

## DRAFT of “The conservation status of bryophytes in North-East England, in 2010”

### Introduction

An account is presented here of the current conservation status of all bryophyte taxa known to occur in the three main vice-counties of North-east England (VCs 66, 67 & 68). Lists of RDB, legally protected, nationally rare & scarce and regionally rare & scarce taxa are presented, followed by a systematic list of all taxa recorded from the region up to the end of 2010. It is intended that this systematic list will be annotated in the near future with brief comments on the occurrence of each taxon in the region, with any major trends in abundance or distribution highlighted. An index and a table of contents will also be included in future versions. For further, more detailed information on the distribution of bryophyte taxa in the region see the distribution maps on ‘The flora of North-east England’ website at <http://www.botanicalkeys.co.uk/northumbria/search.asp>, which are updated roughly every six months.

### Background

Apart from the up to date distribution maps on the web, the following are the most recent published sources of information on bryophyte distribution and conservation status within the region:

- Graham (1988) – this county flora included a bryophyte section with the more common species mapped on a tetrad (2km x 2km grid squares) scale. The number of tetrads covered for bryophytes was less than 20%, so these maps can be misleading at this scale.
- Duncan (1950) – the most recent source of published information on bryophytes in Northumberland that attempted to include all taxa, with brief accounts of each taxon.
- Kerslake (1998) – bryophytes of conservation interest in Northumberland are listed, based on a desktop search of mostly old records.
- Hill *et al.* (1991-4) – a series of distribution maps covering the British Isles on a hectad (10km x 10km grid squares) scale.

Since all of these publications, there have been extensive revisions to bryophyte nomenclature and taxonomy and the current standard source is Hill *et al.* (2008). Nomenclature in this document follows Hill *et al.* (2008). Almost all of the criteria for assessing conservation status have been revised since Kerslake (1998) was published. Revised lists are contained in BRIG (2007), Hodgetts (2011), Preston (2006), Preston (2010).

The main additional sources of species statuses and designations based on domestic legislation and international directives and conventions include:

- The Wildlife & Countryside Act, 1981
- The Natural Environment and Rural Communities (NERC) Act, 2006.
- The Habitats Directive.
- The Bern Convention.

Amendments to all of these can occur and a master spreadsheet of all species designations and statuses is maintained on the JNCC website <http://www.jncc.gov.uk/page-3408>, which is updated regularly in an attempt to include all modifications to these various lists.

### Some facts and figures

If subspecies and varieties are counted as separate taxa, but all potential sources of double-counting (e.g. cases where both a species in a broad sense or a species aggregate and a species, variety or subspecies in a more strictly defined sense are listed) are counted as one taxon, then there have been 652 taxa recorded in the region. VC66 has 538 taxa, VC67 has 502 taxa and VC68 has 526 taxa. These figures compare to the 1,110 taxa listed for Britain and Ireland in Hill *et al.* (2008).

We have twenty-one Red List species, including: three that are categorised as 'Regionally Extinct' ('region' in this case refers to Britain as a whole); two that are 'Critically Endangered'; three that are 'Endangered' and thirteen that are 'Vulnerable'. In addition to these Red List species, other species of conservation concern include: eleven 'Near Threatened' species and; five that are 'Data Deficient'.

One of our species is listed on the Bern Convention. Two of our species and one genus (*Sphagnum*) are listed in Annex II of the Habitats Directive. Three of our species are protected under Schedule 8 of the Wildlife & Countryside Act, 1981.

Twenty-one of our species are UKBAP Priority species and eighteen of these are 'Species of Principle Importance in England', under Section 41 of the NERC Act, 2006.

We have sixteen taxa that are currently considered as 'Nationally Rare', i.e. recorded in recent times in 1 to 15 hectads in Britain. We also have 119 taxa (or 117 if double-counting is avoided) that are 'Nationally Scarce', i.e. recorded in recent times in 16 to 100 hectads in Britain.

### **Regionally rare and scarce species**

When assessing conservation significance, it is useful to consider the local or regional context in addition to the various national and international listings. To do this objectively and accurately, ideally we would need accurate and comprehensive data on the abundance of all taxa, on a finer scale than hectads for the region. Unfortunately this level of detail is not available and is unlikely to be available for some time. Therefore, for the time being, the most appropriate semi-objective method of assessing regional rarity of bryophyte species in North-east England, is by comparing presence/absence data on a hectad scale, as we have reasonably complete data at this level.

I have arbitrarily chosen 1 to 3 hectad records as representing 'Regionally Rare' taxa and 4 to 10 hectad records as representing 'Regionally Scarce' taxa. Records from all dates are included, which again is not ideal. Based on these criteria, 182 taxa are 'Regionally Rare' and a further 132 taxa are 'Regionally Scarce'.

There are plans to undertake a comprehensive survey of bryophytes in Northumberland over the next 10 years which would give us much better data on which to assess conservation status within Northumberland.

John O'Reilly, February 2011.

## References

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Preston C.D. 2006. A revised list of nationally scarce bryophytes. *Field Bryology* 90: 22-29

Preston C.D. 2010. A revised list of nationally rare bryophytes. *Field Bryology* 100: 32-40

## **Red List bryophytes in North-east England**

A revised list of Red List bryophyte species in Britain is presented in Hodgetts (2011) where the definitions of the various categories and the criteria for designation are explained. The first four categories below represent the Red List species. The final two categories can also be considered as species of conservation concern.

The eight species listed in the first three categories (RE, CR & EN) could be considered to be the species of most conservation interest in our region. The word 'region' in the 'RE-Regionally Extinct' category, refers to Britain as a whole. Any other use of the word 'region' in this document refers to the region covered by VCs 66, 67 & 68.

### **RE = Regionally Extinct**

*Bryum turbinatum*

*Bryum uliginosum*

*Dicranum elongatum*

### **CR = Critically Endangered**

*Aplodon wormskioldii*

*Seligeria carniolica*

### **EN = Endangered**

*Orthotrichum pallens*

*Orthotrichum pumilum*

*Sphagnum balticum*

### **VU = Vulnerable**

*Anomodon longifolius*

*Bryum calophyllum*

*Bryum knowltonii*

*Bryum marratii*

*Cynodontium polycarpon*

*Dicranum spurium*

*Dicranum undulatum*

*Grimmia elongata*

*Homomallium incurvatum*

*Nardia insecta*

*Orthodontium gracile*

*Splachnum vasculosum*

*Tomentypnum nitens*

### **NT = Near Threatened**

*Barbilophozia kunzeana*

*Bryum creberrimum*

*Bryum kunzei*

*Bryum warneum*

*Buxbaumia aphylla*

Cephaloziella spinigera  
Dicranum flexicaule  
Hygrohypnum duriusculum  
Leiocolea gillmanii  
Orthotrichum speciosum  
Pseudocalliergon lycopodioides

**DD = Data Deficient**

Bryum intermedium  
Dicranum leioneuron  
Moerckia flotoviana  
Moerckia hibernica agg.  
Seligeria trifaria sensu lat.

## **Bryophyte species in North-east England that are protected by legislation or listed in international conventions or directives**

On the Habitats Directive, *Petalophyllum ralfsii* is listed for protection because of its rarity and vulnerability. *Leucobryum glaucum* and *Sphagnum* are sometimes collected from the wild for commercial reasons. They are listed here in order to protect them from over-collection. For detailed advice on what these listings mean it is best to refer to the original legislation/directive/convention. The data here were taken from the JNCC master taxon designations spreadsheet, dated 21/1/2011.

### **Bern Convention**

*Petalophyllum ralfsii*

### **EU Habitats Directive**

*Leucobryum glaucum*

*Petalophyllum ralfsii*

*Sphagnum*

### **Wildlife & Countryside Act - Schedule 8**

*Anomodon longifolius*

*Petalophyllum ralfsii*

*Sphagnum balticum*

## **BAP species and Species of Principle Importance**

Revised lists of UKBAP Priority species are published in BRIG (2007). Species of Principle Importance in England are listed in section 41 of the NERC Act, 2006. The data on the NERC Act species are taken from the JNCC master taxon designations spreadsheet dated 21/1/2011.

Two of the three UKBAP Priority species which are not included as Species of Principle Importance in England, are excluded from the latter list as they are now considered extinct in Britain. The reasons for excluding *Barbilophozia kunzeana* from that list are unclear to me. Our region is within a core part of the geographical range of this species in Britain and two new hectads records have been discovered for it in Northumberland since 2005.

### **UKBAP Priority species, which are also Species of Principle Importance in England**

Anomodon longifolius  
Aplodon wormskioldii  
Bryum calophyllum  
Bryum knowltonii  
Bryum marratii  
Bryum warneum  
Dicranum spurium  
Ditrichum plumbicola  
Grimmia elongata  
Homomallium incurvatum  
Orthodontium gracile  
Orthotrichum pallens  
Orthotrichum pumilum  
Petalophyllum ralfsii  
Seligeria carniolica  
Sphagnum balticum  
Splachnum vasculosum

### **UKBAP Priority species, which are not Species of Principle Importance in England**

Barbilophozia kunzeana  
Bryum uliginosum  
Dicranum elongatum

## **Nationally rare and scarce bryophytes in North-east England**

The most recent revisions to these lists are contained in Preston (2006) and Preston (2010). Nationally Rare species are those that have recent records from between 1 and 15 hectads in Britain. Nationally Scarce species are those that have recent records from between 16 and 100 hectads in Britain. Some taxa which have fewer than 100 hectad records are excluded from the list of Nationally Scarce taxa, as they are known to be spreading or under-recorded and it is likely that they already occur in more than 100 hectads in Britain in reality.

### **Nationally Rare**

Anomodon longifolius  
Aplodon wormskioldii  
Bryum calophyllum  
Bryum marratii  
Bryum uliginosum  
Cynodontium polycarpon  
Dicranum elongatum  
Dicranum leioneuron  
Homomallium incurvatum  
Nardia insecta  
Orthodontium gracile  
Orthotrichum pallens  
Orthotrichum pumilum  
Orthotrichum speciosum  
Seligeria carniolica  
Sphagnum balticum

### **Nationally Scarce**

Abietinella abietina var. abietina  
Aloina ambigua  
Aloina brevisrostris  
Aloina rigida  
Amblyodon dealbatus  
Amblystegium confervoides  
Amphidium lapponicum  
Andreaea megistospora  
Andreaea mutabilis  
Barbilophozia kunzeana  
Barbilophozia lycopodioides  
Bartramia halleriana  
Brachydontium trichodes  
Brachythecium salebrosum  
Bryum creberrimum  
Bryum elegans  
Bryum intermedium  
Bryum knowltonii  
Bryum kunzei



Bryum mildeanum  
Bryum torquescens  
Bryum warneum  
Bryum weigeli  
Buxbaumia aphylla  
Calypogeia azurea  
Calypogeia integristipula  
Campyliadelphus elodes  
Campylophyllum calcareum  
Campylopus subulatus  
Campylostelium saxicola  
Catoscopium nigrum  
Cephalozia catenulata  
Cephalozia loitlesbergeri  
Cephalozia macrostachya sensu lato  
Cephalozia macrostachya var. spiniflora  
Cephaloziella spinigera  
Cephaloziella stellulifera  
Cinclidium stygium  
Cololejeunea rossettiana  
Conardia compacta  
Cynodontium jenneri  
Dicranella crispa  
Dicranodontium asperulum  
Dicranum spurium  
Dicranum undulatum  
Discelium nudum  
Distichium inclinatum  
Ditrichum plumbicola  
Ditrichum zonatum  
Drepanocladus sendtneri  
Encalypta ciliata  
Encalypta rhaptocarpa  
Ephemerum recurvifolium  
Ephemerum sessile  
Fissidens rufulus  
Fossombronia fimbriata  
Grimmia decipiens  
Grimmia elongata  
Grimmia incurva  
Grimmia longirostris  
Grimmia orbicularis  
Grimmia ovalis  
Haplomitrium hookeri  
Hygrohypnum duriusculum  
Hypnum imponens

Kiaeria falcata  
Leiocolea gillmanii  
Leiocolea heterocolpos  
Lophozia longidens  
Lophozia obtusa  
Lophozia perssonii  
Meesia uliginosa  
Microbryum starckeanum  
Moerckia flotoviana  
Moerckia hibernica agg.  
Nardia geoscyphus  
Oedipodium griffithianum  
Petalophyllum ralfsii  
Philonotis arnellii  
Philonotis caespitosa  
Philonotis tomentella  
Plagiopus oederianus  
Plagiothecium laetum  
Platydictya jungermannioides  
Pohlia filum  
Pohlia ludwigii  
Pseudobryum cinclidioides  
Pseudocalliergon lycopodioides  
Pseudoleskeella catenulata  
Pterigynandrum filiforme  
Pterygoneurum ovatum  
Pylaisia polyantha  
Racomitrium canescens sensu stricto  
Rhytidium rugosum  
Riccardia incurvata  
Riccia cavernosa  
Riccia huebeneriana  
Ricciocarpos natans  
Scapania aequiloba  
Scapania cuspiduligera  
Scapania degenii  
Schistidium agassizii  
Schistidium trichodon  
Seligeria acutifolia  
Seligeria pusilla  
Seligeria trifaria sensu lato  
Solenostoma confertissimum  
Solenostoma subellipticum  
Sphagnum austinii  
Sphagnum majus  
Sphagnum pulchrum

Sphagnum riparium  
Splachnum vasculosum  
Tetralophozia setiformis  
Tomentypnum nitens  
Tortella densa  
Tortella inclinata  
Tortula atrovirens  
Weissia rostellata

## Regionally rare and scarce bryophytes in North-east England

Regionally Rare taxa are those that occur in 1 to 3 hectads in VCs 66, 67 & 68 using records from all dates.

