K
<i>P. neckeri</i> Müll. Arg.	12
<i>P. polydactyla</i> (Necker) Hoffm.	2
<i>P. praetextata</i> (Flörke ex Sommerf.) Zopf	1-9, 11-14, 16, 20, 23, 24, 26, 27, 29, 33, 35, 36, 38-40
<i>P. rufescens</i> (Weis.) Humb.	1-3, 6-10, 12-14, 16, 20, 21, 23, 25, 27-30, 34-36, 38, 39
<i>P. spuria</i> (Ach.) DC.	1, 9, 11-16, 20, 23, 25, 27, 36, 39
<i>P. venosa</i> (L.) Hoffm.	39
<i>Pertusaria albescens</i> (Huds.) Choisy & Werner	1-36, 38, 39
var. <i>corallina</i> (Zahlbr.) Laundon	1-4, 6, 7, 9-14, 18-20, 22-24, 33, 36, 38, 39
<i>P. amara</i> (Ach.) Nyl.	1-16, 18-28, 30, 31, 33, 36-39
<i>P. areolata</i> (Ach.) Massal.	1, 20, 27
<i>P. ceuthocarpoides</i> Zahlbr.	1-3, 7, 12, 16, 20, 21, 23, 27, 34, 35, 39
<i>P. chiodectonoides</i> Bagl. ex Massal.	16, 39
<i>P. coccodes</i> (Ach.) Nyl.	1-3, 7, 14, 16, 18, 20, 24, 33
<i>P. coraltina</i> (L.) Arnold	1-8, 10, 12, 13, 16, 18, 20-22, 27, 30, 33, 34, 36, 38, 39
<i>P. dealbescens</i> Erichsen	1-3, 9-11, 38, 39
<i>P. flavicans</i> Lamy	1-3, 16, 20, 21, 26, 21, 33, 39
<i>P. flavida</i> (DC.) Laundon	2, 38
<i>P. hemisphaerica</i> (Flörke) Erichsen	1, 2, 14, 16, 18, 20, 25, 28
<i>P. hymenea</i> (Ach.) Schaerer	1-16, 18-24, 27, 28, 33-36, 38, 39
<i>P. lactea</i> (L.) Arnold	1-4, 12, 16, 20, 26, 27, 38, 39
<i>P. lactescens</i> Mudd	3, 16, 27

^I No recent records; see Seaward and Hitch (1982) map 115.

^J Incomplete; many old records of *P. polydactyla* referable here.

^K Incomplete; many old records of *P. canina* referable here.

<i>P. leioplaca</i> DC.	1-24, 27-39
<i>P. leucostoma</i> (Bernh.) Massal.	25
<i>P. monogona</i> Nyl.	2, 27
<i>P. multipuncta</i> (Turner) Nyl.	1-4, 6, 7, 16, 20, 23, 28, 33, 38, 39
<i>P. panyrga</i> (Ach.) Massal.	3
<i>P. pertusa</i> (Weigel) Tuck.	1-40
<i>P. pseudocorallina</i> (Liljebblad) Arnold	1, 3, 4, 7-9, 12, 16, 20-22, 27, 28, 30, 31, 35, 38, 39
<i>P. pustulata</i> (Ach.) Duby	3, 4, 6, 11, 27, 38, 39
<i>P. urceolaria</i> Nyl.	16
<i>P. velata</i> (Turner) Nyl.	1-3, 5, 12, 16, 20, 39
<i>Petractis clausa</i> (Hoffm.) Krempelh.	1, 2, 5, 7, 9, 15, 16, 18, 26-29, 33, 34, 36, 37, 39
<i>Phaeographis dendritica</i> (Ach.) Müll. Arg.	2, 3, 5, 12
<i>P. lyellii</i> (Sm.) Zahlbr.	1-6
<i>P. smithii</i> (Leighton) B. de Lesd ^L .	1-12, 14-24, 27-29, 31, 32, 35-38
<i>Phaeophyscia nigricans</i> (Flörke) Moberg	13, 16
<i>P. orbicularis</i> (Necker) Moberg	1-9, 11-24, 26-28, 31, 33-39
<i>Phlyctis agelaea</i> (Ach.) Flotow	1-5, 11, 14, 15, 18, 19, 23, 25, 30, 39, 40
<i>P. argena</i> (Sprengel) Flotow	1-7, 9, 11-14, 18-24, 30, 32, 33, 36-39
<i>Phyllopsora rosei</i> Coppins & P. James	1, 2
<i>Physcia adscendens</i> (Fr.) H. Olivier	1-19, 21-25, 27-31, 33, 35-40
<i>P. aipolia</i> (Ehrh. ex Humb.) Fürnrohr	1-18, 20-25, 27-39
<i>P. caesia</i> (Hoffm.) Filrnrohr	1-4, 6-14, 18-23, 28-30, 32, 33, 36, 38, 39
<i>P. clementei</i> (Sm.) Maas Geest.	1, 2, 4-10, 14-16, 25
<i>P. dubia</i> (Hoffm.) Lettau	1, 30, 36
<i>P. semipinnata</i> (Gmelin) Moberg	1-14, 16, 18, 20-25, 27-29, 33-35, 38, 39
<i>P. stellaris</i> (L.) Nyl.	2, 3, 5, 7, 11-14, 16, 19-22, 25, 27, 32, 33, 38, 39
<i>P. tenella</i> (Scop.) DC.	1-40
subsp. <i>marina</i> (A. E. Nyl.) D. Hawksw.	4, 5, 16, 21, 34, 39
<i>P. tribacia</i> (Ach.) Nyl.	1, 3-5, 9-11, 13, 16, 18, 20, 24, 28, 30, 34, 39, 40
<i>P. tibiaclodes</i> Nyl.	1, 3, 21
<i>P. wainioi</i> Räsänen	1, 38-40
<i>Physciopsis adglutinata</i> (Flörke) Choisy	1-7, 9-14, 16, 18-23, 29, 30, 38
<i>Physconia enteroxantha</i> (Nyl.) Poelt	7, 12-14, 18, 20, 25, 38
<i>P. grisea</i> (Lam.) Poelt	3, 4, 6-14, 18-21, 31, 36, 37, 39
<i>P. perisidiosa</i> (Erichsen) Moberg	13, 14, 19
<i>P. pulverulacea</i> Moberg	1-40
<i>Pilophorus strumaticus</i> Nyl. ex Crombie	1, 2, 16, 20, 38, 39

