

The distribution, on a ten-kilometre square basis, of selected  
habitats in the Republic of Ireland.



Commissioned by:  
National Parks and Wildlife –  
Dúchas The Heritage Service,  
7 Ely Place,  
Dublin 2.

Prepared by:  
Dr. John Conaghan,  
Enviroscope Environmental Consultancy,  
52 Cluain Dara,  
Ballymoneen Road,  
Galway,

### **Acknowledgements**

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## **Introduction to the survey**

In February of 2001 the author was commissioned by National Parks and Wildlife – Dúchas The Heritage Service, to undertake a desk survey of the distribution, on a ten-kilometre basis, of nine nationally important habitats within the Republic of Ireland. The habitats selected for survey were lowland calcareous grassland, blanket bog, raised bog, wet heath, montane heath, machair, coastal saltmarsh, coastal dune slack and upland oak woodland. The primary purpose of this work was to produce a list of 10-kilometre squares for each habitat for use in the Monarch Programme. The Monarch Programme is a climate change study which has, as its primary goal, the examination of the effects of various climate change scenarios on selected habitats and species in Ireland and Britain. Although the ultimate purpose of this study is to produce data which will directly contribute to the Monarch Programme, it is anticipated that the information will be of interest generally to people working in the field of nature conservation in Ireland.

The work undertaken for this survey mainly consisted of a desk survey to determine the presence or absence of the selected habitats in all of the 10-km squares in the Republic of Ireland. While good information is available for many of the habitats the information is often contained in a large number of diverse sources both in the published and unpublished literature. The following accounts of the habitats selected includes a list of the squares in which the habitat was found, the site(s) at which the habitat occurs and the main sources of the data. Maps which illustrate the distribution of these habitats on a 10-km square basis were produced by the GIS unit of National Parks and Wildlife, Dúchas and are incorporated into the report. The work was facilitated and supervised by John Wilson of National Parks and Wildlife Dúchas.

## Coastal dune slacks

### **Definition of the Habitat**

Dune slacks are low-lying areas within dune systems which are normally subject to some degree of flooding during the year. These low lying areas occur on flat ground behind high dunes and may occupy either extensive flats or small discrete hollows depending on the structure of the dune system. The content and cover of plant species in slack vegetation is primarily determined by the height of the watertable and the duration of flooding episodes. Typically, slacks are dominated by plant species of freshwater marsh such as *Carex nigra*, *Potentilla anserina*, *Salix repens*, *Hydrocotyle vulgaris*, *Agrostis stolonifera*, *Juncus articulatus* and the moss *Calliergon cuspidatum*. In drier slack areas, dune grassland species such as *Holcus lanatus*, *Leontodon autumnalis*, *Bellis perennis*, *Festuca rubra*, *Carex flacca* and *Lotus corniculatus* are more frequent, while in wetter slack areas plant species such as *Galium palustre*, *Mentha aquatica*, *Ranunculus flammula*, *Caltha palustris*, *Lythrum salicaria* and *Equisetum fluviatile* are characteristic.

### **NATURA 2000 Habitat Categories**

Dunes with *Salix arenaria* (NATURA 2000 code 2170)

Humid Dune Slacks (NATURA 2000 code 2190)

### **Characteristic Vegetation Communities**

*Ranunculo-Potentilletum anserinae* Braun Blanquet et Tüxen 1952

### **Distribution within the Republic of Ireland**

Within the Republic of Ireland the dune slacks habitat has been recorded from 30 10-km squares which are widely distributed around the coast. The habitat appears to be best developed in dune systems with large areas of high dune. Particularly good examples of the habitat found in Donegal (New Lake and Tranarossan), Kerry (Magherees Peninsula and Inch) and Wexford (The Raven). The habitat appears to be very rare in counties Galway and Mayo and along the south coast (between South Kerry and Waterford) due to the absence of suitable dune sites.

### **Accuracy of the data**

The accuracy of the data is thought to be high. Most of the extant slack systems have been documented in various surveys carried out by the National Parks and Wildlife.

### **Main sources of information**

Bleasdale, A. (1998). *An assessment of the scientific interest of the dune system at White Strand, Doonbeg, Co. Clare*. The Heritage Council, Kilkenny.

- Bleasdale, A. and Conaghan, J. (1996). *A botanical assessment of Lurgabrack dunes, Dunfanaghy, Co. Donegal*. A report to the National Parks and Wildlife Service, Glenveagh National Park, Co. Donegal.
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- Bleasdale, A. and Conaghan, J. (1999). *The vegetation and management of Barleycove dunes, Co. Cork*. A report to Cork County Council.
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- Crawford, I., Bleasdale, A. and Conaghan, J. (1996). *The western coastal survey*. A report to the National Parks and Wildlife Service.
- Curtis, T.G.F. (1991). A site inventory of the sandy coasts of Ireland. In: Quigley, M.B. (ed.). *A Guide to the Sand Dunes of Ireland*, pp. 6-17. European Union for Dune Conservation and Coastal Management.
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- Natural Heritage Area and Special Area of Conservation file material. Compiled by Dúchas, the National Parks and Wildlife, Dublin.