Regionally Scarce taxa are those that occur in 4 to 4 hectads in VCs 66, 67 & 68 using records from all dates.

These lists are likely to represent over-estimates of exactly how many species should be regarded as regionally rare and scarce, for two main reasons:

- Where a group has undergone recent taxonomic revision, we frequently have few records for the new taxa since that revision, thus making several of these taxa appear to be less common than they really are.
- Some double-counting is involved, where e.g. a species in a broad sense is included in the regionally scarce list and the species in a narrow sense is included in the regionally rare list. E.g. see *Plagiochila spinulosa*. This is unavoidable where we do not yet have certainty about which species in the narrower sense we have. Many of the older records are ambiguous and/or not supported by specimens that can be checked.

In the planned expanded version of this document the systematic list will be annotated with explanatory comments on these issues for each of the relevant taxa.

### Regionally Rare bryophytes in North-east England

*Abietinella abietina* var. *abietina*

*Aloina ambigua*

*Aloina brevisrostris*

*Aloina rigida*

*Amblystegium confervoides*

*Amphidium lapponicum*

*Anastrepta orcadensis*

*Andreaea alpina*

*Andreaea megistospora*

*Andreaea mutabilis*

*Anomobryum concinnatum*

*Anomodon longifolius*

*Anthelia julacea*

*Anthoceros agrestis*

*Anthoceros punctatus*

*Aplodon wormskioldii*

*Atrichum crispum*

*Barbilophozia lycopodioides*

*Bartramia halleriana*

*Brachythecium salebrosum*

*Bryum bornholmense*

*Bryum calophyllum*

*Bryum creberrimum*

*Bryum kunzei*

*Bryum marratii*

*Bryum mildeanum*

*Bryum pseudotriquetrum* var. *bimum*

Bryum torquescens  
Bryum turbinatum  
Bryum uliginosum  
Bryum warneum  
Bryum weigeli  
Buxbaumia aphylla  
Campylophyllum calcareum  
Campylopus brevipilus  
Campylopus subulatus  
Campylostelium saxicola  
Cephalozia leucantha  
Cephalozia loitlesbergeri  
Cephalozia macrostachya var. spiniflora  
Cephaloziella spinigera  
Cephaloziella stellulifera  
Cinclidium stygium  
Colura calyptrifolia  
Cynodontium polycarpon  
Dialytrichia mucronata  
Dichodontium flavescens  
Dicranodontium asperulum  
Dicranum elongatum  
Dicranum flexicaule  
Dicranum leioneuron  
Dicranum spurium  
Dicranum undulatum  
Diplophyllum obtusifolium  
Ditrichum flexicaule sensu stricto  
Ditrichum plumbicola  
Ditrichum zonatum  
Douinia ovata  
Drepanocladus sendtneri  
Encalypta ciliata  
Encalypta rhaptocarpa  
Entosthodon fascicularis  
Ephemerum recurvifolium  
Ephemerum sessile  
Fissidens bryoides var. caespitans  
Fissidens gracilifolius  
Fissidens rufulus  
Fossombronia fimbriata  
Grimmia decipiens  
Grimmia elongata  
Grimmia funalis  
Grimmia incurva  
Grimmia orbicularis

Grimmia ovalis  
Grimmia torquata  
Gymnomitrium concinnatum  
Gymnomitrium crenulatum  
Gymnomitrium obtusum  
Haplomitrium hookeri  
Harpanthus scutatus  
Hedwigia stellata  
Henediella macrophylla  
Henediella stanfordensis  
Heterocladium wulfsbergii  
Homomallium incurvatum  
Hygrohypnum duriusculum  
Hygrohypnum eugyrium  
Hypnum callichroum  
Kiaeria blyttii  
Kiaeria falcata  
Kurzia sylvatica  
Leiocolea gillmanii  
Leiocolea heterocolpos  
Lejeunea lamacerina  
Lejeunea patens  
Lepidozia pearsonii  
Loeskeobryum brevirostre  
Lophozia longidens  
Lophozia obtusa  
Lophozia perssonii  
Marsupella emarginata var. aquatica  
Marsupella emarginata var. pearsonii  
Marsupella funckii  
Microbryum davallianum var. commutatum  
Microbryum floerkeanum  
Microbryum starckeanum  
Microlejeunea ulicina  
Nardia geoscyphus  
Nardia insecta  
Oedipodium griffithianum  
Orthodontium gracile  
Orthotrichum pallens  
Orthotrichum pumilum  
Orthotrichum speciosum  
Orthotrichum tenellum  
Oxyrrhynchium speciosum  
Petalophyllum ralfsii  
Phascum cuspidatum var. schreberianum  
Philonotis caespitosa

Philonotis tomentella  
Plagiochila spinulosa sensu stricto  
Plagiopus oederianus  
Plagiothecium latebricola  
Platydictya jungermannioides  
Pohlia bulbifera  
Pohlia camptotrachela  
Pohlia filum  
Pohlia ludwigii  
Pohlia lutescens  
Pohlia wahlenbergii var. glacialis  
Pseudobryum cinclidioides  
Pseudocalliergon lycopodioides  
Pseudoleskeella catenulata  
Pterigynandrum filiforme  
Pterogonium gracile  
Racomitrium canescens sensu stricto  
Racomitrium sudeticum  
Radula lindenbergiana  
Rhabdoweisia crenulata  
Rhabdoweisia fugax  
Rhynchostegium megapolitanum  
Rhytidium rugosum  
Riccardia latifrons  
Riccia cavernosa  
Riccia fluitans  
Riccia glauca  
Riccia huebeneriana  
Saccogyna viticulosa  
Sarmentypnum sarmentosum  
Scapania aequiloba  
Scapania degenii  
Schistidium agassizii  
Schistidium elegantulum  
Schistidium trichodon  
Schistostega pennata  
Seligeria acutifolia  
Seligeria carniolica  
Seligeria trifaria sensu lato  
Solenostoma confertissimum  
Solenostoma subellipticum  
Sphagnum balticum  
Sphagnum contortum  
Sphagnum flexuosum  
Sphagnum majus  
Sphagnum pulchrum

Sphagnum riparium  
Splachnum vasculosum  
Syntrichia virescens  
Tetralophozia setiformis  
Tortella densa  
Tortella inclinata  
Tortula atrovirens  
Tortula marginata  
Tortula viridifolia  
Ulota hutchinsiae  
Weissia brachycarpa var. brachycarpa  
Weissia brachycarpa var. obliqua  
Weissia longifolia var. longifolia  
Weissia rostellata  
Weissia rutilans  
Zygodon rupestris  
Zygodon viridissimus var. stirtonii

**Regionally scarce bryophytes in north-east England**

Acaulon muticum  
Amblyodon dealbatus  
Anastrophyllum minutum  
Andreaea rothii subsp. falcata  
Anoetangium aestivum  
Antitrichia curtipendula  
Aphanorrhagma patens  
Archidium alternifolium  
Barbilophozia hatcheri  
Barbilophozia kunzeana  
Brachydontium trichodes  
Brachythecium mildeanum  
Bryoerythrophyllum ferruginascens  
Bryum algovicum var. rutheanum  
Bryum archangelicum  
Bryum caespiticium  
Bryum elegans  
Bryum gemmiferum  
Bryum intermedium  
Bryum klinggraeffii  
Bryum knowltonii  
Bryum pallescens  
Bryum radiculosum  
Bryum ruderae  
Bryum sauteri  
Bryum violaceum  
Calypogeia neesiana



Calypogeia sphagnicola  
Campyliadelphus elodes  
Campylopus atrovirens var. atrovirens  
Catoscopium nigratum  
Cephalozia catenulata  
Cephalozia macrostachya sensu lato  
Cephaloziella rubella  
Cladopodiella fluitans  
Cololejeunea calcarea  
Cololejeunea rossettiana  
Conardia compacta  
Cryphaea heteromalla  
Cynodontium jenneri  
Dicranella crispa  
Dicranella subulata  
Dicranodontium denudatum  
Dicranum montanum  
Didymodon sinuosus  
Discelium nudum  
Distichium inclinatum  
Ditrichum gracile  
Drepanocladus polygamus  
Entodon concinnus  
Entosthodon attenuatus  
Ephemerum minutissimum  
Ephemerum serratum sensu stricto  
Fissidens exilis  
Fissidens incurvus  
Fissidens viridulus sensu stricto  
Fontinalis squamosa var. squamosa  
Fossombronia wondraczekii  
Frullania fragilifolia  
Grimmia donniana sensu lato  
Grimmia donniana sensu stricto  
Grimmia hartmanii  
Grimmia longirostris  
Grimmia ramondii  
Hygroamblystegium varium  
Kurzia trichoclados  
Leucodon sciuroides sensu lato  
Leucodon sciuroides var. sciuroides  
Lophozia sudetica  
Marchantia polymorpha subsp. montivagans  
Marsupella sprucei  
Meesia uliginosa  
Metzgeria conjugata

Metzgeria consanguinea  
Microbryum curvicolle  
Microbryum davallianum var. davallianum  
Moerckia flotoviana  
Moerckia hibernica agg.  
Orthothecium intricatum  
Orthotrichum rupestre  
Orthotrichum sprucei  
Orthotrichum striatum  
Oxyrrhynchium schleicheri  
Phascum cuspidatum var. piliferum  
Philonotis arnellii  
Plagiobryum zieri  
Plagiochila britannica  
Plagiochila spinulosa sensu lato  
Plagiothecium laetum  
Pogonatum nanum  
Pohlia drummondii  
Pohlia elongata var. elongata  
Polytrichastrum longisetum  
Porella arboris-vitae  
Pterygoneurum ovatum  
Pylaisia polyantha  
Racomitrium affine  
Rhabdoweisia crispata  
Rhizomnium pseudopunctatum  
Rhodobryum roseum  
Rhynchostegiella teneriffae  
Riccardia incurvata  
Riccardia palmata  
Ricciocarpos natans  
Scapania compacta  
Scapania cuspiduligera  
Schistidium apocarpum sensu stricto  
Schistidium maritimum  
Schistidium robustum  
Schistidium strictum  
Scleropodium cespitosum  
Scorpidium cossonii  
Scorpidium revolvens sensu stricto  
Scorpidium scorpioides  
Seligeria donniana  
Seligeria pusilla  
Solenostoma paroicum  
Sphagnum angustifolium  
Sphagnum austinii

Sphagnum fuscum  
Sphagnum molle  
Sphagnum warnstorffii  
Splachnum ampullaceum  
Syntrichia papillosa  
Taxiphyllum wissgrillii  
Thuidium delicatulum  
Tomentypnum nitens  
Tortella flavovirens  
Tortula modica  
Tortula protobryoides  
Weissia controversa var. densifolia  
Weissia longifolia var. angustifolia  
Zygodon conoideus var. conoideus

## Systematic list of the bryophytes of VCs 66, 67 & 68

All bryophyte taxa that have ever been recorded in VCs 66, 67 & 68, for which we have records, are included in this list. The list is presented in systematic order following the taxonomy and nomenclature used in Hill *et al.* (2008). The taxonomic levels are distinguished as follows:

- Phylum names appear in bold type and capitals thus **PHYLUM**.
- Class names appear in normal type in capitals thus CLASS.
- Order names appear in bold type in lower case thus **Order**.
- Family names appear in normal type in lower case thus Family.
- Genus, species, subspecies and variety names appear in lower case italics thus *Genus species*.

The authorities listed in Hill *et al.* (2008) are listed with the species name here. The synonyms listed in Hill *et al.* (2008) are also listed here in brackets after the species name.

The conservation status(es)/designation(s) in any of each taxon is listed on the line following the taxon name. It is planned to include some comments on the date of records and the distribution of each taxon in later versions of this document. The four columns on the right give the number of hectad records for each taxon up to the end of 2010 in VC66, VC67, VC68 and in all three VCs respectively. Records from all dates are included in these figures.