^L Syn. *P. inusta* auct.

<i>Placopsis gelida</i> (L.) Lindsay	1-4, 6, 16, 20, 27, 28, 36, 38, 39
<i>Placynthium garovaglii</i> (Massal.) Zahlbr.	39
<i>P. nigrum</i> Zahlbr.	1-30, 33-40
<i>P. pluriseptatum</i> (Arnold) Arnold	16
<i>P. subradiatum</i> (Nyl.) Arnold	2, 9, 15
<i>P. tataleum</i> (Hepp) Hue	2, 39
<i>P. tremniacum</i> (Massal.) Jatta	9, 15
<i>Platismatia glauca</i> (L.) Culb. & C. Culb.	1-4, 6, 8, 10-12, 14, 18, 20, 21, 27, 28, 31, 33, 35, 36, 38, 39 ^M
<i>Polyblastia albida</i> Arnold	9, 15
<i>P. cruenta</i> (Körber) P. James & Swinscow	16, 20
<i>P. cupularis</i> Massal.	16, 27
<i>P. deminuta</i> Arnold	9, 15, 16, 26-28, 39
<i>P. dermatodes</i> Arnold	6, 8, 9, 15, 16, 18, 21, 28, 39
<i>P. gelatinosa</i> (Ach.) Th. Fr.	3, 16
<i>P. melaspora</i> (Taylor) Zahlbr.	1, 16, 27
<i>P. terrestris</i> Th. Fr.	16
<i>P. theleodes</i> (Sommerf.) Th. Fr.	1, 2, 16, 20, 27, 39
<i>Polychidium dendriscum</i> (Nyl.) Henssen	1-4
<i>P. muscicola</i> (Swartz) Gray	1-3, 16, 20, 21, 39
<i>Polysporina simplex</i> (Davies) Vezda	1, 3, 5, 7, 12, 13, 16, 19, 20, 21
<i>Porina aenea</i> (Wallr.) Zahlbr.	1-7, 9-16, 18-24, 27-29, 32, 34, 36, 37, 39
<i>P. ahlesiana</i> (Körber) Zahlbr.	1-3, 16, 19, 20
<i>P. borrieri</i> (Trevisan) D. Hawksw. & P. James	1-5, 7, 9, 11, 12, 15, 16, 20, 22, 27, 37-39
<i>P. chlorotica</i> (Ach.) Müll. Arg.	1-9, 11, 12, 15, 16, 20, 21, 25, 27-30, 33, 34, 36-39
<i>f. tenuifera</i> (Nyl.) Swinscow	3, 16
<i>P. coralloides</i> P. James	3
<i>P. curnowii</i> A. L. Sm.	2, 3, 27
<i>P. guentheri</i> (Flotow) Zahlbr.	2, 3, 26
<i>var. lucens</i> (Taylor) Swinscow	1-3, 6, 16, 27
<i>P. hibernica</i> P. James & Swinscow	1-3
<i>P. lectissima</i> (Fr.) Zahlbr.	1-4, 16, 20, 27
<i>P. leptalea</i> (Durieu & Mont.) A. L. Sm.	1-7, 12, 13, 16, 18, 20, 27
<i>P. linearis</i> (Leighton) Zahlbr.	2, 8, 9, 15, 16, 23, 33, 39
<i>P. mammillosa</i> (Th. Fr.) Vainio	9, 16, 27
<i>Porocyphus coccodes</i> (Flotow) Körber	2, 3
<i>P. kenmorensis</i> (Holl ex Nyl.) Henssen	2, 16

^M See Seaward (1975a) p. 192 and (1977) p. 132.

