



UK Habitat Classification Field Key

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General notes on using the key:

This key has been designed so that any habitat polygon/stand/parcel that is large enough to be a minimum mappable unit within the UK can be identified to the UKHab classification system, Annex I Habitat type, and/or to Priority Habitat type (PHT), and/or Broad Habitat type. Scottish Natural Heritage have adopted the EUNIS system so that they achieve INSPIRE compliance for the European Union. This key has been extended to include the Scottish system (Strachan, 2015, 2017). Freshwater and marine habitats are not covered. The key has been colour coded to help surveyors quickly find groups of habitats. Surveyors should quickly learn where to go to in the key for most occasions.

Common names (from Streeter *et al.* 2009) are used in conjunction with scientific names (following Stace 1997) for all vascular plant species to aid surveyors who use one or the other or a mixture of both. The common names of bryophytes have rarely been included on the assumption that anyone who is capable of identifying them will know the scientific names. Relatively inexperienced naturalists and botanists should be able to use the key as long as they can identify common grass species, but there are certain habitats which require an expert knowledge of bryophytes, sedges and rushes. Surveyors should use the key as far as they can, listing the finest scale of the classification that they can get to. Column 3 gives Annex I, Priority Habitat and Broad Habitat at each point. Column 4 gives the Scottish EUNIS code. Column 5 gives the UKHab code. Column 6 contains NVC communities associated with the habitats. These are included to assist those who are familiar with the National Vegetation Classification rather than being a key to those plant communities.

The key has been designed so that there is more than one way to get to some of the more tricky habitats. This has followed many years of trial and error and surveyors pointing out to the authors where there were failures. Further comments are always welcome.

Note on use and Copyright

This key has been developed over 20 years by many contributors from many organisations and copyright and intellectual property rights are widely shared. The UK Habitat Classification Working Group welcome anybody to adapt the key for their own purposes. Publication of the key or any adaptation of it must be cost free, as all contributors agree that it should be open access.

Definitions of Hydrological Classes

With many habitats it is necessary to understand the moisture regime of a site to correctly classify them. There has been much debate about the nature of wetlands and wetland habitats and much of the debate has stemmed from different definitions of the term “wet”. For this key and UKHab generally we have adopted the hydrological classes used for the BioHab classification of Europe (Bunce et al., 2011) which in turn was based on the Concerted Action “Water regimes for forest productivity” coordinated by Graham Pyatt and published in 1999.

Hydrological Class	Description
Inundated	Covered in water over 70% of the time
Waterlogged	Water table at the surface with standing water for between 50 and 70% of the year or with the soil completely saturated, only small patches may remain ‘wet’ in mid-summer. Peatlands or fenlands in the North, in the edges of water bodies in Central and Southern Europe.
Wet	Water table within 40cm of the surface and soil containing free water for most of the year. Mainly in the North, but around the margins of water bodies Central and Southern Europe.
Seasonally Wet	Water table variable at the surface and waterlogged for the winter months or spring flooding season, becoming wet or mesic during the summer period. Beside large rivers throughout Europe or in temporary water bodies. Evidence of inundation is required through landscape context or evidence of the soil profiles (young alluvial soils).
Mesic	Water table 40-100cm below the surface, available water during most of the non-summer period, may dry during the mid-summer period. The middle range of soils in Central and Northern Europe and beside water receiving areas and northern mountain slopes in the Mediterranean Zones.
Dry	Water table >100cm below the surface, water available only during some periods. Can occur anywhere in Europe but only skeletal or very shallow soils in the North, or on South facing slopes in Central Europe. NB only found on a few sandy soil types in the south east of England inland.
Very Dry	Water table >100cm below the surface, dry throughout most of the year with only short mesic periods. Occurs throughout the Mediterranean Zone. Not in UK.
Xeric	Water table >100cm below the surface, dry throughout the year except in isolated rain events. Only occurs in the Mediterranean South Zone in Europe.

Habitats determined by Landscape, Morphology or Topography

There are a few habitats where definitions depend on the landscape or topography.

1. Most heathlands will key out as Annex I habitats, however the distinction between the Lowland Heath and Upland Heathland PHT within the Annex I types is not always straightforward. It is usually obvious and we allow the surveyor to make the choice. There are a few areas of the country where the two Priority Habitats merge, notably Dartmoor and Exmoor. A useful guide is that most Lowland Heath is below 300m and most Upland Heathland is above 300m. It is important not to use altitude as the definite limit to define these habitats as it varies depending on aspect and exposure. Furthermore in recent decades Lowland Heath communities have been moving “up hill” as the climate has warmed. If in doubt surveyors should consult the Joint Nature Conservation Committee (JNCC) definitions of the habitats (www.defra.JNCC.gov.uk) or the National Vegetation Classification (NVC) volume 2 “Mires and Heaths” (Rodwell 1991) or local action plans.
2. Wood Pasture and Parkland where there is less than 25% cover of trees appears at step 27a. This is a habitat that requires a second code to describe the vegetation beneath it. Surveyors are asked to use the Secondary code for the Wood Pasture and Parkland habitat and carry on with the key to get the Primary code of the underlying vegetation.
3. Coastal Floodplain and Grazing Marsh appears at step 18k and 27b. Surveyors are asked to use the Secondary code (25) for this habitat and continue with the key to obtain the Primary code of the grassland.
4. Many vegetation types can be found in coastal situations and the key guides the surveyor to the correct coastal type by various routes, but where the surveyor is confident that they are in coastal vegetation they can go straight to step 18 of the key. However, there are many situations in enclosed landscapes which may appear to be coastal but where the vegetation does not fall into a coastal type. In enclosed landscapes it is advisable to go through the whole key.
5. Intensively managed orchards are found in the Cropland section. If they are traditional, old or ancient, orchards should be given the Secondary code (21) for the Traditional Orchards PHT and continue with the key to obtain the Primary code of the underlying vegetation.
6. Upland Oak Woods can be separated from Lowland Mixed Deciduous Woodland by their place in the landscape as well as by detailed variations in the vegetation. Surveyors are left with a choice to make at point 8c between the two as it is almost impossible to describe the subtleties in a few lines here. The Annex 1 description for 91A0 – Old sessile oak woods with *Ilex* and *Blechnum* in the British Isles should be consulted.

Guidance on Annex 1 and Priority Habitat Grasslands

Annex I and Priority Habitat Neutral Grasslands are now a very rare habitat in the UK. Surveyors should not be tempted to allocate a very herb-rich neutral grassland to an Annex I or Priority Habitat type if the indicator species are not present. Although the herb-rich grasslands can be very valuable habitats and perhaps should be noted as such they are not Annex I or PHT. The Farm Environment Plans of the Higher Level Stewardship had a category “G03 – species rich grassland” which made the distinction between species rich non-PHT neutral grassland and that of lower quality. We use the definitions from the field key produced by P. Wilson in the Farm Environment Plan

Features Manual (Natural England, 2008) that divides grasslands by the number of species found in them.

Acid Grasslands in the uplands are very rarely Annex I or PHT, the key should guide surveyors to the examples that are either of these.

Calcareous Grasslands are often Annex I or PHT even when they are species poor because of the way they are defined. Examples of arable reversion on calcareous soils can prove awkward to assign to either Calcareous Grassland or Recently Sown Mixtures. Much will depend on whether the indicator species have been sown or not. If bare ground is still obvious and a mature sward has yet to develop, it is best to consider the vegetation as not regularly disturbed at step 26 of the key.

Halophytic Species – Ellenberg Salt Index, Ellenberg Reactivity Index (pH)

Halophytic species are defined here as those species that are tolerant of the stresses imposed by living in an environment with high salinity. The list of the species that are halophytic in the UK can be found in the separate document as postscript 1 to this key.

Calcareous and acid indicator species can be determined by reference to the Ellenberg Reactivity (pH) index for plants and bryophytes which is provided for all UK species listed from highest pH to lowest pH in the separate document as postscript 2 to this key.

Transition Mires/Alkaline Fens

This habitat is complex and the list of species is too long for a description in the key as it is a mixture of species indicative of acidic and also base rich conditions. The following gives positive indicators for the NVC communities listed as suggested by JNCC with names adjusted to fit Stace 1997.

M4 - *Carex rostrata*, *C. lasiocarpa*, *Sphagnum cuspidatum*, *S. fallax*, *S. denticulatum*, *Potentilla erecta*, *Galium palustre*, *Rumex acetosa*, *Viola palustris*, *Stellaria alsine*.

M5 - *Carex rostrata*, *C. lasiocarpa*, *C. nigra*, *Eriophorum angustifolium*, *Sphagnum subnitens*, *S. squarrosum*, *S. teres*, *S. palustre*, *S. fallax*, *Aulacomnium palustre*, *Comarum palustre*, *Menyanthes trifoliata*, *Galium palustre*, *Succisa pratensis*, *Viola palustris*, *Ranunculus flammula*, *Epilobium palustre*, *Silene flos-cuculi*.

M8 - *Carex rostrata*, *Carex nigra*, *Epilobium palustre*, *Festuca ovina*, *Potentilla erecta*, *Selaginella selaginoides*, *Viola palustris*, *Aulacomnium palustre*, *Calliergonella cuspidata*, *Hylocomium splendens*, *Rhizomnium pseudopunctatum*, *Sphagnum teres*, *Sphagnum warnstorffii*.

M9 - *Carex diandra*, *C. lasiocarpa*, *C. rostrata*, *C. limosa*, *C. panicea*, *C. nigra*, *Eriophorum angustifolium*, *Calliergonella cuspidata*, *Calliergon giganteum*, *Campylium stellatum*, *Scorpidium scorpioides*, *Scorpidium revolvens*, *Bryum pseudotriquetrum*, *Palustriella commutata*, *Cratoneuron filicinum*, *Ctenidium molluscum*, *Menyanthes trifoliata*, *Mentha aquatica*, *Pedicularis palustris*, *Epilobium palustre*, *Comarum palustre*, *Cardamine pratensis*, *Potamogeton* spp. *Caltha palustris*

S27 - *Carex rostrata*, *C. vesicaria*, *C. nigra*, *C. elata*, *C. aquatilis*, *C. appropinquata*, *Eriophorum angustifolium*, *Phragmites australis*, *Juncus effusus*, *Comarum palustre*, *Menyanthes trifoliata*, *Equisetum fluviatile*, *Calliergonella cuspidata*, *Calliergon cordifolium*, *C. giganteum*, *Galium palustre*, *Cardamine pratense*, *Epilobium palustre*, *Mentha aquatica*, *Myosotis laxa*, *Caltha palustris*, *Hydrocotyle vulgaris*, *Veronica scutellata*, *Lysimachia vulgaris*

M10 - *Carex hostiana*, *C. dioica*, *C. demissa*, *C. viridula* subsp. *brachyrrhyncha* and *C. oederi*, *C. flacca*, *C. panicea*

M13 - *Schoenus nigricans*, *Carex hostiana*, *C. dioica*, *C. demissa*, *C. viridula* subsp. *brachyrrhyncha* and *C. oederi*, *C. flacca*, *C. panicea*

Key References

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		Numbered links to sections of the key	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
1a	Inundated or waterlogged habitats (see below for definitions of moisture regime) excluding deciduous woodland.	41 - Wetland		f	
1b	Coastal areas where the sea regularly disturbs vegetation or vegetation contains halophytic (salt-loving) species or where species in quadrats have an Ellenberg salt indicator >0 (see postscript).	18 - Coastal		w,h,f,s,t (g)	
1c	Vegetation cover consisting of over 25% cover of trees (canopy forming woodland and forest tree species).	2 - Woodland		w	
1d	Vegetation with over 25% cover of all woody species that are not trees as in 1c. Includes dwarf shrubs, mostly less than 1.5m. Includes scrub, and hedgerows. Does not include Creeping Willow (<i>Salix repens</i>) in dune slacks. Not waterlogged.	10 - Heathlands, Shrubs and Scrub		h	
1e	Total vegetation cover may be variable but where present consists of over 75% herbaceous (grasses, sedges, rushes, ferns, forbs). Dry, mesic, seasonally wet or wet conditions (see below for definitions of moisture regime).	16 -		g (c h,u)	
1f	Sparsely vegetated rock surfaces, scree slopes and mine spoil with Saxicolous (on rock) and chasmophytic (in crevices). Non-coastal, vegetation with cover less than 50%.	38 – Sparsely Vegetated		s (c)	
1g	Land used for agricultural crops including soft fruit and industrial orchards.	40 - Agriculture		c	

Moisture Regime

Inundated: covered in water over 70% of the time

Waterlogged: water table at the surface with standing water for between 50 and 70% of the year or with the soil completely saturated, only small patches remain “wet” in mid-summer.

Wet: water table within 40cm of the surface and soil containing free water for most of the year.

Seasonally wet: water table variable at the surface and waterlogged for the winter months or spring flooding season, becoming wet or mesic for the summer months.

Mesic: water table 40-100cm from the surface, water available during most of the non-summer period. May be dry during mid-summer.

Dry: water table more than 100cm below the surface, water only available for short part of the year (rare in UK, only in some parts of south east).

Woodland and Forest

2a-c	DIVISION OF CONIFEROUS AND BROADLEAVED WOODLAND	Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
2a	More than 80% conifers in tree canopy (excluding Yew but including Juniper)	3		w2	
2b	Less than 80% conifers in tree canopy (including Yew but excluding Juniper)	4		w1	
2c	Lines of trees			w1g6	
3a-d	CONIFEROUS WOODLAND				
3a	Over 25% of canopy cover of Scot's Pine (<i>Pinus sylvestris</i>). Relict where they are in indigenous forests with associated Birch and Juniper.	Annex I 91C0 – Caledonian Forest. Native Pine Woods Priority Habitat (Coniferous Woodland BH)	G3.41€	w2a5	W18-19
3b	Over 25% of canopy cover of Scot's Pine (<i>Pinus sylvestris</i>) where natural regeneration has taken place outside of the Scottish Highlands e.g. Breckland or the New Forest	P.sylvestris woodlands (Coniferous Woodland BH)	G3.F1	w2b	
3c	Conifer plantations not as above	Coniferous Woodland (BH)	G3.F2	w2c	
3d	Mixed woodlands with 50-80% conifers	Coniferous Woodland (BH)		w1h6	
3d	Over 30% cover Juniper	Annex I 5130 - Juniperus communis formations on heaths or calcareous grasslands.	F3.16#1	Underlying vegetation, Secondary code 22	
4a-f	DIVISION FOR OTHER BROADLEAVED WOODLANDS				
4a	Scrub on sand dunes and shingle (can include woodland on shingle)	22f or 22g or 22h or 22i			
4b	High montane willows e.g. <i>Salix lapponum</i> on scree and ledges	Annex I 4080 – Sub-Arctic Salix spp.scrub. Montane Heaths and Willow Scrub Priority Habitat (Montane BH)	F2.1#	h1c6	Partly W20
4c	Box (<i>Buxus sempervirens</i>) woodland, often in association with Yew (<i>Taxus baccata</i>)	Annex I 5110 - Stable xerothermophilous formations with Buxus sempervirens on rock slopes (Berberidion p.p.)	Not in Scotland F3.12	w1c8	No fit

		Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
4d	Hazel (<i>Corylus avellana</i>) thickets on limestone with clints and grikes	Annex I 8240 – Limestone pavements. Limestone Pavement Priority Habitat (Inland Rock BH)	F3.17#2	s1b5 secondary code 10	W9
4e	Wetland plants including <i>Sphagnum</i> lawns and swelling mounds of bryophytes on tufa beneath a woodland canopy	Wetland key 49a		f2a6 or f2c6	
4f	Orchards	40			
4g	All other broadleaved woodland	5			
5a-i	SPLITTING BROADLEAVED WOODLANDS INTO TREE SPECIES GROUPS				
5a	>=50% canopy cover of Alder (<i>Alnus glutinosa</i>) or >=50% cover of Willow (<i>Salix</i> spp.). Birch (<i>Betula</i> spp.) is often abundant. Ground is wet and often waterlogged, tall-herbs often present in lowland alluvial situations.	Annex I 91E0 - Alluvial forests with <i>Alnus glutinosa</i> and <i>Fraxinus excelsior</i> (Alno-Padion, Alnion incanae, Salicion albae. Wet woodland Priority Habitat (Broadleaved Woodland BH)	G1.21€	w1d5	W1-W7
5b	As 5a but in upland or non-alluvial situations (small depressions)	Wet woodland Priority Habitat (Broadleaved Woodland BH)	G1.1	w1d	W1-W7
5c	>50% Willow (<i>Salix</i> spp.) as scrub on ungrazed ledges, islands and gullies on Shetland, Orkney, Hebrides and Northern Highlands of Scotland	Broadleaved Woodland (BH)	F2.323	w1h5	Not in NVC
5d	>=25% canopy cover of Beech (<i>Fagus sylvatica</i>) or >=25% canopy cover of Yew (<i>Taxus baccata</i>)	6			
5e	>=25% canopy cover Ash (<i>Fraxinus excelsior</i>) or >=25% canopy cover of Elm (<i>Ulmus</i> spp.) or >=25% canopy cover Lime (<i>Tilia</i> spp.)	7			W8-W9, W13
5f	>=75% canopy cover of native Oak (<i>Quercus</i> spp.) or >= 75% canopy cover of native Birch (<i>Betula</i> spp.)	8			
5g	>=25% canopy cover of Hornbeam (<i>Carpinus betulus</i>)	9			
5h	Mixed forestry plantations (including 50-80% conifers)	Broadleaved Woodland (BH)	G4.F	w1h6	
5i	Mixed woodlands including plantations with <50% conifers	Broadleaved Woodland (BH)	G1.C	w1h5	

		Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
6a-d	BEECH WOODLANDS			w1c	
6a	Beech (<i>Fagus sylvatica</i>) woods on acid soils with Holly (<i>Ilex aquifolium</i>) beneath	Annex I 9120 - Atlantic acidophilous beech forests with Ilex and sometimes also Taxus in the shrublayer (Quercion robri-petraeae or Ilici-Fagenion). Lowland Beech and Yew Woodland Priority Habitat. (Broadleaved Woodland BH)	Not in Scotland G1.62	w1c5	W14-W15
6b	Beech (<i>Fagus sylvatica</i>) woods on circumneutral to calcareous soils with an understorey of Bramble (<i>Rubus fruticosus</i> agg.) on flat to gentle slopes and with Dog's Mercury (<i>Mercurialis perennis</i>) on steeper slopes. Beech Hangers are included in this description.	Annex I 9130 - Asperulo-Fagetum beech forests. Lowland Beech and Yew Woodland Priority Habitat. (Broadleaved Woodland BH)	Not in Scotland G1.6321	w1c6	W12 and some W14
6c	Beech (<i>Fagus sylvatica</i>) woods on acid soils in Scotland (outside native range)	Broadleaved Woodland (BH)	G1.62	w1c	W15
6d	>= 30% cover Yew (<i>Taxus baccata</i>)	Annex I 91J0 – Taxus baccata woods of the British Isles. Lowland Beech and Yew Woodland Priority Habitat (Broadleaved Woodland BH)	Not in Scotland G3.971	w1c7	
7a-d	ASHWOODS				
7a	Woods found in ravines, screes and on steep rocky calcareous slopes, comprising of Ash (<i>Fraxinus excelsior</i>), Wych Elm (<i>Ulmus glabra</i>), Hazel (<i>Corylus avellana</i>) and Lime (mainly Small-leaved Lime <i>Tilia cordata</i> but more rarely Large-leaved lime <i>T. platyphyllos</i>). Introduced Sycamore (<i>Acer pseudoplatanus</i>) is often present.	Annex I – 9180 Tilio-Acerion forests of slopes, screes and ravines. Upland Mixed Ash or Lowland Mixed Deciduous Priority Habitat (Broadleaved Woodland BH)	G1.A2#1 €	w1b5	
7b	Upland or hyperoceanic woods of Ash (<i>Fraxinus excelsior</i>) and/or Elm (<i>Ulmus glabra</i>) often distinguished by a lush lichen flora.	Upland Mixed Ash Priority Habitat (Broadleaved Woodland BH).	G1.A2x	w1b6	
7c	Lowland woods of Ash (<i>Fraxinus excelsior</i>) and/or a suite of other species. Lichen flora not obvious.	Lowland Mixed Deciduous Woodland Priority Habitat (Broadleaved Woodland BH)	G1.A2x	w1f	W8
7d	Ash (<i>Fraxinus excelsior</i>) woodland on limestone with clints and grikes	Annex I 8240 – Limestone pavements. Limestone Pavement Priority Habitat (Inland Rock BH)	G1.A2#2	s1b5	W9

8a-d	BIRCH AND OAK WOODLANDS	Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
8a	>=95% canopy cover of native Birch (<i>Betula</i> spp.) in Scotland	Upland Birchwood Priority Habitat (BH)	G1.91x	w1e	W10e, W11, W17
8b	Oak (<i>Quercus</i> spp.) often with a high proportion of veteran trees on acid well drained soils. Ground flora of species such as Bilberry (<i>Vaccinium myrtillus</i>) and Ling (<i>Calluna vulgaris</i>), grasses such as Wavy Hair-grass (<i>Deschampsia flexuosa</i>) and Creeping Soft-grass (<i>Holcus mollis</i>), and herbs such as Heath Bedstraw (<i>Galium saxatile</i>) and Common Cow-wheat (<i>Melampyrum pratense</i>), together with bryophytes associated with acid soils. Bracken (<i>Pteridium aquilinum</i>) is often abundant in these woodlands. If species more typical of moist or wet conditions are present see 8c below.	Annex I 9190 - Old acidophilous oak woods with <i>Quercus robur</i> on sandy plains. Lowland Mixed Deciduous Priority Habitat (Broadleaved woodland BH)	Not in Scotland G1.8, G1.81, G1.84	w1f5	W16
8c	Woods dominated by mixtures of Oak (<i>Quercus</i> spp.) and Birch (<i>Betula</i> spp.). It is characteristic of circumneutral and acidic soils in areas of at least moderately high rainfall in northern and western parts of the UK. Ground flora is dominated by bryophytes, such as <i>Dicranum majus</i> , <i>Hylocomium splendens</i> , <i>Isoetecium myosuroides</i> , <i>Plagiothecium undulatum</i> , <i>Rhytidiadelphus loreus</i> , <i>Bazzania trilobata</i> and <i>Plagiochila spinulosa</i> . Other variants include stands in which the ground flora is characterised by the prominence of dwarf shrubs, such as Bilberry (<i>Vaccinium myrtillus</i>); grasses, such as Wavy Hair-grass (<i>Deschampsia flexuosa</i>), Common Bent (<i>Agrostis capillaris</i>) and Sweet Vernal-grass (<i>Anthoxanthum odoratum</i>); and plants indicative of less wet conditions, including Bluebell (<i>Hyacinthoides non-scripta</i>), Bramble (<i>Rubus fruticosus</i>), Scaly Male-fern (<i>Dryopteris affinis</i>)	Annex I 91A0 - Old sessile oak woods with <i>Ilex</i> and <i>Blechnum</i> in the British Isles. Upland Oak Woodland or Lowland Mixed Deciduous Priority Habitat (Broadleaved woodland BH)	G1.83€	w1a5	W10e, W11, W16b, W17
8d	Not as above	Upland Oak Woodland Priority Habitat or Lowland Mixed Deciduous Priority Habitat (Broadleaved woodland BH)	G1.81	w1a or w1f7	W10e, W11, W17, W16b
9a-b	WOODLANDS WITH HORNBEAM				
9a	Stands of Oak (<i>Quercus</i> spp.) with Hornbeam (<i>Carpinus betulus</i>) without Bluebell (<i>Hyacinthoides non-scripta</i>) but with Great Wood-rush (<i>Luzula sylvatica</i>), Hairy Wood-rush (<i>L. pilosa</i>) and, locally, Southern Wood-rush (<i>L. forsteri</i>), with Greater Stitchwort (<i>Stellaria holostea</i>), Ivy (<i>Hedera helix</i>) and Honeysuckle (<i>Lonicera periclymenum</i>).	Annex I 9160 - Sub-Atlantic and medio-European oak or oak-hornbeam forests of the Carpinion betuli. Lowland Mixed Deciduous Woodland Priority Habitat (Broadleaved Woodland BH)	Not in Scotland G1.A141	w1f6	Within W10
9b	Stands of Oak (<i>Quercus</i> spp.) with Hornbeam (<i>Carpinus betulus</i>) with Bluebell (<i>Hyacinthoides non-scripta</i>)	Lowland Mixed Deciduous Woodland Priority Habitat (Broadleaved Woodland BH)	G1.A1	w1f7	W10

Heathlands and Shrubs

10	DIVISION OF SHRUBS, HEDGES AND DWARF SHRUB HEATH	Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
10a	Dwarf shrubs >25% cover. Includes Western Gorse (<i>Ulex gallii</i>) and Dwarf Gorse (<i>U. minor</i>), Ling (<i>Calluna</i>), Heathers (<i>Erica</i> spp.), Bilberry (<i>Vaccinium</i> spp.), Crowberry (<i>Empetrum nigrum</i>) and Bearberry (<i>Arctostaphylos</i>).	11			
10b	Areas of scrub or shrubs with over 25% cover. Includes Hazel (<i>Corylus avellana</i>), Hawthorn (<i>Crataegus</i> spp.), Blackthorn (<i>Prunus spinosa</i>), dense Bramble (<i>Rubus fruticosus</i> agg.) and Roses (<i>Rosa</i> spp.), <i>Rhododendron</i> spp., Broom (<i>Cytisus scoparius</i>), Gorse (<i>Ulex europaeus</i>).	13			
10c	Managed hedgerows	Priority Habitat hedgerows and other hedgerows	FA	h2a or h2b	
11a-f	BASIC DIVISION OF DWARF SHRUB HABITATS				
11a	Any of the Heathers (<i>Erica</i> spp., <i>Calluna</i>), Crowberry (<i>Empetrum nigrum</i>), Bilberry (<i>Vaccinium myrtillus</i>) or Gorses (<i>Ulex minor/gallii</i>) (co-)dominate but not in coastal situations. Species of wet/deeper peats absent e.g. Bog-myrtle (<i>Myrica gale</i>), Bog Asphodel (<i>Narthecium ossifragum</i>), Cottongrass (<i>Eriophorum</i> spp.) and Sphagnum spp. absent. Soils generally thin peaty podzols or rankers.	12			
11b	As 10a but heathland on sand dunes and shingle	Coastal key - 18			
11c	As 10a but heathland on maritime cliffs	Maritime cliff and slope Priority Habitat and continue key at 12 to get Annex I habitat.	F4.2	s2a5	
11d	Halophytic shrubs present on edge of saltmarshes. Typically, Shrubby Sea-blite (<i>Suaeda vera</i>) and/or Sea-purslane (<i>Atriplex portulacoides</i>)	20e			
11e	As 11b but species of waterlogged/deeper peats present e.g. Bog-myrtle (<i>Myrica gale</i>), Bog Asphodel (<i>Narthecium ossifragum</i>), Cottongrass (<i>Eriophorum</i> spp.) and Sphagnum spp.	Wetland key			
12a-e	DWARF SHRUB HEATH NOT ON PEAT				
12a	Heathlands containing Cross-leaved Heath (<i>Erica tetralix</i>) and the nationally rare Dorset Heath (<i>E. ciliaris</i>) generally found on acid soils with slightly impeded drainage, although in Cornwall they extend onto dry soils. The abundance of <i>E. ciliaris</i> differentiates this habitat from other Annex I heath types.	Annex I 4020 - Temperate Atlantic wet heaths with <i>Erica ciliaris</i> and <i>Erica tetralix</i> . Lowland Heath Priority Habitat (Dwarf Shrub Heath BH)	Not in Scotland F4.1	h1a8	H3,H4,M16, M21
12b	Vegetation dominated by mixtures of Cornish Heath (<i>Erica vagans</i>) and Gorse (<i>Ulex europaeus</i>), with smaller amounts of Western Gorse (<i>U. gallii</i>) and Bell Heather (<i>E. cinerea</i>). Associated species include herbs of drier conditions, such as Glaucous Sedge (<i>Carex flacca</i>), Common Milkwort (<i>Polygala vulgaris</i>), Betony (<i>Stachys officinalis</i>) and Common Dog-violet (<i>Viola riviniana</i>).	Annex I 4040 – Dry Atlantic coastal heaths with <i>Erica vagans</i> . Lowland Heath Priority Habitat (Dwarf Shrub Heath BH)	Not in Scotland F4.231	h1a6	H6

11	DWARF SHRUB HEATH NOT ON PEAT (continued)	Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
12c	Juniper (<i>Juniperus communis</i>) found with other dwarf shrub species such as Ling (<i>Calluna vulgaris</i>) in lowlands	Annex I 5130 – Juniperus communis formations on heaths or calcareous grasslands	F3.16#1	h1 secondary code 22	
12d	Heathlands above the natural tree line with Ling (<i>Calluna vulgaris</i>), Bilberry (<i>Vaccinium myrtillus</i>), Bearberry (<i>Arctostaphylos uva-ursi</i>) and sometimes Juniper (<i>Juniperus communis</i> subsp. <i>nana</i>). Rare species include Mountain Bearberry (<i>Arctostaphylos alpinus</i>) and Trailing Azalea (<i>Loiseleuria procumbens</i>). The habitat is characterised by harsh wind-blown conditions with late snow li.e.often with many bryophytes such as Racomitrium and lichens.	Annex I 4060 – Alpine and Boreal Heaths, Montane Heath and Willow Scrub Priority Habitat (Montane BH)	F2.25	h1c5	H13-15, H17,H19,H20, H22 (also H10,H12,H16,H18,H21)
12e	Dwarf Shrub >25% cover (with occasional to frequent indicators of wet conditions such as Cross-leaved Heath (<i>Erica tetralix</i>), Sphagnum, Purple Moor Grass (<i>Molinia caerulea</i>) and/or Bog Asphodel (<i>Narthecium ossifragum</i>) but lacking high cover of Sphagnum, Cotton Grass (<i>Eriophorum</i> spp) and Cloudberry (<i>Rubus chamaemorus</i>). Peat largely <0.5m in depth where this can be established. This is a difficult separation to make particularly regarding degraded ombrogenous mires where low abundance of bog indicators may reflect overgrazing, burning and drainage rather than thinner, drier peats. On the Lizard peninsula key out here only where Cornish Heath (<i>Erica vagans</i>) is found with E.tetralix and Black Bog-rush (<i>Schoenus nigricans</i>) i.e. waterlogged.	Annex I 4010 – Northern Atlantic wet heaths with <i>Erica tetralix</i> . Wet heath (Dwarf Shrub Heath BH)	F4.11	h1a7 or h1b6	M15, M16, H5
12e	Not as above, Heathlands of dry to wet (not waterlogged) conditions in the Lowlands or Uplands	Annex I 4030 – European dry heaths (Dwarf Shrub Heath BH10)	F4.2	h1a5 or h1b5	H1-4, H7-H10, H12, H16,H18, H21
13a-i	SCRUB				
13a	Scrub on sand dunes and shingle (can include woodland on shingle)	22f or 22g or 22h or 22i			
13b	Ulex europaeus >25% cover, or Broom (<i>Cytisus scoparius</i>) >25% cover	Broadleaved woodland (BH)	F3.15	h3e	W23
13c	Dense Bramble (<i>Rubus fruticosus</i> agg.)	Broadleaved woodland (BH)	F3.1	h3d	W23
13d	Hazel (<i>Corylus avellana</i>) dominant shrub >25% cover	14			
13e	Blackthorn (<i>Prunus spinosa</i>) and Bramble (<i>Rubus fruticosus</i> agg.) thickets >25% cover but usually much greater than 25% cover	15	F3.111	h3c	
13f	Hawthorn (<i>Crataegus</i> spp.) scrub and thickets >25% cover but usually much greater than 25% cover	Broadleaved woodland (BH)	F3.11	h3f	W21
13g	Scrub and thickets with no dominant species. This habitat is common and found especially in urban areas and on abandoned land. Common species include Elder (<i>Sambucus nigra</i>), Hawthorn (<i>Crataegus</i> spp.), Blackthorn (<i>Prunus spinosa</i>), Willows (<i>Salix</i> spp.), Butterfly Bush (<i>Buddleja davidii</i>), Birch (<i>Betula</i> spp.), Sycamore (<i>Acer pseudoplatanus</i>), Rose (<i>Rosa</i> spp.).	Broadleaved woodland (BH)	F3.1	h3h	W21, W22 but no good fit

		Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
13h	Sea Buckthorn (<i>Hippophae rhamnoides</i>) dominant >25% cover not on sand dunes. If on sand dunes, go to supra-littoral sediment.	Broadleaved woodland (BH)	F3.1	h3c	SD18 (but not good fit)
13i	<i>Rhododendron ponticum</i> thickets >25% cover	Broadleaved woodland (BH)	No fit	h3g	No fit
14a-b	DIVISION OF HAZEL STANDS				
14a	Areas of Hazel (<i>Corylus avellana</i>) on the West coast of Scotland. This ancient habitat is a remnant of a climax community. The lichen flora is distinctive. Found in rugged landscapes, typically, and is very uncommon.	Atlantic Hazel (SNH Priority Habitat)	F3.17	h3b5	No fit
14b	Hazel (<i>Corylus avellana</i>) planted and coppiced or naturally occurring as the dominant shrub (>25%) in all areas of UK. Will not possess the lichen flora of 14a. Does not include Cob Nut groves that are included as orchards.	Broadleaved woodland (BH)	F3.17	h3b6	No fit
14c	Hazel (<i>Corylus avellana</i>) scrub on calcareous slopes. Part of NVC W9 but without Ash (<i>Fraxinus excelsior</i>). See 7a.	Annex I – 9180 Tilio-Acerion forests of slopes, screes and ravines. Upland Mixed Ash or Lowland Mixed Deciduous Priority Habitat (Broadleaved Woodland BH)	G1.A2#1 € Or F3.17#1	w1b5	
14d	Hazel (<i>Corylus avellana</i>) thickets on limestone with clints and grikes	Annex I 8240 – Limestone pavements. Limestone Pavement Priority Habitat (Inland Rock BH)	F3.17#2	s1b5 secondary code 10	W9
15a-c	DIVISION OF BLACKTHORN SCRUB TYPES				
15a	Windswept Blackthorn (<i>Prunus spinosa</i>) on or near to coastal cliffs in the west of UK		F3.1112 or F3.11212	h3a5	
15b	Blackthorn (<i>Prunus spinosa</i>) in other situations		F3.111	h3a6	

16a-c DIVISION OF BRACKEN AND CROPPED LAND FROM OTHER (MAINLY GRASSLAND) TYPES					
16a	Vegetation consisting of Bracken (<i>Pteridium aquilinum</i>) at ≥95% cover with or without a sparse herbaceous understorey. Stands that have not yet peaked in seasonal biomass should still be recorded as dense Bracken if you believe peak cover is likely to be at least 95%. Note that bracken can occur in amongst boulders and scree. Consideration should be made to map as mosaic with inland rock habitats in this situation. Dense Bracken also occurs on sand dunes and in these situations should be mapped as Sand Dune PHT with a secondary code for Bracken.	Dense Bracken (BH)	E5.31	g1c	U20, W25
16b	Bracken (<i>Pteridium aquilinum</i>) <95% cover or absent	17			U20, W25, other grasslands and heaths
16c	Vegetation consisting of crops (including grass leys in arable rotation, and crops designed as wild bird food or game cover). Note that ploughed land should be indicated as such but a primary code used to reflect the previous crop where this can be identified. If not possible, use secondary code 71.	40	11	c1	
17a-c DIVISION OF COASTAL AND FERN DOMINATED VEGETATION (RARE) FROM OTHER TYPES					
17a	Coastal areas where the sea regularly disturbs vegetation or vegetation contains halophytic (salt-loving) species or where species in quadrats have an Ellenberg salt indicator >0 (see postscript 1).	18			
17b	Vegetation dominated by ferns other than Bracken (<i>Pteridium aquilinum</i>)	Acid Grassland (BH)	E5.5B	g1b (secondary codes 16 and 120)	U19 and non NVC fern communities
17c	Vegetation not disturbed by the sea and not dominated by ferns	23			

COASTAL HABITATS		Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
18a	Hard sea-cliffs mostly devoid of vegetation		B3.31€ (B3.2 if unvegetated)	s2a5	
18b	Soft sea-cliffs mostly devoid of vegetation		B3.4	s2a6	
18c	Splash zone just above the sea with lichens		B3.1	t1e	
18d	Sand dunes	22			
18e	Vegetation consisting of frequent to dominant halophytes (see postscript 1), usually on mud often much bare ground, includes saltmarsh	19			
18f	Sea-cliff vegetation with halophytes (see postscript 1) more or less prominent	21			
18g	Vegetation growing on sand dunes including yellow dunes, grey dunes, dune heath, scrub and freshwater dune slacks	22			
18h	Generally linear, seasonal and often patchy vegetation just above the high-tide mark often on shingle, consisting of largely annual species of halophytes such as Sea-rocket (<i>Cakile maritima</i>), Sand Couch (<i>Elytrigia juncea</i>) and Sea-sandwort (<i>Honkenya peploides</i>), Babington's Orache (<i>Atriplex glabriuscula</i>) and other Oraches and Sea-purslane species (<i>Atriplex spp.</i>). Sometimes with generalist ruderals such as Stitchwort (<i>Stellaria media</i>) and Broad-leaved Dock (<i>Rumex obtusifolius</i>). After storms, areas of unvegetated shingle may be present and these should be included here. NB If shrubby halophytes are present see 17d.		Annex I 1210 – Annual vegetation of drift lines. Strandline/Coastal vegetated shingle Priority Habitat	B2.12 (B2.2 if unvegetated) (B1.1 on sand)	s3b6

18	FIRST DIVISION OF COASTAL HABITATS (CONTINUED)	Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab code	NVC units (indicative list only)
18i	Sparsely vegetated shingle, often reflecting patterns of former shingle ridge formation with halophytes and species tolerant of maritime exposure and other more wide ranging species such as Curled Dock (<i>Rumex crispus</i>), Sea-kale (<i>Crambe maritima</i>), Sea-poppy (<i>Glaucium flavum</i>), Sea-campion (<i>Silene uniflora</i>), Sea-beet (<i>Beta vulgaris</i> subsp. <i>maritima</i>), Sea-pea (<i>Lathyrus japonicus</i>), Bristly Ox-tongue (<i>Picris echioides</i>). Shrubby vegetation can form including Broom (<i>Genista tinctoria</i>), Blackthorn (<i>Prunus spinosa</i>) and Gorse (<i>Ulex europaeus</i>) and these should key out here with secondary code 10 or 11 added.	Annex I 1220 – Perennial vegetation of stony banks Strandline/Coastal vegetated shingle Priority Habitat (BH)	B2.4€ (B2.5 if scrub, B2.6 if woodland)	s3b5	
18j	Reed (<i>Phragmites australis</i>) is dominant but with halophytic species such as Sea-purslane (<i>Atriplex portulacoides</i>) in a sparse underlayer	Reedbeds Priority Habitat (Fen, Marsh, Swamp BH)	A2.53D	f2e secondary code 138	S4, S24, S25, S26
18k	Grassland (of various types) with only a few halophytes or patches of halophytes on enclosed land, grazed by livestock. Ditches and drains obvious. Record this secondary code, and go to 23 to continue with key for overlapping habitats.	Coastal and Floodplain Grazing Marsh Priority Habitat		Secondary code 25	
18l	Saline lagoons	Annex I 1150 Saline lagoons	No single fit	t2g5	
19a-c	SEPARATING COASTAL SALTMARSH FROM VERY RARE INLAND EXAMPLES				
19a	Coastal saltmarsh	20			
19b	Inland saltmarsh vegetation around natural springs or old mine workings	Annex I 1340 – Inland salt meadow Saltmarsh Priority Habitat	D6.17	Secondary code 29	SM16,SM23
19c	Saltmarsh vegetation alongside roads	Linear Features BH or Urban BH	No code	Go to Urban Key	
20a-e	COASTAL SALTMARSHES				
20a	Pioneer vegetation of lower saltmarshes made up of open stands of Perennial Glasswort (<i>Sarcocornia perennis</i>), Glasswort (<i>Salicornia</i> spp.), or Annual Sea-blite (<i>Suaeda maritima</i>).	Annex I 1310 - Salicornia and other annuals colonising mud and sand. Saltmarsh Priority Habitat (Littoral sediment BH)	A2.551	t2a5	SM7-9, SM27
20b	Native or rare Cord-grass species (<i>Spartina</i> spp.) on a wide range of substrates, from very soft muds to shingle, in areas sheltered from strong wave action. It can be on the seaward fringes of saltmarshes and creek-sides and may occur on old pans in the upper saltmarsh.	Annex I 1320 - Spartina swards (<i>Spartinion maritimae</i>). Saltmarsh Priority Habitat (Littoral Sediment BH)	Not in Scotland A2.554	t2a6	SM4-6
20c	Common Cord-grass (<i>Spartina anglica</i>) swards that followed invasion of UK in the 20 th Century	Saltmarsh Priority Habitat (Littoral Sediment BH)	A2.554	t2a	

20 COASTAL SALTMARSHES (continued)	Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
20d Saltmarsh unlike 17a or 17b. Vegetation forming the middle and upper reaches of saltmarshes, where tidal inundation still occurs but with decreasing frequency and duration. A wide range of community types is represented and the saltmarshes can cover large areas, especially where there has been little or no enclosure on the landward side. The vegetation varies with climate and the frequency and duration of tidal inundation as well as geographic location. Grazing by domestic livestock is particularly significant in determining the structure and species composition of the habitat type. Note that 17a, b and d are likely to be intermingled and mosaics are likely to be required for mapping.	Annex I 1330 - Atlantic salt meadows (Glauco-Puccinellietalia maritimae) Saltmarsh Priority Habitat (Littoral Sediment BH)	A2.54€ or A2.556	t2a7	SM10-20
20e Halophytic shrubs growing at the base of sea-defences or at higher elevations within the saltmarsh and often the landward slope of saltmarshes or where there is a transition to dunes or shingle. Typically bushes of Shrubby Sea-blite (<i>Suaeda vera</i>) and Sea-purslane (<i>Atriplex portulacoides</i>) comprise the majority of vegetation.	Annex I 1420 - Mediterranean and thermo-Atlantic halophilous scrubs (Sarcocornetea fruticosi) Saltmarsh Priority Habitat (Littoral Sediment BH)	Not in Scotland A2.5273	t2a8	SM25, SM21, SM7

21a-e COASTAL CLIFFS	Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
21a Vegetation on and/or at the top of hard cliffs outside of the line of enclosure or if there is no enclosure line where vegetation ceases to have an obvious maritime influence (lack of halophytic species). NB if dwarf shrubs >25% of vegetation, go to heathland key at 11 for Annex I habitat.	Sub-form “Hard” of Annex I 1230 - Vegetated sea cliffs of the Atlantic and Baltic coasts. Maritime Cliffs and Slopes Priority Habitat (Supra-littoral rock BH)	B3.31€	s2a5	MC1-MC12
21b Vegetation on and/or at the top of soft cliffs with no sign of hard engineering affecting the stability of the slope. Includes vegetation on slumped deposits at the base of cliffs. NB if dwarf shrubs >25% of vegetation, go to heathland key at 10 for Annex I habitat.	Sub-form “Soft Natural” of Annex I 1230 - Vegetated sea cliffs of the Atlantic and Baltic coasts. Maritime Cliffs and Slopes Priority Habitat (Supra-littoral rock BH)	B3.4	s2a6	
21c Vegetation on or at the top of soft cliffs where the cliff is stabilised by hard engineering	“Soft-Modified” cliffs. Maritime Cliffs and Slopes Priority Habitat (Supra-littoral rock BH)	B3.4	s2a6 (secondary code 113)	
21d Vegetation on or at the top of cliffs that are intermediate between hard and soft cliffs with no hard engineering. This includes cliffs with layering of hard and soft sediments and chalk. NB if dwarf shrubs >25% of vegetation, go to heathland key at 11 for Annex I habitat.	Sub-form “Intermediate Natural” of Annex I 1230 - Vegetated sea cliffs of the Atlantic and Baltic coasts. Maritime Cliffs and Slopes Priority Habitat (Supra-littoral rock BH)	B3.31€	s2a5	
21e Vegetation on or at the top of cliffs that are intermediate between hard and soft cliffs with hard engineering. This includes cliffs with layering of hard and soft sediments and chalk. NB if dwarf shrubs >25% of vegetation, go to heathland key at 11 for Annex I habitat.	“Intermediate Modified” cliffs. Maritime Cliffs and Slopes Priority Habitat (Supra-littoral rock BH)	B3.31€	s2a5 (secondary code 113)	

22a-j COASTAL SAND DUNES	Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
22a Low sand dunes at the top of a beach with very sparse vegetation made up predominantly of strandline species such as Sea-rocket (<i>Cakile maritima</i>) and the two salt-tolerant, sand-binding grasses: Lyme-grass (<i>Leymus arenarius</i>) and Sand Couch (<i>Elytrigia juncea</i>).	Annex I 2110 – Embryonic shifting dunes. Sand dune Priority Habitat (Supra-littoral sediment BH)	B1.31 (B1.1 or B1.2 at strandline)	s3a5	SD4 (SD2,SD5)
22b Unstable dunes with Marram (<i>Ammophila arenaria</i>) a prominent feature of the vegetation and is usually dominant	Annex I 2120 – Shifting dunes along the shoreline with <i>Ammophila arenaria</i> (“white dunes”). Sand dune Priority Habitat (Supra-littoral sediment BH).	B1.32	s3a6	SD6
22c Fixed dune vegetation occurring on the largest dune systems, being those that have the width to allow it to develop. It typically occurs inland of the zone dominated by Marram (<i>Ammophila arenaria</i>) on coastal dunes (19b), and represents the vegetation that replaces Marram as the dune stabilises and the organic content of the sand increases. Vegetation is variable but Red Fescue (<i>Festuca rubra</i>) grassland with Lady’s Bedstraw (<i>Galium verum</i>) is common. Often called “grey dunes”.	Annex I 2130 – Fixed dunes with herbaceous vegetation (“grey dunes”). Sand dune Priority Habitat (Supra-littoral sediment BH). Species poor examples are not Annex I	B1.41€ (B1.4x if species poor)	s3a7	SD7, 8, 9a, 9b, 11, 12
22d Fixed dunes with dwarf shrubs. The most characteristic community is dune heath in which Ling (<i>Calluna vulgaris</i>) is present often in combination with Sand Sedge (<i>Carex arenaria</i>) or other dune species. The main species present vary considerably throughout the UK. Bell Heather (<i>Erica cinerea</i>) is abundant in dune heath on west coast sites, but much scarcer in the east, where Ling predominates. Grey Hair-grass (<i>Corynephorus canescens</i>) is a prominent feature of the small number of fixed, decalcified dune systems in eastern England. Plants of acid grassland will occur.	Annex I 2150 – Atlantic decalcified fixed dunes (<i>Calluna – ulicetea</i>). Sand dune Priority Habitat (Supra-littoral sediment BH)	B1.52	s3a9	H1d, 11a, 11c
22e Fixed dunes with Crowberry (<i>Empetrum nigrum</i>) and Ling (<i>Calluna vulgaris</i>) with abundance of each varying. Rare habitat found in north-eastern Scotland. Acid grassland species such as Sand Sedge (<i>Carex arenaria</i>) are likely to occur.	Annex I 2140 – Decalcified fixed dunes with <i>Empetrum nigrum</i> . Sand dune Priority Habitat (Supra-littoral sediment BH)	B1.51	s3a8	H11b
22f Fixed dunes with abundant Sea-Buckthorn (<i>Hippophae rhamnoides</i>) within its natural distribution (Lincolnshire, North Norfolk and Lancashire).	Annex I 2160 – Dunes with <i>Hippophae rhamnoides</i> (Supra-littoral sediment BH)	Not in Scotland B1.611	h3c5	SD18

22a-j COASTAL SAND DUNES (continued)	Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
22g Fixed dunes with Juniper (<i>Juniperus communis</i>)	Annex I 2250 – Coastal dunes with <i>Juniperus communis</i> . Sand dune Priority Habitat (Supra-littoral sediment BH)	B1.63	s3a4	
22h Dunes where Creeping Willow (<i>Salix repens</i> subsp. <i>argentea</i>) is dominant, forming prominent, low scrubby growth. It grows predominantly in and around dune slacks, though on some sites it may spread up the drier ridges. This habitat excludes where the Creeping Willow is in dune slacks and is therefore restricted to the area around the dune slacks. It will rarely be large enough to map as an area feature.	Annex I 2170 - Dunes with <i>Salix repens</i> ssp. <i>argentea</i> (<i>Salicion arenariae</i>). Sand dune Priority Habitat (Supra-littoral sediment BH)	B1.62	s3a or s3a7 secondary code 28	SD16
22i Dunes with scrub other than Sea-Buckthorn (<i>Hippophae</i>) within its natural distribution, Juniper (<i>Juniperus</i>) or Creeping Willow (<i>Salix repens</i>).	Supra-littoral sediment (BH)	B1.61	s3a or s3a7 secondary code 10	
22j Dune slacks are hydrologically linked to the underlying dune water table, are freshwater, and will have seasonal variations in water levels, with some dry in summer. There are a range of slack types reflecting their successional stages. Creeping Willow (<i>Salix repens</i>) often occurs but is not dominant and if in a dune slack, should be included in this habitat and not Annex 1 2170.	Annex I 2190 - Humid dune slacks. Sand dune Priority Habitat (Supra-littoral sediment BH)	B1.8	s3a3	SD13-17

GRASSLANDS, SEDGES, TALL HERB VEGETATION		Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
23a-b	DIVISION BASED ON MANAGEMENT TYPE				
23a	Vegetation disturbed once or at very irregular intervals	24			
23b	Vegetation managed by regular grazing, mowing, burning or other management	27			
24a	Sedges or wetland tall herbs (e.g. <i>Epilobium</i> spp., <i>Filipendula ulmaria</i> , <i>Valeriana</i> , <i>Urtica dioica</i> , <i>Heracleum</i> spp.) frequent to dominant	25			
24b	Wetland tall herbs occasional to absent	26			
25a-d	DIVISION OF SEDGE AND WETLAND TALL HERB COMMUNITIES				
25a	Terrestrial sedge and tall herb vegetation of inundated or waterlogged conditions	Wetland Key - 41			
25b	Fertile, wetland tall herb vegetation with less than 50% grass cover. Characteristic abundant species include Great Willowherb (<i>Epilobium hirsutum</i>), Stinging Nettle (<i>Urtica dioica</i>), Meadowsweet (<i>Filipendula ulmaria</i>), Reed (<i>Phragmites australis</i>), False Oat Grass (<i>Arrhenatherum elatius</i>), Cocksfoot (<i>Dactylis glomerata</i>).	Neutral Grassland (BH)	E5.42 (D4.11 if S25)	g3 secondary code 16	OV26, S25
25c	Ungrazed upland cliff ledges with Great Woodrush (<i>Luzula sylvatica</i>), Wild Angelica (<i>Angelica sylvestris</i>), Roseroot (<i>Sedum rosea</i>), Wood Cranesbill (<i>Geranium sylvaticum</i>), Water Avens (<i>Geum rivale</i>), Globeflower (<i>Trollius europaeus</i>). It can also be found in ghylls and alongside burns (in Scotland) where the watercourse cuts through rock.	Annex I 6430 - Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels. Inland Rock Outcrops and Scree Priority Habitat (Inland Rock BH)	E5.59	s1a9	U17
25d	Banks of tall herbs on acidic rocky banks where grazing is prevented. Differs from 25c in that the vegetation has dominant or abundant Great Woodrush (<i>Luzula sylvatica</i>). Restricted to lowland situations in the mountainous areas of north west England and Scotland.	Acid Grassland (BH)	E5.5x	g1 secondary codes 15 and 156	U16

26	SUCCESSIONAL VEGETATION NOT SUBJECT TO REGULAR MANAGEMENT			
26a	Mid to late-successional relatively unmanaged vegetation consisting entirely of long-lived perennials with little or no open ground. Vegetation with over 50% grass cover. False Oat Grass (<i>Arrhenatherum elatius</i>), Cocksfoot (<i>Dactylis glomerata</i>) and Couch (<i>Elytrigia repens</i>) usually dominate but scattered shrubs and tall herbs may be present particularly along linear features such as road verges, field boundaries, tracksides and ditchbanks. This habitat can occur on abandoned pastures.	Neutral Grassland (BH)	E2.21 (where abandoned farm land = E2.13)	g3c OV23, OV25, OV27, MG1
26b	Early-successional vegetation following a single disturbance or abandonment of open areas (including fields), dominated by annual weeds as well as perennial species usually with some open ground conspicuously present. Actual species composition is dependent upon the starting point. Unsown setaside will usually key out here. Indicators include Annual Meadow Grass (<i>Poa annua</i>), Greater Plantain (<i>Plantago major</i>), Creeping Bent (<i>Agrostis stolonifera</i>), Knotgrass (<i>Polygonum aviculare</i>), Redshank (<i>Persicaria maculosa</i>), Sterile Brome (<i>Anisantha sterilis</i>), Chickweed (<i>Stellaria media</i>), Smooth Sow-thistle (<i>Sonchus olearaceus</i>), Prickly Sow-thistle (<i>Sonchus asper</i>) and a diverse range of arable weeds. Excludes weed assemblages with managed crops present. These key out at 13c.	Arable and Horticultural BH (BH) or Urban (BH) Go to appropriate key	I1.52	c1 or u1a Secondary code 17 OV21-23
26c	Vegetation containing some annual weeds but consisting mainly of long lived perennials including some grasses but <50% cover. Some shrubby species may be present as infrequent juveniles. Species include Stinging Nettle (<i>Urtica dioica</i>), Cleavers (<i>Galium aparine</i>), Rosebay Willowherb (<i>Chamaerion angustifolium</i>), Creeping Thistle (<i>Cirsium arvense</i>), False Oat Grass (<i>Arrhenatherum elatius</i>) and Rough Meadow Grass (<i>Poa trivialis</i>). Includes stands dominated by invasive aliens such as Japanese Knotweed (<i>Reynoutria japonica</i>), Himalayan Balsam (<i>Impatiens glandulifera</i>) and Giant Hogweed (<i>Heracleum mantegazzianum</i>). This habitat can be seen as the successor to 23b and is typical of a lack of management of a formerly disturbed habitat (unlike 23a).	Neutral Grassland (BH)	E5.1 (F9.35 for Invasive non- native Knotweeds)	g3c or u1a Secondary codes 16 and 48 (non- native) OV24
26d	Soft coastal cliffs where there are no halophytes present	21b or c		
26e	Inland sand dunes with shifting sand and high percentage of bare sand, Sand Sedge (<i>Carex arenaria</i>), Grey Hair-grass (<i>Corynephorus canescens</i>) and legumes are likely to be present	Annex I 2330 – Inland dunes with open Corynephorus and Agrostis grasslands	E1.93	g1a5
26f	50-80% cover of grasses (notably Yorkshire Fog <i>Holcus lanatus</i>) on old mine spoil or serpentine soils, with metallophyte species occurring e.g. Spring Sandwort (<i>Minuartia verna</i>), Field Pennycress (<i>Thlapsi arvense</i>), Thrift (<i>Armeria maritima</i>), Sea-campion (<i>Silene uniflora</i>), Alpine Pennycress (<i>Thlapsi caerulea</i>), Alpine Catchfly (<i>Lychnis alpina</i>), Shetland Mouse-ear (<i>Cerastium nigrescens</i>).	Annex I 6130 - Calaminarian grasslands of the Violetalia calaminariae. Calaminarian Grassland Priority Habitat (Inland Rock BH).	E1.B1	s1c5 Not well covered

27a-i	FIRST DIVISION FOR GRASSLANDS UNDER REGULAR MANAGEMENT	Numbered links plus Broad and Priority Habitats	Annex I code	UK Hab Code	NVC units (indicative list only)
27a	Grassland of many types with Mature and/or Ancient trees present (much lower than 25% cover), often in a parkland setting. Record this secondary code and continue key for overlapping habitats.	Wood-pasture and Parkland Priority Habitat	X09	Secondary code 20	
27b	Grassland of many types with obvious structures for draining the land i.e. ditches, grips, drains in a flat landscape by the coast or on the floodplains of rivers. Record this secondary code and continue key for overlapping habitats.	Coastal and Floodplain Grazing Marsh Priority Habitat	Can be E2.12	Secondary code 25	
27c	Grassland of many types but normally on neutral soils with old fruit trees in an orchard record this secondary code and continue key for overlapping habitats	Old Orchards PH	G1D4x1	Secondary code 21	
27d	Vegetation usually dominated by palatable grasses with a rich or poor suite of accompanying herbs that indicate neutral, dry or damp soils. Calcareous or acid indicator species infrequent, rare or absent. Neutral indicators include White Clover (<i>Trifolium repens</i>), Rye Grass (<i>Lolium perenne</i>), Chickweed (<i>Stellaria media</i>), Crested Dog's-tail (<i>Cynosurus cristatus</i>), Red Clover (<i>Trifolium pratense</i>), Black Knapweed (<i>Centurea nigra</i>), Bird's Foot Trefoil (<i>Lotus corniculatus</i>), Common Mouse-ear (<i>Cerastium fontanum</i>), Sorrel (<i>Rumex acetosa</i>), Creeping Buttercup (<i>Ranunculus repens</i>), Hard Rush (<i>Juncus inflexus</i>), Soft Rush (<i>Juncus effusus</i>), Blinks (<i>Montia Fontana</i>), Floating Sweet-grass (<i>Glyceria fluitans</i>), Rough Meadow Grass (<i>Poa trivialis</i>), Creeping Bent (<i>Agrostis stolonifera</i>), Toad Rush (<i>Juncus bufonius</i>) and Marsh Foxtail (<i>Alopecurus geniculatus</i>).	28			
27e	Calcareous indicators present (see postscript 2 for Ellenberg Reactivity (pH) values of UK species). On dry ground examples include: Lady's Bedstraw (<i>Galium verum</i>), Quaking Grass (<i>Briza media</i>), Carlina Thistle (<i>Carlina vulgaris</i>), Stemless Thistle (<i>Cirsium acuale</i>), Salad Burnet (<i>Sanguisorba minor</i>), Blue Moor-grass (<i>Sesleria caerulea</i>), Rock-rose (<i>Helianthemum nummularium</i>), Meadow Thistle (<i>Cirsium dissectum</i>), Flea Sedge (<i>Carex pulicaris</i>), Glaucous Sedge (<i>C.flacca</i>), Carnation Sedge (<i>C.panicea</i>), Broad-leaved Cottongrass (<i>Eriophorum latifolium</i>), Fragrant Orchid (<i>Gymnadenia conopsea</i>). In swampy ground Bottle Sedge (<i>Carex rostrata</i>), Dioecious Sedge (<i>C.dioica</i>), Black Bog Rush (<i>Schoenus nigricans</i>). In montane areas Mountain Avens (<i>Dryas octopetala</i>) is typical. In mires the mosses <i>Callergionella cuspidata</i> , <i>Campylium stellatum</i> , <i>Scorpidium scorpioides</i> and others (Atherton <i>et al.</i> p828) are likely to be present.	31			
27f	Grassland on obviously calcareous soils that does not include any of the indicators above, but has Red Fescue (<i>Festuca rubra</i>) or Upright Brome (<i>Bromopsis erecta</i>) and other light grass species, and with almost no herb species.	Calcareous Grassland (non-PHT)	E1.2	g2	
27g	Acid indicators present, including a large range of acid grassland, moorland, heath and peatland species. Most common species are: Wavy hair-grass (<i>Deschampsia flexuosa</i>), Common Bent (<i>Agrostis capillaris</i>), Bristle Bent (<i>Agrostis curtisii</i>), Sweet Vernal Grass (<i>Anthoxanthum odoratum</i>), Sheep's Fescue (<i>Festuca ovina</i>), Matgrass (<i>Nardus stricta</i>), Heath Bedstraw (<i>Galium saxatile</i>), Tormentil (<i>Potentilla erecta</i>), Sheep's Sorrel (<i>Rumex acetosella</i>), Purple Moor Grass (<i>Mollinia caerulea</i>), Heath Rush (<i>Juncus squarrosus</i>). Ellenberg Reactivity (pH) values for UK species are given in postscript 2 (or for a short list of bryophytes see Atherton p827).	32			