	66	67	68	NE
<b>PHYLUM: ANTHOCEROTOPHYTA (Hornworts)</b>				
CLASS: ANTHOCEROTOPSIDA				
<b>Order: Anthocerotales</b>				
Family: Anthocerotaceae				
<i>Anthoceros punctatus</i> L.		1		1
<i>Anthoceros agrestis</i> Paton			1	1
<b>PHYLUM: MARCHANTIOPHYTA (Liverworts)</b>				
CLASS: HAPLOMITRIOPSISIDA				
<b>Order: Calobryales</b>				
Family: Haplomitriaceae				
<i>Haplomitrium hookeri</i> (Sm.) Nees	1		1	2
NS				
CLASS: MARCHANTIOPSISIDA				
<b>Order: Blasiales</b>				
Family: Blasiaceae				
<i>Blasia pusilla</i> L.		13	6	19
<b>Order: Lunulariales</b>				
Family: Lunulariaceae				
<i>Lunularia cruciata</i> (L.) Lindb.	28	27	18	67
<b>Order: Marchantiales</b>				
Family: Marchantiaceae				
<i>Marchantia polymorpha</i> L.	30	37	18	79
<i>Marchantia polymorpha</i> L. subsp. <i>polymorpha</i> ( <i>M. polymorpha</i> var. <i>aquatica</i> (Nees) Gottsche et al.)	3	9	7	19

<i>Marchantia polymorpha</i> subsp. <i>ruderalis</i> Bischl. & Boisselier	4	6	2	12
<i>Marchantia polymorpha</i> subsp. <i>montivagans</i> Bischl. & Boisselier ( <i>M. alpestris</i> (Nees) Burgeff)	2		6	8
(NS)				
<i>Preissia quadrata</i> (Scop.) Nees	11	12	7	31
Family: Aytoniaceae				
<i>Reboulia hemisphaerica</i> (L.) Raddi	2	16	2	19
Family: Conocephalaceae				
<i>Conocephalum conicum</i> agg. (includes <i>C. conicum</i> (L.) Dumort & <i>C. salebrosum</i> Szweyk. et al.)	32	42	23	86
<i>Conocephalum conicum</i> (L.) Dumort. sensu stricto	9	11	2	22
<i>Conocephalum salebrosum</i> Szweyk. et al.	3	10	3	16
Family: Ricciaceae				
<i>Riccia cavernosa</i> Hoffm.		2		2
NS				
<i>Riccia huebeneriana</i> Lindenb.		1		1
NS				
<i>Riccia fluitans</i> L.	3			3
<i>Riccia sorocarpa</i> Bisch.	7	5	5	17
<i>Riccia glauca</i> L.		2		2
<i>Ricciocarpos natans</i> (L.) Corda	6			6
NS				
CLASS: JUNGERMANNIOPSIDA				
<b>Order: Pelliales</b>				
Family: Pelliaceae				
<i>Pellia epiphylla</i> (L.) Corda ( <i>P. borealis</i> Lorb.)	40	45	21	94
<i>Pellia neesiana</i> (Gottsche) Limpr.	15	12	7	32
<i>Pellia endiviifolia</i> (Dicks.) Dumort.	34	39	22	86
<b>Order: Fossombroniales</b>				
Family: Petalophyllaceae				
<i>Petalophyllum ralfsii</i> (Wilson) Nees & Gottsche Bern, HabDir, ERDB, NS, UKBAP, NERC, WACA8			3	3
Family: Fossombroniaceae				
<i>Fossombronia pusilla</i> (L.) Nees	6	4	3	13
<i>Fossombronia wondraczekii</i> (Corda) Lindb.	1	4	1	6
<i>Fossombronia fimbriata</i> Paton			1	1
NS				
<b>Order: Pallavincinales</b>				
Family: Moerckiaceae				
<i>Moerckia hibernica</i> agg. (includes <i>M. hibernica</i> (Hook.) Gottsche & <i>M. flotoviana</i> (Nees) Schiffn.) DD, NS	3	2	3	8
<i>Moerckia flotoviana</i> (Nees) Schiffn. DD, NS(NR)	2	1	3	6

<b>Order: Metzgeriales</b>				
Family: Metzgeriaceae				
<i>Metzgeria violacea</i> (Ach.) Dumort. ( <i>M. fruticulosa</i> auct.)	6	10	6	22
<i>Metzgeria consanguinea</i> Schiffn. ( <i>M. temperata</i> Kuwah.)		5		5
<i>Metzgeria furcata</i> (L.) Dumort.	21	35	15	64
<i>Metzgeria conjugata</i> Lindb.		4	2	6
<i>Metzgeria pubescens</i> (Schrank) Raddi ( <i>Aptometzgeria pubescens</i> (Schrank) Kuwah.)	8	7	4	18
Family: Aneuraceae				
<i>Aneura pinguis</i> (L.) Dumort.	31	40	19	80
<i>Riccardia multifida</i> (L.) Gray	7	21	8	36
<i>Riccardia chamedryfolia</i> (With.) Grolle	21	26	12	57
<i>Riccardia incurvata</i> Lindb.	3		1	4
NS				
<i>Riccardia palmata</i> (Hedw.) Carruth.	1	5	2	8
<i>Riccardia latifrons</i> (Lindb.) Lindb.		1		1
<b>Order: Porellales</b>				
Family: Porellaceae				
<i>Porella platyphylla</i> (L.) Pfeiff.	8	10	11	27
<i>Porella cordaeana</i> (Huebener) Moore	6	8	6	19
<i>Porella arboris-vitae</i> (With.) Grolle	2	2		4
Family: Radulaceae				
<i>Radula complanata</i> (L.) Dumort.	12	31	13	50
<i>Radula lindenbergiana</i> Gottsche ex C.Hartm.			1	1
Family: Frullanaceae				
<i>Frullania tamarisci</i> (L.) Dumort.	9	28	11	44
<i>Frullania fragillifolia</i> (Taylor) Gottsche et al.	1	3	1	5
<i>Frullania dilatata</i> (L.) Dumort.	12	36	16	56
Family: Lejeuneaceae				
<i>Cololejeunea calcarea</i> (Lib.) Schiffn.	4	2	1	7
<i>Cololejeunea rossettiana</i> (C.Massal.) Schiffn.	4	1		5
NS				
<i>Colura calyptriifolia</i> (Hook.) Dumort.		1		1
<i>Lejeunea cavifolia</i> (Ehrh.) Lindb.	9	16	6	28
<i>Lejeunea lamacerina</i> (Steph.) Schiffn.		2	1	3
<i>Lejeunea patens</i> Lindb.		1	1	2

<i>Microlejeunea ulicina</i> (Taylor) A.Evans ( <i>Lejeunea ulcina</i> (Taylor) Gottsche)		2		2
<b>Order: Ptilidiales</b>				
Family: Ptilidiaceae				
<i>Ptilidium ciliare</i> (L.) Hampe	12	27	11	45
<i>Ptilidium pulcherrimum</i> (Weber) Vainio	2	5	6	13
<b>Order: Jungermanniales</b>				
Family: Pseudolepicoleaceae				
<i>Blepharostoma trichophyllum</i> (L.) Dumort.	10	26	5	38
Family: Tricocoleaceae				
<i>Trichocolea tomentella</i> (Ehrh.) Dumort.	3	7	1	11
Family: Lepidoziaceae				
<i>Bazzania trilobata</i> (L.) Gray	1	14	3	18
<i>Kurzia pauciflora</i> (Dicks.) Grolle	8	38	8	49
<i>Kurzia sylvatica</i> (A.Evans) Grolle			2	2
<i>Kurzia trichoclados</i> (Müll.Frib.) Grolle		4	1	5
<i>Lepidozia reptans</i> (L.) Dumort.	27	43	16	79
<i>Lepidozia pearsonii</i> Spruce		1	1	2
<i>Lepidozia cupressina</i> (Sw.) Lindenb.		12	3	15
Family: Lophocolaceae				
<i>Lophocolea bidentata</i> (L.) Dumort.	40	45	25	100
<i>Lophocolea heterophylla</i> (Schrad.) Dumort.	31	36	12	73
<i>Chiloscyphus polyanthos</i> sensu lato (includes <i>C. polyanthos</i> (L.) Dumort. & <i>C. pallescens</i> (Ehrh. ex Hoffm.) Dumort.)	29	39	19	75
<i>Chiloscyphus polyanthos</i> (L.) Dumort. sensu stricto		10	3	13
<i>Chiloscyphus pallescens</i> (Ehrh. ex Hoffm.) Dumort. ( <i>C. polyanthos</i> var. <i>pallescens</i> (Ehrh. ex Hoffm.) C.Hartm.	1	8	4	13
Family: Plagiochilaceae				
<i>Plagiochila porelloides</i> (Torr. ex Nees) Lindenb.	26	40	17	77
<i>Plagiochila asplenoides</i> (L. emend. Taylor) Dumort.	22	31	8	57
<i>Plagiochila britannica</i> Paton	2	1	1	4
<i>Plagiochila spinulosa</i> sensu lato (includes <i>P. spinulosa</i> (Dicks.) Dumort. & <i>P. bifaria</i> (Sw.) Lindenb.)		4		4
<i>Plagiochila spinulosa</i> (Dicks.) Dumort. sensu stricto		1		1
Family: Cephaloziaceae				
<i>Cephalozia bicuspidata</i> (L.) Dumort.	37	45	18	90

<i>Cephalozia catenulata</i> (Huebener) Lindb.		2	4	6
NS				
<i>Cephalozia macrostachya</i> Kaal.		5	2	7
NS				
<i>Cephalozia macrostachya</i> var. <i>spiniflora</i> (Schiffn.) Müll.Frib.		2	1	3
NS				
<i>Cephalozia leucantha</i> Spruce			2	2
<i>Cephalozia lunulifolia</i> (Dumort.) Dumort.	9	32	13	49
<i>Cephalozia loitlesbergeri</i> Schiffn.	1			1
NS				
<i>Cephalozia connivens</i> (Dicks.) Lindb.	13	24	5	40
<i>Cladopodiella fluitans</i> (Nees) H.Buch	2	6	2	10
<i>Hygrobiella laxifolia</i> (Hook.) Spruce	2	6	3	11
<i>Nowellia curvifolia</i> (Dicks.) Mitt.	2	15	6	23
<i>Odontoschisma sphagni</i> (Dicks.) Dumort.	10	27	7	40
<i>Odontoschisma denudatum</i> (Mart.) Dumort.	2	15	4	20
Family: Cephaloziellaceae				
<i>Cephaloziella spinigera</i> (Lindb.) Warnst. ( <i>C. subdentata</i> Warnst.)		1		1
NT, NS				
<i>Cephaloziella rubella</i> (Nees) Warnst.		3	1	4
<i>Cephaloziella hampeana</i> (Nees) Schiffn.	6	14	3	23
<i>Cephaloziella divaricata</i> (Sm.) Schiffn.	12	25	7	43
<i>Cephaloziella stellulifera</i> (Spruce) Schiffn.	1			1
NS				
Family: Scapaniaceae				
<i>Gymnocolea inflata</i> (Huds.) Dumort.	16	32	12	54
<i>Barbilophozia kunzeana</i> (Huebener) Gams		4	1	5
NT, NS, UKBAP				
<i>Barbilophozia floerkei</i> (F.Weber & D.Mohr) Loeske	16	33	11	55
<i>Barbilophozia atlantica</i> (Kaal.) Loeske	1	10	4	15
<i>Barbilophozia attenuata</i> (Mart.) Loeske	11	32	9	48
<i>Barbilophozia hatcheri</i> (A.Evans) Loeske	1	2	4	7
<i>Barbilophozia lycopodioides</i> (Wallr.) Loeske			1	1
NS				
<i>Barbilophozia barbata</i> (Schmidel ex Schreb.) Loeske	7	10	5	20
<i>Anastrepta orcadensis</i> (Hook.) Schiffn.			1	1
<i>Tetralophozia setiformis</i> (Ehrh.) Schljakov ( <i>Chandonanthus setiformis</i> (Ehrh.) Lindb.)			2	2
NS				
<i>Anastrophyllum minutum</i> (Schreb.) R.M.Schust. ( <i>Sphenolobus minutus</i> (Schreb.) Berggr.)	2	4	2	8
<i>Tritomaria exsectiformis</i> (Breidl.) Loeske	1	8	6	15



<i>Tritomaria quinquedentata</i> (Huds.) H.Buch	6	18	4	26
<i>Lophozia longidens</i> (Lindb.) Macoun	1			1
NS				
<i>Lophozia ventricosa</i> (Dicks.) Dumort.	23	40	16	74
<i>Lophozia sudetica</i> (Nees ex Huebener) Grolle	2		3	5
<i>Lophozia excisa</i> (Dicks.) Dumort.	2	12	5	19
<i>Lophozia perssonii</i> H.Buch & S.W.Arnell	3			3
NS				
<i>Lophozia obtusa</i> (Lindb.) A.Evans		2		2
NS				
<i>Lophozia incisa</i> (Schrad.) Dumort.	6	11	4	19
<i>Lophozia bicrenata</i> (Schmidel ex Hoffm.) Dumort.	3	7	2	11
<i>Diplophyllum albicans</i> (L.) Dumort.	21	43	19	73
<i>Diplophyllum obtusifolium</i> (Hook.) Dumort.			1	1
<i>Douinia ovata</i> (Dicks.) H.Buch			1	1
<i>Scapania compacta</i> (A.Roth) Dumort.	1	5	4	9
<i>Scapania cuspiduligera</i> (Nees) Müll.Frib.	3	1		4
NS				
<i>Scapania scandica</i> (Arnell & H.Buch) Macvicar	2	6	4	12
<i>Scapania umbrosa</i> (Schrad.) Dumort.	2	19	9	27
<i>Scapania nemorea</i> (L.) Grolle ( <i>S. nemorosa</i> (L.) Dumort.)	10	26	10	42
<i>Scapania irrigua</i> (Nees) Nees	10	21	7	36
<i>Scapania degenii</i> Schiffn. ex Müll.Frib.	2			2
NS				
<i>Scapania undulata</i> (L.) Dumort.	20	39	15	65
<i>Scapania subalpina</i> (Nees ex Lindenb.) Dumort.	2	11	3	15
<i>Scapania aequiloba</i> (Schwägr.) Dumort.	2		1	3
NS				
<i>Scapania aspera</i> Bernet & M.Bernet	7	6	1	13
<i>Scapania gracilis</i> Lindb.	5	24	8	35
Family: Myliaceae				
<i>Mylia taylorii</i> (Hook.) Gray	7	26	7	37
<i>Mylia anomala</i> (Hook.) Gray	9	27	7	40
Family: Calypogeiaceae				
<i>Calypogeia fissa</i> (L.) Raddi	33	38	18	79
<i>Calypogeia muelleriana</i> (Schiffn.) Müll.Frib.	25	38	17	73
<i>Calypogeia azurea</i> Stotler & Crotz	4	5	2	11
NS				
<i>Calypogeia neesiana</i> (C.Massal. & Carestia) Müll.Frib.		4	2	6