<i>Protoblastenia calva</i> (Dickson) Zahlbr.	1, 2, 4, 8, 9, 14-17, 19-21, 27-29, 34, 37-39
<i>P. incrustans</i> (DC.) Steiner	2, 7-9, 14-17, 19-21, 37, 39
<i>P. rupestris</i> (Scop.) Steiner	1-40
<i>Pseudephebe pubescens</i> (L.) Choisy	1, 2, 12, 13, 16, 20, 33, 35, 38, 39
<i>Pseudevernia furfuracea</i> (L.) Zopf	9, 12, 16, 18, 20, 21, 28, 29, 30, 33, 36, 37, 39, 40 ^N
<i>Pseudocyphellaria aurata</i> (Ach.) Vainio	2, 3
<i>P. crocata</i> (L.) Vainio	1-3, 20, 21, 39
<i>P. intricata</i> (Delise) Vainio	1-3, 6, 13, 16, 39
<i>P. lacerata</i> Degel.	2
<i>P. norvegica</i> (Gyelnik) P. James	1-3 ^O
<i>Psilolechia clavulifera</i> (Nyl.) Coppins	16
<i>P. lucida</i> (Ach.) M. Choisy	1-3, 6, 12-14, 16, 20, 21, 35, 36, 38, 39
<i>Psora lurida</i> (With.) DC.	9, 15, 16, 21, 39
<i>Psoroma hypnorum</i> (Vahl) Gray	1, 2, 16, 27, 28, 39
<i>Psorotichia schaereri</i> (Massal.) Arnold	9, 15, 16, 27, 28
<i>Pycnothelia papillaria</i> (Ehrh.) Dufour	1-3, 5, 7, 9, 16, 20, 21, 27-29, 34-36, 39
<i>Pyrenopsis pulvinata</i> (Schaerer) Th. Fr.	16
<i>P. subareolata</i> Nyl.	2
<i>Pyrenula chlorospila</i> (Nyl.) Arnold	1-4, 11, 20, 25
<i>P. dermatodes</i> (Borrer) Schaerer	1-3, 16
<i>P. laevigata</i> (Pers.) Arnold	1-3, 9
<i>P. macrospora</i> (Degel.) Coppins & P. James	1-4, 11, 16, 20, 24, 25
<i>P. neglecta</i> R. C. Harris	1, 2, 4
<i>P. nitida</i> (Weigel) Ach.	1-31, 33-40 ^P
<i>P. nitidella</i> (Flörke ex Schaerer) Müll. Arg.	1-7, 9, 11-15, 18, 20, 21, 23, 28, 34, 38 ^Q
<i>Pyrrhospora quernea</i> (Dickson) Körber	1-7, 9, 11-14, 18-21, 23, 27, 28, 30, 33, 36-39
<i>Racodium rupestre</i> Pers.	1, 16, 20, 35
<i>Ramalina baltica</i> Lettau	1-14, 16, 18-24, 27, 33, 36, 37, 39
<i>R. calicaris</i> (L.) Fr.	1-16, 18-25, 27-37
<i>R. cuspidata</i> (Ach.) Nyl.	1, 3, 6, 9, 12, 16, 20-22, 27
<i>R. duriaei</i> (de Not.) Bagl.	3, 5-19, 22-25, 33, 36, 39

^N Vice-county records for var. *furfuracea* confirmed from 12, 18, 21, 29, 39 and for var. *ceratea* from 36, 37.

^O See Coppins and James (1979a) p. 174.

^P Probably does not occur in Ireland; most records refer to *P. macrospora*.

^Q Probably does not occur in Ireland; most records refer to *P. chlorospila*.