FIRST DIVISION FOR GRASSLANDS UNDER REGULAR MANAGEMENT		Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
27h	Halophytic species (Ellenberg salt values >0 – see postscript 1) in inland situations	19			
27i	Metallophytes present e.g. Spring Sandwort (<i>Minuartia verna</i>), Field Pennycress (<i>Thlapsi arvense</i>), Thrift (<i>Armeria maritima</i>), Sea-campion (<i>Silene uniflora</i>), Alpine Pennycress (<i>Thlapsi caerulea</i>), Alpine Catchfly (<i>Lychnis alpina</i>), Shetland Mouse-ear (<i>Cerastium nigrescens</i>)	Back to 26f			
28a-d	DIVISION OF PRIORITY HABITAT NEUTRAL GRASSLANDS FROM NEUTRAL AND IMPROVED GRASSLANDS				
28a	Productive grasses and White Clover (<i>Trifolium repens</i>) usually (see below) predominate mainly Rye Grasses (<i>Lolium</i>), Timothy (<i>Phleum</i>), Cocksfoot (<i>Dactylis glomerata</i>), Yorkshire Fog (<i>Holcus lanatus</i>), False Oat Grass (<i>Arrhenatherum elatius</i>) and the larger Fescues (<i>Festuca</i> spp.). Common Bent (<i>Agrostis capillaris</i>), Crested Dog's-tail (<i>Cynosurus cristatus</i>) and Sweet Vernal Grass (<i>Anthoxanthum odoratum</i>) may be present at the less fertile end of the gradient. In wet grasslands Soft Rush (<i>Juncus effusus</i>), Tufted Hair-grass (<i>Deschampsia cespitosa</i>), Floating Sweet Grass (<i>Glyceria fluitans</i>), Marsh Foxtail (<i>Alopecurus geniculatus</i>) and Tall Fescue (<i>Festuca arundinacea</i>) may be abundant. Varies from pure grass to moderately species rich grassland but hay meadow Priority Habitat indicators are always rare or absent. Some fields may be dominated by Buttercup (<i>Ranunculus</i> spp.) and/or White Clover (<i>Trifolium repens</i>).	29			
28b	Cover of Rye grass (<i>Lolium perenne</i>), White Clover (<i>Trifolium repens</i>) and sown Red Clover (<i>T. pratense</i>) usually less than 10% cover. Typically rich in forb species (>15 m ⁻²) with frequent Priority Habitat lowland meadow indicators including: Meadow Vetchling (<i>Lathyrus pratensis</i>), Bird's-foot Trefoil (<i>Lotus corniculatus</i>), Ox-eye Daisy (<i>Leucanthemum vulgare</i>), Lady's Bedstraw (<i>Galium verum</i>), Cowslip (<i>Primula veris</i>), Black Knapweed (<i>Centaurea nigra</i>), Rough Hawkbit (<i>Leontodon hispidus</i>), Bulbous Buttercup (<i>Ranunculus bulbosus</i>) or on flood meadows some of Marsh-marigold (<i>Caltha palustris</i>), Great Burnet (<i>Sanguisorba officinalis</i>), Meadowsweet (<i>Filipendula ulmaria</i>) and Meadow Foxtail (<i>Alopecurus pratensis</i>). Note that vegetation dominated by <i>F. ulmaria</i> keys out at 22e.	Annex I 6510 – Lowland hay meadows (<i>Alopecurus pratensis</i> – <i>Sanguisorba officinalis</i>). Lowland hay meadows Priority Habitat (Neutral Grassland BH)	E2.212	g3a5	MG4, MG5, MG8
28c	Cover of grass species and clover usually less than 50% cover with a high proportion of Priority Habitat upland meadow indicators such as Wood Cranesbill (<i>Geranium sylvaticum</i>), Lady's Mantles (<i>Alchemilla</i> spp.), Yellow Oat Grass (<i>Trisetum flavescens</i>), Pignut (<i>Conopodium majus</i>) and Sweet Vernal Grass (<i>Anthoxanthum odoratum</i>) or Globeflower (<i>Trollius europaeus</i>) and Northern Hawksbeard (<i>Crepis mollis</i>)	Annex 6520 – Mountain Hay Meadows. Upland hay meadows Priority Habitat (Neutral Grassland BH)	E2.242	g3b5	MG3, MG8 (upland form)
28d	Neutral flushes typically marking enriched springlines and water seepage zones in lowland or upland situations. Acidic and calcareous indicators are absent or rare. Characteristic species include Creeping Bent (<i>Agrostis stolonifera</i>), Calliergonella cuspidata, Greater Bird's-foot trefoil (<i>Lotus pedunculatus</i>), Blinks (<i>Montia Fontana</i>), Marsh Foxtail (<i>Alopecurus geniculatus</i>), Jointed Rush (<i>Juncus articulatus</i>), Toadrush (<i>J. bufonius</i>), Floating Sweet Grass (<i>Glyceria fluitans</i>), Meadow Buttercup (<i>Ranunculus acris</i>).	Fen, Marsh, Swamp Broad Habitat (BH)	D5.3?	f2 (secondary codes 182, 183 or 185 are possible)	

29a-b	DIVISION OF NEUTRAL AND IMPROVED GRASSLANDS	Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
29a	Palatable grasses dominate mainly Rye grasses (<i>Lolium</i> spp.), Timothy (<i>Phleum pratense</i>), Cocksfoot (<i>Dactylis glomerata</i>), Crested Dog's-tail (<i>Cynosurus cristatus</i>), Yorkshire Fog (<i>Holcus lanatus</i>). Grass cover usually over 75%. Broadleaved species restricted mainly to White Clover (<i>Trifolium repens</i>), Creeping Buttercup (<i>Ranunculus repens</i>), Greater Plantain (<i>Plantago major</i>), Dandelion (<i>Taraxacum</i>), Broad-leaved Dock (<i>Rumex obtusifolius</i>) and Chickweed (<i>Stellaria media</i>). Fertile but wetter situations may support occasional Soft Rush (<i>Juncus effusus</i>) or Hard Rush (<i>J.inflexus</i>), Floating Sweet Grass (<i>Glyceria fluitans</i>), Creeping Bent (<i>Agrostis stolonifera</i>) and Rough Meadow Grass (<i>Poa trivialis</i>), but accompanying species will always indicate high fertility. Species poor <9 species m ⁻² .	Improved Grassland (BH)	E2.6	g4	MG6, MG7
29b	Palatable grasses predominate, usually Rye Grasses (<i>Lolium</i> spp.), White Clover (<i>Trifolium repens</i>) and Timothy (<i>Phleum pratense</i>) 40% or below and other grasses more prominent such as Crested Dog's-tail (<i>Cynosurus</i>), Common Bent (<i>Agrostis capillaris</i>), Yellow Oat Grass (<i>Trisetum flavescens</i>), Soft Brome (<i>Bromus hordeaceus</i>) and Sweet Vernal Grass (<i>Anthoxanthum odoratum</i>). Semi-improved but wetter situations may support abundant Soft Rush (<i>Juncus effusus</i>) or Hard Rush (<i>J.inflexus</i>), Floating Sweet Grass (<i>Glyceria fluitans</i>), Creeping Bent (<i>Agrostis stolonifera</i>) and Rough Meadow Grass (<i>Poa trivialis</i>). Total grass cover usually between 50 and 75%. Forbs up to 50% cover and associated with less fertile soil e.g. Ribwort Plantain (<i>Plantago lanceolata</i>), Sorrel (<i>Rumex acetosa</i>), Meadow Buttercup (<i>Ranunculus acris</i>), Creeping Buttercup (<i>R.repens</i>), Self-heal (<i>Prunella vulgaris</i>), Yarrow (<i>Achillea millefolium</i>), Silverweed (<i>Potentilla anserina</i>), Meadow Thistle (<i>Cirsium palustre</i>) and Lady's smock (<i>Cardamine pratensis</i>). However, indicators of the two hay meadow Priority Habitats will be rare or absent.	30			
29c	False Oat Grass (<i>Arrhenatherum elatius</i>) abundant. Total grass cover usually between 50 and 75%. Forbs up to 50% cover and associated with less fertile soil e.g. Ribwort Plantain (<i>Plantago lanceolata</i>), Sorrel (<i>Rumex acetosa</i>), Meadow Buttercup (<i>Ranunculus acris</i>), Creeping Buttercup (<i>R.repens</i>), Self-heal (<i>Prunella vulgaris</i>), Yarrow (<i>Achillea millefolium</i>), Silverweed (<i>Potentilla anserina</i>). Often associated with formerly disturbed sites, road verges etc.	Neutral Grassland	E2.2	g3c5	
30a-e	OTHER NEUTRAL GRASSLANDS				
30a	Recently sown mixtures of light grasses for agri-environment schemes or habitat creation/restoration such as Sweet Vernal Grass (<i>Anthoxanthum odoratum</i>), Smooth Meadow Grass (<i>Poa pratensis</i>), Red Fescue (<i>Festuca rubra</i>), Crested Dog's-tail (<i>Cynosurus cristatus</i>) and Yellow Oat Grass (<i>Trisetum flavescens</i>). Grass cover 50-100%. Herb species rare or absent. Often on sown field margins.	Arable Field Margins Priority Habitat (if on margin). (Neutral Grassland BH)	No code	c1a5 or g3	
30b	As above but with high cover of sown mixtures of legumes such as Red Clover (<i>Trifolium pratense</i>), Alsike Clover (<i>T.hybridum</i>) and Bird's-foot Trefoil (<i>Lotus corniculatus</i>). Often on sown field margins.	Arable Field Margins Priority Habitat (if on margin). (Neutral Grassland BH)	No Code	c1a6 or g3	
30c	Wet meadows with frequent to dominant cover of rushes but not waterlogged (see wetland key) nor species rich (see 31a) often with Yorkshire Fog (<i>Holcus lanatus</i>)	Neutral Grassland (BH)	E3.4131	g3c8 secondary code 14 15	M22,M23b, MG8

OTHER NEUTRAL GRASSLANDS (continued)		Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units
30d	Meadows with abundant Tufted HairGrass aka Hassock (<i>Deschampsia cespitosa</i>) and Yorkshire Fog (<i>Holcus lanatus</i>)	Neutral Grassland (BH)	E3.4131	g3c7	MG9
30e	Description as 29b but not one of 30a-d. Moderate number of species (9-15 m ⁻²). Rye Grass (<i>Lolium perenne</i>) and Crested Dog's-tail (<i>Cynosurus cristatus</i>) are often abundant.	Neutral Grassland (BH)	E2.112	g3c6	MG6, MG9-13
31a-f	CALCAREOUS GRASSLANDS				
31a	Vegetation on dry ground with scattered sedges and many species indicative of calcareous soils present. Can be relatively species poor (CG4) but more often species rich with >50% forb cover. On calcareous soils, usually rendzinas on chalk or limestone in lowland Britain. Indicators include Upright Brome (<i>Bromopsis erecta</i>), Tor-grass (<i>Brachypodium pinnatum</i>), Fairy Flax (<i>Linum catharticum</i>), Salad Burnet (<i>Sanguisorba minor</i>), Carline Thistle (<i>Carlina vulgaris</i>), Stemless Thistle (<i>Cirsium acaule</i>), Horseshoe Vetch (<i>Hippocrepis comosa</i>) and Squinancywort (<i>Asperula cynanchica</i>), Dropwort (<i>Filipendula vulgaris</i>), Lady's Bedstraw (<i>Galium verum</i>), Quaking Grass (<i>Briza media</i>), Crested Hair-grass (<i>Koeleria macrantha</i>) and Rockrose (<i>Helianthemum nummularium</i>).	Annex I 6210 - Semi-natural dry grasslands and scrubland facies: on calcareous substrates (Festuco-Brometalia). Lowland Calcareous Grassland Priority Habitat (Calcareous Grassland BH)	E1.26	g2a5	CG1-CG7,CG10
31b	As 31a but often low in species richness. Often dominated by Blue Moor-grass (<i>Sesleria caerulea</i>) with Sheep's Fescue (<i>Festuca ovina</i>), Thyme (<i>Thymus polytrichus</i>), Limestone Bedstraw (<i>Galium sternerii</i>) and Common Bent (<i>Agrostis capillaris</i>) characteristic. Stands may comprise a confusing mix of species indicative of acidic and calcareous conditions. Arctic-Alpine species absent or very rare.	Annex I 6210 - Semi-natural dry grasslands and scrubland facies: on calcareous substrates (Festuco-Brometalia). Upland Calcareous Grassland Priority Habitat (Calcareous Grassland BH)	E1.26	g2b7	CG8,CG9
31c	As above (31a and 31b) but with Juniper (<i>Juniperus communis</i>) present at <30% cover.	Annex I 5130 - Juniperus communis formations on heaths or calcareous grasslands. Lowland Calcareous Grassland Priority Habitat.	F3.16#1	g2a5 or g2b7 secondary code 22	
31d	Arctic-Alpine plants, such as Alpine Lady's-mantle (<i>Alchemilla alpina</i>), Alpine Bistort (<i>Persicaria vivipara</i>) and Moss Champion (<i>Silene acaulis</i>). Mountain Avens (<i>Dryas octopetala</i>) forming grass/sedge 'heath' where conditions are harsh either at sea-level (in north west of Scotland) or high altitudes. Rare species include Scottish Primrose (<i>Primula scotica</i>).	Annex I 6170 – Alpine and sub-alpine calcareous grasslands. Upland Calcareous Grassland Priority Habitat (Calcareous Grassland BH)	E4.12€	g2b5	CG11-CG14
31e	Localised areas of vegetation, often visibly associated with seepage zones where water movement is vertical (topogenous mires) or lateral (soligenous mires). Usually with several sedge species and species of wet calcareous soils, springs and flushes including many bryophytes (see note on page 2 for Transition Fens/Alkaline Fens.	Wetland key section - 50			
31f	If not 31a-31e move on or consider 30e	32			

32a-d FIRST DIVISION OF ACID GRASSLANDS SPLITTING OFF PMGRP	Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
32a Rush or/and Purple Moor-grass (<i>Molinia caerulea</i>) dominated vegetation usually on peaty-gley soils with Sharp-flowered Rush (<i>Juncus acutiflorus</i>) or Soft Rush (<i>Juncus effusus</i>) abundant to dominant. Indicators of rich fen are absent. Instead a few of the following typical species will be present: Marsh Bedstraw (<i>Galium palustre</i>), Marsh Thistle (<i>Cirsium palustre</i>), Lesser Spearwort (<i>Ranunculus flammula</i>), Velvet Bent (<i>Agrostis canina</i>), Water Mint (<i>Mentha aquatic</i>), Sneezewort (<i>Achillea ptarmica</i>), Marsh Horsetail (<i>Equisetum palustre</i>), Lady's Smock (<i>Cardamine pratensis</i>), Marsh Willowherb (<i>Epilobium palustre</i>) and Wild Angelica (<i>Angelica sylvestris</i>). <i>Sphagnum</i> absent.	Purple Moor Grass and Rush Pastures Priority Habitat (BH Fen, Marsh, Swamp)	E3.51	f2b	M23,M25, (species poor M24 M26)
32b As 32a but species rich with, Devil's-bit Scabious (<i>Succisa pratensis</i>), Wavy St John's-Wort (<i>Hypericum undulatum</i>)	Annex I 6410 - Molinia meadows on calcareous, peaty or clayey-silt-laden soils (Molinion caeruleae). Purple Moor Grass and Rush Pastures Priority Habitat (Fen, Marsh, Swamp BH)	E3.511	f2b5	M24, M26
32c Rush or/and Purple Moor-grass (<i>Molinia caerulea</i>) dominated vegetation usually on peaty-gley soils with Sharp-flowered Rush (<i>Juncus acutiflorus</i>) or Soft Rush (<i>Juncus effusus</i>) abundant to dominant. Heather (<i>Calluna vulgaris</i>) may also be present but <25%. Very few of the indicators in 32a will be present.	Acid Grassland (BH)	F4.13	g1, secondary code 14 or 15	M25 (M23-M26)
32d Not as above	33			
33a-d SECOND DIVISION OF ACID GRASSLANDS, SPLITTING OFF FLUSHES AND SWAMPS				
33a Localised narrow (often <5m necessary for mapping a polygon) wet areas of vegetation or obvious flushing. Vegetation usually dominated by species indicative of acid conditions e.g. Sphagnum spp, Rushes (<i>Juncus effusus/articulatus/acutiflorus</i>), Star Sedge (<i>Carex echinata</i>), Lesser Spearwort (<i>Ranunculus flammula</i>), Bog Chickweed (<i>Stellaria uliginosa</i>), Bottle Sedge (<i>Carex rostrata</i>), Common Sedge (<i>Carex nigra</i>), Common Cotton-grass (<i>Eriophorum angustifolium</i>), Bog Asphodel (<i>Narthecium ossifragum</i>), Purple Moor Grass (<i>Molinia caerulea</i>). Often bryophyte rich.	Wetland key 49c			
33b As 33a but with intimate mixtures of species considered to be indicative of acidic conditions and others thought of as indicative of alkaline conditions (see note on page 2 for list of species for NVCs M4, M5, M8, M9, S27).	Wetland key 50h			
33c Vegetation with many acid indicators (see postscript 2 for Ellenberg Reactivity (pH) scores for UK species). Not associated with clearly defined flushes and depressions but characterising larger, more extensive drier or wetter ground. Hence, all bogs with low cover of dwarf shrub heaths plus upland and lowland acid grasslands key out here.	34			
33d Low cover of vegetation with abundant Beak Sedge (<i>Rhynchospora</i>) species and algae. Bare peat is often visible, located next to pools and in depressions on wetland heaths and bogs.	Annex I 7150 - Depressions on peat substrates of the Rhynchosporion (overlaps with heat and bog PHTs)	D2.37	f2 secondary code 24	

34a-c	THIRD DIVISION OF ACID GRASSLANDS, SPLITTING OFF ALPINE FROM PEATLAND AND NON-PEATLAND	Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
34a	Sub-arctic indicators present, for example prostrate Dwarf Willow (<i>Salix herbacea</i>) and Ling (<i>Calluna vulgaris</i>), Three-leaved Rush (<i>Juncus trifidus</i>), Stiff Sedge (<i>Carex bigelowii</i>), Mountain Bearberry (<i>Arctostaphylos alpinus</i>), Trailing Azalea (<i>Loiseleuria procumbens</i>), Juniper (<i>Juniperus communis</i> ssp. <i>nana</i>), Crowberry (<i>Empetrum nigrum</i> ssp. <i>hermaphroditum</i>) and <i>Racomitrium lanuginosum</i> . Includes montane, snowbed and sub-arctic sedge and rush communities on raw thin podzols, rankers and semi-skeletal soils.	Annex I 6150 – Siliceous alpine and boreal grassland. Montane heaths and willow scrub Priority Habitat. (Montane BH)	E4.32€	g1b5	U7-12, U14-15, H13-15, H17, H19, H20, H22, W20
34b	Cover of peatland species over 25%. Indicators include Deergrass (<i>Trichophorum</i> spp), Purple Moor-grass (<i>Molinia caerulea</i>), Sphagnum, Cottongrass (<i>Eriophorum</i> spp), Heath Rush (<i>Juncus squarrosus</i>) and Bog-myrtle (<i>Myrica gale</i>). Usually on deep-peats or wet peaty rankers. Soft Rush (<i>Juncus effusus</i>) and Sharp-flowered Rush (<i>J. acutiflorus</i>) scarce or absent.	35			
34c	Peatland species under 25% on variable acid soil types including sandy soils. Soft Rush (<i>Juncus effusus</i>), Compact Rush (<i>J. conglomeratus</i>) and Sharp-flowered Rush (<i>J. acutiflorus</i>) can be abundant.	37			
35a-d	FOURTH DIVISION OF ACID GRASSLANDS , SPLITTING BLANKET BOG FROM OTHER PEATLAND ACID GRASSLANDS				
35a	Upland peat >0.5m (where this can be determined) carpeting undulating usually in hilly or mountainous areas. Scattered to dominant Cotton-grass (<i>Eriophorum vaginatum</i>) often with Sphagnum spp and/or Cloudberry (<i>Rubus chamaemorus</i>).	Annex I 7130 – Blanket bogs. Blanket bog Priority Habitat (Bog BH)	D1.2	f1a5	M1-M3, M17-M20, (on deep peat H9, H12, M15-16, M25)
35b	As 34a but with scattered trees of Birch (mostly <i>Betula pubescens</i>) but does not include where trees are present because the bog has dried out	Annex I 91D0 – Bog Woodland. Blanket bog Priority Habitat (Bog BH)	G3.D1€	w1d6	
35c	Vegetation dominated by a mixture of other peatland species e.g. Deergrass (<i>Trichophorum</i> spp.), Purple Moor-grass (<i>Molinia caerulea</i>), Sphagnum, small sedges, Bog-myrtle (<i>Myrica gale</i>) and dwarf shrubs	36			
35d	Peat <0.5m deep, often dominated by Purple Moor Grass (<i>Mollinia caerulea</i>) in upland situations	Acid Grass (BH)	E3.512 or E3.52	g1b6	

36a-b	FIFTH DIVISION OF ACID GRASSLANDS = RETURN CATCH FOR DWARF SHRUB HEATH FOUND WITH ACID GRASSLAND IN LOWLAND SITUATIONS	Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
36a	Sub-arctic indicators not present. Dwarf shrubs e.g. Heathers (<i>Calluna vulgaris</i> , <i>Erica</i> spp.), usually on podzolic soils but also on brown podzolics, shallow peats, rankers and gleys present at >25%.	10			
36b	Peatland species predominate e.g. Deergrass (<i>Trichophorum</i>), Common Cotton-grass (<i>Eriophorum angustifolium</i>), Sphagnum spp, Cranberry (<i>Vaccinium oxycoccus</i>) and Bog-rosemary (<i>Andromeda polifolia</i>). Often in lowland areas in unimproved/unafforested areas of flood plains. All lowland bog elements that appear to have a groundwater or riverine source to their water table should, depending on their species composition, key out as flushes (41). Purely rainfed bog systems should key out here. This separation may be difficult. A good indicator is the location of the bog on level ground with a gently domed structure (peat often >0.5m in depth) and an absence of species indicative of calcareous or neutral conditions.	Annex I 7110 – Active raised bog. Lowland raised bog Priority Habitat (Bog BH). If damaged by peat cutting etc Annex I 7120 – Degraded raised bog capable of natural regeneration	D1.11	f1b5	M1-M4, M17-M20
			D1.12	f1b6	
37a-g	SIXTH DIVISION OF ACID GRASSLANDS, SPLITTING 'TRUE' GRASSLANDS				
37a	Fine grasses predominate in generally in dry situations e.g. Bristle-bent (<i>Agrostis curtisii</i>), Sheep's Fescue (<i>Festuca ovina</i>) and Sweet Vernal Grass (<i>Anthoxanthum odoratum</i>) usually on brown podzolic soils or rankers. Acid indicators present e.g. Heath Bedstraw (<i>Galium saxatile</i>), Tormentil (<i>Potentilla erecta</i>), Red-stemmed feathermoss (<i>Pleurozium schreberi</i>) and Sheep's Sorrel (<i>Rumex acetosella</i>). Lowlands.	Acid Grassland (BH)	E1.72X	g1a	U2
37b	As 37a but where Wavy Hair-grass (<i>Deschampsia flexuosa</i>) is dominant. Lowlands.	Acid Grassland (BH)	E1.73	g1a	U4
37c	Coarse grasses predominate generally in upland wet situations e.g. Mat Grass (<i>Nardus stricta</i>), Purple Moor-grass (<i>Molinia caerulea</i>), Wavy Hair-grass (<i>Deschampsia flexuosa</i>) and Heath rush (<i>Juncus squarrosus</i>) usually on peaty-gley soils. Includes species poor Purple Moor-grass dominated upland bog slopes and flushes, and the laggs around lowland raised bogs.	Moorland grass (Acid Grassland BH)	E3.52	g1b6	U6, U7, U13
37d	Drier upland situations with species similar to 37c rather than 37a	Moorland grass (Acid Grassland BH)	E1.71	g1b6	U5
37e	Swamp-grassland with dominant Soft Rush (<i>Juncus effusus</i>), grass species vary but Yorkshire Fog (<i>Holcus lanatus</i>), Purple Moor-grass (<i>Mollinia caerulea</i>), Cocksfoot (<i>Dactylis glomerata</i>), and Bents (<i>Agrostis</i> spp.) are all possible co-species	Acid Grassland BH (sometimes BH Neutral Grassland BH)	D5.3	g1a (rarely g3) secondary codes 14 or 15	M23

37a-g	SIXTH DIVISION OF ACID GRASSLANDS, SPLITTING 'TRUE' GRASSLANDS	Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
37f	Grassland that can include a high proportion of bare ground or with a high proportion of <i>Cladonia</i> spp. and small annuals such as Spring Sandwort (<i>Erophila verna</i>), Parsley-piert (<i>Aphanes arvensis</i>) and early Forget-me-not (<i>Myosotis ramosissima</i>). Found on nutrient poor sandy soils or shingle in the lowlands below around 300m (see guidance notes). Typical species are Sheep's Fescue (<i>Festuca ovina</i>), Heath Bedstraw (<i>Galium saxatile</i>), Biting Stonecrop (<i>Sedum acre</i>), Sheep's Sorrel (<i>Rumex acetosella</i>), Common Bent (<i>A. capillaris</i>) and Tormentil (<i>Potentilla erecta</i>). Also includes lowland stands dominated by Bristle-bent (<i>Agrostis curtisii</i>) and Wavy Hair-grass (<i>Deschampsia flexuosa</i>). Sand Sedge (<i>Carex arenaria</i>) locally present but only on inland stands. Annual grasses such as Early Hair-grass (<i>Aira praecox</i>) and <i>Vulpia ciliata</i> subsp. <i>ambigua</i> (Bearded Fescue) can be distinctive in east Anglia	Lowland Dry Acid grassland Priority Habitat (BH Acid grassland)	E1.91, E1.92	g1a6	U1-U3, SD10b, SD11b
37g	Dry, herb-rich heavily grazed (typically) in uplands with Mat Grass (<i>Nardus stricta</i>), Common Bent (<i>Agrostis capillaris</i>), Sheep's Fescue (<i>Festuca ovina</i>), Red Fescue (<i>Festuca rubra</i>), Sweet Vernal Grass (<i>Anthoxanthum odoratum</i>), Heath Grass (<i>Danthonia decumbens</i>). Heath Bedstraw (<i>Galium saxatile</i>) and Tormentil (<i>Potentilla erecta</i>) will be obvious. On siliceous rocks.	Annex I 6230 - Species-rich Nardus grassland, on siliceous substrates in mountain areas (and submountain areas in continental Europe). (BH Acid Grassland)	E1.72#	g2b6	CG10, CG11 – but not good fit

ROCKY HABITATS (Sparsely Vegetated Land)		Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
38a-e	FIRST DIVISION OF INLAND ROCKY HABITATS				
38a	Limestone, with clints and grikes	Annex I 8240 – Limestone pavements. Limestone Pavement Priority Habitat (Inland Rock BH)	H3.511€	s1b5	
38b	Mine spoil or metalliferous river gravels or serpentine rocks, species include Spring Sandwort (<i>Minuartia verna</i>), Field Pennycress (<i>Thlapsi arvense</i>), Thrift (<i>Armeria maritima</i>), Sea-campion (<i>Silene uniflora</i>), Alpine Pennycress (<i>Thlapsi caerulescens</i>), Alpine Catchfly (<i>Lychnis alpina</i>), Shetland Mouse-ear (<i>Cerastium nigrescens</i>).	Annex I 6130 and Calaminarian Grassland Priority Habitat (Inland Rock BH)	E1.B1	s1c5	
38c	Not limestone with clints and grikes nor metalliferous rocks. Solid rock outcrops or screes. Includes species such as Parsley Fern (<i>Cryptogamma crispa</i>), Brittle Bladder Fern (<i>Cystopteris fragilis</i>), Limestone Fern (<i>Gymnocarpium robertianum</i>) and Maidenhair Spleenwort (<i>Asplenium trichomanes</i>).	39			
38d	Rocky ungrazed ledges at high altitude with one or more of Downy Willow (<i>Salix lapponum</i>), Whortle-Leaved Willow (<i>S. myrsinites</i>), Mountain Willow (<i>S. arbuscula</i>) and Woolly Willow (<i>S. lanata</i>). Associated arctic-alpine and northern willows include Net-leaved Willow (<i>S. reticulata</i>), Dark-leaved Willow (<i>S. myrsinifolia</i>) and Tea-leaved Willow (<i>S. phyllicifolia</i>).	Annex I 4080 - Sub-Arctic Salix spp. scrub	F2.1#	h1c6	W20
38e	Inland sand dunes with shifting sand and high percentage of bare sand, Sand Sedge (<i>Carex arenaria</i>), Grey Hair-grass (<i>Corynephorus canescens</i>) and legumes are likely to be present.	Annex I 2330 – Inland dunes with open Corynephorus and Agrostis grasslands	E1.93	g1a5	

39a-f	SECOND DIVISION OF INLAND ROCKY HABITATS, SPLITTING UP SCREES AND ROCKY SLOPES	Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
39a	Siliceous screes at high altitude with pioneer species, rich in ferns e.g. Parsley Fern (<i>Cryptogramma crispa</i>), species requiring a humid microclimate such as Wilson's Filmy-fern (<i>Hymenophyllum wilsonii</i>), and species sensitive to grazing such as Stone Bramble (<i>Rubus saxatilis</i>)	Annex I 8110 - Siliceous scree of the montane to snow levels (Androsacetalia alpinae and Galeopsietalia ladani). Inland rock and scree habitats Priority Habitat (Inland Rock BH)	H2.31€	s1a5	U18, U21
39b	Calcareous and calcshist screes consisting of base-rich rocks including limestone, calcareous-schists and the more basic igneous rocks, such as serpentine and basalt. Characteristic species at high altitude include Purple Saxifrage (<i>Saxifraga oppositifolia</i>), Holly-fern (<i>Polystichum lonchitis</i>) and Alpine Meadow-grass (<i>Poa alpina</i>), while at lower altitude Limestone Fern (<i>Gymnocarpium robertianum</i>), Herb-robert (<i>Geranium robertianum</i>) and Wall Lettuce (<i>Mycelis muralis</i>) are more usual.	Annex I 8120 - Calcareous and calcshist screes of the montane to alpine levels (Thlaspietea rotundifolii). Inland rock and scree habitats Priority Habitat (Inland Rock BH)	H2.4€	s1a6	OV38, OV40
39c	Calcareous and calcshist rocks and cliffs inland. The vegetation is characterised by bryophytes such as Frizzled Crisp-moss (<i>Tortella tortuosa</i>), Summer-moss (<i>Anoetangium aestivum</i>) and Chalk Comb-moss (<i>Ctenidium molluscum</i>). Associated vascular plants include Brittle Bladder-fern (<i>Cystopteris fragilis</i>), Green Spleenwort (<i>Asplenium viride</i>) and Glaucous Meadow-grass (<i>Poa glauca</i>).	Annex I 8210 - Calcareous rocky slopes with chasmophytic vegetation. Inland rock and scree habitats Priority Habitat (Inland Rock BH)	H3.25	s1a7	Poor fit
39d	Siliceous rocks and cliffs inland. The habitat type typically comprises mixtures of bryophytes, such as Mougeot's Yoke-moss (<i>Amphidium mougeotii</i>) medium to large mosses (<i>Racomitrium</i> spp.), and vascular plants, such as Wavy Hair-grass (<i>Deschampsia flexuosa</i>) and Fir Clubmoss (<i>Huperzia selago</i>).	Annex I 8220 - Siliceous rocky slopes with chasmophytic vegetation. Inland rock and scree habitats Priority Habitat (Inland Rock BH)	H3.1#	s1a8	Poor fit
39e	Bands of 38c and 38d occurring together	Record both Annex I 8210 and Annex I 8220		s1a7 and s1a8	
	NB 39f is on the next page				

39f	Ungrazed upland cliff ledges with Great Woodrush (<i>Luzula sylvatica</i>), Wild Angelica (<i>Angelica sylvestris</i>), Roseroot (<i>Sedum rosea</i>), Wood Cranesbill (<i>Geranium sylvaticum</i>), Water Avens (<i>Geum rivale</i>), Globeflower (<i>Trollius europaeus</i>). It can also be found in ghylls and alongside burns (in Scotland) where the watercourse cuts through rock.	Annex I 6430 - Hydrophilous tall herb fringe communities of plains and of the montane to alpine levels. Inland Rock Outcrops and Scree Priority Habitat (Inland Rock BH)	E5.59	s1a9	U17
40	ARABLE AND HORTICULTURE	Numbered links plus Broad and Priority Habitats	Scottish EUNIS Code	UK Hab Code	NVC units (indicative list only)
40a	Modern intensively managed orchards			c1e	
40b	Old orchards			Return to 27	
40c	Soft Fruit			c1f	
40d	Cereal crops			c1c7	
40e	Grass and clover leys			c1b	
40f	Vineyards			c1d7	
40g	Non-cereal crops			c1d8	
40h	Horticulture (including crops under glass or plastic)			c1f	
40i	Miscanthus			c1d5	
40j	Short Rotation Coppice			c1d6	
40k	Arable field margins (sown tussocky grasses)			c1a5	
40l	Arable field margins (pollen and nectar mix or wild flower mix)			c1a6	
40m	Arable field margins cultivated to promote annual flora			c1a7	
40n	Game cover mixes on margins and in corners			c1a8	
40o	Game cover or biomass crops on larger areas (i.e. polygons)			c1c6	
40p	Winter stubbles			c1c5	