**The distribution of coastal dune slacks in the Republic of Ireland on a ten-kilometre square basis**

<b>10-k square</b>	<b>Location(s)</b>	<b>Source of information</b>
B70	Lettermacaward	Crawford, Bleasdale and Conaghan (1996)
B71	Rutland island and Sound	Duchas NHA/SAC file information
B72	Magheraclogher/Carrickfin	Crawford, Bleasdale and Conaghan (1996)
B82	Magheragallon	Crawford, Bleasdale and Conaghan (1996)
B93	Lurgabrack	Bleasdale and Conaghan (1996)
C13	Rosapenna	Dr. T. Curtis pers. comm.
C14	Tranarossan	Crawford, Bleasdale and Conaghan (1996)
G22	Enniscrone	Duchas NHA/SAC file information
G23	Ross, Killala bay	Duchas NHA/SAC file information
G63	Strandhill	Duchas NHA/SAC file information
G65	Streedagh Point Dunes	Duchas NHA/SAC file information
G69	Skeskinmore	Crawford, Bleasdale and Conaghan (1996)
G86	Erne estuary/Finner dunes	Duchas NHA/SAC file information
G87	Murvagh	Duchas NHA/SAC file information
L77	Dooaghtry	Duchas NHA/SAC file information
L80	Inis Mor	Duchas NHA/SAC file information
L89	Clew Bay Complex	Duchas NHA/SAC file information
L90	Inishman	Crawford, Bleasdale and Conaghan (1996)
M10	Fanore	Duchas NHA/SAC file information
O17	Boyne Coast and Estuary	Duchas NHA/SAC file information
O23	North Bull Island	Duchas NHA/SAC file information
O24	Malahide dunes/Portmarnock	Duchas NHA/SAC file information
Q61	The Magherees	Duchas NHA/SAC file information
Q72	Banna strand	Dr. T. Curtis pers. comm.
Q96	Doonbeg	Bleasdale (1998)
R08	Lehinch	Duchas NHA/SAC file information
X39	Bannow Bay	Duchas NHA/SAC file information
T12	The Raven Peninsula	Duchas NHA/SAC file information
T27	Buckroneys dunes	Duchas NHA/SAC file information
T38	Brittas dunes	Duchas NHA/SAC file information
V69	Inch	Duchas NHA/SAC file information
V72	Barleycove	Bleasdale and Conaghan (1999)



The distribution of coastal dune slack in the Republic of Ireland on a 10k square basis.

## Machair

### **Definition of the Habitat**

A machair can be defined as an area of relatively level, stable dune grassland occurring on calcareous soils which are generally rich in shell material and are seasonally flooded. Although flat or gently sloping surfaces are normally the dominant landform present, some machair systems contain areas of dune grassland which has developed on low hillocks. The vegetation of machair is dominated by a patchwork of wet and dry dune grassland (Curtis, 1991b). Areas of drier grassland are characterised by *Festuca rubra*, *Galium verum*, *Plantago lanceolata*, *Bellis perennis*, *Lotus corniculatus*, *Trifolium repens*, *Carex arenaria*, *Poa subcaerulea* and the moss *Brachythecium albicans*, while wetter areas are dominated by species such as *Carex flacca*, *Lotus corniculatus*, *Succisa pratensis* and *Calliargon cuspidatum*. Some machair surfaces contain large areas of vegetation which is transitional towards other coastal vegetation types such as dune slack, e.g. Tranarossan, Co. Donegal, or species-rich calcareous fen, e.g. Bunduff, Co. Sligo.

### **NATURA 2000 Habitat Categories**

Machairs (\* in Ireland) (NATURA 2000 code 21A0)

### **Characteristic Vegetation Communities**

*Viola curtisii-Tortuletum ruraliformis* Braun-Blanquet et Tüxen 1952

*Lotus corniculatus-Carex flacca* community Beckers, Brock and Klerkx 1976

### **Distribution within the Republic of Ireland**

Machair systems are confined to the north-west of the country, along the stretch of coast which lies between Galway Bay and Malin Head. The habitat/landform has been documented as occurring in 34 10-km squares in this region.

### **Accuracy of the data**

The accuracy of the data is high, due to the extensive studies of such systems which have been carried out by Bassett and Curtis (1985) and Crawford *et al.* (1996).