<i>R. farinacea</i> (L.) Ach.	1-40
<i>R. fastigiata</i> (Pers.) Ach.	1-40
<i>R. fraxinea</i> (Pers.) Ach.	2-15, 17-25, 27-31, 33, 35-40
<i>R. pollinaria</i> (Westr.) Ach.	1-5, 7-9, 12, 13, 16, 23, 27, 30, 35, 38 ^R
<i>R. polymorpha</i> (Ach.) Ach.	5, 16, 38, 39
<i>R. siliquosa</i> (Huds.) A. L. Sm.	1, 3-9, 11, 12, 16, 17, 20-22, 27, 28, 31, 34-36, 38-40
<i>R. subfarinacea</i> (Nyl. ex Crombie) Nyl.	1-4, 7-9, 12, 13, 16, 17, 20, 21, 27-30, 34, 35, 38, 39
<i>R. thrausta</i> (Ach.) Nyl.	1, 2
<i>Ramonia chrysophaea</i> (Pers.) Vezda	2
<i>Rhizocarpon badioatrum</i> (Flörke ex Sprengel) Th. Fr.	2, 20, 21, 31
<i>R. concentricum</i> (Davies) Heltr.	1-9, 11-13, 16, 18-21, 27, 28, 31, 32, 34, 37-39
<i>R. constrictum</i> Malme	1, 3, 4, 6, 7, 9, 12, 16, 21, 22, 27, 31, 34, 35, 38, 39
<i>R. geminatum</i> Körber	38
<i>R. geographicum</i> (L.) DC.	1-4, 6, 7, 9-13, 15-18, 20-22, 25-40
subsp. <i>prospectans</i> (Räsänen) D. Hawksw. & Sowter	1-3, 9, 38
<i>R. hochstetteri</i> (Körber) Vainio	1-5, 7, 12, 16, 20, 21, 26-30, 34-36, 38-40
<i>R. lavatum</i> (Fr.) Hazslin	1, 2, 4, 35, 39
<i>R. lecanorinum</i> Anders	16, 20
<i>R. obscuratum</i> (Ach.) Massal.	1-14, 16, 18-22, 27-29, 31-36, 38-40
<i>R. oederi</i> (Web.) Körber	2, 3, 16, 20, 27, 38-40
<i>R. perlutum</i> (Nyl.) Arnold	16, 27
<i>R. riparium</i> Räsänen	27
subsp. <i>lindsayanum</i> (Räsänen) Thomson	2, 3
<i>R. rubescens</i> Th. Fr.	2
<i>R. umbilicatum</i> (Ram.) Flagey	1, 3, 4, 7, 8, 12, 13, 16, 18, 19, 21, 22, 27-30, 33, 38, 39
<i>R. viridiatrum</i> (Wulfen) Körber	1-3, 27-29, 34, 38, 39
<i>Rinodina atrocinerea</i> (Dickson) Körber	1, 3, 4, 6, 8, 9, 11, 12, 16, 19-21, 34, 35, 38
<i>R. biloculata</i> (Nyl.) Sheard	3, 16, 20
<i>R. bischoffii</i> (Hepp) Massal.	5, 21
<i>R. confragosa</i> (Ach.) Körber	3, 16, 21, 38
<i>R. conradii</i> Körber	27
<i>R. efflorescens</i> Malme	20
<i>R. exigua</i> (Ach.) Gray	4, 12, 13, 16, 18, 20, 21, 23, 27
<i>R. gennarii</i> Bagl.	1-14, 16, 18-23, 27, 32, 34, 35, 37-39
<i>R. isidioides</i> (Borrer) H. Olivier	2, 3, 5
<i>R. lecideina</i> Mayrh. & Poelt	1
<i>R. luridescens</i> (Anzi) Arnold	1, 3, 4, 16, 35, 40
<i>R. occulta</i> (Körber) Sheard	16
<i>R. oxydata</i> (Massal.) Massal.	1, 4, 16, 21, 38
<i>R. roboris</i> (Dufour ex Nyl.) Arnold	1, 3-6, 14, 16, 18, 19
<i>R. sophodes</i> (Ach.) Massal.	1-4, 7, 9, 11-14, 16, 18-21, 23, 27, 28, 33, 35, 39
<i>R. subglaucescens</i> (Nyl.) Sheard	1, 3, 16, 27
<i>R. teichophila</i> (Nyl.) Arnold	1, 16, 20

^R Many records referable to other *Ramalina* spp.