<i>Calypogeia integristipula</i> Steph.	3	6	2	11
NS				
<i>Calypogeia sphagnicola</i> (Arnell & J.Perss.) Müll.Frib.	1	4		5
<i>Calypogeia arguta</i> Nees & Mont.	16	35	11	54
Family: Mesoptychiaceae				
<i>Leiocolea gillmanii</i> (Austin) A.Evans			1	1
NT, NS				
<i>Leiocolea bantriensis</i> (Hook.) Jörg.	5	5	1	11
<i>Leiocolea collaris</i> (Nees) Schljakov ( <i>L. alpestris</i> (Schleich. ex F.Weber) Isov.)	6	8		14
<i>Leiocolea heterocolpos</i> (Thed. ex C.Hartm.) H.Buch	1	1	1	3
NS				
<i>Leiocolea badensis</i> (Gottsche) Jörg.	9	11	6	26
<i>Leiocolea turbinata</i> (Raddi) H.Buch	15	21	8	42
Family: Jungermanniaceae				
<i>Jungermannia atrovirens</i> Dumort.	20	30	16	61
<i>Jungermannia pumila</i> With.	7	12	6	24
<i>Jungermannia exsertifolia</i> subsp. <i>cordifolia</i> (Dumort.) Váňa	7	6	2	15
<i>Nardia compressa</i> (Hook.) Gray	3	11		13
<i>Nardia scalaris</i> Gray	13	38	13	58
<i>Nardia geoscyphus</i> (De Not.) Lindb.	1	1		2
NS				
<i>Nardia insecta</i> Lindb.		1		1
VU, NR				
<i>Solenostoma sphaerocarpum</i> (Hook.) Steph. ( <i>Jungermannia sphaerocarpa</i> Hook.)	6	11	3	19
<i>Solenostoma confertissimum</i> (Nees) Schljakov ( <i>Jungermannia confertissima</i> Nees)	2			2
NS				
<i>Solenostoma gracillimum</i> (Sm.) R.M.Schust. ( <i>Jungermannia gracillima</i> Sm. <i>S. crenulatum</i> Mitt.)	14	36	11	57
<i>Solenostoma hyalinum</i> (Lydell) Mitt. ( <i>Jungermannia hyalina</i> Lyell)	4	13	2	17
<i>Solenostoma paroicum</i> (Schiffn.) R.M.Schust. ( <i>Jungermannia paroica</i> (Schiffn.) Grolle)		1	4	5
<i>Solenostoma obovatum</i> (Nees) C.Massal. ( <i>Jungermannia obovata</i> Nees)	4	15	2	21
<i>Solenostoma subellipticum</i> (Lindb. ex Kaal.) R.M.Schust. ( <i>Jungermannia subelliptica</i> (Lindb. ex Kaal.) Levier)		1		1
NS				
Family: Geocalyceae				
<i>Harpanthus scutatus</i> (F.Weber & D.Mohr) Spruce		3		3
<i>Saccogyna viticulosa</i> (L.) Dumort.	1	1		2
Family: Antheliaceae				
<i>Anthelia julacea</i> (L.) Dumort.			1	1

Family: Gymnomitriaceae				
<i>Gymnomitrium concinnatum</i> (Lightf.) Corda			1	1
<i>Gymnomitrium obtusum</i> Lindb.	1	1	1	3
<i>Gymnomitrium crenulatum</i> Gottsche ex Carrington			1	1
<i>Marsupella emarginata</i> (Ehrh.) Dumort.	8	26	9	36
<i>Marsupella emarginata</i> (Ehrh.) Dumort. var. <i>emarginata</i>	5	26	9	36
<i>Marsupella emarginata</i> var. <i>aquatica</i> (Lindenb.) Dumort.	1		1	2
<i>Marsupella emarginata</i> var. <i>pearsonii</i> (Schiffn.) M.F.V.Corley (NS)			1	1
<i>Marsupella funckii</i> (F.Weber & D.Mohr) Dumort.			1	1
<i>Marsupella sprucei</i> (Limpr.) Bernet	1	1	2	4
<b>PHYLUM: BRYOPHYTA (Mosses)</b>				
CLASS: SPHAGNOPSIDA				
<b>Order: Sphagnales</b>				
Family: Sphagnaceae				
<i>Sphagnum</i> L. sp.				
HabDir				
<i>Sphagnum austinii</i> Sull. ( <i>S. imbricatum</i> subsp. <i>austinii</i> (Sull) Flatberg)	2	5		7
NS				
<i>Sphagnum papillosum</i> Lindb.	12	32	12	55
<i>Sphagnum palustre</i> L. var. <i>palustre</i>	23	37	15	67
<i>Sphagnum magellanicum</i> Brid.	9	26	7	39
<i>Sphagnum squarrosum</i> Crome	16	18	7	39
<i>Sphagnum teres</i> (Schimp.) Ångstr.	7	12	2	19
<i>Sphagnum fimbriatum</i> Wilson	17	29	7	50
<i>Sphagnum girgensohnii</i> Russow	9	25	4	37
<i>Sphagnum russowii</i> Warnst.	6	27	6	37
<i>Sphagnum quinquefarium</i> (Braithw.) Warnst.	6	17	7	29
<i>Sphagnum warnstorffii</i> Russow	2	3		5
<i>Sphagnum capillifolium</i> (Ehrh.) Hedw.	14	36	15	58
<i>Sphagnum capillifolium</i> (Ehrh.) Hedw. subsp. <i>capillifolium</i> (NS)	1	10		11
<i>Sphagnum capillifolium</i> subsp. <i>rubellum</i> (Wilson) M.O.Hill	14	36	10	54
<i>Sphagnum fuscum</i> (Schimp.) H.Klinggr.	2	3	2	7
<i>Sphagnum subnitens</i> Russow & Warnst. var. <i>subnitens</i>	16	36	13	57
<i>Sphagnum molle</i> Sull.	1	6	2	9
<i>Sphagnum compactum</i> Lam. & DC.	7	22	6	32
<i>Sphagnum auriculatum</i> agg. ( <i>S. inundatum</i> Russow & <i>S. denticulatum</i> Brid.)	15	32	11	53

<i>Sphagnum inundatum</i> Russow ( <i>S. auriculatum</i> var. <i>inundatum</i> (Russow) M.O.Hill, <i>S. denticulatum</i> var. <i>inundatum</i> (Russow) Kartt.)	9	30	10	46
<i>Sphagnum denticulatum</i> Brid. ( <i>S. auriculatum</i> Schimp.)	15	29	8	48
<i>Sphagnum contortum</i> Schultz	1	2		3
<i>Sphagnum tenellum</i> (Brid.) Pers. ex Brid.	7	29	9	41
<i>Sphagnum cuspidatum</i> Ehrh. ex Hoffm. ( <i>S. viride</i> Flatberg)	16	29	11	52
<i>Sphagnum majus</i> (Russow) C.E.O.Jensen		2		2
NS				
<i>Sphagnum balticum</i> (Russow) C.E.O.Jensen		2		2
EN, NR, UKBAP, NERC, WACA8				
<i>Sphagnum pulchrum</i> (Lindb. ex Braithw.) Warnst.		1		1
NS				
<i>Sphagnum recurvum</i> agg. (includes <i>S. fallax</i> (H.Klinggr.) H.Klinggr., <i>S. flexuosum</i> Dozy & Molk. & <i>S. angustifolium</i> (C.E.O.Jensen ex Russow) C.E.O.Jensen)	16	36	15	61
<i>Sphagnum fallax</i> (H.Klinggr.) H.Klinggr. ( <i>S. fallax</i> subsp. <i>isoviitae</i> (Flatberg) M.O.Hill, <i>S. isoviitae</i> Flatberg, <i>S. recurvum</i> var. <i>mucronatum</i> (Russow) Warnst.)	16	30	10	54
<i>Sphagnum flexuosum</i> Dozy & Molk. ( <i>S. recurvum</i> var. <i>amblyphyllum</i> (Russow) Warnst.)	1			1
<i>Sphagnum angustifolium</i> (C.E.O.Jensen ex Russow) C.E.O.Jensen ( <i>S. recurvum</i> var. <i>tenuis</i> H.Klinggr.)	1	7		8
<i>Sphagnum riparium</i> Ångstr.		4		4
NS				
CLASS: ANDREAEOPSIDA				
<b>Order: Andreaeales</b>				
Family: Andreaeaceae				
<i>Andreaea alpina</i> Hedw.	2		1	3
<i>Andreaea rupestris</i> agg. (includes <i>A. rupestris</i> Hedw. & <i>A. alpestris</i> (Thed.) Schimp.)	2	20	6	26
<i>Andreaea rupestris</i> Hedw. var. <i>rupestris</i>	2	5	5	12
<i>Andreaea mutabilis</i> Hook.f. & Wilson			2	2
NS				
<i>Andreaea rothii</i> agg. (includes <i>A. rothii</i> F.Weber & D.Mohr. & <i>A. frigida</i> Huebener)	3	14	4	21
<i>Andreaea rothii</i> subsp. <i>falcata</i> (Schimp.) Lindb. ( <i>A. crassinervia</i> subsp. <i>huntii</i> (Limpr.) Amann)	2	4	3	9
<i>Andreaea megistospora</i> B.M.Murray	1			1
NS				
CLASS: OEDIPODIOPSIDA				
<b>Order: Oedipodiales</b>				
Family: Oedipodiaceae				
<i>Oedipodium griffithianum</i> (Dicks.) Schwägr.			1	1
NS				
CLASS: POLYTRICHOPSIDA				
<b>Order: Polytrichales</b>				
Family: Polytrichaceae				
<i>Atrichum crispum</i> (James) Sull.	1			1
<i>Atrichum undulatum</i> (Hedw.) P.Beauv. var. <i>undulatum</i>	39	46	20	95
<i>Oligotrichum hercynicum</i> (Hedw.) Lam. & DC.	4	10	3	16

<i>Pogonatum nanum</i> (Hedw.) P.Beauv.	1	6	2	9
<i>Pogonatum aloides</i> (Hedw.) P.Beauv.	15	39	19	65
<i>Pogonatum urnigerum</i> (Hedw.) P.Beauv.	16	30	8	50
<i>Polytrichastrum alpinum</i> (Hedw.) G.L.Sm. ( <i>Polytrichum alpinum</i> Hedw., <i>P. alpinum</i> var. <i>septentrionale</i> (Sw.) Linbd.)	5	17	4	24
<i>Polytrichastrum longisetum</i> (Sw. ex Brid.) G.L.Sm. ( <i>Polytrichum longisetum</i> Sw. ex Brid.)	2	6	1	9
<i>Polytrichastrum formosum</i> (Hedw.) G.L.Sm. ( <i>Polytrichum formosum</i> Hedw.)	30	37	12	73
<i>Polytrichum commune</i> Hedw. var. <i>commune</i>	29	40	18	79
<i>Polytrichum piliferum</i> Hedw.	23	41	18	74
<i>Polytrichum juniperinum</i> Hedw.	30	41	16	81
<i>Polytrichum strictum</i> Menzies ex Brid. ( <i>P. alpestre</i> Hoppe)	7	21	6	31
CLASS: TETRAPHIDOPSIDA				
<b>Order: Tetraphidales</b>				
Family: Tetraphidaceae				
<i>Tetraphis pellucida</i> Hedw.	31	40	16	80
<i>Tetrodontium brownianum</i> (Dicks.) Schwägr.	4	15	4	23
CLASS: BRYOPSIDA				
<b>Order: Buxbaumiales</b>				
Family: Buxbaumiaceae				
<i>Buxbaumia aphylla</i> Hedw.	1	1	1	3
NT, NS				
<b>Order: Diphysciales</b>				
Family: Diphysciaceae				
<i>Diphyscium foliosum</i> (Hedw.) D.Mohr	2	6	2	10
<b>Order: Encalyptales</b>				
Family: Encalyptaceae				
<i>Encalypta streptocarpa</i> Hedw.	28	35	12	71
<i>Encalypta raptocarpa</i> Schwägr.	1		1	2
NS				
<i>Encalypta vulgaris</i> Hedw.	10	17	8	32
<i>Encalypta ciliata</i> Hedw.	1		2	3
NS				
<b>Order: Funariales</b>				
Family: Funariaceae				
<i>Funaria hygrometrica</i> Hedw.	39	42	20	93
<i>Entosthodon attenuatus</i> (Dicks.) Bryhn ( <i>Funaria attenuata</i> (Dicks.) Lindb.)	2	1	2	5
<i>Entosthodon fascicularis</i> (Hedw.) Müll.Hal. ( <i>Funaria fascicularis</i> (Hedw.) Lindb.)	1	1		2
<i>Entosthodon obtusus</i> (Hedw.) Lindb. ( <i>Funaria obtusa</i> (Hedw.) Lindb.)	5	17	2	24