### **Main sources of information**

Bassett, A. and Curtis, T.G.F. (1985). The nature and occurrence of sand-dune machair in Ireland. *Proceedings of the Royal Irish Academy*. **85B**, 1-20.

Crawford, I., Bleasdale, A. and Conaghan, J. (1996). *The western coastal survey*. A report to the National Parks and Wildlife Service.

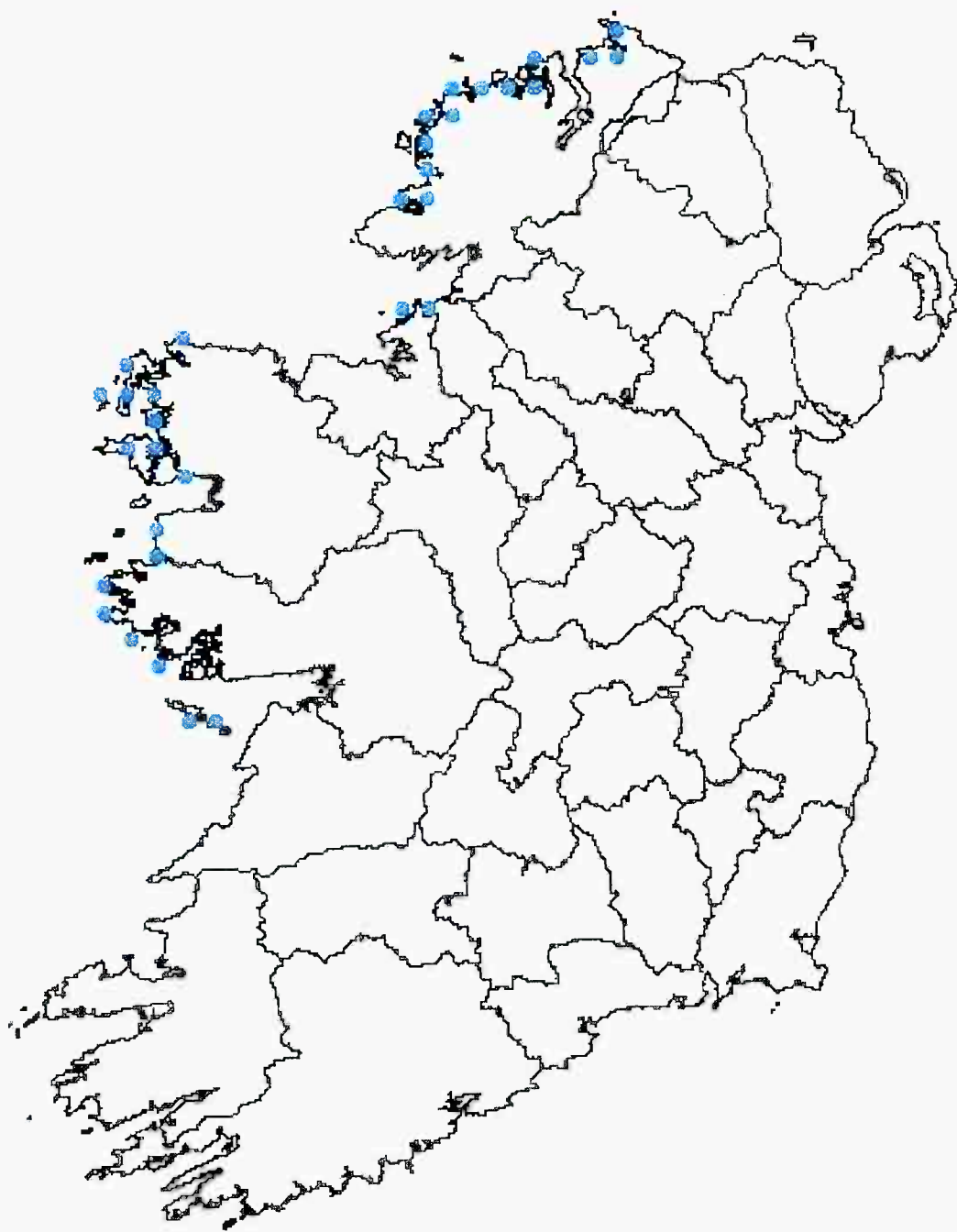
Curtis, T.G.F. (1991a). A site inventory of the sandy coasts of Ireland. In: Quigley, M.B. (ed.). *A Guide to the Sand Dunes of Ireland*, pp. 6-17. European Union for Dune Conservation and Coastal Management.



Curtis, T.G.F. (1991b). The flora and vegetation of sand dunes in Ireland. In: Quigley, M.B. (ed.). *A Guide to the Sand Dunes of Ireland*, pp. 42-66. European Union for Dune Conservation and Coastal Management.

Natural Heritage Area and Special Area of Conservation file material. Compiled by Dúchas, the National Parks and Wildlife Service, Dublin.