<i>Sarcogyne privigna</i> (Ach.) Massal.	13, 20, 21
<i>S. regularis</i> Körber	3-7, 9, 11-14, 16, 18-21, 23, 25, 27, 28, 33, 37-40
<i>Sarcopyrenia gibba</i> Nyl.	21
<i>Schaereria cinereorufa</i> (Schaerer) Th. Fr.	2
<i>S. tenebrosa</i> (Flotow) Hertel & Poelt	1-4, 16, 20, 21, 34, 38
<i>Schismatomma decolorans</i> (Turner & Borrer ex Sm.) Clauz. & Vezda	7, 9, 11-14, 18-21, 24, 30, 36, 37, 39
<i>S. graphidioides</i> (Leighton) Zahlbr.	21
<i>S. niveum</i> D. Hawksw. & P. James	2, 3
<i>S. virgineum</i> D. Hawksw. & P. James	2, 4, 6, 7, 9, 11-14, 18-20, 22, 23, 27
<i>Sclerophyton circumscriptum</i> (Taylor) Zahlbr.	1-3, 5, 6, 9, 12, 16, 20, 21, 27, 34, 35, 39
<i>Scoliciosporum chiorococcum</i> (Graewe ex Stenhammar) Vezda	6, 7, 11-13, 18, 20, 22, 25, 33, 39
<i>S. pruinatum</i> (P. James) Vezda	6, 20, 24
<i>S. umbrinum</i> (Ach.) Arnold	1-9, 12, 13, 15, 16, 18, 20-22, 25-30, 32, 34-40
<i>Solenopsora candicans</i> (Dickson) Steiner	7, 9, 14, 23, 28, 39
<i>S. holophaea</i> (Mont.) G. Samp.	1, 3, 5, 9, 16, 21, 38, 39
<i>S. vulturiensis</i> Massal.	1, 3-5, 21
<i>Solorina crocea</i> (L.) Ach.	1 ^s
<i>S. saccata</i> (L.) Ach.	1, 9, 15, 16, 20, 25, 26, 28-30, 33, 35, 38, 39
<i>S. spongiosa</i> (Sm.) Anzi	39
<i>Sphaerophorus fragilis</i> (L.) Pers.	2, 3, 12, 13, 16, 20, 21, 27, 33, 34, 36, 39
<i>S. globosus</i> (Huds.) Vainio	1-4, 6-8, 11-13, 16, 19-21, 25, 27-30, 33-36, 38, 39
<i>S. melanocarpus</i> (Swartz) DC.	1-3, 6, 8, 16, 20, 27-29, 33-36, 38, 39
<i>Spilonema paradoxum</i> Hornet	2, 16, 20
<i>S. revertans</i> Nyl.	1, 19
<i>Squamarina cartilaginea</i> (With.) P. James	2, 8, 9, 12, 15-17, 20-22, 25, 28-30, 35
<i>Staurothele caesia</i> (Arnold) Arnold	9, 15, 27, 39
<i>S. catalepta</i> sensu Malme	1, 16, 19-21, 28-30, 33
<i>S. fissa</i> (Taylor) Zwackh	1, 2, 4, 6, 19, 20, 28-30, 33, 38
<i>S. hymenogonia</i> (Nyl.) Th. Fr.	5, 13, 39
<i>S. rupifraga</i> (Massal.) Arnold	2, 9, 15, 16, 27, 39
<i>Stereocaulon condensatum</i> Hoffm.	2, 27, 38, 39
<i>S. dactylophyllum</i> Flörke	1-3, 6-8, 12, 13, 15, 16, 20, 21, 27, 29, 33, 34, 36, 38, 39

^s Old record; cf. Seaward and Hitch (1982) map 151.

<i>S. evolutum</i> Graewe	1-3, 12, 13, 15, 16, 20, 27, 35, 38, 39
<i>S. pileatum</i> Ach.	1, 2, 16, 27, 38, 39
<i>S. saxatile</i> Magnusson	39
<i>S. vesuvianum</i> Pers.	1-4, 6, 12, 13, 15, 16, 20, 27, 29, 31, 33-35, 38, 39
var. <i>nodulosum</i> (Wallr.) Lamb	1, 2, 16, 27, 38
<i>Sticta canariensis</i> Bory ex Delise	1-4, 8-10, 16, 20, 33, 39
<i>S. fuliginosa</i> (Dickson) Ach.	1-6, 9, 14, 16, 20, 21, 26-29, 33, 39, 40
<i>S. limbata</i> (Sm.) Ach.	1-7, 9, 12, 16, 20, 27, 28, 33, 39
<i>S. sylvatica</i> (Huds.) Ach.	1-4, 7, 9, 16, 20, 21, 26-29, 33, 35, 39, 40
<i>Strangospora ochrophora</i> (Nyl.) R. Anderson	1, 2, 16, 18
<i>S. pinicola</i> (Massal.) Körber	21
<i>Strigula jamesii</i> (Swinscow) R. C. Harris	5
<i>S. taylorii</i> (Carroll ex Nyl.) R. C. Harris	1-5, 10
<i>Synalissa ramulosa</i> (Hoffm.) Fr.	9, 15, 17, 35, 39, 40
<i>Teloschistes chrysophthalmus</i> (L.) Th. Fr.	2-4, 38, 39
<i>T. flavicans</i> (Swartz) Norman	1-6, 12, 16, 21, 38
<i>Thelidium cataractarum</i> (Hepp) Lönnr.	1-3, 15, 21, 28, 29, 32, 33, 36
<i>T. decipiens</i> (Nyl.) Krempelh.	1, 2, 4, 8-10, 15, 16, 19, 28, 29, 33, 38-40
<i>T. fumidum</i> (Nyl.) Hazshn	16
<i>T. incavatum</i> Nyl. ex Mudd	7, 9, 15, 16
<i>T. mesotropum</i> (Nyl.) A. L. Sm.	2
<i>T. papulare</i> (Fr.) Arnold	1-5, 9, 14-16, 18, 28, 36, 37
<i>T. pyrenophorum</i> (Ach.) Mudd	1, 3, 7, 9, 16, 23, 27-29, 37
<i>Thelopsis rubella</i> Nyl.	2, 3
<i>Thelotrema isidioides</i> (Borrer) R. Sant.	3
<i>T. lepadinum</i> (Ach.) Ach.	1-16, 18-21, 23, 24, 27-29, 33, 35, 36, 38, 39
<i>T. monosporum</i> Nyl.	1, 2, 16
<i>T. subtile</i> Tuck.	1-4, 16, 35
<i>Thermutis velutina</i> (Ach.) Flotow	16
<i>Thrombium epigaeum</i> (Pers.) Wallr.	3, 9, 16, 21, 39
<i>Toninia aromatica</i> (Turner ex Sm.) Massal.	1-23, 26-31, 33-40
<i>T. caeruleonigricans</i> (Lightf.) Th. Fr.	3-9, 12, 15, 18, 20, 21, 28, 33-35, 39, 40
<i>T. candida</i> (Weber) Th. Fr.	16, 28, 39
<i>T. cervina</i> Lönnr.	1, 7, 16, 21, 36
<i>T. lobulata</i> (Sommerf.) Lynge	1, 3, 5, 9, 15, 16, 20, 27, 33, 34, 37, 38
<i>T. mesoidea</i> (Nyl.) Zahlbr.	4, 16, 27
<i>T. pulvinata</i> (Taylor) H. Olivier	1, 2, 16
<i>T. squalida</i> (Ach.) Massal.	20