WETLAND		Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
41a	Habitats on peat >50cm deep	42			
41b	Habitats with no peat or peat <50cm	46			
42a	Dwarf shrubs >25% cover e.g. Any of Heathers (<i>Erica</i> spp., <i>Calluna vulgaris</i>), Crowberry (<i>Empetrum nigrum</i>), Bilberry (<i>Vaccinium myrtillus</i>), Bog-myrtle (<i>Myrica gale</i>), Bog Asphodel (<i>Narthecium ossifragum</i>)	43			
42b	Dwarf shrubs <25%. Cover of peatland species over 25%. Indicators include Deergrass (<i>Trichophorum cespitosum</i>), Purple Moor-grass (<i>Molinia caerulea</i>), <i>Sphagnum</i> spp., Cottongrass (<i>Eriophorum</i> spp.), Heath Rush (<i>Juncus squarrosus</i>) and Bog-myrtle (<i>Myrica gale</i>). Usually on deep-peats or wet peaty rankers. Soft Rush (<i>Juncus effusus</i>) and Sharp-flowered Rush (<i>J. acutiflorus</i>) scarce or absent.	44			
43	Wet Dwarf Shrub Heath				
43a	Dwarf Shrub Heath on peat >0.5m (where this can be determined) carpeting undulating ground. Scattered to dominant Cotton-grass (<i>Eriophorum vaginatum</i>) often with <i>Sphagnum</i> spp. and/or Cloudberry (<i>Rubus chamaemorus</i>).	Annex I 7130 – Blanket Bogs. Blanket Bog Priority Habitat (Bog BH)	D1.2	f1a5	M1-M3, M17-M20, (on deep peat H9, H12, M15-16, M25)
43b	As 3b but with scattered trees of Birch (<i>Betula</i>) but not where the presence of trees has arisen because the bog/wetland has dried out or where there has been a lack of management.	Annex I 91D0 – Bog Woodland. Blanket bog Priority Habitat (Bog BH)	G3.D1€	w1d6	
43c	In addition to dwarf shrubs, species of acid peat soils (postscript 2) predominate e.g. Deergrass (<i>Trichophorum cespitosum</i>), Common Cotton-grass (<i>Eriophorum angustifolium</i>), <i>Sphagnum</i> spp., Cranberry (<i>Vaccinium oxycoccus</i>) and Bog Rosemary (<i>Andromeda polifolia</i>). Often in lowland areas in unimproved/unafforested areas of flood plains. All lowland bog elements that appear to have a groundwater or riverine source to their water table should, depending on their species composition, key out as flushes. Purely rainfed bog systems should key out here. This separation may be difficult. A good indicator is the location of the bog on level ground with a gently domed structure (peat often >0.5m) and an absence of wetland species characteristic of neutral or calcareous vegetation (postscript 2).	Annex I 7110 – Active raised bogs. Lowland raised bog Priority Habitat (Bog BH)	D1.11	f1b5	M1-M3, M17-M20
43d	As 3d but where the bog has been damaged by drainage of peat cutting and where restoration is possible within 30 years	Annex I 7120 – Degraded raised bogs still capable of natural regeneration	D1.12#	f1b6	
43e	Damaged inactive bogs where restoration not possible within 30 years	Bog (BH)	D1.12x	f1b7	

44a-d Dwarf Shrub Heath <25%	Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
44a (Generally) Upland peat >0.5m (where this can be determined) carpeting undulating usually in hilly or mountainous areas. Scattered to dominant Cotton-grass (<i>Eriophorum vaginatum</i>) often with <i>Sphagnum</i> spp. and/or Cloudberry (<i>Rubus chamaemorus</i>).	Annex I 7130 – Blanket bogs. Blanket bog Priority Habitat (Bog BH)	D1.21	f1a5	M1-M3, M17-M20, (on deep peat H9, H12, M15-16, M25)
44b (Generally) Upland peat >0.5m (where this can be determined) carpeting undulating usually in hilly or mountainous areas. Often dominated by Purple Moor Grass (<i>Mollinia caerulea</i>). Peat hags, bare peat and erosion scars often present.	Degraded Blanket Bog	E3.52? and D1.24	f1a6	
44b As 4a but with scattered trees of Birch (<i>Betula</i>) but does not include where trees are present because the bog has dried out	Annex I 91D0 – Bog Woodland. Blanket bog Priority Habitat (Bog BH)	G3.D1€	w1d6	
44c Peatland species predominate e.g. Deergrass (<i>Trichophorum cespitosum</i>), Common Cotton-grass (<i>Eriophorum angustifolium</i>), <i>Sphagnum</i> spp, Cranberry (<i>Vaccinium oxycoccus</i>) and Bog-rosemary (<i>Andromeda polifolia</i>). Often in lowland areas in unimproved/unafforested areas of flood plains. All lowland bog elements that appear to have a groundwater or riverine source to their water table should, depending on their species composition, key out as flushes (50). Purely rainfed bog systems should key out here. This separation may be difficult. A good indicator is the location of the bog on level ground with a gently domed structure (peat often >0.5m in depth) and an absence of species indicative of calcareous or neutral conditions.	45			
44d Peat <0.5m deep, often dominated by Purple Moor Grass (<i>Mollinia caerulea</i>) in upland situations. Not wetland, go to grassland.	Acid Grass (BH)	E3.52	g1b6	
45a-c Lowland Raised Bog				
45a The dome of the raised bog	Annex I 7110 –Active raised bog. Lowland raised bog Priority Habitat (Bog BH). If damaged by peat cutting etc Annex I 7120 – Degraded raised bog capable of natural regeneration.	D1.11	f1b5	M1-M4, M17-M20
45b The “Lagg fen” that forms around the dome of an active raised bog can be mapped separately	Annex I 7110 –Active raised bog. Lowland raised bog Priority Habitat (Bog BH).	D1.12#	f1b6	
45c Areas where it is obvious a raised bog once existed on peat soils. Often there is evidence of the step up on to a dome. There is no chance of restoration. This does not include fenland agriculture on peat soils.		D1.12x	f1b5 secondary code 180 or 181 f1b7	

46a– 49c	Non-Bog wetland	Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
46a	Permanently or near permanently inundated vegetation	47			
46b	Waterlogged vegetation	48			
47a	Aquatic vegetation where macrophytes persist as emergents within standing water. Species include Reedmace (<i>Typha</i> spp.), Club-rush (<i>Schoenoplectus</i>), River Water-crowfoot (<i>Ranunculus fluitans</i>), Bur-reed (<i>Sparganium</i> spp.), Arrowhead (<i>Sagittaria sagittifolia</i>), Mare's-tail (<i>Hippuris vulgaris</i>) and others. This key does not include beds of floating and submerged aquatics e.g. <i>Chara</i> spp., <i>Potamogeton</i> spp., <i>Ceratophyllum</i> spp.	Aquatic macrophytes (Rivers and streams BH)	C1.1	f2d	
47b	Stands dominated by Reed (<i>Phragmites australis</i>) in standing saline or freshwater.	Reedbeds Priority Habitat (BH Fen, Marsh, Swamp BH)	C3.21	f2e	S4, S24, S25, S26
47c	Vegetation fringing open water often developed as a narrow (<0.5m wide or <0.25ha in extent) part of a hydrosere between standing water and upslope vegetation. Species include: Valerian (<i>Valeriana officinalis</i>), Great Willowherb (<i>Epilobium hirsutum</i>), Meadowsweet (<i>Filipendula ulmaria</i>), Hemlock Water Dropwort (<i>Oenanthe crocata</i>), Marsh Woundwort (<i>Stachys palustris</i>) and Purple Loosestrife (<i>Lythrum salicaria</i>).	Aquatic marginal vegetation (Fen, Marsh, Swamp BH)	E5.41	f2d	
48a	Flushes below springs	49			
48b	Other waterlogged vegetation on non-peaty or shallow peat soils not immediately close to a spring	50			
49a	Tufa formation around hard-water springs, where groundwater rich in calcium bicarbonate comes to the surface. Tufa-forming spring-heads are characterised by the swelling yellow-orange mats of the mosses <i>Cratoneuron commutatum</i> and <i>C. filicinum</i> . Many rare, species indicative of calcareous soils live in the moss carpet, particularly arctic-alpine species, such as Bird's-eye Primrose (<i>Primula farinosa</i>), Scottish Asphodel (<i>Tofieldia pusilla</i>), Alpine Bartsia (<i>Bartsia alpina</i>) and False Sedge (<i>Kobresia simpliciuscula</i>). This habitat can be below a woodland canopy.	Annex I 7220 – Petrifying springs with tufa formation (Cratoneurion). Fen Priority Habitat (Fen, Marsh, Swamp BH)	D4.1N	f2a6 or f2c6	M37, M38
49b	Calcareous springs not forming tufa but in other respects similar to 9a	Fen Priority Habitat (Fen, Marsh, Swamp BH)	D4	f2a7 or f2c7	M37
49c	Vegetation flushed by acid waters on gently sloping ground at low altitude. This habitat often occurs just below springs, is narrow (<5m) at the upslope end and fans out slightly, or is found in hollows, but does not generally form areas >50m wide. Star Sedge (<i>Carex echinata</i>), White Sedge (<i>C. curta</i>), <i>Sphagnum recurvum/auriculatum</i> , <i>S. papillosum</i> , <i>S. russowii</i> , Purple Moor-grass (<i>Mollinia caerulea</i>), Common Cotton-grass (<i>Eriophorum angustifolium</i>) and Marsh Violet (<i>Viola palustris</i>) are all likely species to be found.	Fen, Marsh and Swamp BH	D2.2	f2f	M6, M7, M31-33, M35-36

50a-51d	Mires and Swamps (page 1 of 3)	Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
50a	Rush or/and Purple Moor-grass (<i>Molinia caerulea</i>) dominated vegetation usually on peaty-gley soils with Sharp-flowered Rush (<i>Juncus acutiflorus</i>) or Soft Rush (<i>Juncus effusus</i>) abundant to dominant. Indicators of rich fen are absent. Instead a few of the following typical species will be present: Marsh Bedstraw (<i>Galium palustre</i>), Marsh Thistle (<i>Cirsium palustre</i>), Lesser Spearwort (<i>Ranunculus flammula</i>), Velvet Bent (<i>Agrostis canina</i>), Water Mint (<i>Mentha aquatic</i>), Sneezewort (<i>Achillea ptarmica</i>), Marsh Horsetail (<i>Equisetum palustre</i>), Lady's Smock (<i>Cardamine pratensis</i>), Marsh Willowherb (<i>Epilobium palustre</i>) and Wild Angelica (<i>Angelica sylvestris</i>). <i>Sphagnum</i> absent.	Purple Moor Grass and Rush Pastures Priority Habitat (Fen, Marsh, Swamp BH)	E3.51	f2b	M23,M25, (species poor M24 M26)
50b	Dwarf Shrub >25% cover (with occasional to frequent indicators of wet conditions such as Cross-leaved Heath (<i>Erica tetralix</i>), <i>Sphagnum</i> , Purple Moor Grass (<i>Molinia caerulea</i>) and/or Bog Asphodel (<i>Narthecium ossifragum</i>) but lacking high cover of <i>Sphagnum</i> , Cotton Grass (<i>Eriophorum</i> spp.) and Cloudberry (<i>Rubus chamaemorus</i>). Peat largely <0.5m in depth where this can be established. This is a difficult separation to make particularly regarding degraded ombrogenous mires where low abundance of bog indicators may reflect overgrazing, burning and drainage rather than thinner, drier peats. On the Lizard peninsula, key out here only where Cornish Heath (<i>Erica vagans</i>) is found with Cross-leaved Heath (<i>Erica tetralix</i>)and Black Bog-rush (<i>Schoenus nigricans</i>) i.e. waterlogged.	Annex I 4010 – Northern Atlantic wet heaths with <i>Erica tetralix</i> . Wet heath (Dwarf Shrub Heath BH)	F4.11	h1a7 or h1b6	M15, M16, H5
50c	Fertile, waterlogged tall-herb vegetation with less than 50% grass cover. Characteristic abundant species include Great Willowherb (<i>Epilobium hirsutum</i>), Stinging Nettle (<i>Urtica dioica</i>), Meadowsweet (<i>Filipendula ulmaria</i>), Reed (<i>Phragmites australis</i>), False Oat Grass (<i>Arrhenatherum elatius</i>), Cocksfoot (<i>Dactylis glomerata</i>).	Fen Priority Habitat (Fen, Marsh, Swamp BH)	E5.42 (D4.11 if S25)	f2f secondary codes 16 and 121	OV26, S25
50d	Great Fen Sedge (<i>Cladium mariscus</i>) beds but only where the following is true: sites with a mixture of closed, species-poor <i>Cladium</i> beds, which at their margins have transitions to species-rich small-sedge mire vegetation; or sites where <i>Cladium</i> beds retain their species-richness owing to management; and situations where <i>Cladium</i> fen is inherently species-rich, possibly owing to the fact that conditions do not allow the <i>Cladium</i> to grow vigorously and dominate the vegetation.	Annex I 7210 - Calcareous fens with <i>Cladium mariscus</i> and species of the Caricion davallianae. Fen Priority Habitat (Fen, Marsh, Swamp BH)	D5.24	f2a5	S2 and others with a poor fit (S24,S25, M9,M13,M14, M24, Sd14,Sd15)
50e	Beds of large sedges other than Great Fen Sedge not growing in free-standing water. These habitats are often small and count as point features, often growing in the corners surrounding lakes or their in-flows or outflows in lowland situations or by loch (lough) sides.	Fen, Marsh and Swamp BH	D5.2	f2f secondary codes 14 or 15 and 120 or 121	S3, S6, S7,S9, S11, S18
NB 50f -50j on next page					

Mires and swamps continued (page 2 of 3)		Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
50f	“Acid Valley Mires” found in relatively narrow zones (generally <50m) on acid soils and peat in the lowlands (especially the south) in valleys (which may be very shallow) where the water flowing slowly through maintains wetness, protecting it from fire and overgrazing. These mires are characteristic of wet places (permanently waterlogged) in drier, warmer lowland heaths and can be found on the outer edges of 49c. The surrounding heaths will be much drier. Typical species will be Heather (<i>Calluna vulgaris</i>), Cross-leaved Heath (<i>Erica tetralix</i>), Common Cotton-grass (<i>Eriophorum angustifolium</i>), Purple Moor-grass (<i>Mollinia caerulea</i>), and Papillose Bog-moss (<i>Sphagnum papillosum</i>).	Probably, Lowland Heath Priority Habitat (Dwarf Shrub Heath BH).	D2.11	h1a7 or f2b secondary codes 169 and 186	M21
50g	Fen or mire characterised by short sedge species, Bottle Sedge (<i>Carex rostrata</i>), Dioecious Sedge (<i>Carex dioica</i>), Black Bog Rush (<i>Schoenus nigricans</i>), where the water feeding the system is alkaline. Species indicative of high pH are likely to be present including bryophytes (see note on page 2 for NVCs M9, M10, M13). Closely linked and likely, but not exclusively, to be found next to calcareous springs (including Annex I 7220) but also found in association with Annex I 4010. NB certain <i>Sphagnum</i> species can be found in these fens.	Annex I 7230 – Alkaline Fens. Fen Priority Habitat (Fen, Marsh, Swamp BH)	D4.15€	f2c7 or f2a7	M9,M10,M13
50h	Transition zone between acid bog and Alkaline Fens (50g) in which the surface conditions range from markedly acidic to slightly alkaline. The vegetation normally has intimate mixtures of species considered to be indicative of acid conditions and others thought of as indicative of alkaline conditions (see postscript 2 for list of Ellenberg Reactivity values). Many of these systems are very wet and unstable underfoot and can therefore also be described as ‘quaking bogs’. Found in a variety of situations, related to different geomorphological processes: in flood plain mires, valley bogs, basin mires and the lagg zone of raised bogs, and as regeneration surfaces within mires that have been cut-over for peat or areas of mineral soil influence within Blanket bogs (e.g. ladder fens). Bottle Sedge (<i>Carex rostrata</i>) and abundant <i>Sphagnum spp.</i> will occur. Other bog pool vegetation is likely (see page 2 for species lists for NVC communities).	Annex I 7140 – Transition mires and quaking bogs. Fen Priority Habitat (Fen, Marsh, Swamp BH)	D2.33€	f2c8 secondary code 177	M4, M5, M8, M9, S27 M6, M7 (but see 24c)
50i	Low cover of vegetation with abundant Beak Sedges (<i>Rhynchospora spp.</i>) and algae. Bare peat is often visible, located next to pools and in depressions on wetland heaths and bogs.	Annex I 7150 - Depressions on peat substrates of the Rhynchosporion (overlaps with heath and bog PHTs)	D2.37	f2c secondary code 24	
50j	Other flushes, swamps and mires not fulfilling the descriptions above	51			

Mires and Swamps continued (page 3 of 3)		Numbered links plus Broad and Priority Habitats	Scottish EUNIS code	UK Hab Code	NVC units (indicative list only)
51a	Upland situations above the limit of agricultural enclosure in the uplands (usually >250m but it can be higher or lower than this)	Upland Flushes, Fens and Swamps Priority Habitat (BH Fen, Marsh Swamp)	D2 (acid) or D4 (basic)	f2c	
51b	Extreme upland situations (Scottish Highlands, Snowdonia and highest mountains of England) with Yellow Sedge (<i>Carex viridula</i>), Carnation Grass (<i>C. panacea</i>), Flea Sedge (<i>C. pulicaris</i>), Russet Sedge (<i>C. saxatilis</i>), Jointed Rush (<i>Juncus articulatus</i>), Common Butterwort (<i>Pinguicula vulgaris</i>), Yellow Saxifrage (<i>Saxifraga aizoides</i>), Alpine Bistort (<i>Persicaria vivipara</i>), Alpine Meadow-rue (<i>Thalictrum alpinum</i>) and the moss <i>Blindia acuta</i> and rare species such as Scorched Alpine-sedge (<i>Carex atrofusca</i>), Bristle Sedge (<i>C. microglochin</i>), Alpine Rush (<i>Juncus alpinoarticulatus</i>), Chestnut Rush (<i>J. castaneus</i>), Two-flowered Rush (<i>J. biglumis</i>), Three-flowered Rush (<i>J. triglumis</i>), False Sedge (<i>Kobresia simpliciuscula</i>) and Scottish Asphodel (<i>Tofieldia pusilla</i>). Other uncommon species may occur, such as Hair Sedge (<i>Carex capillaris</i>), Sheathed Sedge (<i>C. vaginata</i>) and Variegated Horsetail (<i>Equisetum variegatum</i>).	Annex I 7240 - Alpine pioneer formations of the Caricion bicoloris-atrofuscae. Upland Flushes, Fens and Swamps Priority Habitat (Fen, Marsh Swamp BH)	D4.24€	f2c5	M10-12, M34
51c	Reedbeds without standing water for more than a few weeks of the year (wide enough to be mapped as a polygon). Includes stands of Reed (<i>Phragmites australis</i>), Common Club-rush (<i>Schoenoplectus lacustris</i>), Reedmace (<i>Typha latifolia</i>), Canary-grasses (<i>Phalaris</i> spp.).	Reedbeds (Priority Habitat)	D5.1	f2e secondary code 120 or 121	S4, S26, S8, S12, S13, S28
50d	Lowland situations including below the limit of agricultural enclosure in the uplands	Lowland Fen Priority Habitat (Fen, Marsh, Swamp BH)	D2 (acid) or D4 (basic)	f2a	

A photograph of a forest floor covered in tall, vibrant green grasses. Several tree trunks of varying thicknesses and textures are scattered throughout the scene. The lighting is soft and natural, suggesting a shaded woodland environment. The overall color palette is dominated by various shades of green, from deep forest greens to bright, sunlit grass greens.

UK Habitat Classification Field Key
Postscripts for Species Ellenberg
Salinity and Reaction Scores

2 UK Habitat Classification Field Key Postscripts for Species Ellenberg Salinity and Reaction Scores

Postscript 1: List of UK species with an Ellenberg Salt Index above 0 (from PlantAtt Nov 2008 version, Hill et al. 2004 for description)

<i>Taxon</i>	Salinity	<i>Taxon</i>	Salinity	<i>Taxon</i>	Salinity
<i>Salicornia dolichostachya</i>	9	<i>Crithmum maritimum</i>	5	<i>Glaux maritima</i>	4
<i>Salicornia europaea</i>	9	<i>Frankenia laevis</i>	5	<i>Hordeum marinum</i>	4
<i>Salicornia europaea</i> agg.	9	<i>Inula crithmoides</i>	5	<i>Juncus ambiguus</i>	4
<i>Salicornia fragilis</i>	9	<i>Juncus maritimus</i>	5	<i>Limonium auriculae-ursifolium</i>	4
<i>Salicornia nitens</i>	9	<i>Limonium bellidifolium</i>	5	<i>Limonium binervosum</i> agg.	4
<i>Salicornia obscura</i>	9	<i>Limonium binervosum</i>	5	<i>Limonium britannicum</i>	4
<i>Salicornia procumbens</i> agg.	9	<i>Limonium procerum</i>	5	<i>Limonium dodartiforme</i>	4
<i>Salicornia ramosissima</i>	9	<i>Limonium recurvum</i>	5	<i>Limonium loganicum</i>	4
<i>Salicornia</i>	8	<i>Parapholis strigosa</i>	5	<i>Limonium normannicum</i>	4
<i>Zostera angustifolia</i>	8	<i>Puccinellia maritima</i>	5	<i>Limonium paradoxum</i>	4
<i>Zostera marina</i>	8	<i>Puccinellia rupestris</i>	5	<i>Limonium parvum</i>	4
<i>Zostera noltei</i>	8	<i>Salicornia pusilla</i>	5	<i>Limonium transwallianum</i>	4
<i>Spartina alterniflora</i>	7	<i>Seriphidium maritimum</i>	5	<i>Parapholis incurva</i>	4
<i>Spartina anglica</i>	7	<i>Spergularia marina</i>	5	<i>Puccinellia distans</i>	4
<i>Suaeda maritima</i>	7	<i>Spergularia media</i>	5	<i>Puccinellia fasciculata</i>	4
<i>Atriplex portulacoides</i>	6	<i>Suaeda vera</i>	5	<i>Ranunculus baudotii</i>	4
<i>Cochlearia anglica</i>	6	<i>Atriplex littoralis</i>	4	<i>Ruppia cirrhosa</i>	4
<i>Limonium humile</i>	6	<i>Atriplex longipes</i>	4	<i>Ruppia maritima</i>	4
<i>Limonium vulgare</i>	6	<i>Bolboschoenus maritimus</i>	4	<i>Sagina maritima</i>	4
<i>Sarcocornia perennis</i>	6	<i>Carex extensa</i>	4	<i>Triglochin maritimum</i>	4
<i>Spartina maritima</i>	6	<i>Chenopodium chenopodioides</i>	4	<i>Alopecurus bulbosus</i>	3
<i>Aster tripolium</i>	5	<i>Cochlearia atlantica</i>	4	<i>Ammophila arenaria</i>	3
<i>Atriplex pedunculata</i>	5	<i>Cochlearia danica</i>	4	<i>Apera interrupta</i>	3
<i>Blysmus rufus</i>	5	<i>Elytrigia atherica</i>	4	<i>Armeria maritima</i>	3

Taxon	Salinity	Taxon	Salinity	Taxon	Salinity
<i>Asparagus officinalis</i> subsp. <i>prostratus</i>	3	<i>Eryngium maritimum</i>	3	<i>Plantago maritima</i>	3
<i>Asplenium marinum</i>	3	<i>Euphorbia paralias</i>	3	<i>Polygonum maritimum</i>	3
<i>Atriplex glabriuscula</i>	3	<i>Euphorbia peplis</i>	3	<i>Polygonum oxyspermum</i>	3
<i>Atriplex laciniata</i>	3	<i>Euphorbia portlandica</i>	3	<i>Polypogon monspeliensis</i>	3
<i>Atriplex praecox</i>	3	<i>Euphrasia heslop-harrisonii</i>	3	<i>Raphanus raphanistrum</i> subsp. <i>maritimus</i>	3
<i>Beta vulgaris</i>	3	<i>Euphrasia tetraquetra</i>	3	<i>Salsola kali</i>	3
<i>Brassica oleracea</i>	3	<i>Festuca arenaria</i>	3	<i>Schoenoplectus tabernaemontani</i>	3
<i>Bupleurum tenuissimum</i>	3	<i>Foeniculum vulgare</i>	3	<i>Schoenoplectus triqueter</i>	3
<i>Cakile maritima</i>	3	<i>Glaucium flavum</i>	3	<i>Scilla verna</i>	3
<i>Calystegia soldanella</i>	3	<i>Hippophae rhamnoides</i>	3	<i>Senecio cineraria</i>	3
<i>Carex distans</i>	3	<i>Honckenya peploides</i>	3	<i>Silene uniflora</i>	3
<i>Carex divisa</i>	3	<i>Juncus acutus</i>	3	<i>Spergularia rupicola</i>	3
<i>Carex maritima</i>	3	<i>Juncus gerardii</i>	3	<i>Trifolium occidentale</i>	3
<i>Carex punctata</i>	3	<i>Lactuca saligna</i>	3	<i>Trifolium squamosum</i>	3
<i>Carex recta</i>	3	<i>Lathyrus japonicus</i>	3	<i>Althaea officinalis</i>	2
<i>Carpobrotus edulis</i>	3	<i>Lavatera arborea</i>	3	<i>Apium graveolens</i>	2
<i>Catapodium marinum</i>	3	<i>Lepidium latifolium</i>	3	<i>Asparagus officinalis</i>	2
<i>Chenopodium glaucum</i>	3	<i>Leymus arenarius</i>	3	<i>Asparagus officinalis</i> subsp. <i>officinalis</i>	2
<i>Cochlearia officinalis</i>	3	<i>Ligusticum scoticum</i>	3	<i>Atriplex patula</i>	2
<i>Crambe maritima</i>	3	<i>Lobularia maritima</i>	3	<i>Atriplex prostrata</i>	2
<i>Disphyma crassifolium</i>	3	<i>Matthiola incana</i>	3	<i>Carex otrubae</i>	2
<i>Eleocharis parvula</i>	3	<i>Mertensia maritima</i>	3	<i>Ceratophyllum submersum</i>	2
<i>Eleocharis uniglumis</i>	3	<i>Oenanthe lachenalii</i>	3	<i>Cochlearia officinalis</i> sens. <i>lat.</i>	2
<i>Elytrigia juncea</i>	3	<i>Otanthus maritimus</i>	3	<i>Daucus carota</i>	2
<i>Erodium maritimum</i>	3	<i>Petrorhagia nanteuillii</i>	3	<i>Elytrigia repens</i>	2

Taxon	Salinity	Taxon	Salinity	Taxon	Salinity
<i>Hordeum jubatum</i>	2	<i>Aster lanceolatus</i>	1	<i>Echium vulgare</i>	1
<i>Melilotus indicus</i>	2	<i>Aster lanceolatus x novi-belgii</i> (A. x <i>salignus</i>)	1	<i>Eleocharis acicularis</i>	1
<i>Phragmites australis</i>	2	<i>Aster novi-belgii</i>	1	<i>Eleocharis palustris</i>	1
<i>Festuca rubra</i>	2	<i>Callitriche hermaphroditica</i>	1	<i>Elodea nuttallii</i>	1
<i>Festuca rubra</i> agg.	2	<i>Callitriche obtusangula</i>	1	<i>Erysimum cheiri</i>	1
<i>Herniaria ciliolata</i>	2	<i>Carex arenaria</i>	1	<i>Euphrasia foulaensis</i>	1
<i>Potentilla anserina</i>	2	<i>Carex viridula</i> subsp. <i>brachyrrhyncha</i>	1	<i>Euphrasia marshallii</i>	1
<i>Ranunculus sardous</i>	2	<i>Carex viridula</i> subsp. <i>viridula</i>	1	<i>Euphrasia rotundifolia</i>	1
<i>Ranunculus sceleratus</i>	2	<i>Carum carvi</i>	1	<i>Exaculum pusillum</i>	1
<i>Rosa rugosa</i>	2	<i>Catabrosa aquatica</i>	1	<i>Festuca armoricana</i>	1
<i>Plantago coronopus</i>	2	<i>Centaurium littorale</i>	1		
<i>Poa humilis</i>	2	<i>Centaurium pulchellum</i>	1	<i>Festuca arundinacea</i>	1
<i>Potamogeton pectinatus</i>	2	<i>Centranthus ruber</i>	1	<i>Festuca huonii</i>	1
<i>Rumex crispus</i>	2	<i>Cerastium diffusum</i>	1	<i>Festuca pratensis x Lolium perenne</i> (x <i>Festulolium loliaceum</i>)	1
<i>Samolus valerandi</i>	2	<i>Cerastium tomentosum</i>	1	<i>Gentianella campestris</i>	1
<i>Trifolium fragiferum</i>	2	<i>Ceratophyllum demersum</i>	1	<i>Geranium purpureum</i>	1
<i>Triglochin palustre</i>	2	<i>Chenopodium album</i>	1	<i>Groenlandia densa</i>	1
<i>Zannichellia palustris</i>	2	<i>Chenopodium album</i> agg.	1	<i>Hippuris vulgaris</i>	1
<i>Achillea millefolium</i>	1	<i>Chenopodium rubrum</i>	1	<i>Hordeum secalinum</i>	1
<i>Agrostis stolonifera</i>	1	<i>Cynoglossum officinale</i>	1	<i>Hydrocotyle vulgaris</i>	1
<i>Allium paradoxum</i>	1	<i>Dactylorhiza purpurella</i>	1	<i>Iris pseudacorus</i>	1
<i>Alopecurus geniculatus</i>	1	<i>Datura stramonium</i>	1	<i>Juncus articulatus</i>	1
<i>Aster</i> (alien N American taxa)	1	<i>Diploaxis muralis</i>	1	<i>Juncus balticus</i>	1
		<i>Diploaxis tenuifolia</i>	1	<i>Juncus bufonius</i>	1

Taxon	Salinity	Taxon	Salinity	Taxon	Salinity
<i>Juncus bufonius sens.lat.</i>	1	<i>Potamogeton alpinus</i>	1	<i>Taraxacum</i>	1
<i>Juncus compressus</i>	1	<i>Potamogeton crispus</i>	1	<i>Teucrium scordium</i>	1
<i>Juncus inflexus</i>	1	<i>Potamogeton filiformis</i>	1	<i>Torilis nodosa</i>	1
<i>Lemna gibba</i>	1	<i>Potamogeton gramineus x perfoliatus</i> (<i>P. x nitens</i>)	1	<i>Trifolium arvense</i>	1
<i>Leontodon autumnalis</i>	1	<i>Potamogeton perfoliatus</i>	1	<i>Trifolium incarnatum</i>	1
<i>Lepidium draba</i>	1	<i>Potamogeton praelongus</i>	1	<i>Trifolium incarnatum subsp.molinerii</i>	1
<i>Limosella australis</i>	1	<i>Potamogeton pusillus</i>	1	<i>Trifolium scabrum</i>	1
<i>Lotus corniculatus</i>	1	<i>Primula scotica</i>	1	<i>Tripleurospermum maritimum</i>	1
<i>Lotus glaber</i>	1	<i>Prunus spinosa</i>	1	<i>Tripleurospermum maritimum sens.lat.</i>	1
<i>Lycium chinense</i>	1	<i>Quercus ilex</i>	1	<i>Typha angustifolia</i>	1
<i>Matthiola sinuata</i>	1	<i>Radiola linoides</i>	1	<i>Vicia lutea</i>	1
<i>Najas flexilis</i>	1	<i>Sagina nodosa</i>	1	<i>Viola kitaibeliana</i>	1
<i>Nuphar lutea</i>	1	<i>Sagina procumbens</i>	1	<i>Vulpia ciliata</i>	1
<i>Oenanthe crocata</i>	1	<i>Schoenoplectus pungens</i>	1	<i>Vulpia fasciculata</i>	1
<i>Ononis reclinata</i>	1	<i>Sedum acre</i>	1		
<i>Ophioglossum azoricum</i>	1	<i>Sedum anglicum</i>	1		
<i>Orchis laxiflora</i>	1	<i>Sedum telephium</i>	1		
<i>Parietaria judaica</i>	1	<i>Senecio viscosus</i>	1		
<i>Petrorhagia prolifera sens.lat.</i>	1	<i>Silybum marianum</i>	1		
<i>Petroselinum crispum</i>	1	<i>Sonchus arvensis</i>	1		
<i>Phalaris arundinacea</i>	1	<i>Sonchus palustris</i>	1		
<i>Phleum arenarium</i>	1	<i>Spirodela polyrhiza</i>	1		
<i>Poa annua</i>	1	<i>Stachys palustris x sylvatica</i> (<i>S. x ambigua</i>)	1		
<i>Poa pratensis sens.lat.</i>	1	<i>Stratiotes aloides</i>	1		

Postscript 2. List of all UK plant (light green shading) and bryophyte (light blue shading) species giving the Ellenberg R index for each (from PlantAtt Nov 2008 version, Hill et al. 2004 for description and BryoAtt). This is related to soil pH. Highest values of R correspond with the most calcareous or base rich soils.