<i>Physcomitrium pyriforme</i> (Hedw.) Bruch & Schimp.	6	14	4	24
<i>Aphanorrhagma patens</i> (Hedw.) Lindb. ( <i>Physcomitrella patens</i> (Hedw.) Bruch & Schimp.)	1	2	1	4
Family: Discoliaceae				
<i>Discelium nudum</i> (Dicks.) Brid.	6	3		9
NS				
<b>Order: Grimmiales</b>				
Family: Grimmiaceae				
<i>Schistidium maritimum</i> (Sm. ex R.Scott) Bruch & Schimp.	1		7	8
<i>Schistidium rivulare</i> sensu lato (includes <i>S. rivulare</i> (Brid.) Podp. & <i>S. platyphyllum</i> (Mitt.) H.Perss.)	17	26	14	54
<i>Schistidium rivulare</i> (Brid.) Podp. sensu stricto ( <i>S. alpicola</i> var. <i>rivulare</i> (Brid.) Limpr.)	15	24	13	49
<i>Schistidium platyphyllum</i> (Mitt.) H.Perss. ( <i>S. alpicola</i> auct. Non (Hedw.) Limpr., <i>S. rivulare</i> subsp. <i>latifolium</i> (J.E.Zetterst. B.Bremer)	5	16	8	27
<i>Schistidium agassizii</i> Sull. & Lesq.	2			2
(NS)				
<i>Schistidium apocarpum</i> sensu lato (includes <i>S. apocarpum</i> (Hedw.) Bruch & Schimp., <i>S. trichodon</i> (Brid.) Poelt, <i>S. papillosum</i> Culm., <i>S. pruinosum</i> (Wilson ex Schimp.) G.Roth, <i>S. strictum</i> (Turner) Loeske ex Martensson, <i>S. dupretii</i> (Thér.) W.A.Weber, <i>S. robustum</i> (Nees & Hornsch.) H.H.Blom, <i>S. confertum</i> (Funck) Bruch & Schimp., <i>S. flaccidum</i> (De Not.) Ochyra, <i>S. frigidum</i> H.H.Blom, <i>S. atrofusum</i> (Schimp.) Limpr., <i>S. crassipilum</i> H.H.Blom, <i>S. elegantulum</i> H.H.Blom & <i>S. flexipile</i> (Lindb. ex Broth.) G.Roth)	36	44	17	88
<i>Schistidium apocarpum</i> (Hedw.) Bruch & Schimp. sensu stricto	1	8		9
<i>Schistidium trichodon</i> (Brid.) Poelt	1			1
NS				
<i>Schistidium strictum</i> (Turner) Loeske ex Martensson	2		2	4
<i>Schistidium robustum</i> (Nees & Hornsch.) H.H.Blom ( <i>S. apocarpum</i> var. <i>homodictyon</i> (Dixon) Crundw. & Nyholm)	2	2		4
(NS)				
<i>Schistidium crassipilum</i> H.H.Blom	10	18	2	29
<i>Schistidium elegantulum</i> H.H.Blom (includes subsp. <i>wilsonii</i> H.H.Blom)	1			1
(NS)				
<i>Grimmia donniana</i> sensu lato (includes <i>G. donniana</i> Sm. & <i>G. arenaria</i> Hampe)	3	2	5	10
<i>Grimmia donniana</i> Sm. sensu stricto	2	2	4	8
<i>Grimmia elongata</i> Kaulf.			1	1
VU, NS, UKBAP, NERC				
<i>Grimmia longirostris</i> Hook. ( <i>G. affinis</i> Hornsch.)			4	4
NS				
<i>Grimmia ovalis</i> (Hedw.) Lindb.	1			1
NS				
<i>Grimmia incurva</i> Schwägr.			2	2
NS				
<i>Grimmia pulvinata</i> (Hedw.) Sm. (includes var. <i>africana</i> (Hedw.) Hook.f. & Wilson)	40	44	23	94
<i>Grimmia orbicularis</i> Bruch ex Wilson		1		1
NS				
<i>Grimmia torquata</i> Drumm.	1		2	3
<i>Grimmia funalis</i> (Schwägr.) Bruch & Schimp.	2			2
<i>Grimmia trichophylla</i> Grev. ( <i>G. austrofunalis</i> auct. eur. partim non Müll.Hal., <i>G. trichophylla</i> var. <i>stirtonii</i> (Schimp.) H.Möller)	7	24	14	42

<i>Grimmia hartmanii</i> Schimp.	1	3	5	8
<i>Grimmia decipiens</i> (Schultz) Lindb.	1		1	2
NS				
<i>Grimmia ramondii</i> (Lam. & DC.) Margad. <i>Dryoptodon patens</i> (Hedw.) Brid., <i>G. curvata</i> (Brid.) De Sloover)	1		3	4
<i>Racomitrium aciculare</i> (Hedw.) Brid.	17	38	18	74
<i>Racomitrium aquaticum</i> (Brid. ex Schrad.) Brid.	4	9	6	19
<i>Racomitrium fasciculare</i> (Hedw.) Brid.	11	29	9	46
<i>Racomitrium heterostichum</i> sensu lato (includes <i>R. sudeticum</i> (Funck) Bruch & Schimp., <i>R. affine</i> (F.Weber & D.Mohr) Lindb. & <i>R. heterostichum</i> (Hedw.) Brid.)	12	35	17	58
<i>Racomitrium sudeticum</i> (Funck) Bruch & Schimp. ( <i>R. affine</i> auct. non (F.Weber & D.Mohr) Lindb.	1		1	2
<i>Racomitrium affine</i> (F.Weber & D.Mohr) Lindb.	2	2		4
<i>Racomitrium heterostichum</i> (Hedw.) Brid. sensu stricto ( <i>R. obtusum</i> (Brid.) Brid.)	3	10	4	17
<i>Racomitrium lanuginosum</i> (Hedw.) Brid.	16	30	8	50
<i>Racomitrium canescens</i> sensu lato (includes <i>R. ericoides</i> (Brid.) Brid., <i>R. elongatum</i> Ehrh. ex Frisvoll & <i>R. canescens</i> (Hedw.) Brid.)	13	34	14	55
<i>Racomitrium ericoides</i> (Brid.) Brid. ( <i>R. canescens</i> var. <i>ericoides</i> (Brid.) Hampe)	7	16	3	25
<i>Racomitrium elongatum</i> Ehrh. ex Frisvoll	3	11	4	17
<i>Racomitrium canescens</i> (Hedw.) Brid. sensu stricto	1			1
NS				
Family: Ptychomitriaceae				
<i>Ptychomitrium polyphyllum</i> (Dicks. ex Sw.) Bruch & Schimp.	8	32	10	47
<i>Campylostelium saxicola</i> (F.Weber & D.Mohr) Bruch & Schimp.		y	1	1
NS				
Family: Seligeriaceae				
<i>Blindia acuta</i> (Hedw.) Bruch & Schimp.	9	23	5	33
<i>Brachydontium trichodes</i> (F.Weber) Milde	1	2	5	8
NS				
<i>Seligeria pusilla</i> (Hedw.) Bruch & Schimp.	5	3		8
NS				
<i>Seligeria acutifolia</i> Lindb.	1			1
NS				
<i>Seligeria recurvata</i> (Hedw.) Bruch & Schimp.	6	14	2	21
<i>Seligeria donniana</i> (Sm.) Müll.Hal.	3	5	2	9
<i>Seligeria trifaria</i> sensu lato (includes <i>S. trifaria</i> (Brid.) Lindb. & <i>S. patula</i> (Lindb.) I.Hagen)	2			2
DD, NS				
<i>Seligeria carniolica</i> (Breidl. & Beck) Nyholm		1		1
ERDB, CR, NR, UKBAP, NERC				
<b>Order: Archidiales</b>				
Family: Archidiaceae				
<i>Archidium alternifolium</i> (Hedw.) Mitt.	3	4	3	10
<b>Order: Dicranales</b>				

Family: Fissidentaceae				
<i>Fissidens viridulus</i> sensu lato (includes <i>F. viridulus</i> (Sw. ex anon.) Wahlenb. & <i>F. gracilifolius</i> Brugg.-Nann. & Nyholm)	9	24	10	42
<i>Fissidens viridulus</i> (Sw. ex anon.) Wahlenb. sensu stricto	2	4	2	8
<i>Fissidens pusillus</i> (Wilson) Milde ( <i>F. exiguus</i> auct. eur. partim)	4	4	3	11
<i>Fissidens gracilifolius</i> Brugg.-Nann. & Nyholm ( <i>F. pusillus</i> var. <i>tenuifolius</i> (Boulay) Podp., <i>F. viridulus</i> var. <i>tenuifolius</i> (Boulay) A.J.E.Sm.)			1	1
<i>Fissidens incurvus</i> Starke ex Röhl.	1		3	4
<i>Fissidens bryoides</i> Hedw. var. <i>bryoides</i>	36	40	19	85
<i>Fissidens bryoides</i> var. <i>caespitans</i> Schimp. ( <i>F. curnovii</i> Mitt.)			2	2
<i>Fissidens crassipes</i> Wilson ex Bruch & Schimp.	8	7	9	22
<i>Fissidens rufulus</i> Bruch & Schimp. NS	1		2	3
<i>Fissidens exilis</i> Hedw.	3	5	1	9
<i>Fissidens osmundoides</i> Hedw.	7	20	6	30
<i>Fissidens taxifolius</i> Hedw. var. <i>taxifolius</i>	40	45	21	93
<i>Fissidens dubius</i> P.Beauv. ( <i>F. cristatus</i> Wilson ex Mitt.)	12	19	7	37
<i>Fissidens adianthoides</i> Hedw.	25	34	12	64
Family: Ditrichaceae				
<i>Pleuridium acuminatum</i> Lindb.	10	28	4	40
<i>Pleuridium subulatum</i> (Hedw.) Rabenh.	14	8	5	27
<i>Pseudephemerum nitidum</i> (Hedw.) Loeske	7	8	3	16
<i>Trichodon cylindricus</i> (Hedw.) Schimp. ( <i>Ditrichum cylindricum</i> (Hedw.) Grout)	7	13	9	28
<i>Ditrichum plumbicola</i> Crundw. ERDB, NS, UKBAP, NERC		1		1
<i>Ditrichum heteromallum</i> (Hedw.) E.Britton	10	29	17	50
<i>Ditrichum zonatum</i> (Brid.) Kindb. (includes var. <i>scabrifolium</i> Dixon) NS			1	1
<i>Ditrichum flexicaule</i> sensu lato (includes <i>D. flexicaule</i> (Schwägr.) Hampe & <i>D. gracile</i> (Mitt.) Kuntze)	12	25	9	43
<i>Ditrichum flexicaule</i> (Schwägr.) Hampe sensu stricto	1			1
<i>Ditrichum gracile</i> (Mitt.) Kuntze ( <i>D. crispatissimum</i> (Müll.Hal.) Paris)	2	3	2	7
<i>Distichium capillaceum</i> (Hedw.) Bruch & Schimp.	7	9	2	17
<i>Distichium inclinatum</i> (Hedw.) Bruch & Schimp. NS	3		4	7
<i>Ceratodon purpureus</i> (Hedw.) Brid.	40	49	25	103
Family: Rhabdoweisiaceae				
<i>Amphidium lapponicum</i> (Hedw.) Schimp. NS	1		2	3



<i>Amphidium mougeotii</i> (Schimp.) Schimp.	11	24	7	37
<i>Rhabdoweisia fugax</i> (Hedw.) Bruch & Schimp.	1		2	3
<i>Rhabdoweisia crispata</i> (Dicks.) Lindb.	1		3	4
<i>Rhabdoweisia crenulata</i> (Mitt.) H.Jameson	1		1	2
<i>Cynodontium bruntonii</i> (Sm.) Bruch & Schimp. ( <i>Oreoweisia bruntonii</i> (Sm.) Milde)	1	6	5	11
<i>Cynodontium jeneri</i> (Schimp.) Stirt.			4	4
NS				
<i>Cynodontium polycarpon</i> (Hedw.) Schimp.			2	2
VU, NR				
<i>Dichodontium pellucidum</i> sensu lato (includes <i>D. pellucidum</i> (Hedw.) Schimp. & <i>D. flavescens</i> (Dicks.) Lindb.)	24	40	20	72
<i>Dichodontium pellucidum</i> (Hedw.) Schimp. sensu stricto	23	39	18	70
<i>Dichodontium flavescens</i> (Dicks.) Lindb.		1	1	1
(NS)				
<i>Dichodontium palustre</i> (Dicks.) M.Stech ( <i>Dicranella palustris</i> (Dicks.) Crundw.)	16	32	12	53
<i>Dicranoweisia cirrata</i> (Hedw.) Lindb.	36	45	19	90
<i>Kiaeria falcata</i> (Hedw.) I.Hagen	1			1
NS				
<i>Kiaeria blyttii</i> (Bruch & Schimp.) Broth.	1		2	3
Family: Schistostegaceae				
<i>Schistostega pennata</i> (Hedw.) F.Weber & D.Mohr			1	1
Family: Dicranaceae				
<i>Dicranella schreberiana</i> (Hedw.) Dixon	16	32	15	61
<i>Dicranella crispa</i> (Hedw.) Schimp.	1		4	5
NS				
<i>Dicranella subulata</i> (Hedw.) Schimp.	1	5	2	8
<i>Dicranella varia</i> (Hedw.) Schimp.	27	41	18	79
<i>Dicranella staphylina</i> H.Whitehouse	10	13	13	35
<i>Dicranella rufescens</i> (Dicks.) Schimp.	8	17	10	33
<i>Dicranella cerviculata</i> (Hedw.) Schimp.	3	11	5	19
<i>Dicranella heteromalla</i> (Hedw.) Schimp.	40	45	21	95
<i>Dicranum bonjeanii</i> De Not.	12	29	9	46
<i>Dicranum leioneuron</i> Kindb.		2		2
DD, NR				
<i>Dicranum scoparium</i> Hedw.	36	42	23	92
<i>Dicranum majus</i> Sm.	16	29	13	53
<i>Dicranum spurium</i> Hedw.	1		1	2
VU, NS, UKBAP, NERC				
<i>Dicranum undulatum</i> Schrad. ex Brid. ( <i>D. bergeri</i> Blandow)			2	2
VU, NS, UKBAP, NERC				