<i>Trapelia coarctata</i> (Sm.) Choisy	1-7, 9-14, 16, 18-22, 27, 29, 30, 32-40
<i>T. corticola</i> Coppins & P. James, ined.	2, 3
<i>T. involuta</i> (Taylor) Hertel	1, 3-6, 9, 12, 13, 16, 20, 21, 27, 32, 35, 36, 38, 39
<i>T. mooreana</i> (Carroll) P. James	20, 21, 39
<i>T. obtegens</i> (Th. Fr.) Hertel	39
<i>Trapeliopsis glaucolepidea</i> (Nyl.) G. Schneider	3, 20, 21, 36, 39
<i>T. wallrothii</i> (Flörke ex Sprengel) Hertel & G. Schneider	1, 3, 4, 20, 21
<i>Tremolecia atrata</i> (Ach.) Hertel	1-3, 6, 11-14, 16, 20, 21, 27, 38-40
<i>Umbilicaria arctica</i> (Ach.) Nyl.	1
<i>U. cylindrica</i> (L.) Delise ex Duby	1, 2, 5, 7, 8, 10, 16, 20, 27, 35, 38
<i>U. polyphylla</i> (L.) Baumg.	1, 12, 13, 20, 21
<i>U. polyrrhiza</i> (L.) Fr.	1, 16, 20, 27, 39
<i>U. proboscidea</i> (L.) Schrader	1, 2, 20
<i>U. spodochoa</i> (Ehrh. ex Hoffm.) DC	20 ^T
<i>U. torrefacta</i> (Lightf.) Schrader	1-3, 16, 20, 27, 35
<i>Usnea articulata</i> (L.) Hoffm.	3, 11, 12, 16, 20, 21, 24, 25
<i>U. ceratina</i> Ach.	1-3, 7, 28, 38, 39
<i>U. filipendula</i> Stirton	2, 3, 9, 10, 15, 20, 21, 27, 33-35, 38, 39
<i>U. flammea</i> Stirton	1-4, 7, 11, 12, 15, 16, 20-22, 27, 28, 35
<i>U. florida</i> (L.) Wigg.	3, 12, 16, 20, 38, 39
<i>U. fragilescens</i> Havaas ex Lyngé	1-7, 11, 12, 16, 20, 27, 33, 38-40
<i>U. fulvoreaegens</i> (Räsänen) Räsänen	1-4, 6, 9, 16, 21, 22, 24, 27, 28, 32, 33, 35, 38
<i>U. glabrata</i> (Ach.) Vainio	16, 20-22
<i>U. glabrescens</i> (Nyl. ex Vainio) Vainio	3, 4, 9, 15, 16, 38
<i>U. hirta</i> (L.) Wigg.	38, 39
<i>U. inflata</i> Delise	1-14, 16, 18, 20, 24, 27-29, 33, 35, 36, 39
<i>U. rubicunda</i> Stirton	1-6, 14, 16, 20, 24, 27
<i>U. subfloridana</i> Stirton	1-14, 16, 18-25, 27-33, 35, 36, 38-40

^T Old record; see Earland-Bennett (1974).