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
<i>Bunium bulbocastanum</i>	9	<i>Anacamptis pyramidalis</i>	8	<i>Buxus sempervirens</i>	8
<i>Bupleurum falcatum</i>	9	<i>Anisantha rigida</i>	8	<i>Cardamine impatiens</i>	8
<i>Bupleurum rotundifolium</i>	9	<i>Anisantha sterilis</i>	8	<i>Carduus crispus</i>	8
<i>Carex ornithopoda</i>	9	<i>Anogramma leptophylla</i>	8	<i>Carduus nutans</i>	8
<i>Clinopodium calamintha</i>	9	<i>Apera interrupta</i>	8	<i>Carex appropinquata</i>	8
<i>Crepis praemorsa</i>	9	<i>Arabis glabra</i>	8	<i>Carex capillaris</i>	8
<i>Cystopteris montana</i>	9	<i>Arabis hirsuta</i>	8	<i>Carex davalliana</i>	8
<i>Draba aizoides</i>	9	<i>Arabis petraea</i>	8	<i>Carex digitata</i>	8
<i>Dryopteris submontana</i>	9	<i>Arabis scabra</i>	8	<i>Carex filiformis</i>	8
<i>Epipactis leptochila</i>	9	<i>Arenaria ciliata</i>	8	<i>Carex flava</i>	8
<i>Himantoglossum hircinum</i>	9	<i>Arenaria norvegica</i>	8	<i>Carex humilis</i>	8
<i>Hydrilla verticillata</i>	9	<i>Artemisia vulgaris</i>	8	<i>Carex microglochin</i>	8
				<i>Carex viridula</i>	
<i>Inula salicina</i>	9	<i>Asperula cynanchica</i>	8	<i>subsp.brachyrrhyncha</i>	8
<i>Najas marina</i>	9	<i>Asplenium trichomanes</i>	8	<i>Carex vulpina</i>	8
<i>Ophrys fuciflora</i>	9	<i>Asplenium viride</i>	8	<i>Centaurea scabiosa</i>	8
<i>Ophrys insectifera</i>	9	<i>Aster linosyris</i>	8	<i>Centaurium littorale</i>	8
<i>Ophrys sphegodes</i>	9	<i>Astragalus danicus</i>	8	<i>Centaurium pulchellum</i>	8
<i>Orchis militaris</i>	9	<i>Atriplex portulacoides</i>	8	<i>Centranthus ruber</i>	8
<i>Orobanche caryophyllacea</i>	9	<i>Atropa belladonna</i>	8	<i>Cephalanthera rubra</i>	8
<i>Polygala amarella</i>	9	<i>Azolla filiculoides</i>	8	<i>Cerastium brachypetalum</i>	8
<i>Primula farinosa</i>	9	<i>Ballota nigra</i>	8	<i>Cerastium pumilum</i>	8
<i>Aceras anthropophorum</i>	8	<i>Berberis vulgaris</i>	8	<i>Ceratophyllum submersum</i>	8
<i>Actaea spicata</i>	8	<i>Blackstonia perfoliata</i>	8	<i>Ceterach officinarum</i>	8
<i>Adiantum capillus-veneris</i>	8	<i>Blysmus compressus</i>	8	<i>Chelidonium majus</i>	8
<i>Ajuga chamaepitys</i>	8	<i>Bolboschoenus maritimus</i>	8	<i>Cirsium acaule</i>	8
<i>Alchemilla minima</i>	8	<i>Brachypodium pinnatum</i>	8	<i>Cirsium eriophorum</i>	8
<i>Allium sphaerocephalon</i>	8	<i>Bromopsis erecta</i>	8	<i>Cirsium tuberosum</i>	8
<i>Allium vineale</i>	8	<i>Bromopsis inermis</i>	8	<i>Cladium mariscus</i>	8
<i>Althaea hirsuta</i>	8	<i>Bromus commutatus</i>	8	<i>Clematis vitalba</i>	8
<i>Althaea officinalis</i>	8	<i>Bupleurum baldense</i>	8	<i>Clinopodium acinos</i>	8
<i>Amaranthus albus</i>	8	<i>Bupleurum tenuissimum</i>	8	<i>Clinopodium menthifolium</i>	8

<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R
<i>Cochlearia pyrenaica</i>	8	<i>Fumaria vaillantii</i>	8	<i>Juncus maritimus</i>	8
<i>Colutea arborescens</i>	8	<i>Galeopsis angustifolia</i>	8	<i>Juncus subnodulosus</i>	8
<i>Consolida ajacis</i>	8	<i>Galium pumilum</i>	8	<i>Knautia arvensis</i>	8
<i>Convolvulus arvensis</i>	8	<i>Galium spurium</i>	8	<i>Kobresia simpliciuscula</i>	8
<i>Cotoneaster horizontalis</i>	8	<i>Gastroidium ventricosum</i>	8	<i>Koeleria vallesiana</i>	8
<i>Crambe maritima</i>	8	<i>Gentiana verna</i>	8	<i>Lathyrus aphaca</i>	8
<i>Cynoglossum germanicum</i>	8	<i>Gentianella amarella</i>	8	<i>Lathyrus latifolius</i>	8
<i>Cynoglossum officinale</i>	8	<i>Gentianella anglica</i>	8	<i>Lathyrus sylvestris</i>	8
<i>Cypripedium calceolus</i>	8	<i>Gentianella ciliata</i>	8	<i>Leersia oryzoides</i>	8
<i>Cystopteris dickieana</i>	8	<i>Gentianella germanica</i>	8	<i>Lepidium draba</i>	8
<i>Cystopteris fragilis</i>	8	<i>Glaucium flavum</i>	8	<i>Limonium bellidifolium</i>	8
<i>Dipsacus pilosus</i>	8	<i>Groenlandia densa</i>	8	<i>Limonium binervosum</i>	8
<i>Epipactis atrorubens</i>	8	<i>Gymnocarpium robertianum</i>	8	<i>Limonium parvum</i>	8
<i>Epipactis purpurata</i>	8	<i>Helianthemum apenninum</i>	8	<i>Limonium procerum</i>	8
<i>Equisetum ramosissimum</i>	8	<i>Helianthemum oelandicum</i>	8	<i>Limonium transwallianum</i>	8
<i>Equisetum variegatum</i>	8	<i>Helianthus tuberosus</i>	8	<i>Limonium vulgare</i>	8
<i>Erinus alpinus</i>	8	<i>Helleborus foetidus</i>	8	<i>Linaria vulgaris</i>	8
<i>Eryngium campestre</i>	8	<i>Helleborus viridis</i>	8	<i>Linum perenne</i>	8
<i>Erysimum cheiri</i>	8	<i>Herminium monorchis</i>	8	<i>Liparis loeselii</i>	8
<i>Euonymus europaeus</i>	8	<i>Hippocrepis comosa</i>	8	<i>Lithospermum officinale</i>	8
<i>Euphorbia esula x waldsteinii</i> (<i>E. x pseudovirgata</i>)	8	<i>Hordeum marinum</i>	8	<i>Lolium temulentum</i>	8
<i>Euphorbia serrulata</i>	8	<i>Hornungia petraea</i>	8	<i>Malva neglecta</i>	8
<i>Euphrasia pseudokernerii</i>	8	<i>Hypericum montanum</i>	8	<i>Malva sylvestris</i>	8
<i>Euphrasia salisburgensis</i>	8	<i>Hypochaeris maculata</i>	8	<i>Matthiola incana</i>	8
<i>Filipendula vulgaris</i>	8	<i>Iberis amara</i>	8	<i>Medicago lupulina</i>	8
<i>Foeniculum vulgare</i>	8	<i>Inula conyzae</i>	8	<i>Melampyrum arvense</i>	8
<i>Fragaria x ananassa</i>	8	<i>Iris foetidissima</i>	8	<i>Melampyrum cristatum</i>	8
<i>Frankenia laevis</i>	8	<i>Isatis tinctoria</i>	8	<i>Minuartia hybrida</i>	8
<i>Fumaria densiflora</i>	8	<i>Juglans regia</i>	8	<i>Minuartia stricta</i>	8
<i>Fumaria parviflora</i>	8	<i>Juncus biglumis</i>	8	<i>Myosotis alpestris</i>	8

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
<i>Neotinea maculata</i>	8	<i>Potentilla fruticosa</i>	8	<i>Salvia pratensis</i>	8
<i>Oenanthe fluviatilis</i>	8	<i>Potentilla neumanniana</i>	8	<i>Sambucus ebulus</i>	8
<i>Oenanthe lachenalii</i>	8	<i>Pseudofumaria lutea</i>	8	<i>Samolus valerandi</i>	8
<i>Onobrychis viciifolia</i>	8	<i>Pulmonaria obscura</i>	8	<i>Sanguisorba minor</i>	8
<i>Ononis reclinata</i>	8	<i>Pulmonaria officinalis</i>	8	<i>Sarcocornia perennis</i>	8
<i>Ononis spinosa</i>	8	<i>Pulsatilla vulgaris</i>	8	<i>Saxifraga oppositifolia</i>	8
<i>Ophrys apifera</i>	8	<i>Ranunculus penicillatus</i>	8	<i>Saxifraga rosacea</i>	8
<i>Orchis laxiflora</i>	8	<i>Ranunculus sceleratus</i>	8	<i>Scabiosa columbaria</i>	8
<i>Orchis purpurea</i>	8	<i>Reseda luteola</i>	8	<i>Schoenoplectus tabernaemontani</i>	8
<i>Orchis simia</i>	8	<i>Ribes alpinum</i>	8	<i>Selinum carvifolia</i>	8
<i>Orchis ustulata</i>	8	<i>Rosa agrestis</i>	8	<i>Seriphidium maritimum</i>	8
<i>Orobanche artemisiae-campestris</i>	8	<i>Rosa obtusifolia</i>	8	<i>Seseli libanotis</i>	8
<i>Orobanche elatior</i>	8	<i>Rosa rubiginosa</i>	8	<i>Sesleria caerulea</i>	8
<i>Orobanche minor</i>	8	<i>Rosa rubiginosa agg.</i>	8	<i>Silene nutans</i>	8
<i>Oxytropis campestris</i>	8	<i>Rosa stylosa</i>	8	<i>Silene vulgaris</i>	8
<i>Oxytropis halleri</i>	8	<i>Rubia peregrina</i>	8	<i>Silybum marianum</i>	8
<i>Papaver hybridum</i>	8	<i>Ruppia maritima</i>	8	<i>Sorbus anglica</i>	8
<i>Parietaria judaica</i>	8	<i>Sagina nivalis</i>	8	<i>Sorbus bristoliensis</i>	8
<i>Petroselinum segetum</i>	8	<i>Salicornia</i>	8	<i>Sorbus domestica</i>	8
<i>Peucedanum officinale</i>	8	<i>Salicornia dolichostachya</i>	8	<i>Sorbus intermedia</i>	8
<i>Phleum phleoides</i>	8	<i>Salicornia europaea</i>	8	<i>Sorbus leyana</i>	8
<i>Phyteuma orbiculare</i>	8	<i>Salicornia europaea agg.</i>	8	<i>Sorbus minima</i>	8
<i>Picris hieracioides</i>	8	<i>Salicornia fragilis</i>	8	<i>Sorbus wilmottiana</i>	8
<i>Pilosella peleteriana</i>	8	<i>Salicornia nitens</i>	8	<i>Spartina alterniflora</i>	8
<i>Pinguicula alpina</i>	8	<i>Salicornia obscura</i>	8	<i>Spartina anglica</i>	8
<i>Polygala calcarea</i>	8	<i>Salicornia procumbens agg.</i>	8	<i>Spartina maritima</i>	8
<i>Polygonum rurivagum</i>	8	<i>Salicornia pusilla</i>	8	<i>Spergularia marina</i>	8
<i>Potamogeton coloratus</i>	8	<i>Salicornia ramosissima</i>	8	<i>Spergularia media</i>	8
<i>Potamogeton nodosus</i>	8	<i>Salix alba</i>	8	<i>Spiranthes aestivalis</i>	8
<i>Potentilla crantzii</i>	8	<i>Salix reticulata</i>	8	<i>Stachys alpina</i>	8

<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R
<i>Stachys germanica</i>	8	<i>Aconitum napellus sens. lat.</i>	7	<i>Arbutus unedo</i>	7
<i>Suaeda maritima</i>	8	<i>Acorus calamus</i>	7	<i>Arctium lappa</i>	7
<i>Suaeda vera</i>	8	<i>Adonis annua</i>	7	<i>Arctium minus</i>	7
<i>Tephrosieris integrifolia</i>	8	<i>Aesculus hippocastanum</i>	7	<i>Arenaria serpyllifolia</i>	7
<i>Teucrium botrys</i>	8	<i>Aethusa cynapium</i>	7	<i>Armoracia rusticana</i>	7
<i>Teucrium chamaedrys</i>	8	<i>Agrimonia eupatoria</i>	7	<i>Arrhenatherum elatius</i>	7
<i>Teucrium scordium</i>	8	<i>Agrimonia procera</i>	7	<i>Artemisia absinthium</i>	7
<i>Thesium humifusum</i>	8	<i>Agrostis stolonifera</i>	7	<i>Arum maculatum</i>	7
<i>Thlaspi perfoliatum</i>	8	<i>Alchemilla glaucescens</i>	7	<i>Asplenium onopteris</i>	7
<i>Thymus pulegioides</i>	8	<i>Alchemilla micans</i>	7	<i>Asplenium ruta-muraria</i>	7
<i>Torilis arvensis</i>	8	<i>Alchemilla mollis</i>	7	<i>Aster (alien N American taxa)</i>	7
<i>Trifolium ochroleucon</i>	8	<i>Alisma gramineum</i>	7	<i>Aster lanceolatus</i>	7
<i>Trinia glauca</i>	8	<i>Alisma lanceolatum</i>	7	<i>Aster lanceolatus x novi-belgii (A. x salignus)</i>	7
<i>Ulmus procera</i>	8	<i>Alisma plantago-aquatica</i>	7	<i>Aster novae-angliae</i>	7
<i>Valerianella carinata</i>	8	<i>Alliaria petiolata</i>	7	<i>Aster novi-belgii</i>	7
<i>Valerianella eriocarpa</i>	8	<i>Allium carinatum</i>	7	<i>Aster tripolium</i>	7
<i>Valerianella ramosa</i>	8	<i>Allium cepa</i>	7	<i>Astragalus glycyphyllos</i>	7
<i>Veronica praecox</i>	8	<i>Allium oleraceum</i>	7	<i>Atriplex glabriuscula</i>	7
<i>Viola hirta</i>	8	<i>Allium scorodoprasum</i>	7	<i>Atriplex laciniata</i>	7
<i>Viola rupestris</i>	8	<i>Allium ursinum</i>	7	<i>Atriplex littoralis</i>	7
<i>Vulpia unilateralis</i>	8	<i>Alopecurus bulbosus</i>	7	<i>Atriplex longipes</i>	7
<i>Woodsia alpina</i>	8	<i>Alopecurus myosuroides</i>	7	<i>Atriplex patula</i>	7
<i>Zannichellia palustris</i>	8	<i>Amaranthus retroflexus</i>	7	<i>Atriplex pedunculata</i>	7
<i>Zea mays</i>	8	<i>Anthemis arvensis</i>	7	<i>Atriplex praecox</i>	7
<i>Zostera angustifolia</i>	8	<i>Anthriscus sylvestris</i>	7	<i>Atriplex prostrata</i>	7
<i>Zostera marina</i>	8	<i>Anthyllis vulneraria</i>	7	<i>Avena fatua</i>	7
<i>Zostera noltei</i>	8	<i>Antirrhinum majus</i>	7	<i>Avena sativa</i>	7
<i>Acer campestre</i>	7	<i>Apium graveolens</i>	7	<i>Avena sterilis</i>	7
<i>Acer platanoides</i>	7	<i>Apium nodiflorum</i>	7	<i>Barbarea stricta</i>	7
<i>Aconitum napellus</i>	7	<i>Apium repens</i>	7	<i>Barbarea vulgaris</i>	7
		<i>Arabis alpina</i>	7	<i>Bartsia alpina</i>	7

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
<i>Berula erecta</i>	7	<i>Campanula patula</i>	7	<i>Carex saxatilis</i>	7
<i>Beta vulgaris</i>	7	<i>Campanula persicifolia</i>	7	<i>Carex strigosa</i>	7
<i>Bidens cernua</i>	7	<i>Campanula portenschlagiana</i>	7	<i>Carex viridula subsp.viridula</i>	7
<i>Bidens tripartita</i>	7	<i>Campanula poscharskyana</i>	7	<i>Carlina vulgaris</i>	7
<i>Blysmus rufus</i>	7	<i>Campanula rapunculoides</i>	7	<i>Carum carvi</i>	7
<i>Brassica napus</i>	7	<i>Campanula rapunculus</i>	7	<i>Catabrosa aquatica</i>	7
<i>Brassica nigra</i>	7	<i>Campanula trachelium</i>	7	<i>Catapodium marinum</i>	7
<i>Brassica oleracea</i>	7	<i>Capsella bursa-pastoris</i>	7	<i>Catapodium rigidum</i>	7
<i>Brassica rapa</i>	7	<i>Cardamine amara</i>	7	<i>Centaurea calcitrapa</i>	7
<i>Briza media</i>	7	<i>Cardamine bulbifera</i>	7	<i>Centaureum tenuiflorum</i>	7
<i>Bromopsis benekenii</i>	7	<i>Carduus tenuiflorus</i>	7	<i>Cephalanthera damasonium</i>	7
<i>Bromopsis ramosa</i>	7	<i>Carex acuta</i>	7	<i>Cephalanthera longifolia</i>	7
<i>Bromus hordeaceus</i>	7	<i>Carex acutiformis</i>	7	<i>Cerastium tomentosum</i>	7
<i>Bromus racemosus</i>	7	<i>Carex atrofusca</i>	7	<i>Ceratophyllum demersum</i>	7
<i>Bryonia dioica</i>	7	<i>Carex buxbaumii</i>	7	<i>Chaenorhinum minus</i>	7
<i>Buddleja davidii</i>	7	<i>Carex caryophyllea</i>	7	<i>Chaerophyllum temulum</i>	7
<i>Butomus umbellatus</i>	7	<i>Carex depauperata</i>	7	<i>Chenopodium album</i>	7
<i>Cakile maritima</i>	7	<i>Carex distans</i>	7	<i>Chenopodium album agg.</i>	7
<i>Calamagrostis canescens</i>	7	<i>Carex divisa</i>	7	<i>Chenopodium bonus-henricus</i>	7
<i>Calamagrostis epigejos</i>	7	<i>Carex divulsa</i>	7	<i>Chenopodium chenopodioides</i>	7
<i>Calendula officinalis</i>	7	<i>Carex elata</i>	7	<i>Chenopodium glaucum</i>	7
<i>Callitriche hermaphroditica</i>	7	<i>Carex ericetorum</i>	7	<i>Chenopodium hybridum</i>	7
<i>Callitriche obtusangula</i>	7	<i>Carex extensa</i>	7	<i>Chenopodium polyspermum</i>	7
<i>Callitriche platycarpa</i>	7	<i>Carex hirta</i>	7	<i>Chenopodium rubrum</i>	7
<i>Callitriche truncata</i>	7	<i>Carex maritima</i>	7	<i>Chenopodium urbicum</i>	7
<i>Calystegia pulchra</i>	7	<i>Carex norvegica</i>	7	<i>Chenopodium vulvaria</i>	7
<i>Calystegia sepium</i>	7	<i>Carex otrubae</i>	7	<i>Cichorium intybus</i>	7
<i>Calystegia silvatica</i>	7	<i>Carex pendula</i>	7	<i>Cicuta virosa</i>	7
<i>Calystegia soldanella</i>	7	<i>Carex punctata</i>	7	<i>Circaea lutetiana</i>	7
<i>Camelina sativa</i>	7	<i>Carex recta</i>	7	<i>Cirsium arvense</i>	7
<i>Campanula glomerata</i>	7	<i>Carex riparia</i>	7	<i>Clinopodium ascendens</i>	7
<i>Campanula latifolia</i>	7	<i>Carex rupestris</i>	7	<i>Clinopodium vulgare</i>	7

<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R
<i>Cochlearia anglica</i>	7	<i>Dactylorhiza traunsteineri</i>	7	<i>Epilobium roseum</i>	7
<i>Cochlearia atlantica</i>	7	<i>Daphne laureola</i>	7	<i>Epipactis helleborine</i>	7
<i>Cochlearia danica</i>	7	<i>Daphne mezereum</i>	7	<i>Epipactis palustris</i>	7
<i>Cochlearia micacea</i>	7	<i>Datura stramonium</i>	7	<i>Epipactis phyllanthes</i>	7
<i>Cochlearia officinalis</i>	7	<i>Daucus carota</i>	7	<i>Epipogium aphyllum</i>	7
<i>Cochlearia officinalis sens.lat.</i>	7	<i>Daucus carota subsp.sativus</i>	7	<i>Equisetum hyemale</i>	7
<i>Conium maculatum</i>	7	<i>Descurainia sophia</i>	7	<i>Equisetum telmateia</i>	7
<i>Conyza canadensis</i>	7	<i>Dianthus gratianopolitanus</i>	7	<i>Eranthis hyemalis</i>	7
<i>Conyza sumatrensis</i>	7	<i>Diplotaxis muralis</i>	7	<i>Erigeron acer</i>	7
<i>Cornus sanguinea</i>	7	<i>Diplotaxis tenuifolia</i>	7	<i>Erigeron borealis</i>	7
<i>Coronopus squamatus</i>	7	<i>Dipsacus fullonum</i>	7	<i>Erigeron karvinskianus</i>	7
<i>Cotoneaster bullatus</i>	7	<i>Dipsacus fullonum sens.lat.</i>	7	<i>Eriophorum latifolium</i>	7
<i>Cotoneaster cambricus</i>	7	<i>Draba incana</i>	7	<i>Erodium lebelii</i>	7
<i>Cotoneaster integrifolius</i>	7	<i>Draba muralis</i>	7	<i>Erophila glabrescens</i>	7
<i>Cotoneaster microphyllus agg.</i>	7	<i>Draba norvegica</i>	7	<i>Erophila majuscula</i>	7
<i>Crataegus laevigata</i>	7	<i>Dryas octopetala</i>	7	<i>Erophila verna sens.lat.</i>	7
<i>Crataegus monogyna</i>	7	<i>Echinochloa crus-galli</i>	7	<i>Erucastrum gallicum</i>	7
<i>Crepis biennis</i>	7	<i>Echium vulgare</i>	7	<i>Erysimum cheiranthoides</i>	7
<i>Crepis capillaris</i>	7	<i>Eleocharis acicularis</i>	7	<i>Euphorbia cyparissias</i>	7
<i>Crepis mollis</i>	7	<i>Eleocharis parvula</i>	7	<i>Euphorbia exigua</i>	7
<i>Crepis vesicaria</i>	7	<i>Eleocharis quinqueflora</i>	7	<i>Euphorbia lathyris</i>	7
<i>Crithmum maritimum</i>	7	<i>Eleocharis uniglumis</i>	7	<i>Euphorbia paralias</i>	7
<i>Cruciata laevipes</i>	7	<i>Elodea canadensis</i>	7	<i>Euphorbia peplis</i>	7
<i>Cymbalaria muralis</i>	7	<i>Elodea nuttallii</i>	7	<i>Euphorbia peplus</i>	7
<i>Cynodon dactylon</i>	7	<i>Elymus caninus</i>	7	<i>Euphorbia platyphyllos</i>	7
<i>Cyperus longus</i>	7	<i>Elytrigia atherica</i>	7	<i>Euphorbia portlandica</i>	7
<i>Dactylis glomerata</i>	7	<i>Elytrigia juncea</i>	7	<i>Euphrasia rivularis</i>	7
<i>Dactylorhiza fuchsii</i>	7	<i>Elytrigia repens</i>	7	<i>Euphrasia rotundifolia</i>	7
<i>Dactylorhiza praetermissa</i>	7	<i>Epilobium hirsutum</i>	7	<i>Fagopyrum esculentum</i>	7
<i>Dactylorhiza purpurella</i>	7	<i>Epilobium parviflorum</i>	7	<i>Fallopia convolvulus</i>	7

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
<i>Festuca arundinacea</i>	7	<i>Geranium rotundifolium</i>	7	<i>Hyoscyamus niger</i>	7
<i>Festuca gigantea</i>	7	<i>Geranium sanguineum</i>	7	<i>Hypericum hirsutum</i>	7
<i>Festuca lermanii</i>	7	<i>Geum urbanum</i>	7	<i>Hypericum perforatum</i>	7
<i>Festuca pratensis</i> x <i>Lolium perenne</i> (x <i>Festulolium loliaceum</i>)	7	<i>Glaux maritima</i>	7	<i>Impatiens capensis</i>	7
<i>Filago pyramidata</i>	7	<i>Glechoma hederacea</i>	7	<i>Impatiens glandulifera</i>	7
<i>Fraxinus excelsior</i>	7	<i>Glyceria fluitans</i> x <i>notata</i> (G. x <i>pedicellata</i>)	7	<i>Impatiens noli-tangere</i>	7
<i>Fritillaria meleagris</i>	7	<i>Glyceria maxima</i>	7	<i>Impatiens parviflora</i>	7
<i>Fumaria officinalis</i>	7	<i>Gymnadenia conopsea</i>	7	<i>Inula crithmoides</i>	7
<i>Gagea lutea</i>	7	<i>Hedera helix</i>	7	<i>Juncus acutus</i>	7
<i>Galanthus nivalis</i>	7	<i>Helianthemum nummularium</i>	7	<i>Juncus alpinoarticulatus</i>	7
<i>Galega officinalis</i>	7	<i>Helictotrichon pratense</i>	7	<i>Juncus ambiguus</i>	7
<i>Galeopsis speciosa</i>	7	<i>Helictotrichon pubescens</i>	7	<i>Juncus castaneus</i>	7
<i>Galium aparine</i>	7	<i>Heracleum sphondylium</i>	7	<i>Juncus compressus</i>	7
<i>Galium boreale</i>	7	<i>Hesperis matronalis</i>	7	<i>Juncus gerardii</i>	7
<i>Galium mollugo</i>	7	<i>Hierochloa odorata</i>	7	<i>Juncus inflexus</i>	7
<i>Galium odoratum</i>	7	<i>Hippophae rhamnoides</i>	7	<i>Kickxia spuria</i>	7
<i>Galium parisiense</i>	7	<i>Hirschfeldia incana</i>	7	<i>Koeleria macrantha</i>	7
<i>Galium sternerii</i>	7	<i>Honckenya peploides</i>	7	<i>Laburnum anagyroides</i>	7
<i>Galium tricornutum</i>	7	<i>Hordelymus europaeus</i>	7	<i>Lactuca saligna</i>	7
<i>Genista tinctoria</i>	7	<i>Hordeum distichon</i>	7	<i>Lactuca serriola</i>	7
<i>Gentiana nivalis</i>	7	<i>Hordeum distichon sens.lat.</i>	7	<i>Lactuca virosa</i>	7
<i>Gentianella uliginosa</i>	7	<i>Hordeum jubatum</i>	7	<i>Lagarosiphon major</i>	7
<i>Geranium columbinum</i>	7	<i>Hordeum murinum</i>	7	<i>Lamiastrum galeobdolon</i>	7
<i>Geranium dissectum</i>	7	<i>Hordeum secalinum</i>	7	<i>Lamium album</i>	7
<i>Geranium endressii</i>	7	<i>Hordeum vulgare</i>	7	<i>Lamium amplexicaule</i>	7
<i>Geranium lucidum</i>	7	<i>Hottonia palustris</i>	7	<i>Lamium confertum</i>	7
<i>Geranium pratense</i>	7	<i>Humulus lupulus</i>	7	<i>Lamium hybridum</i>	7
<i>Geranium pusillum</i>	7	<i>Hydrocharis morsus-ranae</i>	7	<i>Lamium maculatum</i>	7
<i>Geranium pyrenaicum</i>	7	<i>Hydrocotyle ranunculoides</i>	7	<i>Lamium purpureum</i>	7