<i>Dicranum fuscescens</i> sensu lato (includes <i>D. fuscescens</i> Sm. & <i>D. flexicaule</i> Brid.)	8	29	10	46
<i>Dicranum fuscescens</i> Sm. sensu stricto	Y	9	4	13
<i>Dicranum flexicaule</i> Brid. ( <i>D. fuscescens</i> var. <i>congestum</i> (Brid.) Kinbd.) NT, (NS)	1		1	2
<i>Dicranum elongatum</i> Schleich. ex Schwägr. RE, NR, UKBAP			1	1
<i>Dicranum scottianum</i> Turner ex R.Scott		7	5	12
<i>Dicranum tauricum</i> Sapjegin	13	11	5	27
<i>Dicranum montanum</i> Hedw.	2	3	1	6
Family: Leucobryaceae				
<i>Dicranodontium asperulum</i> (Mitt.) Broth. NS		1		1
<i>Dicranodontium denudatum</i> (Brid.) E.Britton	1	3		4
<i>Campylopus subulatus</i> Schimp. ex Milde NS	1			1
<i>Campylopus fragilis</i> (Brid.) Bruch & Schimp.	5	29	13	44
<i>Campylopus pyriformis</i> (Schultz) Brid. (includes var. <i>azoricus</i> (Mitt.) M.F.V.Corley)	15	34	13	55
<i>Campylopus flexuosus</i> (Hedw.) Brid. ( <i>C. paradoxus</i> Wilson, <i>C. pyriformis</i> var. <i>fallicosus</i> (Thér.) M.F.V.Corley)	17	38	14	62
<i>Campylopus atrovirens</i> De Not. var. <i>atrovirens</i>	2	4		6
<i>Campylopus introflexus</i> (Hedw.) Brid.	29	33	13	71
<i>Campylopus brevipilus</i> Bruch & Schimp.		1		1
<i>Leucobryum glaucum</i> (Hedw.) Ångstr. HabDir	12	33	11	49
<b>Order: Pottiales</b>				
Family: Pottiaceae				
<i>Eucladium verticillatum</i> (With.) Bruch & Schimp.	12	33	12	55
<i>Weissia</i> Hedw. agg. (includes all <i>Weissia</i> taxa)	31	39	16	80
<i>Weissia controversa</i> Hedw.	29	38	15	75
<i>Weissia controversa</i> Hedw. var. <i>controversa</i>	3	11	4	18
<i>Weissia controversa</i> var. <i>densifolia</i> (Bruch & Schimp.) Wilson (NS)	2	2		4
<i>Weissia rutilans</i> (Hedw.) Lindb.	1	1	1	3
<i>Weissia brachycarpa</i> (Nees & Hornsch.) Jur. ( <i>W. microstoma</i> (Hedw.) Müll.Hal.)	3	14	3	20
<i>Weissia brachycarpa</i> (Nees & Hornsch.) Jur. var. <i>brachycarpa</i> ( <i>W. microstoma</i> var. <i>brachycarpa</i> (Nees & Hornsch. Müll.Hal.) (NS)	1			1
<i>Weissia brachycarpa</i> var. <i>obliqua</i> (Nees & Hornsch.) M.O.Hill ( <i>W. microstoma</i> (Hedw.) Müll.Hal. var. <i>microstoma</i> , hom. illeg.)	Y	1	Y	1
<i>Weissia rostellata</i> (Brid.) Lindb. NS		2		2
<i>Weissia longifolia</i> Mitt. var. <i>longifolia</i>	1			1

<i>Weissia longifolia</i> var. <i>angustifolia</i> (Baumgartner) Crundw. & Nyholm	8	1		9
<i>Tortella tortuosa</i> (Hedw.) Limpr.	17	25	12	50
<i>Tortella densa</i> (Lorentz & Molendo) Crundw. & Nyholm NS	2			2
<i>Tortella inclinata</i> (R.Hedw.) Limpr. NS	1			1
<i>Tortella flavovirens</i> (Bruch) Broth. (includes var. <i>glareicola</i> (T.A.Chr.) Crundw. & Nyholm)	2	1	4	7
<i>Trichostomum brachydontium</i> Bruch	8	15	10	31
<i>Trichostomum crispulum</i> Bruch	10	3	6	19
<i>Trichostomum tenuirostre</i> (Hook. & Taylor) Lindb. ( <i>Oxystegus tenuirostris</i> (Hook. & Taylor) A.J.E.Sm., <i>T. tenuirostre</i> var. <i>holtii</i> (Braithw.) Dixon)	4	4	3	11
<i>Hymenostylium recurvirostrum</i> (Hedw.) Dixon var. <i>recurvirostrum</i> ( <i>Gymnostomum recurvirostrum</i> Hedw.)	6	11	6	23
<i>Anoetangium aestivum</i> (Hedw.) Mitt.	5	2		7
<i>Gyroweisia tenuis</i> (Hedw.) Schimp.	3	19	10	30
<i>Gymnostomum aeruginosum</i> Sm.	12	30	15	52
<i>Ephemerum recurvifolium</i> (Dicks.) Boulay NS	1			1
<i>Ephemerum sessile</i> (Bruch) Müll.Hal. NS		1		1
<i>Ephemerum serratum</i> sensu lato (includes <i>E. serratum</i> (Hedw.) Hampe & <i>E. minutissimum</i> Lindb.)	5	8	3	15
<i>Ephemerum serratum</i> (Hedw.) Hampe sensu stricto	1	2	2	4
<i>Ephemerum minutissimum</i> Lindb.	5	4	1	10
<i>Dialytrichia mucronata</i> (Brid.) Broth. ( <i>Cinclidotus mucronatus</i> (Brid.) Guim.)	1			1
<i>Pseudocrossidium hornschuchianum</i> (Schultz) R.H.Zander ( <i>Barbula hornschuchiana</i> Schultz)	11	15	11	35
<i>Pseudocrossidium revolutum</i> (Brid.) R.H.Zander ( <i>Barbula revoluta</i> Brid.)	10	25	11	46
<i>Bryoerythrophyllum recurvirostrum</i> (Hedw.) P.C.Chen ( <i>Barbula recurvirostra</i> (Hedw.) Dixon)	27	38	22	80
<i>Bryoerythrophyllum ferruginascens</i> (Stirt.) Giacom. ( <i>Barbula ferruginascens</i> Stirt.)	3	5		8
<i>Leptodontium flexifolium</i> (Dicks.) Hampe	7	24	9	36
<i>Barbula convoluta</i> Hedw.	38	48	24	100
<i>Barbula convoluta</i> Hedw. var. <i>convoluta</i>	30	40	23	84
<i>Barbula convoluta</i> var. <i>sardoa</i> Schimp. ( <i>B. commutata</i> Jur., <i>B. convoluta</i> var. <i>commutata</i> (Jur.) Husn., <i>B. sardoa</i> (Schimp.) J.-P.Frahm, nom. inval.)	1	8	3	12
<i>Barbula unguiculata</i> Hedw.	36	46	23	94
<i>Didymodon rigidulus</i> Hedw. ( <i>Barbula mamillosa</i> Crundw., <i>B. rigidula</i> (Hedw.) Milde., <i>D. mamillosus</i> (Crundw.) M.O.Hill)	17	40	21	70
<i>Didymodon nicholsonii</i> Culm. ( <i>Barbula nicholsonii</i> Culm.)	3	3	11	14
<i>Didymodon vinealis</i> (Brid.) R.H.Zander ( <i>Barbula vinealis</i> Brid., <i>D. reedii</i> auct. non H.Rob.)	10	7	9	27

<i>Didymodon insulanus</i> (De Not.) M.O.Hill ( <i>Barbula cylindrica</i> (Taylor) Schimp.)	34	48	23	94
<i>Didymodon luridus</i> Hornsch. ( <i>Barbula trifaria</i> auct. non (Hedw.) Mitt.)	3	4	9	16
<i>Didymodon sinuosus</i> (Mitt.) Delogne ( <i>Barbula sinuosa</i> (Mitt.) Grav., <i>Oxystegus sinuosus</i> (Mitt.) Hilpert)	2	1	1	4
<i>Didymodon tophaceus</i> (Brid.) Lisa ( <i>Barbula tophacea</i> (Brid.) Mitt.)	24	35	16	69
<i>Didymodon spadiceus</i> (Mitt.) Limpr. ( <i>Barbula spadicea</i> (Mitt.) Braithw.)	11	20	11	38
<i>Didymodon fallax</i> (Hedw.) R.H.Zander ( <i>Barbula fallax</i> Hedw.)	30	43	20	85
<i>Didymodon ferrugineus</i> (Schimp. ex Besch.) M.O.Hill ( <i>Barbula reflexa</i> (Brid.) Brid.)	4	5	3	12
<i>Pterygoneurum ovatum</i> (Hedw.) Dixon	2	2	2	6
DD, NS				
<i>Aloina brevisrostris</i> (Hook. & Grev.) Kindb.	1			1
NS				
<i>Aloina rigida</i> (Hedw.) Limpr.	2	1		3
NS				
<i>Aloina aloides</i> (Koch ex Schultz) Kindb.	12	9	5	26
<i>Aloina ambigua</i> (Bruch & Schimp.) Limpr. ( <i>A. aloides</i> var. <i>ambigua</i> (Bruch & Schimp.) E.J.Craig)	3		1	4
NS				
<i>Tortula subulata</i> Hedw. ( <i>T. subulata</i> var. <i>graeffii</i> Warnst., <i>T. subulata</i> var. <i>subinermis</i> (Bruch & Schimp.) Wilson)	21	28	19	64
<i>Tortula marginata</i> (Bruch & Schimp.) Spruce	1			1
<i>Tortula muralis</i> Hedw. ( <i>T. muralis</i> var. <i>aestiva</i> Hedw.)	40	47	23	100
<i>Tortula atrovirens</i> (Sm.) Lindb. ( <i>Desmatodon convolutus</i> (Brid.) Grout)			1	1
NS				
<i>Tortula lanceola</i> R.H.Zander ( <i>Pottia lanceolata</i> (Hedw.) Müll.Hal.)	5	2	4	11
<i>Tortula viridifolia</i> (Mitt.) Blockeel & A.J.E.Sm. ( <i>Pottia crinata</i> Bruch & Schimp.)			2	2
<i>Tortula modica</i> R.H.Zander ( <i>Pottia intermedia</i> (Turner) Fűrnr.)	1	3	3	7
<i>Tortula truncata</i> (Hedw.) Mitt. ( <i>Pottia truncata</i> (Hedw.) Bruch & Schimp.)	21	30	16	63
<i>Tortula protobryoides</i> R.H.Zander ( <i>Pottia bryoides</i> (Dicks.) Mitt., <i>Protobryum bryoides</i> (Dicks.) J.Guerra & M.J.Cano)	4	1	1	5
<i>Phascum cuspidatum</i> Hedw. ( <i>Tortula acaulon</i> (With.) R.H.Zander)	19	24	19	48
<i>Phascum cuspidatum</i> Hedw. var. <i>cuspidatum</i> ( <i>Tortula acaulon</i> (With.) R.H.Zander var. <i>acaulon</i> )	14	2	2	18
<i>Phascum cuspidatum</i> var. <i>piliferum</i> (Hedw.) Hook. & Taylor ( <i>Tortula acaulon</i> var. <i>pilifera</i> (Hedw.) R.H.Zander)	2	2	2	6
(NS)				
<i>Phascum cuspidatum</i> var. <i>schreberianum</i> (Dicks.) Brid. ( <i>Tortula acaulon</i> var. <i>schreberiana</i> (Dicks.) R.H.Zander)	1			1
(NS)				
<i>Microbryum starckeanum</i> (Hedw.) R.H.Zander ( <i>Pottia starckea</i> (Hedw.) Müll.Hal., <i>P. starckea</i> var. <i>brachyodus</i> (Bruch & Schimp.) Müll.Hal.)			1	1
NS				
<i>Microbryum davallianum</i> (Sm.) R.H.Zander var. <i>davallianum</i> ( <i>M. davallianum</i> (Sm.) R.H.Zander, <i>Pottia starckea</i> subsp. <i>conica</i> (Schleich. ex Schwägr) D.F.Chamb., <i>P. starckea</i> subsp. <i>minutula</i> (Schwägr) D.F.Chamb.)	3	5	1	9
<i>Microbryum davallianum</i> var. <i>commutatum</i> ( <i>Pottia commutata</i> Limpr.)	1			1
(NS)				