<i>Verrucaria aethiobola</i> Wahlenb.	1-7, 9, 11, 14-16, 19-24, 27-30, 32, 33, 36-39
<i>V. amphibia</i> Clemente	1, 3-5, 9, 12, 21, 38
<i>V. aquatilis</i> Mudd	1, 2, 20, 21, 36, 38, 39
<i>V. aquilella</i> Nyl.	3, 16
<i>V. baldensis</i> Massal.	1, 2, 4-9, 11, 13-20, 22-25, 27-30, 33, 36, 37, 39
<i>V. calciseda</i> DC.	7, 9, 15, 18, 28, 34
<i>V. coerulea</i> DC.	1-3, 5, 7-9, 15, 16, 22, 24, 26-29, 32-34, 39
<i>V. conturmatula</i> Nyl.	16
<i>V. cyanea</i> Massal.	9, 15
<i>V. ditmarsica</i> Erichsen	1, 3, 5, 21, 38
<i>V. dufourii</i> DC.	1-5, 7-9, 13-16, 18, 19, 21, 22, 28-30, 33, 37, 39
<i>V. elaeomelaena</i> (Massal.) Arnold	4, 19
<i>V. erichsenii</i> Zsch.	12
<i>V. funckii</i> (Sprengel) Zahlbr.	16
<i>V. fusconigrescens</i> Nyl.	1, 3, 4, 7, 11, 12, 38
<i>V. glaucina</i> Ach.	1-3, 5-9, 11-23, 25, 27, 28, 31, 33, 34, 36-39
<i>V. halizoa</i> Leighton	1, 3, 6, 16, 20, 21, 27, 34, 35, 38, 39
<i>V. hochstetteri</i> Fr.	1, 3-23, 28, 29, 33, 34, 38, 39
<i>V. hydrela</i> Ach.	1, 3, 6, 16, 20, 21, 32, 36
<i>V. insularis</i> (Massal.) Jatta	9
<i>V. internigrescens</i> (Nyl.) Erichsen	1, 4, 38
<i>V. latebrosa</i> Körber	16, 29
<i>V. macrostoma</i> Dufour ex DC.	1, 3, 5, 9, 15, 16, 21
<i>V. margacea</i> (Wahlenb.) Wahlenb.	1-4, 9, 19, 20, 27, 38, 39
<i>V. maura</i> Wahlenb.	1-6, 8, 9, 12, 15-17, 20-22, 27-29, 31, 34, 35, 37-40
<i>V. mucosa</i> Wahlenb.	1, 3-6, 8, 9, 12, 16, 20, 21, 27, 31, 34, 35, 38-40
<i>V. muralis</i> Ach.	1-23, 25, 27-30, 32, 33, 36-39
<i>V. murina</i> Leighton	1, 2, 4, 5, 8, 12, 16, 19, 21, 26, 37
<i>V. nigrescens</i> Pers.	1-40
<i>V. pinguicula</i> Massal.	16
<i>V. praetermissa</i> (Trevisan) Anzi	36, 39
<i>V. prominula</i> Nyl.	1, 3-6, 9, 16, 21, 27, 28, 34, 35, 39
<i>V. pseudomemnonia</i> Zsch.	3, 12, 16, 21, 27, 35, 38
<i>V. sandstedei</i> B. de Lesd.	21, 38
<i>V. striatula</i> Wahlenb.	1, 3-6, 9, 12, 16, 21, 27, 34, 35, 38, 39
<i>V. viridula</i> (Schrader) Ach.	1-23, 27, 28, 33, 37-39
<i>Vezeadaea aestivalis</i> (Ohl.) Tsch.-Woess & Poelt	2, 16
<i>V. leprosa</i> (P. James) Vezeada	2, 16
<i>Xanthoria calcicola</i> Oxner	1, 3, 4, 11, 12, 14, 16, 21, 27, 34, 35, 39
<i>X. candelaria</i> (L.) Th. Fr.	1, 3-7, 9-14, 18-23, 27, 31, 34, 35, 38, 39
<i>X. elegans</i> (Link) Th. Fr.	1, 7, 11-14, 20, 21, 32, 39
<i>X. fallax</i> (Hepp) Arnold	1, 3, 7, 19, 21
<i>X. parietina</i> (L.) Th. Fr.	1-40
<i>X. polycarpa</i> (Hoffm.) Rieber	4, 6, 7, 9-12, 14, 18, 20-22, 24, 29, 31, 32, 36, 37, 39
<i>Xylographa abietina</i> (Pers.) Zahlbr.	2
<i>X. vitiligo</i> (Ach.) Laundon	1

EXCLUDED TAXA AND RECORDS

Several taxa listed as occurring in Ireland by Watson (1953) have proved to be incorrect, a few are dubious, and others (especially aggregates of two or more taxa) are difficult to assign current nomenclature in the absence of herbarium material; these three categories have been omitted from the *Census Catalogue*. In addition, the following records, mainly those indicated by Watson (1953) as being doubtful either in regard to identity or to locality, have been omitted; many will undoubtedly be reinstated when the survey of the Irish lichen flora, currently under way, has been completed.

*Taxa if proved correct, additional to Irish lichen flora.