<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R
<i>Lapsana communis</i>	7	<i>Limonium dodartiforme</i>	7	<i>Matricaria recutita</i>	7
<i>Lathraea squamaria</i>	7	<i>Limonium humile</i>	7	<i>Matteuccia struthiopteris</i>	7
<i>Lathyrus japonicus</i>	7	<i>Limonium paradoxum</i>	7	<i>Matthiola sinuata</i>	7
<i>Lathyrus nissolia</i>	7	<i>Limonium recurvum</i>	7	<i>Meconopsis cambrica</i>	7
<i>Lathyrus palustris</i>	7	<i>Limosella australis</i>	7	<i>Medicago minima</i>	7
<i>Lathyrus tuberosus</i>	7	<i>Linaria purpurea</i>	7	<i>Medicago sativa subsp. falcata</i>	7
<i>Laurus nobilis</i>	7	<i>Linaria repens</i>	7	<i>Melica nutans</i>	7
<i>Lavatera arborea</i>	7	<i>Linum bienne</i>	7	<i>Melica uniflora</i>	7
<i>Legousia hybrida</i>	7	<i>Linum catharticum</i>	7	<i>Melilotus albus</i>	7
<i>Lemna gibba</i>	7	<i>Linum usitatissimum</i>	7	<i>Melilotus altissimus</i>	7
<i>Lemna minor</i>	7	<i>Listera ovata</i>	7	<i>Melilotus indicus</i>	7
<i>Lemna minuta</i>	7	<i>Lithospermum arvense</i>	7	<i>Melilotus officinalis</i>	7
		<i>Lithospermum</i>			
<i>Lemna trisulca</i>	7	<i>purpureocaeruleum</i>	7	<i>Melissa officinalis</i>	7
<i>Leontodon hispidus</i>	7	<i>Lobularia maritima</i>	7	<i>Melittis melissophyllum</i>	7
<i>Lepidium campestre</i>	7	<i>Lolium multiflorum</i>	7	<i>Mentha aquatica</i>	7
<i>Lepidium latifolium</i>	7	<i>Lonicera xylosteum</i>	7	<i>Mentha arvensis</i>	7
<i>Lepidium ruderae</i>	7	<i>Lotus glaber</i>	7	<i>Mentha spicata</i>	7
<i>Leucanthemum lacustre x maximum (L. x superbum)</i>	7	<i>Lupinus arboreus</i>	7	<i>Mercurialis annua</i>	7
<i>Leucanthemum vulgare</i>	7	<i>Lycium</i>	7	<i>Mercurialis perennis</i>	7
<i>Leucojum aestivum</i>	7	<i>Lycium barbarum</i>	7	<i>Mertensia maritima</i>	7
<i>Leucojum vernum</i>	7	<i>Lycium chinense</i>	7	<i>Mibora minima</i>	7
				<i>Mimulus guttatus x luteus (M. x robertsii)</i>	7
<i>Leycesteria formosa</i>	7	<i>Lycopersicon esculentum</i>	7	<i>Minuartia rubella</i>	7
<i>Leymus arenarius</i>	7	<i>Lycopus europaeus</i>	7	<i>Minuartia verna</i>	7
<i>Ligusticum scoticum</i>	7	<i>Lysimachia punctata</i>	7	<i>Moehringia trinervia</i>	7
<i>Ligustrum ovalifolium</i>	7	<i>Lysimachia vulgaris</i>	7	<i>Muscari neglectum</i>	7
<i>Ligustrum vulgare</i>	7	<i>Lythrum salicaria</i>	7	<i>Mycelis muralis</i>	7
<i>Lilium martagon</i>	7	<i>Malva moschata</i>	7	<i>Myosotis sylvatica</i>	7
<i>Limonium binervosum agg.</i>	7	<i>Marrubium vulgare</i>	7	<i>Myosoton aquaticum</i>	7
<i>Limonium britannicum</i>	7	<i>Matricaria discoidea</i>	7		

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
<i>Myriophyllum spicatum</i>	7	<i>Petroselinum crispum</i>	7	<i>Polystichum aculeatum</i>	7
<i>Myriophyllum verticillatum</i>	7	<i>Peucedanum ostruthium</i>	7	<i>Polystichum lonchitis</i>	7
<i>Myrrhis odorata</i>	7	<i>Peucedanum palustre</i>	7	<i>Populus alba</i>	7
<i>Najas flexilis</i>	7	<i>Phalaris arundinacea</i>	7	<i>Populus nigra sens.lat.</i>	7
<i>Neottia nidus-avis</i>	7	<i>Phalaris canariensis</i>	7	<i>Potamogeton acutifolius</i>	7
<i>Nepeta cataria</i>	7	<i>Phleum bertolonii</i>	7	<i>Potamogeton compressus</i>	7
<i>Nuphar lutea</i>	7	<i>Phleum pratense</i>	7	<i>Potamogeton crispus</i>	7
<i>Nymphoides peltata</i>	7	<i>Phleum pratense sens.lat.</i>	7	<i>Potamogeton filiformis</i>	7
<i>Oenanthe aquatica</i>	7	<i>Phragmites australis</i>	7	<i>Potamogeton friesii</i>	7
<i>Oenanthe fistulosa</i>	7	<i>Phyllitis scolopendrium</i>	7	<i>Potamogeton pectinatus</i>	7
<i>Oenanthe silaifolia</i>	7	<i>Picris echioides</i>	7	<i>Potamogeton praelongus</i>	7
<i>Ophioglossum vulgatum</i>	7	<i>Pilosella flagellaris</i>	7	<i>Potamogeton pusillus</i>	7
<i>Ophioglossum vulgatum sens.lat.</i>	7	<i>Pilosella flagellaris subsp.flagellaris</i>	7	<i>Potamogeton rutilus</i>	7
<i>Orchis mascula</i>	7	<i>Pilosella officinarum</i>	7	<i>Potamogeton trichoides</i>	7
<i>Orchis morio</i>	7	<i>Pimpinella major</i>	7	<i>Potentilla anserina</i>	7
<i>Origanum vulgare</i>	7	<i>Pimpinella saxifraga</i>	7	<i>Potentilla reptans</i>	7
<i>Ornithogalum pyrenaicum</i>	7	<i>Pisum sativum</i>	7	<i>Primula elatior</i>	7
<i>Orobanche alba</i>	7	<i>Plantago media</i>	7	<i>Primula scotica</i>	7
<i>Orobanche purpurea</i>	7	<i>Platanthera chlorantha</i>	7	<i>Primula veris</i>	7
<i>Orobanche reticulata</i>	7	<i>Poa alpina</i>	7	<i>Prunus cerasifera</i>	7
<i>Panicum miliaceum</i>	7	<i>Poa angustifolia</i>	7	<i>Prunus domestica</i>	7
<i>Papaver rhoeas</i>	7	<i>Poa compressa</i>	7	<i>Prunus lusitanica</i>	7
<i>Papaver somniferum</i>	7	<i>Poa palustris</i>	7	<i>Prunus spinosa</i>	7
<i>Parapholis incurva</i>	7	<i>Polemonium caeruleum</i>	7	<i>Puccinellia distans</i>	7
<i>Parapholis strigosa</i>	7	<i>Polygonatum multiflorum</i>	7	<i>Puccinellia fasciculata</i>	7
<i>Parentucellia viscosa</i>	7	<i>Polygonatum odoratum</i>	7	<i>Puccinellia maritima</i>	7
<i>Paris quadrifolia</i>	7	<i>Polygonum arenastrum</i>	7	<i>Puccinellia rupestris</i>	7
<i>Parnassia palustris</i>	7	<i>Polygonum aviculare agg.</i>	7	<i>Pulicaria dysenterica</i>	7
<i>Pastinaca sativa</i>	7	<i>Polygonum oxyspermum</i>	7	<i>Pyrola rotundifolia</i>	7
<i>Persicaria lapathifolia</i>	7	<i>Polypodium cambricum</i>	7	<i>Quercus ilex</i>	7
<i>Petasites hybridus</i>	7	<i>Polypogon monspeliensis</i>	7	<i>Ranunculus aquatilis</i>	7

<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R
<i>Ranunculus aquatilis sens.lat.</i>	7	<i>Rosa tomentosa</i>	7	<i>Sanicula europaea</i>	7
<i>Ranunculus arvensis</i>	7	<i>Rubus arcticus</i>	7	<i>Saxifraga cernua</i>	7
<i>Ranunculus baudotii</i>	7	<i>Rubus caesius</i>	7	<i>Saxifraga cespitosa</i>	7
<i>Ranunculus bulbosus</i>	7	<i>Rubus saxatilis</i>	7	<i>Saxifraga nivalis</i>	7
<i>Ranunculus circinatus</i>	7	<i>Rumex aquaticus</i>	7	<i>Saxifraga tridactylites</i>	7
<i>Ranunculus fluitans</i>	7	<i>Rumex conglomeratus</i>	7	<i>Scandix pecten-veneris</i>	7
<i>Ranunculus ophioglossifolius</i>	7	<i>Rumex crispus</i>	7	<i>Schoenoplectus lacustris</i>	7
<i>Raphanus raphanistrum</i> <i>subsp.maritimus</i>	7	<i>Rumex hydrolapathum</i>	7	<i>Schoenoplectus pungens</i>	7
<i>Reseda lutea</i>	7	<i>Rumex longifolius</i>	7	<i>Schoenoplectus triqueter</i>	7
<i>Rhamnus cathartica</i>	7	<i>Rumex maritimus</i>	7	<i>Schoenus ferrugineus</i>	7
<i>Rhinanthus angustifolius</i>	7	<i>Rumex obtusifolius</i>	7	<i>Schoenus nigricans</i>	7
<i>Ribes rubrum</i>	7	<i>Rumex palustris</i>	7	<i>Scirpoides holoschoenus</i>	7
<i>Ribes spicatum</i>	7	<i>Rumex pseudoalpinus</i>	7	<i>Scrophularia auriculata</i>	7
<i>Ribes uva-crispa</i>	7	<i>Rumex pulcher</i>	7	<i>Scrophularia nodosa</i>	7
<i>Rorippa amphibia</i>	7	<i>Rumex sanguineus</i>	7	<i>Scrophularia umbrosa</i>	7
<i>Rorippa islandica</i>	7	<i>Ruppia cirrhosa</i>	7	<i>Scrophularia vernalis</i>	7
<i>Rorippa microphylla</i>	7	<i>Sagina maritima</i>	7	<i>Secale cereale</i>	7
<i>Rorippa nasturtium-aquaticum</i>	7	<i>Sagina nodosa</i>	7	<i>Sedum acre</i>	7
<i>Rorippa nasturtium-aquaticum</i> <i>agg.</i>	7	<i>Sagittaria sagittifolia</i>	7	<i>Sedum telephium</i>	7
<i>Rorippa palustris</i>	7	<i>Salix arbuscula</i>	7	<i>Senecio cambrensis</i>	7
<i>Rorippa sylvestris</i>	7	<i>Salix caprea</i>	7	<i>Senecio cineraria</i>	7
<i>Rosa arvensis</i>	7	<i>Salix fragilis</i>	7	<i>Senecio erucifolius</i>	7
<i>Rosa caesia</i>	7	<i>Salix lanata</i>	7	<i>Senecio paludosus</i>	7
<i>Rosa canina agg.</i>	7	<i>Salix purpurea</i>	7	<i>Senecio squalidus</i>	7
<i>Rosa canina sens.str.</i>	7	<i>Salix triandra</i>	7	<i>Senecio viscosus</i>	7
<i>Rosa micrantha</i>	7	<i>Salsola kali</i>	7	<i>Senecio vulgaris</i>	7
<i>Rosa mollis</i>	7	<i>Salvia verbenaca</i>	7	<i>Serapias parviflora</i>	7
<i>Rosa mollis agg.</i>	7	<i>Sambucus nigra</i>	7	<i>Setaria viridis</i>	7

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
<i>Silaum silaus</i>	7	<i>Stachys sylvatica</i>	7	<i>Ulmus glabra</i>	7
<i>Silene latifolia</i>	7	<i>Stratiotes aloides</i>	7	<i>Ulmus minor</i>	7
<i>Silene noctiflora</i>	7	<i>Symphytum asperum x officinale</i> (<i>S. x uplandicum</i>)	7	<i>Ulmus plotii</i>	7
<i>Silene otites</i>	7	<i>Symphytum officinale</i>	7	<i>Urtica dioica</i>	7
<i>Sinapis alba</i>	7	<i>Symphytum orientale</i>	7	<i>Utricularia vulgaris sens.str.</i>	7
<i>Sinapis arvensis</i>	7	<i>Tamus communis</i>	7	<i>Valerianella dentata</i>	7
<i>Sison amomum</i>	7	<i>Tanacetum parthenium</i>	7	<i>Verbascum lychnitis</i>	7
<i>Sisymbrium officinale</i>	7	<i>Tanacetum vulgare</i>	7	<i>Verbascum nigrum</i>	7
<i>Sisymbrium orientale</i>	7	<i>Taraxacum</i>	7	<i>Verbascum pulverulentum</i>	7
<i>Sium latifolium</i>	7	<i>Taxus baccata</i>	7	<i>Verbascum thapsus</i>	7
<i>Smyrniolum olusatrum</i>	7	<i>Tephrosia palustris</i>	7	<i>Verbena officinalis</i>	7
<i>Solanum dulcamara</i>	7	<i>Thalictrum flavum</i>	7	<i>Veronica anagallis-aquatica</i>	7
<i>Solanum nigrum</i>	7	<i>Thelypteris palustris</i>	7	<i>Veronica catenata</i>	7
<i>Solanum sarachoides</i>	7	<i>Thlaspi arvense</i>	7	<i>Veronica filiformis</i>	7
<i>Soleirolia soleirolia</i>	7	<i>Tilia platyphyllos</i>	7	<i>Veronica fruticans</i>	7
<i>Sonchus arvensis</i>	7	<i>Tofieldia pusilla</i>	7	<i>Veronica hederifolia</i>	7
<i>Sonchus asper</i>	7	<i>Tolmiea menziesii</i>	7	<i>Veronica persica</i>	7
<i>Sonchus oleraceus</i>	7	<i>Torilis japonica</i>	7	<i>Veronica polita</i>	7
<i>Sonchus palustris</i>	7	<i>Torilis nodosa</i>	7	<i>Veronica spicata</i>	7
<i>Sorbus aria</i>	7	<i>Tragopogon pratensis</i>	7	<i>Veronica triphyllos</i>	7
<i>Sorbus aria agg.</i>	7	<i>Trichomanes speciosum</i>	7	<i>Viburnum lantana</i>	7
<i>Sorbus eminens</i>	7	<i>Trifolium fragiferum</i>	7	<i>Vicia cracca</i>	7
<i>Sorbus hibernica</i>	7	<i>Trifolium hybridum</i>	7	<i>Vicia faba</i>	7
<i>Sorbus lancastriensis</i>	7	<i>Trifolium pratense</i>	7	<i>Vicia lutea</i>	7
<i>Sorbus leptophylla</i>	7	<i>Trifolium scabrum</i>	7	<i>Vicia parviflora</i>	7
<i>Sorbus porrigentiformis</i>	7	<i>Trifolium squamosum</i>	7	<i>Vicia sativa</i>	7
<i>Sorbus rupicola</i>	7	<i>Triglochin maritimum</i>	7	<i>Vicia sylvatica</i>	7
<i>Sparganium emersum</i>	7	<i>Trisetum flavescens</i>	7	<i>Vicia tetrasperma</i>	7
<i>Sparganium erectum</i>	7	<i>Triticum aestivum</i>	7	<i>Vinca major</i>	7
<i>Spirodela polyrhiza</i>	7	<i>Typha angustifolia</i>	7	<i>Vinca minor</i>	7
<i>Stachys palustris</i>	7	<i>Typha latifolia</i>	7	<i>Viola odorata</i>	7

<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R
<i>Viola persicifolia</i>	7	<i>Angelica sylvestris</i>	6	<i>Carex dioica</i>	6
<i>Viola reichenbachiana</i>	7	<i>Anthemis cotula</i>	6	<i>Carex disticha</i>	6
<i>Vulpia ciliata</i>	7	<i>Anthriscus caucalis</i>	6	<i>Carex elongata</i>	6
<i>Vulpia fasciculata</i>	7	<i>Aphanes arvensis</i>	6	<i>Carex flacca</i>	6
<i>Wolffia arrhiza</i>	7	<i>Aphanes arvensis agg.</i>	6	<i>Carex hostiana</i>	6
<i>Acaena novae-zelandiae</i>	6	<i>Apium inundatum</i>	6	<i>Carex lasiocarpa</i>	6
<i>Acer pseudoplatanus</i>	6	<i>Aquilegia vulgaris</i>	6	<i>Carex muricata</i>	6
<i>Achillea millefolium</i>	6	<i>Arabidopsis thaliana</i>	6	<i>Carex paniculata</i>	6
<i>Adoxa moschatellina</i>	6	<i>Armeria arenaria</i>	6	<i>Carex pseudocyperus</i>	6
<i>Aegopodium podagraria</i>	6	<i>Artemisia campestris</i>	6	<i>Carex remota</i>	6
<i>Agrostemma githago</i>	6	<i>Arum italicum</i>	6	<i>Carex spicata</i>	6
<i>Agrostis gigantea</i>	6	<i>Asparagus officinalis</i>	6	<i>Carex sylvatica</i>	6
<i>Alchemilla acutiloba</i>	6	<i>Asparagus officinalis</i> <i>subsp.officinalis</i>	6	<i>Carex vaginata</i>	6
<i>Alchemilla filicaulis</i>	6	<i>Asparagus officinalis</i> <i>subsp.prostratus</i>	6	<i>Carex viridula</i>	6
<i>Alchemilla glabra</i>	6	<i>Astragalus alpinus</i>	6	<i>Centaurea cyanus</i>	6
<i>Alchemilla monticola</i>	6	<i>Baldellia ranunculooides</i>	6	<i>Centaurea nigra</i>	6
<i>Alchemilla subcrenata</i>	6	<i>Barbarea intermedia</i>	6	<i>Centaureum erythraea</i>	6
<i>Alchemilla vulgaris agg.</i>	6	<i>Barbarea verna</i>	6	<i>Cerastium alpinum</i>	6
<i>Alchemilla xanthochlora</i>	6	<i>Bellis perennis</i>	6	<i>Cerastium diffusum</i>	6
<i>Allium ampeloprasum</i>	6	<i>Botrychium lunaria</i>	6	<i>Cerastium glomeratum</i>	6
<i>Allium roseum</i>	6	<i>Brachypodium sylvaticum</i>	6	<i>Cerastium semidecandrum</i>	6
<i>Allium triquetrum</i>	6	<i>Calamagrostis purpurea</i>	6	<i>Ceratochloa carinata</i>	6
<i>Alnus glutinosa</i>	6	<i>Calamagrostis scotica</i>	6	<i>Chamaecyparis lawsoniana</i>	6
<i>Alnus incana</i>	6	<i>Callitriche hamulata</i>	6	<i>Chamerion angustifolium</i>	6
<i>Alopecurus geniculatus</i>	6	<i>Callitriche stagnalis</i>	6	<i>Chenopodium ficifolium</i>	6
<i>Alopecurus pratensis</i>	6	<i>Callitriche stagnalis sens.lat.</i>	6	<i>Chenopodium murale</i>	6
<i>Ammophila arenaria</i>	6	<i>Caltha palustris</i>	6	<i>Chrysanthemum segetum</i>	6
<i>Anagallis arvensis</i>	6	<i>Cardamine flexuosa</i>	6	<i>Chrysosplenium alternifolium</i>	6
<i>Anaphalis margaritacea</i>	6	<i>Cardamine hirsuta</i>	6	<i>Cicerbita alpina</i>	6
<i>Anchusa arvensis</i>	6	<i>Carex atrata</i>	6	<i>Cicerbita macrophylla</i>	6

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
<i>Circaea alpina x lutetiana (C. x intermedia)</i>	6	<i>Erodium maritimum</i>	6	<i>Galeopsis tetrahit</i>	6
<i>Cirsium heterophyllum</i>	6	<i>Erodium moschatum</i>	6	<i>Galeopsis tetrahit agg.</i>	6
<i>Cirsium vulgare</i>	6	<i>Erophila verna</i>	6	<i>Galinsoga parviflora</i>	6
<i>Claytonia sibirica</i>	6	<i>Eryngium maritimum</i>	6	<i>Galinsoga quadriradiata</i>	6
<i>Coeloglossum viride</i>	6	<i>Eupatorium cannabinum</i>	6	<i>Galium uliginosum</i>	6
<i>Coincya monensis</i>	6	<i>Euphorbia amygdaloides</i>	6	<i>Galium verum</i>	6
<i>Colchicum autumnale</i>	6	<i>Euphorbia helioscopia</i>	6	<i>Gaudinia fragilis</i>	6
<i>Convallaria majalis</i>	6	<i>Euphrasia arctica</i>	6	<i>Gentianella campestris</i>	6
<i>Coriandrum sativum</i>	6	<i>Euphrasia confusa</i>	6	<i>Geranium molle</i>	6
<i>Coronopus didymus</i>	6	<i>Euphrasia foulaensis</i>	6	<i>Geranium phaeum</i>	6
<i>Corylus avellana</i>	6	<i>Euphrasia heslop-harrisonii</i>	6	<i>Geranium purpureum</i>	6
<i>Cotoneaster simonsii</i>	6	<i>Euphrasia marshallii</i>	6	<i>Geranium robertianum</i>	6
<i>Crassula helmsii</i>	6	<i>Euphrasia nemorosa</i>	6	<i>Geranium sylvaticum</i>	6
<i>Crepis foetida</i>	6	<i>Euphrasia tetraquetra</i>	6	<i>Geum rivale</i>	6
<i>Crepis paludosa</i>	6	<i>Fallopia dumetorum</i>	6	<i>Glyceria declinata</i>	6
<i>Cuscuta europaea</i>	6	<i>Fallopia japonica</i>	6	<i>Glyceria fluitans</i>	6
<i>Cynosurus cristatus</i>	6	<i>Fallopia sachalinensis</i>	6	<i>Glyceria notata</i>	6
<i>Dactylorhiza incarnata</i>	6	<i>Festuca armoricana</i>	6	<i>Gnaphalium uliginosum</i>	6
<i>Dactylorhiza lapponica</i>	6	<i>Festuca pratensis</i>	6	<i>Heracleum mantegazzianum</i>	6
<i>Doronicum pardalianches</i>	6	<i>Festuca rubra</i>	6	<i>Herniaria glabra</i>	6
<i>Eleocharis palustris</i>	6	<i>Festuca rubra agg.</i>	6	<i>Hippuris vulgaris</i>	6
<i>Epilobium alsinifolium</i>	6	<i>Filago vulgaris</i>	6	<i>Holcus lanatus</i>	6
<i>Epilobium anagallidifolium</i>	6	<i>Filipendula ulmaria</i>	6	<i>Hyacinthoides hispanica</i>	6
<i>Epilobium ciliatum</i>	6	<i>Fragaria vesca</i>	6	<i>Hydrocotyle vulgaris</i>	6
<i>Epilobium lanceolatum</i>	6	<i>Fumaria bastardii</i>	6	<i>Hypericum androsaemum</i>	6
<i>Epilobium montanum</i>	6	<i>Fumaria capreolata</i>	6	<i>Hypericum tetrapterum</i>	6
<i>Equisetum arvense</i>	6	<i>Fumaria muralis</i>	6	<i>Inula helenium</i>	6
<i>Equisetum fluviatile</i>	6	<i>Fumaria occidentalis</i>	6	<i>Iris germanica</i>	6
<i>Equisetum palustre</i>	6	<i>Fumaria purpurea</i>	6	<i>Iris pseudacorus</i>	6
<i>Erodium cicutarium</i>	6	<i>Fumaria reuteri</i>	6	<i>Juncus articulatus</i>	6
<i>Erodium cicutarium agg.</i>	6	<i>Galeopsis bifida</i>	6	<i>Juncus bufonius</i>	6

<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R
<i>Juncus bufonius sens.lat.</i>	6	<i>Milium vernale</i>	6	<i>Oxalis incarnata</i>	6
<i>Juncus filiformis</i>	6	<i>Mimulus</i>	6	<i>Oxalis latifolia</i>	6
<i>Juncus foliosus</i>	6	<i>Mimulus guttatus</i>	6	<i>Oxalis pes-caprae</i>	6
<i>Juncus triglumis</i>	6	<i>Misopates orontium</i>	6	<i>Oxalis stricta</i>	6
<i>Kickxia elatine</i>	6	<i>Monotropa hypopitys</i>	6	<i>Papaver argemone</i>	6
<i>Koenigia islandica</i>	6	<i>Myosotis arvensis</i>	6	<i>Papaver dubium</i>	6
<i>Larix decidua</i>	6	<i>Myosotis laxa</i>	6	<i>Pentaglottis sempervirens</i>	6
<i>Lathyrus pratensis</i>	6	<i>Myosotis ramosissima</i>	6	<i>Persicaria amphibia</i>	6
<i>Leontodon autumnalis</i>	6	<i>Myosotis scorpioides</i>	6	<i>Persicaria bistorta</i>	6
<i>Leontodon saxatilis</i>	6	<i>Myosotis sicula</i>	6	<i>Persicaria hydropiper</i>	6
<i>Limonium auriculae-ursifolium</i>	6	<i>Myosurus minimus</i>	6	<i>Persicaria maculosa</i>	6
<i>Limonium normannicum</i>	6	<i>Narcissus pseudonarcissus</i>	6	<i>Persicaria mitis</i>	6
<i>Lolium perenne</i>	6	<i>Nuphar pumila</i>	6	<i>Persicaria vivipara</i>	6
<i>Lotus corniculatus</i>	6	<i>Nymphaea alba</i>	6	<i>Petasites fragrans</i>	6
<i>Lotus pedunculatus</i>	6	<i>Odontites vernus</i>	6	<i>Petrorhagia nanteuillii</i>	6
<i>Lotus subbiflorus</i>	6	<i>Oenanthe crocata</i>	6	<i>Petrorhagia prolifera sens.lat.</i>	6
<i>Lychnis flos-cuculi</i>	6	<i>Oenanthe pimpinelloides</i>	6	<i>Phalaris minor</i>	6
<i>Lysichiton americanus</i>	6	<i>Oenothera</i>	6	<i>Phleum alpinum</i>	6
<i>Lythrum hyssopifolium</i>	6	<i>Oenothera biennis</i>	6	<i>Phyteuma spicatum</i>	6
<i>Mahonia aquifolium</i>	6	<i>Oenothera biennis x glazoviana</i> (<i>O. x fallax</i>)	6	<i>Pilosella aurantiaca</i>	6
<i>Malus domestica</i>	6	<i>Oenothera cambrica</i>	6	<i>Pilosella flagellaris</i> <i>subsp.bicapitata</i>	6
<i>Malus sylvestris sens.lat.</i>	6	<i>Oenothera glazioviana</i>	6	<i>Pinguicula vulgaris</i>	6
<i>Malus sylvestris sens.str.</i>	6	<i>Ononis repens</i>	6	<i>Plantago coronopus</i>	6
<i>Medicago arabica</i>	6	<i>Onopordum acanthium</i>	6	<i>Plantago lanceolata</i>	6
<i>Medicago sativa</i>	6	<i>Ornithogalum angustifolium</i>	6	<i>Plantago major</i>	6
<i>Medicago sativa subsp.sativa</i>	6	<i>Orobanche hederaceae</i>	6	<i>Plantago maritima</i>	6
<i>Mentha suaveolens</i>	6	<i>Oxalis corniculata</i>	6	<i>Platanthera bifolia</i>	6
<i>Mespilus germanica</i>	6	<i>Oxalis debilis</i>	6	<i>Poa annua</i>	6
<i>Milium effusum</i>	6	<i>Oxalis exilis</i>	6	<i>Poa chaixii</i>	6

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
<i>Poa glauca</i>	6	<i>Pyrus communis sens.lat.</i>	6	<i>Salix myrsinites</i>	6
<i>Poa humilis</i>	6	<i>Pyrus communis sens.str.</i>	6	<i>Salix pentandra</i>	6
<i>Poa nemoralis</i>	6	<i>Quercus cerris</i>	6	<i>Salix repens</i>	6
<i>Poa pratensis sens.lat.</i>	6	<i>Ranunculus acris</i>	6	<i>Salix viminalis</i>	6
<i>Poa pratensis sens.str.</i>	6	<i>Ranunculus auricomus</i>	6	<i>Sambucus racemosa</i>	6
<i>Poa trivialis</i>	6	<i>Ranunculus ficaria</i>	6	<i>Sanguisorba officinalis</i>	6
<i>Polycarpon tetraphyllum</i>	6	<i>Ranunculus lingua</i>	6	<i>Saponaria officinalis</i>	6
<i>Polygala vulgaris</i>	6	<i>Ranunculus paludosus</i>	6	<i>Saussurea alpina</i>	6
<i>Polygonum aviculare</i>	6	<i>Ranunculus parviflorus</i>	6	<i>Saxifraga aizoides</i>	6
<i>Polygonum boreale</i>	6	<i>Ranunculus repens</i>	6	<i>Saxifraga granulata</i>	6
<i>Populus alba x tremula (P. x canescens)</i>	6	<i>Ranunculus reptans</i>	6	<i>Saxifraga hirculus</i>	6
<i>Potamogeton alpinus</i>	6	<i>Ranunculus sardous</i>	6	<i>Saxifraga hypnoides</i>	6
<i>Potamogeton berchtoldii</i>	6	<i>Ranunculus trichophyllus</i>	6	<i>Scilla autumnalis</i>	6
<i>Potamogeton gramineus</i>	6	<i>Ranunculus tripartitus</i>	6	<i>Scirpus sylvaticus</i>	6
<i>Potamogeton gramineus x lucens (P. x zizii)</i>	6	<i>Raphanus raphanistrum</i>	6	<i>Scrophularia scorodonia</i>	6
<i>Potamogeton gramineus x perfoliatus (P. x nitens)</i>	6	<i>Raphanus raphanistrum subsp.raphanistrum</i>	6	<i>Scutellaria galericulata</i>	6
<i>Potamogeton lucens</i>	6	<i>Rhinanthus minor</i>	6	<i>Sedum album</i>	6
<i>Potamogeton natans</i>	6	<i>Ribes nigrum</i>	6	<i>Sedum rosea</i>	6
<i>Potamogeton obtusifolius</i>	6	<i>Robinia pseudoacacia</i>	6	<i>Sedum villosum</i>	6
<i>Potamogeton perfoliatus</i>	6	<i>Rosa pimpinellifolia</i>	6	<i>Selaginella selaginoides</i>	6
<i>Potentilla rupestris</i>	6	<i>Rosa rugosa</i>	6	<i>Senecio aquaticus</i>	6
<i>Primula vulgaris</i>	6	<i>Rosa sherardii</i>	6	<i>Senecio fluviatilis</i>	6
<i>Prunella vulgaris</i>	6	<i>Rubus fruticosus agg.</i>	6	<i>Senecio jacobaea</i>	6
<i>Prunus avium</i>	6	<i>Sagina apetala</i>	6	<i>Senecio smithii</i>	6
<i>Prunus cerasus</i>	6	<i>Sagina procumbens</i>	6	<i>Serratula tinctoria</i>	6
<i>Prunus padus</i>	6	<i>Sagina saginoides</i>	6	<i>Sherardia arvensis</i>	6
<i>Pseudorchis albida</i>	6	<i>Sagina subulata</i>	6	<i>Silene acaulis</i>	6
<i>Pulicaria vulgaris</i>	6	<i>Salix cinerea</i>	6	<i>Silene dioica</i>	6
<i>Pulmonaria longifolia</i>	6	<i>Salix lapponum</i>	6	<i>Silene uniflora</i>	6