<i>Microbryum curvicollum</i> (Hedw.) R.H.Zander ( <i>Phascum curvicollum</i> Hedw.)	3		1	4
<i>Microbryum floerkeanum</i> (F.Weber & D.Mohr) Schimp. ( <i>Phascum floerkeanum</i> F.Weber & D.Mohr)	2			2
<i>Hennediella stanfordensis</i> (Steere) Blockeel ( <i>Hyophila stanfordensis</i> (Steere) A.J.E.Sm. & H.Whitehouse, <i>Tortula stanfordensis</i> Steere)	1			1
(NS)				
<i>Hennediella macrophylla</i> (R.Br.bis) Paris ( <i>Tortula brevis</i> H.Whitehouse & M.E.Newton)			2	2
(NS)				
<i>Hennediella heimii</i> (Hedw.) R.H.Zander ( <i>Pottia heimii</i> (Hedw.) Hampe)	7	3	7	16
<i>Acaulon muticum</i> (Brid.) Müll.Hal.	1	1	3	5
<i>Syntrichia ruralis</i> (Hedw.) F.Weber & D.Mohr. var. <i>ruralis</i> ( <i>Tortula calcicolens</i> W.A.Kramer, <i>T. ruralis</i> (Hedw.) P.Gaertn et al.)	12	22	7	40
<i>Syntrichia ruralis</i> var. <i>ruraliformis</i> (Besch.) Delogne ( <i>S. ruraliformis</i> (Besch.) Cardot, <i>S. ruralis</i> subsp. <i>ruraliformis</i> (Besch.) Dixon)	3	6	11	19
<i>Syntrichia montana</i> Nees ( <i>S. intermedia</i> Brid., <i>Tortula intermedia</i> (Brid.) Berk. hom. Illeg.)	10	14	7	30
<i>Syntrichia virescens</i> (De Not.) Ochyra ( <i>Tortula virescens</i> (De Not.) De Not.)	1			1
<i>Syntrichia laevipila</i> Brid. ( <i>S. laevipila</i> var. <i>laevipilaeformis</i> (De Not) J.J.Amann, <i>Tortula laevipila</i> (Brid.) Schwägr.)	8	20	7	35
<i>Syntrichia papillosa</i> (Wilson) Jur. ( <i>Tortula papillosa</i> Wilson)	4		4	8
<i>Syntrichia latifolia</i> (Bruch ex Hartm.) Huebener ( <i>Tortula latifolia</i> Bruch ex Hartm.)	14	4	9	25
<i>Cinclidotus fontinaloides</i> (Hedw.) P.Beauv.	18	27	17	55
<b>Order: Splachnales</b>				
Family: Splachnaceae				
<i>Tetraplodon mnioides</i> (Hedw.) Bruch & Schimp.	6	13	2	19
<i>Aplodon wormskioldii</i> (Hornem.) R.Br.	3			3
CR, NR, UKBAP, NERC				
<i>Splachnum sphaericum</i> Hedw.	7	14	2	20
<i>Splachnum ampullaceum</i> Hedw.	2	6	1	9
<i>Splachnum vasculosum</i> Hedw.			1	1
VU, NS, UKBAP, NERC				
Family: Meesiaceae				
<i>Meesia uliginosa</i> Hedw.	3	2		5
NS				
<i>Amblyodon dealbatus</i> (Hedw.) P.Beauv.	2	2	4	8
NS				
<i>Leptobryum pyriforme</i> (Hedw.) Wilson	5	6	5	15
<b>Order: Orthotrichales</b>				
Family: Orthotrichaceae				
<i>Zygodon viridissimus</i> (Dicks.) Brid.	13	35	18	58
<i>Zygodon viridissimus</i> (Dicks.) Brid. var. <i>viridissimus</i>	8	34	17	54
<i>Zygodon viridissimus</i> var. <i>stirtonii</i> (Schimp. ex Stirt.) I.Hagen ( <i>Z. stirtonii</i> Schimp. ex Stirt.)			2	2
<i>Zygodon rupestris</i> Schimp. ex Lorentz ( <i>Z. baumgartneri</i> Malta)		2		2

<i>Zygodon conoideus</i> (Dicks.) Hook. & Taylor var. <i>conoideus</i> (NS)	2	4	1	7
<i>Orthotrichum lyellii</i> Hook. & Taylor	4	10	7	21
<i>Orthotrichum striatum</i> Hedw.	3	3	2	8
<i>Orthotrichum speciosum</i> Nees NT, NR	1			1
<i>Orthotrichum affine</i> Schrad. ex Brid.	25	40	22	79
<i>Orthotrichum rupestre</i> Schleich. ex Schwägr.	2	6	3	10
<i>Orthotrichum anomalum</i> Hedw.	23	37	12	68
<i>Orthotrichum cupulatum</i> Hoffm. ex Brid. ( <i>O. cupulatum</i> var. <i>riparium</i> Huebener)	12	18	12	40
<i>Orthotrichum rivulare</i> Turner	4	6	9	16
<i>Orthotrichum sprucei</i> Mont.		3	6	7
<i>Orthotrichum stramineum</i> Hornsch. ex Brid.	6	12	6	24
<i>Orthotrichum tenellum</i> Bruch ex Brid.	1	1	1	3
<i>Orthotrichum pallens</i> Bruch ex Brid. EN, NR, UKBAP, NERC, DBAP	3			3
<i>Orthotrichum pumilum</i> Sw. ex anon. ( <i>O. schimperi</i> Hammar) EN, NR, UKBAP, NERC	1			1
<i>Orthotrichum diaphanum</i> Schrad. ex Brid.	30	36	20	77
<i>Orthotrichum pulchellum</i> Brunt.	5	11	7	23
<i>Ulota drummondii</i> (Hook. & Grev.) Brid.	5	9	3	16
<i>Ulota crispa</i> (Hedw.) Brid.	11	36	16	56
<i>Ulota bruchii</i> Hornsch. ex Brid. ( <i>U. crispa</i> var. <i>norvegica</i> (Gronvall) A.J.E.Sm. & M.O.Hill)	4	29	9	41
<i>Ulota hutchinsiae</i> (Sm.) Hammar		1		1
<i>Ulota phyllantha</i> Brid.	4	6	13	23
<b>Order: Hedwigiales</b>				
Family: Hedwigiaceae				
<i>Hedwigia ciliata</i> sensu lato (includes <i>H. ciliata</i> (Hedw.) P.Beauv. & <i>H. stellata</i> Hedenäs)	2	17	6	23
<i>Hedwigia stellata</i> Hedenäs	1		2	3
<b>Order: Bryales</b>				
Family: Catoscopiaceae				
<i>Catoscopium nigratum</i> (Hedw.) Brid. NS	2		3	5
Family: Bartramiaceae				
<i>Plagiopus oederianus</i> (Sw.) H.A.Crum & L.E.Anderson ( <i>P. oederi</i> (Brid. Limpr.) NS	2			2
<i>Bartramia halleriana</i> Hedw. NS	1			1
<i>Bartramia pomiformis</i> Hedw.	11	29	12	47
<i>Bartramia ithyphylla</i> Brid.	3	13	8	23

<i>Philonotis arnellii</i> Husn.		3	2	5
NS				
<i>Philonotis caespitosa</i> Jur.	1	1	1	3
NS				
<i>Philonotis fontana</i> (Hedw.) Brid.	21	36	17	66
<i>Philonotis tomentella</i> Molendo			1	1
NS				
<i>Philonotis calcarea</i> (Bruch & Schimp.) Schimp.	11	17	7	31
<i>Breutelia chrysocoma</i> (Hedw.) Lindb.	4	12	1	17
Family: Bryaceae				
<i>Plagiobryum zieri</i> (Hedw.) Lindb.	4	5	1	9
<i>Anomobryum julaceum</i> sensu lato (includes <i>A. julaceum</i> (Schrad. ex P.Gaertn. et al.) Schimp. & <i>A. concinnatum</i> (Spruce) Lindb.	4	11	3	17
<i>Anomobryum julaceum</i> (Schrad. ex P.Gaertn. et al.) Schimp.	4	9	3	16
<i>Anomobryum concinnatum</i> (Spruce) Lindb. ( <i>A. filiforme</i> var. <i>concinnatum</i> (Spruce) Loeske, <i>A. julaceum</i> var. <i>concinnatum</i> (Spruce) J.E.Zetterst.)	1		1	2
(NS)				
<i>Bryum marratii</i> Hook.f. & Wilson			2	2
VU, NR, UKBAP, NERC				
<i>Bryum warneum</i> (Röhl.) Brid. ( <i>B. mamillatum</i> Lindb.)	1			1
NT, NS, UKBAP, NERC, WACA8				
<i>Bryum calophyllum</i> R.Br.	1		1	2
VU, NR, UKBAP, NERC				
<i>Bryum uliginosum</i> (Brid.) Bruch & Schimp.			1	1
RE, NR, UKBAP				
<i>Bryum pallens</i> Sw. ex anon. ( <i>B. subelegans</i> Kindb.)	25	41	18	75
<i>Bryum turbinatum</i> (Hedw.) Turner		1		1
RE				
<i>Bryum weigeli</i> Spreng.			1	1
NS				
<i>Bryum algovicum</i> var. <i>rutheanum</i> (Warnst.) Crundw.	2	4	4	10
<i>Bryum knowltonii</i> Barnes	1		3	4
VU, NS, UKBAP, NERC				
<i>Bryum archangelicum</i> Bruch & Schimp. ( <i>B. imbricatum</i> auct. non (Schwägr.) Bruch & Schimp., <i>B. inclinatum</i> (Brid.) Turton, hom. Illeg. nom (Hedw.) Dixon)	3	1	1	5
<i>Bryum intermedium</i> (Brid.) Blandow	1	2	5	8
DD, NS				
<i>Bryum capillare</i> Hedw. ( <i>B. capillare</i> var. <i>rufifolium</i> (Dixon) Podp.)	40	49	24	102
<i>Bryum elegans</i> Nees ( <i>B. stirtonii</i> Schimp.)	3		1	4
NS				
<i>Bryum moravicum</i> Podp. ( <i>B. flaccidum</i> auct. non Brid., <i>B. laevifilum</i> Syed, <i>B. subelegans</i> auct. non Kindb.)	19	3	1	23
<i>Bryum torquescens</i> Bruch & Schimp.	1			1
NS				
<i>Bryum creberrimum</i> Taylor	1			1
NT, NS				
<i>Bryum pallescens</i> Schleich. ex Schwägr.	4	1	1	6
<i>Bryum pseudotriquetrum</i> (Hedw.) P.Gaertn. et al.	32	37	18	78
<i>Bryum pseudotriquetrum</i> (Hedw.) P.Gaertn. et al. var. <i>pseudotriquetrum</i> ( <i>B. neodamense</i> Itzigs)	28	22	9	55

<i>Bryum pseudotriquetrum</i> var. <i>bimum</i> (Schreb.) Lilj. ( <i>B. bimum</i> (Schreb.) Turner)	1		1	2
<i>Bryum caespiticium</i> sensu lato	27	35	17	70
<i>Bryum caespiticium</i> Hedw.	4	Y	Y	4
<i>Bryum kunzei</i> Hornsch. NT, NS	1			1
<i>Bryum argenteum</i> Hedw.	40	44	23	97
<i>Bryum gemmiferum</i> R.Wilczek & Demaret	1		4	5
<i>Bryum dichotomum</i> sensu lato	39	43	23	92
<i>Bryum dichotomum</i> Hedw.	36	35	17	83
<i>Bryum radiculosum</i> Brid.		2	2	4
<i>Bryum ruderale</i> Crundw. & Nyholm	1	3	1	5
<i>Bryum violaceum</i> Crundw. & Nyholm	7		3	10
<i>Bryum klinggraeffii</i> Schimp.	7	1	2	10
<i>Bryum sauteri</i> Bruch & Schimp.	2			2
<i>Bryum subapiculatum</i> Hampe	12	3	3	18
<i>Bryum bornholmense</i> Wink. & R.Ruthe		1		1
<i>Bryum rubens</i> Mitt.	17	26	14	55
<i>Bryum mildeanum</i> Jur. NS	1			1
<i>Bryum alpinum</i> Huds. ex With.	6	5	7	17
<i>Rhodobryum roseum</i> (Hedw.) Limpr.	3	5	2	10
Family: Mielichhoferiaceae				
<i>Pohlia elongata</i> Hedw. var. <i>elongata</i>	5	2	1	8
<i>Pohlia cruda</i> (Hedw.) Lindb.	8	14	7	28
<i>Pohlia nutans</i> (Hedw.) Lindb.	37	41	18	87
<i>Pohlia drummondii</i> (Müll.Hal.) A.L.Andrews	1	3	1	5
<i>Pohlia filum</i> (Schimp.) Martensson NS		3		3
<i>Pohlia bulbifera</i> (Warnst.) Warnst.		1		1
<i>Pohlia annotina</i> (Hedw.) Lindb.	13	28	7	44
<i>Pohlia camptotrachela</i> (Renauld & Cardot) Broth.			1	1
<i>Pohlia ludwigii</i> (Spreng. ex Schwägr.) Broth. NS			2	2
<i>Pohlia lutescens</i> (Limpr.) H.Lindb.	1	1		2
<i>Pohlia melanodon</i> (Brid.) A.J.Shaw	30	33	20	76



<i>Pohlia wahlenbergii</i> (F.Weber & D.Mohr.) A.L.Andrews var. <i>wahlenbergii</i>	18	36	19	66
<i>Pohlia wahlenbergii</i> var. <i>glacialis</i> (Brid.) E.F.Warb. (NS)			1	1
Family: Mniaceae				
<i>Mnium hornum</i> Hedw.	38	46	22	94
<i>Mnium marginatum</i> (Dicks.) P.Beauv. var. <i>marginatum</i>	5	8	3	16
<i>Mnium stellare</i> Hedw.	14	26	13	47
Family: Cinclidaceae				
<i>Cinclidium stygium</i> Sw.	2			2
NS				
<i>Rhizomnium punctatum</i> (Hedw.) T.J.Kop.	40	43	21	92
<i>Rhizomnium pseudopunctatum</i> (Bruch & Schimp.) T.J.Kop.	3	3	2	8
Family: Plagiomniaceae				
<i>Plagiomnium cuspidatum</i> (Hedw.) T.J.Kop.	11	12	4	26
<i>Plagiomnium affine</i> sensu lato	13	27	13	52
<i>Plagiomnium affine</i> (Blandow ex Funck) T.J.Kop. sensu stricto	2	10?	5	17
<i>Plagiomnium elatum</i> (Bruch & Schimp.) T.J.Kop.	5	16	5	26
<i>Plagiomnium ellipticum</i> (Brid.) T.J.Kop.	7	8	6	21
<i>Plagiomnium undulatum</i> (Hedw.) T.J.Kop.	41	47	22	99
<i>Plagiomnium rostratum</i> (Schrad.) T.J.Kop.	38	37	11	80
<i>Pseudobryum cinclidioides</i> (Huebener) T.J.Kop. NS			2	2
Family: Aulacomniaceae				
<i>Aulacomnium palustre</i> (Hedw.) Schwägr.	24	36	14	65
<i>Aulacomnium androgynum</i> (Hedw.) Schwägr.	28	15	4	47
Family: Orthodontiaceae				
<i>Orthodontium lineare</i> Schwägr.	33	30	12	72
<i>Orthodontium gracile</i> (Wilson) Schwägr. ex Bruch & Schimp. ERDB, VU, NR, UKBAP, NERC			1	1
<b>Order: Hookeriales</b>				
Family: Hookeriaceae				
<i>Hookeria lucens</i> (Hedw.) Sm.	17	31	11	52
<b>Order: Hypnales</b>				
Family: Fontinalaceae				
<i>Fontinalis antipyretica</i> Hedw. sensu lato	23	41	21	77
<i>Fontinalis antipyretica</i> Hedw. var. <i>antipyretica</i>	10	33	21	55