<i>Acarospora macrospora</i>	1, 2, 20, 21, 39
<i>A. smaragdula</i>	6, 11, 20, 29, 32, 34, 36, 38, 39
* <i>Allantoparmelia alpicola</i>	27
<i>Anaptychia ciliaris</i> subsp. <i>mamillata</i>	39
<i>Arthonia didyma</i>	9, 20
* <i>A. dispersa</i>	2, 5, 16
* <i>A. exilis</i>	18
* <i>A. impolita</i>	1
* <i>A. patellulata</i>	8, 37
* <i>Arthopyrenia cinereopruinosa</i>	1-5, 7-10, 12, 13, 15-20, 22, 24, 25, 27, 28, 32, 36
<i>A. rhypana</i>	27, 37
* <i>Bacidia herbidula</i>	16
<i>Buellia disciformis</i>	13, 21, 38
<i>B. schaereri</i>	21
* <i>Caloplaca arenaria</i>	4
<i>C. ferruginca</i>	14, 15, 23, 24, 29, 30, 32, 34
* <i>Catillaria minuta</i>	16, 37
<i>C. nigroctavata</i>	9, 16, 18, 23
* <i>C. subnigrata</i>	1, 12, 13, 39
* <i>Catinaria taureri</i>	2
<i>Chaenotheca trichialis</i>	3
* <i>Cladonia acuminata</i>	16
* <i>C. amaurocraea</i>	16, 21, 39
<i>C. cervicornis</i>	5, 20, 27, 28
<i>C. cornuta</i>	1

* <i>C. firma</i>	3, 21
<i>C. rangiferina</i>	1, 2, 21, 36, 38
<i>C. subulata</i>	40
* <i>C. turgida</i>	2
<i>Collema cristatum</i> var. <i>marginale</i>	3, 39
<i>Dermatocarpon meiophyllizum</i>	38, 39
<i>Diplotomma epipolium</i>	5
* <i>Huilia glaucophaea</i>	9, 39
<i>Ionaspis epulotica</i>	36-38
<i>Lecania albariella</i>	3, 5
<i>Lecanora cenisia</i>	3
<i>L. fugiens</i>	4
* <i>Lecidea albohyalina</i>	36
<i>L. auriculata</i>	16
<i>L. carrollii</i>	25
* <i>L. cinnabarina</i>	20
<i>L. gelatinosa</i>	1, 2
<i>L. lactea</i>	16, 28, 34, 37
<i>L. lapicida</i>	2, 21, 27, 36, 37
<i>L. limosa</i>	39
<i>L. phaeops</i>	20
<i>L. valentior</i>	21
* <i>L. viridescens</i>	21
* <i>Lecidella pulveracea</i>	1, 5, 17, 19-21, 26, 27, 39
* <i>L. viridans</i>	1
* <i>Leptogium rimosum</i>	2
* <i>Micarea sylvicola</i>	9
* <i>M. ternaria</i>	1, 16, 17, 27
* <i>Nephroma resupinatum</i>	16
* <i>Pannaria hookeri</i>	16
<i>P. rubiginosa</i>	20
<i>Parmelia reticulata</i>	27
* <i>P. stygia</i>	27
<i>P. tiliacea</i>	27

<i>Peltigera malacea</i>	27
<i>Pertusaria ceuthocarpoides</i>	4, 5
* <i>P. polythecia</i>	sine loc.
<i>Phaeographis dendritica</i>	1, 4, 6, 7, 9-11, 13-24, 28, 30, 35, 36, 38, 39
* <i>Phaeophyscia ciliata</i>	1, 5, 9, 16, 39
* <i>P. sciastra</i>	15
<i>Physcia tribacia</i>	21
<i>Polychidium muscicola</i>	4
<i>Porina ahlesiana</i>	12
* <i>P. heterospora</i>	1-3
* <i>Psorotichia pyrenopsoides</i>	1
<i>P. schaereri</i>	1, 2
* <i>Pyrenopsidium granuliforme</i>	16
<i>Ramalina cuspidata</i>	38
<i>Rhizocarpon badioatrum</i>	1, 4, 38
<i>Rinodina oxydata</i>	5
* <i>Roccella fuciformis</i>	1, 27 ^U
* <i>Schismatomma abietinum</i>	2, 27
<i>Solenopsora candicans</i>	3
<i>Staurothete catalepta</i>	3
* <i>Stereocaulon paschale</i>	2, 3
* <i>Strigula nitidula</i>	2
<i>Thelidium incavatum</i>	8, 14, 19, 22, 25, 28, 30, 33, 39
* <i>Thelopsis melathelia</i>	sine loc.
* <i>Tornabenia atlantica</i>	1
* <i>Umbilicaria deusta</i>	1

^U Doubtful; see Hawksworth (1980) p. 206.

* <i>U. hyperborea</i>	1
<i>U. polyrrhiza</i>	38
<i>Usnea florida</i>	2, 5-11, 13-15, 11-19, 21-24, 26, 28-30, 32-37, 40
<i>U. hirta</i>	1, 3-5, 7.8, 10-12, 16, 20-23, 27, 29, 32, 33
<i>Verrucaria hydrela</i>	3
<i>V. maura</i>	11