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
<i>Sisymbrium altissimum</i>	6	<i>Trifolium campestre</i>	6	<i>Viola arvensis</i>	6
<i>Sisyrinchium bermudiana</i>	6	<i>Trifolium dubium</i>	6	<i>Viola tricolor</i>	6
<i>Solanum tuberosum</i>	6	<i>Trifolium incarnatum</i> <i>subsp.incarnatum</i>	6	<i>Viscum album</i>	6
<i>Solidago canadensis</i>	6	<i>Trifolium medium</i>	6	<i>Vulpia myuros</i>	6
<i>Sorbus devoniensis</i>	6	<i>Trifolium occidentale</i>	6	<i>Achillea ptarmica</i>	5
<i>Sorbus torminalis</i>	6	<i>Trifolium repens</i>	6	<i>Aira caryophylla</i>	5
<i>Sparganium natans</i>	6	<i>Triglochin palustre</i>	6	<i>Ajuga pyramidalis</i>	5
<i>Spergularia bocconeii</i>	6	<i>Tripleurospermum inodorum</i>	6	<i>Ajuga reptans</i>	5
<i>Spergularia rupicola</i>	6	<i>Tripleurospermum maritimum</i>	6	<i>Alchemilla glomerulans</i>	5
<i>Spiranthes romanzoffiana</i>	6	<i>Tripleurospermum maritimum</i> <i>sens.lat.</i>	6	<i>Alchemilla wichurae</i>	5
<i>Spiranthes spiralis</i>	6	<i>Trollius europaeus</i>	6	<i>Allium paradoxum</i>	5
<i>Stachys palustris x sylvatica</i> <i>(S. x ambigua)</i>	6	<i>Tussilago farfara</i>	6	<i>Allium schoenoprasum</i>	5
<i>Stellaria holostea</i>	6	<i>Urtica urens</i>	6	<i>Alopecurus borealis</i>	5
<i>Stellaria media</i>	6	<i>Utricularia vulgaris sens.lat.</i>	6	<i>Anagallis minima</i>	5
<i>Stellaria neglecta</i>	6	<i>Valeriana dioica</i>	6	<i>Anagallis tenella</i>	5
<i>Stellaria nemorum</i>	6	<i>Valeriana officinalis</i>	6	<i>Anemone nemorosa</i>	5
<i>Stellaria palustris</i>	6	<i>Valerianella locusta</i>	6	<i>Anisantha diandra</i>	5
<i>Symphoricarpos albus</i>	6	<i>Veronica agrestis</i>	6	<i>Apera spica-venti</i>	5
<i>Symphytum tuberosum</i>	6	<i>Veronica arvensis</i>	6	<i>Aphanes australis</i>	5
<i>Syringa vulgaris</i>	6	<i>Veronica beccabunga</i>	6	<i>Armeria maritima</i>	5
<i>Tellima grandiflora</i>	6	<i>Veronica chamaedrys</i>	6	<i>Asplenium adiantum-nigrum</i>	5
<i>Thalictrum alpinum</i>	6	<i>Veronica montana</i>	6	<i>Asplenium adiantum-nigrum</i> <i>sens.lat.</i>	5
<i>Thalictrum minus</i>	6	<i>Veronica serpyllifolia</i>	6	<i>Asplenium marinum</i>	5
<i>Thlaspi caeruleum</i>	6	<i>Viburnum opulus</i>	6	<i>Athyrium filix-femina</i>	5
<i>Thymus polytrichus</i>	6	<i>Vicia bithynica</i>	6	<i>Avena strigosa</i>	5
<i>Tilia cordata</i>	6	<i>Vicia hirsuta</i>	6	<i>Briza minor</i>	5
<i>Tilia cordata x platyphyllos (T.</i> <i>x europaea)</i>	6	<i>Vicia sepium</i>	6	<i>Bromus secalinus</i>	5
<i>Tordylium maximum</i>	6	<i>Vicia villosa</i>	6	<i>Callitriche brutia</i>	5

<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R
<i>Callitriche hamulata sens.lat.</i>	5	<i>Damasonium alisma</i>	5	<i>Filago gallica</i>	5
<i>Campanula rotundifolia</i>	5	<i>Deschampsia cespitosa</i>	5	<i>Frangula alnus</i>	5
<i>Cardamine pratensis</i>	5	<i>Dianthus armeria</i>	5	<i>Fuchsia magellanica</i>	5
<i>Carex arenaria</i>	5	<i>Dianthus deltoides</i>	5	<i>Gagea bohemica</i>	5
<i>Carex diandra</i>	5	<i>Digitaria ischaemum</i>	5	<i>Galium palustre</i>	5
<i>Carex laevigata</i>	5	<i>Digitaria sanguinalis</i>	5	<i>Gladiolus communis</i>	5
<i>Carex ovalis</i>	5	<i>Dryopteris affinis</i>	5	<i>Gladiolus illyricus</i>	5
<i>Carex pallescens</i>	5	<i>Dryopteris carthusiana</i>	5	<i>Gnaphalium luteoalbum</i>	5
<i>Carex pulicaris</i>	5	<i>Dryopteris filix-mas</i>	5	<i>Helianthus annuus</i>	5
<i>Carex vesicaria</i>	5	<i>Dryopteris filix-mas agg.</i>	5	<i>Herniaria ciliolata</i>	5
<i>Carpinus betulus</i>	5	<i>Echium plantagineum</i>	5	<i>Hyacinthoides non-scripta</i>	5
<i>Castanea sativa</i>	5	<i>Elatine hexandra</i>	5	<i>Hypericum calycinum</i>	5
<i>Centaurium scilloides</i>	5	<i>Elatine hydropiper</i>	5	<i>Hypericum maculatum</i>	5
<i>Cerastium arvense</i>	5	<i>Eleocharis austriaca</i>	5	<i>Hypochaeris radicata</i>	5
<i>Cerastium cerastoides</i>	5	<i>Epilobium obscurum</i>	5	<i>Ilex aquifolium</i>	5
<i>Cerastium fontanum</i>	5	<i>Epilobium palustre</i>	5	<i>Isoetes echinospora</i>	5
<i>Cerastium nigrescens</i>	5	<i>Epilobium tetragonum</i>	5	<i>Isoetes histrix</i>	5
<i>Ceratochloa cathartica</i>	5	<i>Epipactis youngiana</i>	5	<i>Isolepis cernua</i>	5
<i>Chamaemelum nobile</i>	5	<i>Equisetum pratense</i>	5	<i>Isolepis setacea</i>	5
<i>Chrysosplenium oppositifolium</i>	5	<i>Equisetum sylvaticum</i>	5	<i>Juncus balticus</i>	5
<i>Circaea alpina</i>	5	<i>Euphorbia hyberna</i>	5	<i>Juncus capitatus</i>	5
<i>Cirsium palustre</i>	5	<i>Euphrasia anglica</i>	5	<i>Juncus tenuis</i>	5
<i>Claytonia perfoliata</i>	5	<i>Euphrasia cambrica</i>	5	<i>Juniperus communis</i>	5
<i>Conopodium majus</i>	5	<i>Euphrasia officinalis agg.</i>	5	<i>Larix decidua x kaempferi (L. x marschlinsii)</i>	5
<i>Corallorhiza trifida</i>	5	<i>Euphrasia ostenfeldii</i>	5	<i>Larix kaempferi</i>	5
<i>Cornus sericea</i>	5	<i>Euphrasia rostkoviana</i>	5	<i>Lavatera cretica</i>	5
<i>Corrigiola litoralis</i>	5	<i>Euphrasia scottica</i>	5	<i>Lepidium heterophyllum</i>	5
<i>Crassula aquatica</i>	5	<i>Fagus sylvatica</i>	5	<i>Limosella aquatica</i>	5
<i>Cyperus fuscus</i>	5	<i>Festuca arenaria</i>	5	<i>Linaria pelisseriana</i>	5
<i>Dactylorhiza majalis</i>	5	<i>Festuca longifolia</i>	5	<i>Littorella uniflora</i>	5

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
<i>Lloydia serotina</i>	5	<i>Petasites albus</i>	5	<i>Rumex rupestris</i>	5
<i>Lobelia dortmanna</i>	5	<i>Petrorhagia prolifera</i>	5	<i>Salix myrsinifolia</i>	5
<i>Lonicera periclymenum</i>	5	<i>Phleum arenarium</i>	5	<i>Salix phylicifolia</i>	5
<i>Lupinus polyphyllus</i>	5	<i>Pinus contorta</i>	5	<i>Saxifraga hirsuta</i>	5
<i>Luronium natans</i>	5	<i>Pinus nigra</i>	5	<i>Saxifraga rivularis</i>	5
<i>Luzula campestris</i>	5	<i>Poa bulbosa</i>	5	<i>Saxifraga stellaris</i>	5
<i>Luzula forsteri</i>	5	<i>Poa infirma</i>	5	<i>Scilla verna</i>	5
<i>Luzula pallidula</i>	5	<i>Polygonatum verticillatum</i>	5	<i>Scorzonera humilis</i>	5
<i>Luzula pilosa</i>	5	<i>Polygonum maritimum</i>	5	<i>Sedum forsterianum</i>	5
<i>Lysimachia nummularia</i>	5	<i>Polypodium interjectum</i>	5	<i>Sedum rupestre</i>	5
<i>Lythrum portula</i>	5	<i>Polypodium vulgare sens.lat.</i>	5	<i>Senecio sylvaticus</i>	5
<i>Malva pusilla</i>	5	<i>Polystichum setiferum</i>	5	<i>Sibthorpia europaea</i>	5
<i>Medicago polymorpha</i>	5	<i>Populus tremula</i>	5	<i>Silene gallica</i>	5
<i>Mentha pulegium</i>	5	<i>Potamogeton epihydrus</i>	5	<i>Solidago gigantea</i>	5
<i>Mimulus luteus</i>	5	<i>Potentilla anglica</i>	5	<i>Spergula arvensis</i>	5
<i>Mimulus moschatus</i>	5	<i>Potentilla argentea</i>	5	<i>Stachys arvensis</i>	5
<i>Montia fontana</i>	5	<i>Potentilla palustris</i>	5	<i>Stachys officinalis</i>	5
<i>Myosotis discolor</i>	5	<i>Potentilla sterilis</i>	5	<i>Stellaria graminea</i>	5
<i>Myosotis secunda</i>	5	<i>Prunus laurocerasus</i>	5	<i>Stellaria media agg.</i>	5
<i>Myosotis stolonifera</i>	5	<i>Pyrola media</i>	5	<i>Stellaria uliginosa</i>	5
<i>Myriophyllum alterniflorum</i>	5	<i>Pyrus cordata</i>	5	<i>Subularia aquatica</i>	5
<i>Myriophyllum aquaticum</i>	5	<i>Quercus robur</i>	5	<i>Succisa pratensis</i>	5
<i>Ophioglossum azoricum</i>	5	<i>Ranunculus flammula</i>	5	<i>Thuja plicata</i>	5
<i>Ophioglossum lusitanicum</i>	5	<i>Ranunculus hederaceus</i>	5	<i>Thymus serpyllum</i>	5
<i>Orthilia secunda</i>	5	<i>Ranunculus muricatus</i>	5	<i>Trifolium arvense</i>	5
<i>Osmunda regalis</i>	5	<i>Ranunculus omiophyllum</i>	5	<i>Trifolium bocconeii</i>	5
<i>Otanthus maritimus</i>	5	<i>Ranunculus peltatus</i>	5	<i>Trifolium glomeratum</i>	5
<i>Oxyria digyna</i>	5	<i>Romulea columnae</i>	5	<i>Trifolium incarnatum</i>	5
<i>Pedicularis palustris</i>	5	<i>Rubus idaeus</i>	5	<i>Trifolium incarnatum subsp.molinerii</i>	5
<i>Persicaria minor</i>	5	<i>Rubus spectabilis</i>	5	<i>Trifolium micranthum</i>	5
<i>Persicaria wallichii</i>	5	<i>Rumex acetosa</i>	5	<i>Trifolium ornithopodioides</i>	5

<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R
<i>Trifolium striatum</i>	5	<i>Briza maxima</i>	4	<i>Eriocaulon aquaticum</i>	4
<i>Trifolium strictum</i>	5	<i>Calamagrostis stricta</i>	4	<i>Eriophorum angustifolium</i>	4
<i>Tuberaria guttata</i>	5	<i>Carex aquatilis</i>	4	<i>Eriophorum gracile</i>	4
<i>Ulex europaeus</i>	5	<i>Carex chordorrhiza</i>	4	<i>Euphrasia campbelliae</i>	4
<i>Umbilicus rupestris</i>	5	<i>Carex lachenalii</i>	4	<i>Euphrasia frigida</i>	4
<i>Utricularia australis</i>	5	<i>Carex limosa</i>	4	<i>Euphrasia vigursii</i>	4
<i>Utricularia stygia</i>	5	<i>Carex montana</i>	4	<i>Festuca altissima</i>	4
<i>Valeriana pyrenaica</i>	5	<i>Carex nigra</i>	4	<i>Festuca huonii</i>	4
<i>Verbascum virgatum</i>	5	<i>Carex panicea</i>	4	<i>Festuca ovina</i>	4
<i>Veronica alpina</i>	5	<i>Carex rostrata</i>	4	<i>Festuca ovina agg.</i>	4
<i>Veronica scutellata</i>	5	<i>Carex viridula subsp.oedocarpa</i>	4	<i>Filago lutescens</i>	4
<i>Veronica verna</i>	5	<i>Carpobrotus edulis</i>	4	<i>Filago minima</i>	4
<i>Vicia lathyroides</i>	5	<i>Carum verticillatum</i>	4	<i>Gaultheria shallon</i>	4
<i>Vicia orobus</i>	5	<i>Cerastium arcticum</i>	4	<i>Genista pilosa</i>	4
<i>Viola canina</i>	5	<i>Ceratocarpus claviculata</i>	4	<i>Gentiana pneumonanthe</i>	4
<i>Viola kitaibeliana</i>	5	<i>Cirsium dissectum</i>	4	<i>Gnaphalium norvegicum</i>	4
<i>Viola lutea</i>	5	<i>Coincya wrightii</i>	4	<i>Gnaphalium sylvaticum</i>	4
<i>Viola riviniana</i>	5	<i>Crassula tillaea</i>	4	<i>Gymnocarpium dryopteris</i>	4
<i>Vulpia bromoides</i>	5	<i>Crococsmia aurea x pottsii (C. x crocosmiiflora)</i>	4	<i>Homogyne alpina</i>	4
<i>Woodsia ilvensis</i>	5	<i>Cytisus scoparius</i>	4	<i>Hypericum humifusum</i>	4
<i>Agrostis capillaris</i>	4	<i>Danthonia decumbens</i>	4	<i>Hypericum pulchrum</i>	4
<i>Aira praecox</i>	4	<i>Diapensia lapponica</i>	4	<i>Hypericum undulatum</i>	4
<i>Alchemilla alpina</i>	4	<i>Digitalis purpurea</i>	4	<i>Hypochaeris glabra</i>	4
<i>Alopecurus aequalis</i>	4	<i>Disphyma crassifolium</i>	4	<i>Isoetes lacustris</i>	4
<i>Antennaria dioica</i>	4	<i>Dryopteris cristata</i>	4	<i>Jasione montana</i>	4
<i>Anthoxanthum aristatum</i>	4	<i>Dryopteris dilatata</i>	4	<i>Juncus acutiflorus</i>	4
<i>Anthoxanthum odoratum</i>	4	<i>Dryopteris remota</i>	4	<i>Juncus bulbosus</i>	4
<i>Artemisia norvegica</i>	4	<i>Eleocharis multicaulis</i>	4	<i>Juncus conglomeratus</i>	4
<i>Asplenium obovatum</i>	4	<i>Eleogiton fluitans</i>	4	<i>Juncus effusus</i>	4
<i>Betula pendula</i>	4	<i>Epilobium brunnescens</i>	4	<i>Juncus pygmaeus</i>	4
<i>Betula pubescens</i>	4	<i>Erica vagans</i>	4	<i>Lathyrus linifolius</i>	4

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
<i>Limonium loganicum</i>	4	<i>Scleranthus annuus</i>	4	<i>Carex binervis</i>	3
<i>Lobelia urens</i>	4	<i>Scleranthus perennis</i>	4	<i>Carex curta</i>	3
<i>Lotus angustissimus</i>	4	<i>Scutellaria minor</i>	4	<i>Carex echinata</i>	3
<i>Ludwigia palustris</i>	4	<i>Sedum anglicum</i>	4	<i>Carex pilulifera</i>	3
<i>Luzula sylvatica</i>	4	<i>Sempervivum tectorum</i>	4	<i>Carex rariflora</i>	3
<i>Lychnis alpina</i>	4	<i>Sibbaldia procumbens</i>	4	<i>Cicendia filiformis</i>	3
<i>Lychnis viscaria</i>	4	<i>Silene conica</i>	4	<i>Corynephorus canescens</i>	3
<i>Lysimachia nemorum</i>	4	<i>Simethis planifolia</i>	4	<i>Daboecia cantabrica</i>	3
<i>Lysimachia thyrsoiflora</i>	4	<i>Solidago virgaurea</i>	4	<i>Dactylorhiza maculata</i>	3
<i>Menyanthes trifoliata</i>	4	<i>Sorbus arranensis</i>	4	<i>Dryopteris expansa</i>	3
<i>Meum athamanticum</i>	4	<i>Sorbus pseudofennica</i>	4	<i>Exaculum pusillum</i>	3
<i>Minuartia sedoides</i>	4	<i>Sorbus subcuneata</i>	4	<i>Festuca filiformis</i>	3
<i>Moenchia erecta</i>	4	<i>Sorbus vexans</i>	4	<i>Festuca vivipara</i>	3
<i>Moneses uniflora</i>	4	<i>Sparganium angustifolium</i>	4	<i>Galeopsis segetum</i>	3
<i>Oreopteris limbosperma</i>	4	<i>Spergularia rubra</i>	4	<i>Galium constrictum</i>	3
<i>Ornithopus perpusillus</i>	4	<i>Stellaria pallida</i>	4	<i>Galium saxatile</i>	3
<i>Oxalis acetosella</i>	4	<i>Teucrium scorodonia</i>	4	<i>Genista anglica</i>	3
<i>Oxalis articulata</i>	4	<i>Trifolium subterraneum</i>	4	<i>Gnaphalium supinum</i>	3
<i>Phegopteris connectilis</i>	4	<i>Trifolium suffocatum</i>	4	<i>Goodyera repens</i>	3
<i>Physospermum cornubiense</i>	4	<i>Utricularia intermedia sens.lat.</i>	4	<i>Holcus mollis</i>	3
<i>Pilularia globulifera</i>	4	<i>Utricularia intermedia sens.str.</i>	4	<i>Hymenophyllum wilsonii</i>	3
<i>Pinguicula grandiflora</i>	4	<i>Utricularia minor</i>	4	<i>Hypericum elodes</i>	3
<i>Pinguicula lusitanica</i>	4	<i>Veronica officinalis</i>	4	<i>Hypericum linariifolium</i>	3
<i>Polypodium vulgare</i>	4	<i>Agrostis canina</i>	3	<i>Illecebrum verticillatum</i>	3
<i>Potamogeton polygonifolius</i>	4	<i>Agrostis canina sens.lat.</i>	3	<i>Luzula multiflora</i>	3
<i>Pseudotsuga menziesii</i>	4	<i>Agrostis vinealis</i>	3	<i>Luzula spicata</i>	3
<i>Pyrola minor</i>	4	<i>Amsinckia micrantha</i>	3	<i>Lycopodium annotinum</i>	3
<i>Radiola linoides</i>	4	<i>Arnoseric minima</i>	3	<i>Maianthemum bifolium</i>	3
<i>Rumex acetosella</i>	4	<i>Athyrium distentifolium</i>	3	<i>Minuartia recurva</i>	3
<i>Ruscus aculeatus</i>	4	<i>Athyrium flexile</i>	3	<i>Molinia caerulea</i>	3
<i>Salix aurita</i>	4	<i>Blechnum spicant</i>	3	<i>Myrica gale</i>	3

<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R	<i>Taxon name</i>	Ellenberg R
<i>Nardus stricta</i>	3	<i>Deschampsia setacea</i>	2	<i>Teesdalia nudicaulis</i>	2
<i>Ornithopus pinnatus</i>	3	<i>Diphasiastrum alpinum</i>	2	<i>Trichophorum alpinum</i>	2
<i>Orobanche rapum-genistae</i>	3	<i>Drosera anglica</i>	2	<i>Trichophorum cespitosum</i>	2
<i>Pedicularis sylvatica</i>	3	<i>Drosera intermedia</i>	2	<i>Vaccinium myrtillus</i>	2
<i>Phylodoce caerulea</i>	3	<i>Drosera rotundifolia</i>	2	<i>Vaccinium oxycoccus</i>	2
<i>Picea abies</i>	3	<i>Dryopteris aemula</i>	2	<i>Vaccinium uliginosum</i>	2
<i>Poa flexuosa</i>	3	<i>Dryopteris oreades</i>	2	<i>Vaccinium vitis-idaea</i>	2
<i>Potentilla erecta</i>	3	<i>Empetrum nigrum</i>	2	<i>Viola lactea</i>	2
<i>Pteridium aquilinum</i>	3	<i>Erica cinerea</i>	2	<i>Andromeda polifolia</i>	1
<i>Quercus petraea</i>	3	<i>Erica erigena</i>	2	<i>Betula nana</i>	1
<i>Rhododendron ponticum</i>	3	<i>Erica mackaiana</i>	2	<i>Carex pauciflora</i>	1
<i>Rhynchospora fusca</i>	3	<i>Erica tetralix</i>	2	<i>Cornus suecica</i>	1
<i>Salix herbacea</i>	3	<i>Eriophorum vaginatum</i>	2	<i>Diphasiastrum complanatum</i>	1
<i>Saxifraga spathularis</i>	3	<i>Euphrasia micrantha</i>	2	<i>Erica ciliaris</i>	1
<i>Scheuchzeria palustris</i>	3	<i>Hammarbya paludosa</i>	2	<i>Lycopodium clavatum</i>	1
<i>Sorbus aucuparia</i>	3	<i>Huperzia selago</i>	2	<i>Rubus chamaemorus</i>	1
<i>Trientalis europaea</i>	3	<i>Hymenophyllum tunbrigense</i>	2	<i>Ulex minor</i>	1
<i>Tsuga heterophylla</i>	3	<i>Hypericum canadense</i>	2	<i>Vaccinium microcarpum</i>	1
<i>Ulex gallii</i>	3	<i>Juncus squarrosus</i>	2		
<i>Utricularia ochroleuca</i>	3	<i>Juncus trifidus</i>	2		
<i>Viola palustris</i>	3	<i>Linnaea borealis</i>	2		
<i>Wahlenbergia hederacea</i>	3	<i>Listera cordata</i>	2		
<i>Agrostis curtisii</i>	2	<i>Loiseleuria procumbens</i>	2		
<i>Arctostaphylos alpinus</i>	2	<i>Luzula arcuata</i>	2		
<i>Arctostaphylos uva-ursi</i>	2	<i>Lycopodiella inundata</i>	2		
<i>Asplenium septentrionale</i>	2	<i>Melampyrum pratense</i>	2		
<i>Calluna vulgaris</i>	2	<i>Melampyrum sylvaticum</i>	2		
<i>Carex bigelowii</i>	2	<i>Narthecium ossifragum</i>	2		
<i>Carex magellanica</i>	2	<i>Picea sitchensis</i>	2		
<i>Cryptogramma crispata</i>	2	<i>Pinus sylvestris</i>	2		
<i>Cuscuta epithymum</i>	2	<i>Polygala serpyllifolia</i>	2		
<i>Deschampsia flexuosa</i>	2	<i>Rhynchospora alba</i>	2		

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Acaulon triquetrum	9	Tortula vahliana	9	Encalypta streptocarpa	8
Aloina brevirostris	9	Weissia condensa	9	Encalypta vulgaris	8
Amblystegium confervoides	9	Weissia levieri	9	Entodon concinnus	8
Cephaloziella baumgartneri	9	Zygodon gracilis	9	Ephemerum recurvifolium	8
Didymodon glaucus	9	Aloina aloides	8	Grimmia crinita	8
Didymodon maximus	9	Aloina aloides s.l.	8	Grimmia pulvinata	8
Eucladium verticillatum	9	Aloina rigida	8	Homalothecium lutescens	8
Eurhynchium meridionale	9	Anomodon viticulosus	8	Homomallium incurvatum	8
Eurhynchium striatulum	9	Apometzgeria pubescens	8	Leiocolea badensis	8
Funaria muhlenbergii	9	Brachythecium glareosum	8	Leiocolea turbinata	8
Funaria pulchella	9	Bryum calophyllum	8	Leptobarbula berica	8
Grimmia dissimulata	9	Bryum canariense	8	Microbryum floerkeanum	8
Grimmia orbicularis	9	Bryum elegans	8	Neckera crispa	8
Gymnostomum calcareum	9	Bryum kunzei	8	Orthotrichum anomalum	8
Gymnostomum viridulum	9	Bryum radiculosum	8	Orthotrichum cupulatum	8
Lophozia perssonii	9	Bryum warneum	8	Palustriella commutata var. commutata	8
Microbryum curvicolle	9	Campyliadelphus chrysophyllus	8	Petalophyllum ralfsii	8
Pedinophyllum interruptum	9	Campylophyllum calcareum	8	Philonotis calcarea	8
Pleurochaete squarrosa	9	Catoscopium nigratum	8	Porella platyphylla	8
Pterygoneurum lamellatum	9	Ceratodon conicus	8	Pottiopsis caespitosa	8
Seligeria calcarea	9	Cheilothela chloropus	8	Pseudocrossidium revolutum	8
Seligeria calycina	9	Conardia compacta	8	Pterygoneurum ovatum	8
Seligeria oelandica	9	Didymodon acutus	8	Rhynchostegiella litorea	8
Seligeria patula	9	Didymodon ferrugineus	8	Rhynchostegiella tenella	8
Seligeria trifaria s.l.	9	Didymodon luridus	8	Rhynchostegiella tenella s.l.	8
Thamnobryum angustifolium	9	Didymodon rigidulus	8	Rhynchostegium rotundifolium	8
Tortella densa	9	Didymodon tophaceus	8	Saelania glaucescens	8
Tortella inclinata	9	Didymodon umbrosus	8	Schistidium crassipilum	8
Tortella inflexa	9	Didymodon vinealis	8	Seligeria acutifolia	8
Tortella nitida	9	Drepanocladus sendtneri	8	Seligeria campylopoda	8

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Seligeria diversifolia	8	Anomodon attenuatus	7	Bryum mamillatum	7
Seligeria donniana	8	Anomodon longifolius	7	Bryum marratii	7
Seligeria pusilla	8	Aphanorhegma patens	7	Bryum neodamense	7
Southbya nigrella	8	Athalamia hyalina	7	Bryum ruderale	7
Southbya tophacea	8	Barbula convoluta	7	Bryum salinum	7
Syntrichia intermedia	8	Barbula convoluta var. convoluta	7	Bryum stirtonii	7
Thuidium abietinum	8	Barbula convoluta var. sardoa	7	Bryum torquescens	7
Thuidium abietinum subsp. abietinum	8	Barbula unguiculata	7	Bryum turbinatum	7
Thuidium abietinum subsp. hystricosum	8	Blindia caespiticia	7	Callialaria curvicaulis	7
Thuidium philibertii	8	Brachythecium erythrorrhizon	7	Calliergonella cuspidata	7
Thuidium recognitum	8	Brachythecium trachypodium	7	Campyliadelphus elodes	7
Tortella fragilis	8	Bryoerythrophyllum caledonicum	7	Campylophyllum halleri	7
Tortula cernua	8	Bryoerythrophyllum ferruginascens	7	Cinclidotus fontinaloides	7
Tortula lanceola	8	Bryoerythrophyllum recurvirostrum	7	Cinclidotus riparius	7
Tortula leucostoma	8	Bryum algovicum	7	Cirriphyllum cirrosum	7
Tortula marginata	8	Bryum archangelicum	7	Cololejeunea calcarea	7
Tortula muralis	8	Bryum arcticum	7	Cololejeunea rossettiana	7
Trichostomum crispulum	8	Bryum capillare	7	Conocephalum salebrosum	7
Weissia sterilis	8	Bryum dichotomum	7	Cratoneuron filicinum	7
Aloina ambigua	7	Bryum dichotomum s.l.	7	Cratoneuron filicinum s.l.	7
Amblyodon dealbatus	7	Bryum dyffrynense	7	Ctenidium molluscum	7
Amblystegium humile	7	Bryum gemmiferum	7	Ctenidium molluscum var. condensatum	7
Amblystegium serpens	7	Bryum imbricatum	7	Ctenidium molluscum var. molluscum	7
Amblystegium varium	7	Bryum intermedium	7	Ctenidium molluscum var. robustum	7
Amphidium lapponicum	7	Bryum knowltonii	7	Ctenidium procerrimum	7
Anoetangium aestivum	7	Bryum lawersianum	7	Dialytrichia mucronata	7

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Dichodontium flavescens	7	Fissidens dubius	7	Hypnum revolutum var. dolomiticum	7
Dicranella varia	7	Fissidens gracilifolius	7	Hypnum revolutum var. revolutum	7
Didymodon cordatus	7	Fissidens incurvus	7	Hypnum vaucheri	7
Didymodon fallax	7	Fissidens limbatus	7	Leiocolea alpestris	7
Didymodon icmadophilus	7	Fissidens monguillonii	7	Leiocolea rutheana	7
Didymodon nicholsonii	7	Fissidens rufulus	7	Leiocolea rutheana var. laxa	7
Didymodon sinuosus	7	Fissidens taxifolius	7	Leptodictyum riparium	7
Didymodon spadiceus	7	Fissidens taxifolius var. pallidicaulis	7	Leptodon smithii	7
Distichium capillaceum	7	Fissidens taxifolius var. taxifolius	7	Lescuraea saxicola	7
Distichium inclinatum	7	Fissidens viridulus	7	Leskea polycarpa	7
Ditrichum flexicaule	7	Fissidens viridulus s.l.	7	Leucodon sciuroides	7
Ditrichum flexicaule s.l.	7	Grimmia anodon	7	Leucodon sciuroides var. morensis	7
Ditrichum gracile	7	Grimmia tergestina	7	Leucodon sciuroides var. sciuroides	7
Drepanocladus aduncus	7	Gyrowesia reflexa	7	Lunularia cruciata	7
Drepanocladus cossonii	7	Gyrowesia tenuis	7	Marchesinia mackaii	7
Drepanocladus lycopodioides	7	Hennediella heimii	7	Microbryum davallianum	7
Drepanocladus polygamus	7	Heterocladium heteropterum var. flaccidum	7	Microbryum rectum	7
Encalypta alpina	7	Homalia trichomanoides	7	Microbryum starckeanum	7
Encalypta brevicollis	7	Homalothecium sericeum	7	Microbryum starckeanum s.l.	7
Encalypta ciliata	7	Hygrohypnum luridum	7	Mnium ambiguum	7
Encalypta rhapsocarpa	7	Hymenostylium insigne	7	Mnium marginatum	7
Eurhynchium crassinervium	7	Hymenostylium recurvirostrum	7	Mnium marginatum var. dioicum	7
Eurhynchium pulchellum	7	Hymenostylium recurvirostrum s.l.	7	Mnium marginatum var. marginatum	7
Eurhynchium pumilum	7	Hypnum bambergeri	7	Mnium spinosum	7
Eurhynchium speciosum	7	Hypnum hamulosum	7	Mnium stellare	7
Fissidens crassipes	7	Hypnum revolutum	7	Mnium thomsonii	7