<i>Fontinalis antipyretica</i> var. <i>gracilis</i> (Lindb.) Schimp.	5	6	1	12
<i>Fontinalis squamosa</i> Hedw. var. <i>squamosa</i> (NS)	1	5	2	8
Family: Climaciaceae				
<i>Climacium dendroides</i> (Hedw.) F.Weber & D.Mohr	18	36	18	64
Family: Amblystegiaceae				
<i>Palustriella commutata</i> sensu lato	31	38	17	79
<i>Palustriella commutata</i> (Hedw.) Ochyra sensu stricto	31	37	17	78
<i>Palustriella falcata</i> (Brid.) Hedenäs	10	23	8	38
<i>Cratoneuron filicinum</i> (Hedw.) Spruce	37	48	24	96
<i>Campylium stellatum</i> (Hedw.) J.Lange & C.E.O.Jensen	20	30	10	56
<i>Campylium protensum</i> (Brid.) Kindb.	13	20	5	37
<i>Campyliadelphus chrysophyllus</i> (Brid.) R.S.Chopra	8	7	4	19
<i>Campyliadelphus elodes</i> (Lindb.) Kanda NS		1	4	5
<i>Amblystegium serpens</i> (Hedw.) Schimp. var. <i>serpens</i>	40	45	25	99
<i>Amblystegium serpens</i> var. <i>salinum</i> Carrington			4	4
<i>Amblystegium confervoides</i> (Brid.) Schimp. NS	1			1
<i>Hygroamblystegium fluviatile</i> (Hedw.) Loeske	16	6	11	31
<i>Hygroamblystegium tenax</i> (Hedw.) Jenn.	8	11	13	29
<i>Hygroamblystegium varium</i> (Hedw.) Mönk.	3	4		7
<i>Leptodictyum riparium</i> (Hedw.) Warnst.	24	8	10	42
<i>Conardia compacta</i> (Drumm. ex Müll.Hal.) H.Rob. NS	1	1	4	6
<i>Drepanocladus polygamus</i> (Schimp.) Hedenäs		1	3	4
<i>Drepanocladus aduncus</i> (Hedw.) Warnst.	16	6	4	25
<i>Drepanocladus sendtneri</i> (Schimp. ex H.Müll.) Warnst. NS			2	2
<i>Tomentypnum nitens</i> (Hedw.) Loeske VU, NS	3	3	1	7
<i>Sanionia uncinata</i> (Hedw.) Loeske	17	36	17	63
<i>Hygrohypnum ochraceum</i> (Turner ex Wilson) Loeske	16	24	8	43
<i>Hygrohypnum luridum</i> (Hedw.) Jenn.	22	35	18	68
<i>Hygrohypnum eugyrium</i> (Schimp.) Broth.	1		2	3
<i>Hygrohypnum duriusculum</i> (De Not.) D.W.Jamieson NT, NS			1	1
<i>Pseudocalliergon lycopodioides</i> (Brid.) Hedenäs NT, NS	1	1	1	3

Family: Calliergonaceae				
<i>Warnstorfia fluitans</i> (Hedw.) Loeske	16	24	9	46
<i>Sarmentypnum exannulatum</i> (Schimp.) Hedenäs	7	10	3	19
<i>Sarmentypnum sarmentosum</i> (Wahlenb.) Tuom. & T.J.Kop.	3			3
<i>Straminergon stramineum</i> (Dicks. ex Brid.) Hedenäs	16	27	8	46
<i>Scorpidium revolvens</i> sensu lato	12	26	8	42
<i>Scorpidium revolvens</i> (Sw. ex anon.) Rubers sensu stricto	3	1	1	5
<i>Scorpidium cossonii</i> (Schimp.) Hedenäs	4	3	1	8
<i>Scorpidium scorpioides</i> (Hedw.) Limpr.	1	4	4	9
<i>Calliergon cordifolium</i> (Hedw.) Kindb.	21	11	3	35
<i>Calliergon giganteum</i> (Schimp.) Kindb.	6	14	4	23
Family: Leskeaceae				
<i>Leskea polycarpa</i> Hedw.	12	15	13	39
<i>Pseudoleskeella catenulata</i> (Brid. ex Schrad.) Kindb. NS	2			2
Family: Thuidiaceae				
<i>Abietinella abietina</i> (Hedw.) M.Fleisch. var. <i>abietina</i> NS	2			2
<i>Thuidium tamariscinum</i> (Hedw.) Schimp.	32	45	20	87
<i>Thuidium delicatulum</i> (Hedw.) Schimp.	2	3		5
<i>Thuidium assimile</i> (Mitt.) A.Jaeger	4	10	1	14
Family: Brachytheciaceae				
<i>Pseudoscleropodium purum</i> (Hedw.) M.Fleisch.	36	46	24	96
<i>Eurhynchium striatum</i> (Hedw.) Schimp.	34	42	17	86
<i>Platyhypnidium riparioides</i> (Hedw.) Dixon	35	41	22	85
<i>Rhynchostegium murale</i> (Hedw.) Schimp.	22	13	3	36
<i>Rhynchostegium confertum</i> (Dicks.) Schimp.	35	36	18	82
<i>Rhynchostegium megapolitanum</i> (Blandow ex F.Weber & D.Mohr) Schimp.		1		1
<i>Rhynchostegiella tenella</i> (Dicks.) Limpr.	3	3	11	16
<i>Rhynchostegiella teneriffae</i> (Mont.) Dirkse & Bouman	3	3	4	10
<i>Cirriphyllum piliferum</i> (Hedw.) Grout	33	33	7	69
<i>Cirriphyllum crassinervium</i> (Taylor) Loeske & M.Fleisch.	8	16	6	29
<i>Oxyrrhynchium pumilum</i> (Wilson) Loeske	7	18	7	31
<i>Oxyrrhynchium hians</i> (Hedw.) Loeske	35	44	25	94

<i>Oxyrrhynchium schleicheri</i> (R.Hedw.) Röll		2	5	7
<i>Oxyrrhynchium speciosum</i> (Brid.) Warnst.			1	1
<i>Kindbergia praelonga</i> (Hedw.) Ochyra	40	48	25	102
<i>Sciuro-hypnum populeum</i> (Hedw.) Ignatov & Huttunen	12	36	14	58
<i>Sciuro-hypnum plumosum</i> (Hedw.) Ignatov & Huttunen	23	44	17	74
<i>Brachythecium albicans</i> (Hedw.) Schimp.	21	20	14	52
<i>Brachythecium glareosum</i> (Bruch ex Spruce) Schimp.	7	23	7	34
<i>Brachythecium salebrosum</i> (Hoffm. ex F.Weber & D.Mohr) Schimp.	1			1
NS				
<i>Brachythecium mildeanum</i> (Schimp.) Schimp.	1	2	2	5
<i>Brachythecium rutabulum</i> (Hedw.) Schimp.	40	49	26	103
<i>Brachythecium rivulare</i> Schimp.	38	41	24	92
<i>Scleropodium cespitans</i> (Wilson ex Müll.Hal.) L.F.Koch		2	6	7
<i>Brachytheciastrum velutinum</i> (Hedw.) Ignatov & Huttunen	37	38	17	86
<i>Homalothecium sericeum</i> (Hedw.) Schimp.	33	47	23	91
<i>Homalothecium lutescens</i> (Hedw.) H.Rob.	11	21	8	39
Family: Hypnaceae				
<i>Campylophyllum calcareum</i> (Crundw. & Nyholm) Hedenäs		2		2
NS				
<i>Calliergonella cuspidata</i> (Hedw.) Loeske	40	49	25	102
<i>Calliergonella lindbergii</i> (Mitt.) Hedenäs	5	24	8	35
<i>Taxiphyllum wissgrillii</i> (Garov.) Wijk & Margad.	3	1	2	6
<i>Pylaisia polyantha</i> (Hedw.) Schimp.	4	2	3	9
NS				
<i>Homomallium incurvatum</i> (Schrad. ex Brid.) Loeske	2			2
VU, NR, UKBAP, NERC				
<i>Hypnum cupressiforme</i> sensu lato	41	49	25	101
<i>Hypnum cupressiforme</i> Hedw. var. <i>cupressiforme</i>	40	40	24	97
<i>Hypnum cupressiforme</i> var. <i>lacunosum</i> (Brid.) Hoffm. ex Brid.	18	41	23	75
<i>Hypnum cupressiforme</i> var. <i>resupinatum</i> (Taylor) Schimp.	34	38	18	81
<i>Hypnum andoi</i> A.J.E.Sm.	25	38	15	73
<i>Hypnum jutlandicum</i> Holmen & E.Warncke	28	38	17	74
<i>Hypnum imponens</i> Hedw.	2	8	3	13
NS				
<i>Hypnum callichroum</i> Brid.		1	1	2
<i>Ctenidium molluscum</i> sensu lato	27	40	17	76
<i>Ctenidium molluscum</i> (Hedw.) Mitt. var. <i>molluscum</i>	22	30	17	62

<i>Ctenidium molluscum</i> var. <i>condensatum</i> (Schimp.) E.Britton	2	9	3	13
<i>Hyocomium armoricum</i> (Brid.) Wijk & Margad.	25	27	8	40
Family: Pterigynandraceae				
<i>Heterocladium heteropterum</i> Schimp. sensu lato	6	22	10	36
<i>Heterocladium heteropterum</i> Schimp. var. <i>heteropterum</i>	4	21	9	32
<i>Heterocladium heteropterum</i> var. <i>flaccidum</i> Schimp.	1	7	3	11
<i>Heterocladium wulfsbergii</i> l.Hagen (NS)			1	1
<i>Pterigynandrum filiforme</i> Hedw. NS			1	1
Family: Hylocomiaceae				
<i>Pleurozium schreberi</i> (Willd. ex Brid.) Mitt.	22	44	23	79
<i>Rhytidiadelphus triquetrus</i> (Hedw.) Warnst.	21	36	15	71
<i>Rhytidiadelphus squarrosus</i> (Hedw.) Warnst.	41	48	25	102
<i>Rhytidiadelphus loreus</i> (Hedw.) Warnst.	18	31	9	53
<i>Loeskeobryum brevirostre</i> (Brid.) M.Fleisch.		5		5
<i>Hylocomium splendens</i> (Hedw.) Schimp.	25	39	21	78
Family: Rhytidiaceae				
<i>Rhytidium rugosum</i> (Hedw.) Kindb. NS	2			2
Family: Plagiotheciaceae				
<i>Platydictya jungermannioides</i> (Brid.) H.A.Crum NS	3			3
<i>Orthothecium intricatum</i> (Hartm.) Schimp.	4	5		9
<i>Plagiothecium latebricola</i> Schimp.		1		1
<i>Plagiothecium denticulatum</i> (Hedw.) Schimp. var. <i>denticulatum</i>	35	23	8	63
<i>Plagiothecium laetum</i> Schimp. NS	1	6	3	10
<i>Plagiothecium curvifolium</i> Schlieph. ex Limpr.	16	12	4	31
<i>Plagiothecium succulentum</i> (Wilson) Lindb.	31	36	14	76
<i>Plagiothecium nemorale</i> (Mitt.) A.Jaeger	10	17	11	34
<i>Plagiothecium undulatum</i> (Hedw.) Schimp.	28	41	20	80
<i>Isopterygiopsis pulchella</i> (Hedw.) Z.Iwats.	2	9	1	12
<i>Pseudotaxiphyllum elegans</i> (Brid.) Z.Iwats.	32	42	19	83
Family: Endontaceae				
<i>Entodon concinnus</i> (De Not.) Paris	3	5		8

Family: Cryphaeaceae				
<i>Cryphaea heteromalla</i> (Hedw.) D.Mohr	4	5	1	10
Family: Leucodontaceae				
<i>Leucodon sciuroides</i> sensu lato	4	4	1	9
<i>Leucodon sciuroides</i> (Hedw.) Schwägr. var. <i>sciuroides</i>	2	2		4
<i>Antitrichia curtipendula</i> (Hedw.) Brid.	5	1	3	9
<i>Pterogonium gracile</i> (Hedw.) Sm.	2		1	3
Family: Neckeraceae				
<i>Neckera crispa</i> Hedw.	11	10	2	23
<i>Neckera complanata</i> (Hedw.) Huebener	18	34	18	63
<i>Homalia trichomanoides</i> (Hedw.) Brid.	14	23	12	45
<i>Thamnobryum alopecurum</i> (Hedw.) Gangulee	23	35	15	64
Family: Lembophyllaceae				
<i>Isothecium myosuroides</i> Brid. var. <i>myosuroides</i>	20	40	21	72
<i>Isothecium alopecuroides</i> (Lam. ex Dubois) Isov.	18	33	23	62
Family: Anomodontaceae				
<i>Anomodon longifolius</i> (Schleich. ex Brid.) Hartm.	2			2
VU, NR, UKBAP, NERC, WACA8				
<i>Anomodon viticulosus</i> (Hedw.) Hook. & Taylor	13	10	6	28