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Moerckia hibernica	7	Pseudoleskeella catenulata s.l.	7	Schistidium frigidum var. frigidum	7
Molendoa warburgii	7	Pseudoleskeella nervosa	7	Schistidium frigidum var. havaasii	7
Myrinia pulvinata	7	Pseudoleskeella rupestris	7	Schistidium papillosum	7
Myurella julacea	7	Ptychodium plicatum	7	Schistidium pruinatum	7
Myurella tenerrima	7	Rhynchostegiella curviseta	7	Schistidium robustum	7
Neckera complanata	7	Rhynchostegiella teneriffae	7	Schistidium strictum	7
Octodiceras fontanum	7	Rhynchostegium confertum	7	Schistidium trichodon	7
Orthothecium rufescens	7	Rhynchostegium megapolitanum	7	Scleropodium cespitosum	7
Orthotrichum diaphanum	7	Rhynchostegium murale	7	Scorpiurium circinatum	7
Orthotrichum obtusifolium	7	Rhytidium rugosum	7	Stegonia latifolia	7
Orthotrichum sprucei	7	Riccia cavernosa	7	Syntrichia latifolia	7
Palustriella commutata	7	Riccia fluitans	7	Syntrichia norvegica	7
Pellia endiviifolia	7	Riccia rhenana	7	Syntrichia princeps	7
Physcomitrium eurystomum	7	Riccocarpos natans	7	Syntrichia ruraliformis	7
Physcomitrium pyriforme	7	Scapania aequiloba	7	Syntrichia ruralis	7
Plagiobryum demissum	7	Scapania aspera	7	Syntrichia ruralis s.l.	7
Plagiochila britannica	7	Scapania calcicola	7	Taxiphyllum wissgrillii	7
Plagiochila norvegica	7	Scapania cuspiduligera	7	Thamnobryum alopecurum	7
Plagiomnium cuspidatum	7	Scapania gymnostomophila	7	Thamnobryum cataractarum	7
Plagiopus oederianus	7	Schistidium apocarpum s.l.	7	Timmia austriaca	7
Platydictya jungermannioides	7	Schistidium apocarpum s.str.	7	Timmia megapolitana	7
Pohlia melanodon	7	Schistidium atrofusum	7	Timmia norvegica	7
Pohlia wahlenbergii var. calcarea	7	Schistidium confertum	7	Tomentypnum nitens	7
Porella arboris-vitae	7	Schistidium dupretii	7	Tortella bambergeri	7
Preissia quadrata	7	Schistidium elegantulum	7	Tortella flavovirens	7
Pseudocrossidium hornschurchianum	7	Schistidium elegantulum subsp. elegantulum	7	Tortella limosella	7
Pseudoleskea incurvata	7	Schistidium elegantulum subsp. wilsonii	7	Tortella tortuosa	7
Pseudoleskea patens	7	Schistidium flaccidum	7	Tortula acaulon	7
Pseudoleskeella catenulata	7	Schistidium frigidum	7	Tortula acaulon var. acaulon	7

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Tortula acaulon var. papillosa	7	Brachythecium velutinum	6	Campylium stellatum var. stellatum	6
Tortula acaulon var. pilifera	7	Bryum argenteum	6	Cephaloziella calyculata	6
Tortula acaulon var. schreberiana	7	Bryum caespiticium	6	Chiloscyphus pallescens	6
Tortula freibergii	7	Bryum caespiticium s.l.	6	Chiloscyphus polyanthos s.l.	6
Tortula protobryoides	7	Bryum creberrimum	6	Cinclidium stygium	6
Tortula subulata	7	Bryum cyclophyllum	6	Cirriphyllum piliferum	6
Tortula subulata var. angustata	7	Bryum dixonii	6	Cololejeunea minutissima	6
Tortula subulata var. graeffii	7	Bryum donianum	6	Conocephalum conicum s.l.	6
Tortula subulata var. subulata	7	Bryum klinggraeffii	6	Conocephalum conicum s.str.	6
Trichostomum brachydontium	7	Bryum mildeanum	6	Cryphaea heteromalla	6
Weissia brachycarpa var. obliqua	7	Bryum moravicum	6	Cryphaea lamyana	6
Weissia controversa var. crispata	7	Bryum pallens	6	Cyclodictyon laetevirens	6
Weissia longifolia var. angustifolia	7	Bryum pallescens	6	Dichodontium pellucidum	6
Achrophyllum dentatum	6	Bryum pseudotriquetrum	6	Dichodontium pellucidum s.l.	6
Amblystegium tenax	6	Bryum pseudotriquetrum var. bimum	6	Dicranella schreberiana	6
Aneura pinguis	6	Bryum pseudotriquetrum var. pseudotriquetrum	6	Dicranella staphylina	6
Anomobryum julaceum var. concinnatum	6	Bryum rubens	6	Didymodon insulanus	6
Barbilophozia quadriloba	6	Bryum schleicheri	6	Didymodon tomaculosus	6
Bartramia halleriana	6	Bryum uliginosum	6	Drepanocladus revolvens	6
Brachythecium albicans	6	Bryum violaceum	6	Drepanocladus revolvens s.l.	6
Brachythecium mildeanum	6	Calliergon giganteum	6	Dumortiera hirsuta	6
Brachythecium populeum	6	Calliergon trifarium	6	Ephemerum hibernicum	6
Brachythecium rivulare	6	Calyptrochaeta apiculata	6	Ephemerum spinulosum	6
Brachythecium rutabulum	6	Campylium stellatum	6	Eurhynchium hians	6
Brachythecium salebrosum	6	Campylium stellatum var. protensum	6	Eurhynchium schleicheri	6

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Eurhynchium striatum	6	Jungermannia leiantha	6	Orthotrichum rivulare	6
Fissidens adianthoides	6	Jungermannia polaris	6	Orthotrichum shawii	6
Fissidens pusillus	6	Leiocolea bantriensis	6	Orthotrichum speciosum	6
Fissidens pusillus s.l.	6	Leiocolea fitzgeraldiae	6	Orthotrichum stramineum	6
Fontinalis antipyretica	6	Leiocolea gillmanii	6	Orthotrichum striatum	6
Fontinalis antipyretica var. antipyretica	6	Leiocolea heterocolpos	6	Orthotrichum tenellum	6
Fontinalis antipyretica var. gracilis	6	Leiocolea rutheana var. rutheana	6	Paludella squarrosa	6
Frullania dilatata	6	Lejeunea cavifolia	6	Palustriella commutata var. falcata	6
Funaria hygrometrica	6	Lejeunea holtii	6	Palustriella decipiens	6
Grimmia lisae	6	Leptobryum pyriforme	6	Paraleptodontium recurvifolium	6
Grimmia unicolor	6	Marchantia polymorpha	6	Philonotis marchica	6
Gymnostomum aeruginosum	6	Marchantia polymorpha subsp. montivagans	6	Philonotis tomentella	6
Habrodon perpusillus	6	Marchantia polymorpha subsp. polymorpha	6	Plagiobryum zieri	6
Helodium blandowii	6	Marchantia polymorpha subsp. ruderalis	6	Plagiochila asplenioides	6
Henediella macrophylla	6	Meesia triquetra	6	Plagiochila asplenioides s.l.	6
Henediella stanfordensis	6	Meesia uliginosa	6	Plagiochila porelloides	6
Heterocladium dimorphum	6	Metzgeria fruticulosa	6	Plagiomnium affine	6
Hygrohypnum eugyrium	6	Odontoschisma macounii	6	Plagiomnium elatum	6
Hygrohypnum polare	6	Oncophorus wahlenbergii	6	Plagiomnium rostratum	6
Hygrohypnum smithii	6	Orthothecium intricatum	6	Plagiomnium undulatum	6
Hypnum lacunosum	6	Orthotrichum affine	6	Plagiothecium cavifolium	6
Isopterygiopsis muelleriana	6	Orthotrichum consimile	6	Plagiothecium piliferum	6
Isopterygiopsis pulchella	6	Orthotrichum lyellii	6	Pohlia wahlenbergii	6
Isothecium alopecuroides	6	Orthotrichum pallens	6	Pohlia wahlenbergii var. wahlenbergii	6
Jubula hutchinsiae	6	Orthotrichum pulchellum	6	Porella cordaeana	6
Jungermannia atrovirens	6	Orthotrichum pumilum	6	Pterigynandrum filiforme	6

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Racomitrium canescens	6	Syntrichia virescens	6	Zygodon viridissimus var. stirtonii	6
Racomitrium himalayanum	6	Targionia hypophylla	6	Zygodon viridissimus var. viridissimus	6
Radula carringtonii	6	Tayloria lingulata	6	Acaulon muticum	5
Radula complanata	6	Tayloria tenuis	6	Acaulon muticum var. mediterraneum	5
Radula lindenbergiana	6	Thamnobryum maderense	6	Acaulon muticum var. muticum	5
Reboulia hemisphaerica	6	Tortula atrovirens	6	Amblystegium fluviatile	5
Rhizomnium pseudopunctatum	6	Tortula canescens	6	Amblystegium radicale	5
Rhodobryum roseum	6	Tortula modica	6	Anthoceros agrestis	5
Rhynchostegium riparioides	6	Tortula solmsii	6	Anthoceros punctatus	5
Rhytidadelphus triquetrus	6	Tortula truncata	6	Antitrichia curtipendula	5
Riccardia chamedryfolia	6	Tortula viridifolia	6	Aongstroemia longipes	5
Riccia glauca	6	Tortula wilsonii	6	Atrichum undulatum	5
Scapania degenii	6	Weissia brachycarpa	6	Atrichum undulatum var. gracilisetum	5
Scapania praetervisa	6	Weissia controversa	6	Atrichum undulatum var. undulatum	5
Scleropodium purum	6	Weissia controversa var. controversa	6	Bartramia stricta	5
Scleropodium tourettii	6	Weissia controversa var. densifolia	6	Blepharostoma trichophyllum	5
Scorpidium scorpioides	6	Weissia controversa var. wimmeriana	6	Blindia acuta	5
Scorpidium turgescens	6	Weissia longifolia	6	Brachythecium starkei	5
Seligeria brevifolia	6	Weissia perssonii	6	Bryum alpinum	5
Seligeria carniolica	6	Zygodon conoideus	6	Bryum gemmilucens	5
Seligeria recurvata	6	Zygodon conoideus var. conoideus	6	Bryum gemmiparum	5
Syntrichia amplexa	6	Zygodon conoideus var. lingulatus	6	Bryum muehlenbeckii	5
Syntrichia laevipila	6	Zygodon rupestris	6	Bryum riparium	5
Syntrichia papillosa	6	Zygodon viridissimus	6	Bryum sauteri	5

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Bryum subapiculatum	5	Eurhynchium praelongum	5	Isoethecium myosuroides var. brachythecioides	5
Bryum valparaisense	5	Fissidens bryoides	5	Jungermannia borealis	5
Bryum weigelii	5	Fissidens curvatus	5	Jungermannia exsertifolia	5
Calliergon sarmentosum	5	Fissidens exilis	5	Jungermannia hyalina	5
Calomnion complanatum	5	Fissidens osmundoides	5	Jungermannia obovata	5
Campylostelium saxicola	5	Fissidens rivularis	5	Jungermannia paroica	5
Cephaloziella stellulifera	5	Fossombronia angulosa	5	Jungermannia pumila	5
Ceratodon purpureus	5	Fossombronia caespitiformis	5	Jungermannia subelliptica	5
Ceratodon purpureus s.l.	5	Fossombronia crozalsii	5	Lejeunea hibernica	5
Chenia leptophylla	5	Fossombronia fimbriata	5	Lejeunea lamacerina	5
Chiloscyphus polyanthos	5	Fossombronia foveolata	5	Lejeunea mandonii	5
Climacium dendroides	5	Fossombronia incurva	5	Leptotheca gaudichaudii	5
Daltonia splachnoides	5	Fossombronia pusilla	5	Lophocolea fragrans	5
Dicranella crispa	5	Fossombronia pusilla s.l.	5	Lophozia excisa	5
Dicranella grevilleana	5	Grimmia alpestris	5	Lophozia obtusa	5
Dicranum bonjeanii	5	Grimmia funalis	5	Metzgeria conjugata	5
Ditrichum cylindricum	5	Grimmia sessitana	5	Metzgeria fruticulosa s.l.	5
Ditrichum plumbicola	5	Grimmia torquata	5	Metzgeria furcata	5
Entosthodon attenuatus	5	Hamatocaulis vernicosus	5	Metzgeria leptoneura	5
Entosthodon fascicularis	5	Harpanthus flotovianus	5	Metzgeria temperata	5
Entosthodon obtusus	5	Hookeria lucens	5	Microlejeunea ulicina	5
Ephemerum cohaerens	5	Hygrobiella laxifolia	5	Micromitrium tenerum	5
Ephemerum serratum	5	Hygrohypnum duriusculum	5	Neckera pumila	5
Ephemerum serratum var. minutissimum	5	Hygrohypnum molle	5	Odontoschisma elongatum	5
Ephemerum serratum var. serratum	5	Hygrohypnum styriacum	5	Oncophorus virens	5
Ephemerum stellatum	5	Hylocomium brevirostre	5	Orthotrichum gymnostomum	5
Epipterygium tozeri	5	Hypnum cupressiforme var. heseleri	5	Orthotrichum rupestre	5
Eremonotus myriocarpus	5	Hypnum lindbergii	5	Pellia neesiana	5

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Phaeoceros carolinianus	5	Rhizomnium magnifolium	5	Trichocolea tomentella	5
Phaeoceros laevis	5	Rhizomnium punctatum	5	Trichostomum hibernicum	5
Phaeoceros laevis s.l.	5	Rhytidiadelphus squarrosus	5	Ulota bruchii	5
Philonotis arnellii	5	Riccardia incurvata	5	Ulota calvescens	5
Philonotis rigida	5	Riccardia multifida	5	Ulota coarctata	5
Physcomitrium sphaericum	5	Riccia beyrichiana	5	Ulota crispa	5
Plagiochila killarniensis	5	Riccia bifurca	5	Ulota crispa s.l.	5
Plagiomnium ellipticum	5	Riccia canaliculata	5	Ulota phyllantha	5
Plagiomnium medium	5	Riccia crozalsii	5	Weissia brachycarpa var. brachycarpa	5
Plagiothecium denticulatum var. obtusifolium	5	Riccia crystallina	5	Weissia longifolia var. longifolia	5
Plagiothecium latebricola	5	Riccia huebeneriana	5	Weissia mittenii	5
Plagiothecium nemorale	5	Riccia sorocarpa	5	Weissia multicapsularis	5
Plagiothecium platyphyllum	5	Riccia subbifurca	5	Weissia rostellata	5
Plagiothecium succulentum	5	Scapania paludosa	5	Weissia rutilans	5
Platygyrium repens	5	Schistidium agassizii	5	Weissia squarrosa	5
Pleuridium acuminatum	5	Schistidium maritimum	5	Zygodon forsteri	5
Pleuridium subulatum	5	Schistidium platyphyllum	5	Amphidium mougeotii	4
Pohlia cruda	5	Schistidium rivulare s.l.	5	Anomobryum julaceum	4
Pohlia crudoides	5	Schistidium rivulare s.str.	5	Anomobryum julaceum var. julaceum	4
Pohlia lescuriana	5	Sphaerocarpos michelii	5	Aphanolejeunea microscopica	4
Pohlia lutescens	5	Sphaerocarpos texanus	5	Archidium alternifolium	4
Porella obtusata	5	Sphagnum contortum	5	Atrichum angustatum	4
Porella pinnata	5	Sphagnum platyphyllum	5	Atrichum tenellum	4
Pseudephemerum nitidum	5	Splachnum vasculosum	5	Aulacomnium turgidum	4
Pseudobryum cinclidioides	5	Tetrodontium brownianum	5	Barbilophozia lycopodioides	4
Pterogonium gracile	5	Tetrodontium repandum	5	Bartramia ithyphylla	4
Pylaisia polyantha	5	Thuidium delicatulum	5	Bartramia pomiformis	4
Radula holtii	5	Thuidium tamariscinum	5	Blasia pusilla	4
Radula voluta	5	Tortula cuneifolia	5	Brachydontium trichodes	4

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Brachythecium plumosum	4	Frullania microphylla var. deciduifolia	4	Hypnum uncinulatum	4
Breutelia chrysocoma	4	Frullania microphylla var. microphylla	4	Isothecium holtii	4
Calliergon cordifolium	4	Frullania tamarisci	4	Isothecium myosuroides	4
Calypogeia arguta	4	Frullania teneriffae	4	Isothecium myosuroides var. myosuroides	4
Campylopus pilifer	4	Glyphomitrium daviesii	4	Jamesoniella undulifolia	4
Campylopus subulatus	4	Grimmia decipiens	4	Jungermannia caespiticia	4
Cephaloziella dentata	4	Grimmia laevigata	4	Jungermannia gracillima	4
Cephaloziella integerrima	4	Grimmia longirostris	4	Lejeunea patens	4
Colura calyptrifolia	4	Grimmia montana	4	Lophocolea bidentata	4
Dicranella palustris	4	Grimmia ovalis	4	Lophocolea bispinosa	4
Dicranoweisia cirrata	4	Haplomitrium hookeri	4	Lophocolea brookwoodiana	4
Ditrichum cornubicum	4	Harpalejeunea molleri	4	Lophocolea heterophylla	4
Ditrichum pusillum	4	Hedwigia integrifolia	4	Lophocolea semiteres	4
Drepanolejeunea hamatifolia	4	Herbertus stramineus	4	Mnium hornum	4
Ephemerum sessile	4	Heterocladium heteropterum	4	Neckera pennata	4
Fissidens curnovii	4	Heterocladium heteropterum var. heteropterum	4	Orthodontium gracile	4
Fissidens serrulatus	4	Heterocladium wulfsbergii	4	Pallavicinia lyellii	4
Fontinalis squamosa	4	Heteroscyphus fissistipus	4	Paraleucobryum longifolium	4
Fontinalis squamosa var. curnovii	4	Hygrohypnum ochraceum	4	Pellia epiphylla	4
Fontinalis squamosa var. dixonii	4	Hylocomium pyrenaicum	4	Philonotis caespitosa	4
Fontinalis squamosa var. squamosa	4	Hylocomium splendens	4	Philonotis fontana	4
Fossombronia husnotii	4	Hypnum andoi	4	Philonotis seriata	4
Fossombronia maritima	4	Hypnum callichroum	4	Plagiochila exigua	4
Fossombronia wondraczekii	4	Hypnum cupressiforme	4	Plagiochila punctata	4
Frullania fragilifolia	4	Hypnum cupressiforme var. cupressiforme	4	Plagiochila spinulosa	4
Frullania microphylla	4	Hypnum resupinatum	4	Plagiochila spinulosa s.l.	4

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Plagiothecium denticulatum	4	Scapania nemorea	4	Brachythecium reflexum	3
Plagiothecium denticulatum var. denticulatum	4	Scapania subalpina	4	Bryum bornholmense	3
Plagiothecium ruthei	4	Scapania uliginosa	4	Bryum tenuisetum	3
Pohlia andalusica	4	Scapania undulata	4	Calliergon stramineum	3
Pohlia annotina	4	Schistostega pennata	4	Calypogeia azurea	3
Pohlia bulbifera	4	Sematophyllum substrumosum	4	Calypogeia fissa	3
Pohlia camptotrachela	4	Sphagnum squarrosum	4	Campylopus fragilis	3
Pohlia elongata	4	Sphagnum subsecundum	4	Cephaloziella massalongi	3
Pohlia elongata subsp. elongata	4	Sphagnum teres	4	Cephaloziella nicholsonii	3
Pohlia elongata subsp. polymorpha	4	Sphagnum warnstorffii	4	Cephaloziella turneri	3
Pohlia filum	4	Splachnum ampullaceum	4	Coscinodon cribrosus	3
Pohlia flexuosa	4	Trematodon ambiguus	4	Cryptothallus mirabilis	3
Pohlia obtusifolia	4	Tritomaria polita	4	Cynodontium bruntonii	3
Pohlia proligera	4	Tritomaria quinquedentata	4	Cynodontium fallax	3
Pohlia scotica	4	Ulota drummondii	4	Cynodontium jeneri	3
Pohlia wahlenbergii var. glacialis	4	Warnstorfia exannulata	4	Cynodontium polycarpon	3
Ptilidium pulcherrimum	4	Acrobolbus wilsonii	3	Cynodontium strumiferum	3
Ptychomitrium polyphyllum	4	Adelanthus decipiens	3	Cynodontium tenellum	3
Racomitrium canescens s.l.	4	Anastrophyllum minutum	3	Dicranella heteromalla	3
Racomitrium elongatum	4	Anastrophyllum saxicola	3	Dicranella rufescens	3
Racomitrium ericoides	4	Andreaea alpina	3	Dicranella subulata	3
Racomitrium macounii	4	Anthelia julacea	3	Dicranodontium denudatum	3
Radula aquilegia	4	Anthelia juratzkana	3	Dicranoweisia crispula	3
Rhynchostegium alopecuroides	4	Aplodon wormskjoldii	3	Dicranum flagellare	3
Rhytidiadelphus subpinnatus	4	Atrichum crispum	3	Dicranum majus	3
Riccia nigrella	4	Aulacomnium androgynum	3	Dicranum montanum	3
Sanionia orthothecioides	4	Aulacomnium palustre	3	Dicranum polysetum	3
Sanionia uncinata	4	Barbilophozia barbata	3	Dicranum scoparium	3
Scapania irrigua	4	Barbilophozia hatcheri	3	Dicranum scottianum	3
Scapania lingulata	4	Brachythecium glaciale	3	Dicranum tauricum	3

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Diphyscium foliosum	3	Lophozia capitata	3	Pogonatum aloides	3
Discelium nudum	3	Lophozia herzogiana	3	Pogonatum nanum	3
Ditrichum heteromallum	3	Lophozia opacifolia	3	Pogonatum urnigerum	3
Ditrichum lineare	3	Lophozia wenzelii	3	Pohlia drummondii	3
Ditrichum subulatum	3	Marsupella adusta	3	Pohlia ludwigii	3
Douinia ovata	3	Marsupella arctica	3	Polytrichum formosum	3
Fissidens celticus	3	Marsupella boeckii	3	Polytrichum juniperinum	3
Fissidens polyphyllus	3	Marsupella emarginata	3	Polytrichum longisetum	3
Gongylanthus ericetorum	3	Marsupella emarginata var. aquatica	3	Polytrichum piliferum	3
Grimmia atrata	3	Marsupella emarginata var. emarginata	3	Pseudotaxiphyllum elegans	3
Grimmia curvata	3	Marsupella emarginata var. pearsonii	3	Ptilium crista-castrensis	3
Grimmia hartmanii	3	Marsupella funckii	3	Racomitrium aquaticum	3
Gymnomitrium obtusum	3	Marsupella profunda	3	Racomitrium ellipticum	3
Harpanthus scutatus	3	Marsupella sparsifolia	3	Rhabdoweisia crenulata	3
Hedwigia ciliata	3	Marsupella sphacelata	3	Rhabdoweisia crispata	3
Hedwigia ciliata s.l.	3	Marsupella sprucei	3	Rhabdoweisia fugax	3
Hedwigia ciliata var. ciliata	3	Marsupella stableri	3	Saccogyna viticulosa	3
Hedwigia ciliata var. leucophaea	3	Mastigophora woodsii	3	Scapania compacta	3
Hedwigia stellata	3	Moerckia blyttii	3	Scapania curta	3
Herzogiella seligeri	3	Myurium hochstetteri	3	Scapania paludicola	3
Herzogiella striatella	3	Nardia geoscyphus	3	Scapania parvifolia	3
Hylocomium umbratum	3	Nardia insecta	3	Scapania scandica	3
Jungermannia confertissima	3	Nardia scalaris	3	Sematophyllum demissum	3
Jungermannia sphaerocarpa	3	Oedipodium griffithianum	3	Sematophyllum micans	3
Lejeunea flava	3	Orthodontium lineare	3	Sphagnum affine	3
Leptodontium gemmascens	3	Plagiochila atlantica	3	Sphagnum angustifolium	3
Leptoscyphus cuneifolius	3	Plagiochila carringtonii	3	Sphagnum fimbriatum	3
Leucobryum juniperoideum	3	Plagiothecium curvifolium	3	Sphagnum flexuosum	3
Lophozia bicrenata	3	Plagiothecium laetum	3	Sphagnum girgensohnii	3

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Sphagnum inundatum	3	Andreaea mutabilis	2	Campylopus pyriformis	2
Sphagnum obtusum	3	Andreaea nivalis	2	Campylopus schimperi	2
Sphagnum palustre	3	Andreaea rothii	2	Campylopus setifolius	2
Sphagnum palustre var. centrale	3	Andreaea rothii subsp. falcata	2	Cephalozia ambigua	2
Sphagnum palustre var. palustre	3	Andreaea rothii subsp. rothii	2	Cephalozia bicuspidata	2
Sphagnum skyense	3	Andreaea rupestris	2	Cephalozia hibernica	2
Sphagnum subnitens	3	Andreaea rupestris var. papillosa	2	Cephalozia lunulifolia	2
Sphagnum subnitens var. ferrugineum	3	Andreaea rupestris var. rupestris	2	Cephalozia pleniceps	2
Sphagnum subnitens var. subnitens	3	Andreaea sinuosa	2	Cephaloziella divaricata	2
Sphagnum subsecundum s.l.	3	Arctoa fulvella	2	Cephaloziella elachista	2
Sphenolobopsis pearsonii	3	Barbilophozia atlantica	2	Cephaloziella hampeana	2
Telaranea longii	3	Barbilophozia attenuata	2	Cephaloziella rubella	2
Telaranea murphyae	3	Barbilophozia floerkei	2	Cephaloziella spinigera	2
Tetralophozia setiformis	3	Barbilophozia kunzeana	2	Cladopodiella francisci	2
Tetraphis pellucida	3	Bazzania pearsonii	2	Conostomum tetragonum	2
Trichostomum tenuirostre	3	Bazzania tricrenata	2	Dicranella cerviculata	2
Ulota hutchinsiae	3	Bazzania trilobata	2	Dicranodontium asperulum	2
Adelanthus lindenbergianus	2	Buxbaumia aphylla	2	Dicranodontium uncinatum	2
Anastrepta orcadensis	2	Buxbaumia viridis	2	Dicranum elongatum	2
Anastrophyllum alpinum	2	Calypogeia integristipula	2	Dicranum flexicaule	2
Anastrophyllum donnianum	2	Calypogeia muelleriana	2	Dicranum fuscescens	2
Anastrophyllum hellerianum	2	Calypogeia suecica	2	Dicranum fuscescens s.l.	2
Anastrophyllum joergensenii s.l.	2	Campylopus atrovirens	2	Dicranum leioneuron	2
Anastrophyllum joergensenii s.str.	2	Campylopus atrovirens var. atrovirens	2	Dicranum spurium	2
Andreaea alpestris	2	Campylopus atrovirens var. falcatus	2	Dicranum subporodictyon	2
Andreaea blyttii	2	Campylopus flexuosus	2	Diplophyllum albicans	2
Andreaea frigida	2	Campylopus gracilis	2	Diplophyllum obtusifolium	2
Andreaea megistospora	2	Campylopus introflexus	2	Diplophyllum taxifolium	2

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Ditrichum zonatum	2	Leucobryum glaucum	2	Racomitrium aciculare	2
Geocalyx graveolens	2	Lophozia incisa	2	Racomitrium affine	2
Grimmia arenaria	2	Lophozia longidens	2	Racomitrium fasciculare	2
Grimmia donniana	2	Lophozia longiflora	2	Racomitrium heterostichum	2
Grimmia donniana s.l.	2	Lophozia sudetica	2	Racomitrium lanuginosum	2
Grimmia elatior	2	Lophozia ventricosa	2	Racomitrium sudeticum	2
Grimmia elongata	2	Marsupella alpina	2	Rhytidiadelphus loreus	2
Grimmia incurva	2	Marsupella brevissima	2	Riccardia palmata	2
Grimmia trichophylla	2	Marsupella condensata	2	Scapania gracilis	2
Gymnomitrium apiculatum	2	Mielichhoferia mielichhoferiana	2	Scapania nimbosea	2
Gymnomitrium concinatum	2	Mylia taylorii	2	Scapania ornithopodioides	2
Gymnomitrium corallioides	2	Nardia breidleri	2	Scapania umbrosa	2
Gymnomitrium crenulatum	2	Nardia compressa	2	Sphagnum capillifolium	2
Herbertus aduncus	2	Nowellia curvifolia	2	Sphagnum capillifolium subsp. capillifolium	2
Herbertus borealis	2	Oligotrichum hercynicum	2	Sphagnum capillifolium subsp. rubellum	2
Hyocomium armoricum	2	Philonotis cernua	2	Sphagnum denticulatum	2
Hypnum jutlandicum	2	Plagiothecium undulatum	2	Sphagnum denticulatum s.l.	2
Jamesoniella autumnalis	2	Pleurocladula albescens	2	Sphagnum fallax	2
Kiaeria blyttii	2	Pleurozia purpurea	2	Sphagnum imbricatum s.l.	2
Kiaeria falcata	2	Pleurozium schreberi	2	Sphagnum lindbergii	2
Kiaeria glacialis	2	Pohlia nutans	2	Sphagnum majus	2
Kiaeria starkei	2	Polytrichum alpinum	2	Sphagnum molle	2
Kurzia sylvatica	2	Polytrichum commune	2	Sphagnum quinquefarium	2
Kurzia trichoclados	2	Polytrichum commune var. commune	2	Sphagnum recurvum s.l.	2
Lepidozia cupressina	2	Polytrichum commune var. perigoniale	2	Sphagnum riparium	2
Lepidozia pearsonii	2	Polytrichum sexangulare	2	Sphagnum russowii	2
Lepidozia reptans	2	Polytrichum strictum	2	Sphagnum strictum	2
Leptodontium flexifolium	2	Ptilidium ciliare	2	Splachnum sphaericum	2

Taxon name	Ellenberg R	Taxon name	Ellenberg R	Taxon name	Ellenberg R
Telaranea nematodes	2	Sphagnum austinii	1		
Tetraplodon angustatus	2	Sphagnum balticum	1		
Tetraplodon mnioides	2	Sphagnum compactum	1		
Tritomaria exsecta	2	Sphagnum cuspidatum	1		
Tritomaria exsectiformis	2	Sphagnum fuscum	1		
Warnstorfia fluitans	2	Sphagnum magellanicum	1		
Calypogeia neesiana	1	Sphagnum papillosum	1		
Calypogeia neesiana s.l.	1	Sphagnum pulchrum	1		
Calypogeia sphagnicola	1	Sphagnum tenellum	1		
Campylopus brevipilus	1				
Campylopus shawii	1				
Cephalozia catenulata	1				
Cephalozia connivens	1				
Cephalozia leucantha	1				
Cephalozia loitlesbergeri	1				
Cephalozia macrostachya	1				
Cephalozia macrostachya var. macrostachya	1				
Cephalozia macrostachya var. spiniflora	1				
Cladopodiella fluitans	1				
Dicranum bergeri	1				
Gymnocolea acutiloba	1				
Gymnocolea inflata	1				
Hypnum imponens	1				
Kurzia pauciflora	1				
Mielichhoferia elongata	1				
Mylia anomala	1				
Odontoschisma denudatum	1				
Odontoschisma sphagni	1				
Riccardia latifrons	1				
Scopelophila cataractae	1				