The distribution of machair in the Republic of Ireland on a ten-kilometre square basis		
10-k square	Location(s)	Source of information
B70	Lettermacaward	Curtis (1991a)
B71	Kincaslough/Rutland Island	Curtis (1991a)
B72	Carnboy	Curtis (1991a)
B82	Derrybeg	Curtis (1991a)
B83	Bunlack	Curtis (1991a)
B93	Lurgabrack	Curtis (1991a)
C03	Dunfanaghy	Curtis (1991a)
C13	Rosapenna/Doaghmore	Curtis (1991a)
C14	Melmore/Tranarossan	Curtis (1991a)
C34	Tullagh bay/Leenan	Curtis (1991a)
C44	Doagh Isle	Curtis (1991a)
C45	Doagh Isle/White strand	Curtis (1991a)
F52	Iniskea North	Curtis (1991a)
F60	Keel	Curtis (1991a)
F62	Cross Lough	Curtis (1991a)
F63	Termoncarragh/Annagh	Curtis (1991a)
F70	Doogort	Curtis (1991a)
F71	Kinrovar	Curtis (1991a)
F72	Srah/Dooyork	Curtis (1991a)
F84	Gartar Hill	Curtis (1991a)
G65	Trawlua	Curtis (1991a)
G69	Sheskinmore	Curtis (1991a)
G75	Bunduff	Curtis (1991a)
G79	Portnoo	Curtis (1991a)
L54	Mannin Bay/Aillebrack	Curtis (1991a)
L55	Omey/Aughrusbeg	Curtis (1991a)
L63	Murvey	Curtis (1991a)
L72	Mweenish/Finnish	Curtis (1991a)
L76	Dooaghtry	Curtis (1991a)
L77	Dooaghtry	Curtis (1991a)
L80	Inis Mor	Curtis (1991a)
L89	Rossmurrevagh	Curtis (1991a)
L90	Inis Mean/Inis Oirr	Curtis (1991a)



The distribution of machair in the Republic of Ireland on a 10k square basis.

## Coastal saltmarsh

### **Definition of the Habitat**

Saltmarshes occur in tidal coastal areas and, as a result, the vegetation of saltmarsh areas is dominated by plant species which are tolerant of inundation by salt water. The vegetation of saltmarsh areas is rather variable ranging from relative bare areas with scattered plants of *Salicornia* to areas dominated by the tall (30 to 60cm) clumps of *Juncus maritimus*. In lower marsh areas the vegetation is generally very sparse however in the middle to upper marsh areas frequent plant species include *Armeria maritima*, *Puccinellia maritima*, *Festuca rubra*, *Plantago maritima*, *Carex distans* and *Juncus gerardii*. The substrate associated with saltmarsh areas is extremely varied and includes sand, mud, gravel and even, in the west of Ireland, peat (Curtis and Sheehy Skeffington, 1998). This wide variation in substrate also reflects the large number of situations in which the habitat has developed.

### **NATURA 2000 Habitat Categories**

*Spartina* swards (*Spartinion*) (NATURA 2000 CODE 1320)

*Salicornia* and other annuals colonising mud and sand (NATURA 2000 CODE 1310)

Atlantic salt meadows (*Glauco-Puccinellietalia*) (NATURA 2000 CODE 1330)

Mediterranean salt meadows (*Juncetalia maritimi*) (NATURA 2000 CODE 1410)

Mediterranean and thermo-Atlantic halophilous scrubs (*Arthrocnemetalia fruticosae*) (CODE 1420)

### **Characteristic Vegetation Communities (selection)**

*Puccinellietum maritimae* (Warming 1890) Christiansen 1972

*Salicornietum strictae* Knauer 1952

*Juncetum gerardii* Warming 1906

### **Distribution within the Republic of Ireland**

Saltmarshes are found along most of the coast with the exception of exposed coastal stretches which are dominated by cliffs. Thus the habitat appears to be very rare in areas such as the north-west coast of County Clare, the North Inishowen Coast and the coast of Co. Wicklow. The most extensive saltmarsh areas are to be found in large sheltered bays and inlets such as the Shannon estuary, Inner Galway Bay and Clew Bay. The habitat has been recorded from a total of 134 squares.

### **Accuracy of the data**

The accuracy of the data is thought to be very high, although the presence of some areas of narrow, fringing saltmarsh may not be indicated. Most of the information was obtained from the comprehensive inventory of saltmarsh sites compiled by Curtis and Sheehy Skeffington (1998).

## Main sources of information

Curtis, T.G.F. and Sheehy Skeffington, M.J. (1998). *The salt marshes of Ireland: an inventory and account of their geographical variation*. Biology and Environment: Proceedings of the Royal Irish Academy, 98B, 2, 87-104.

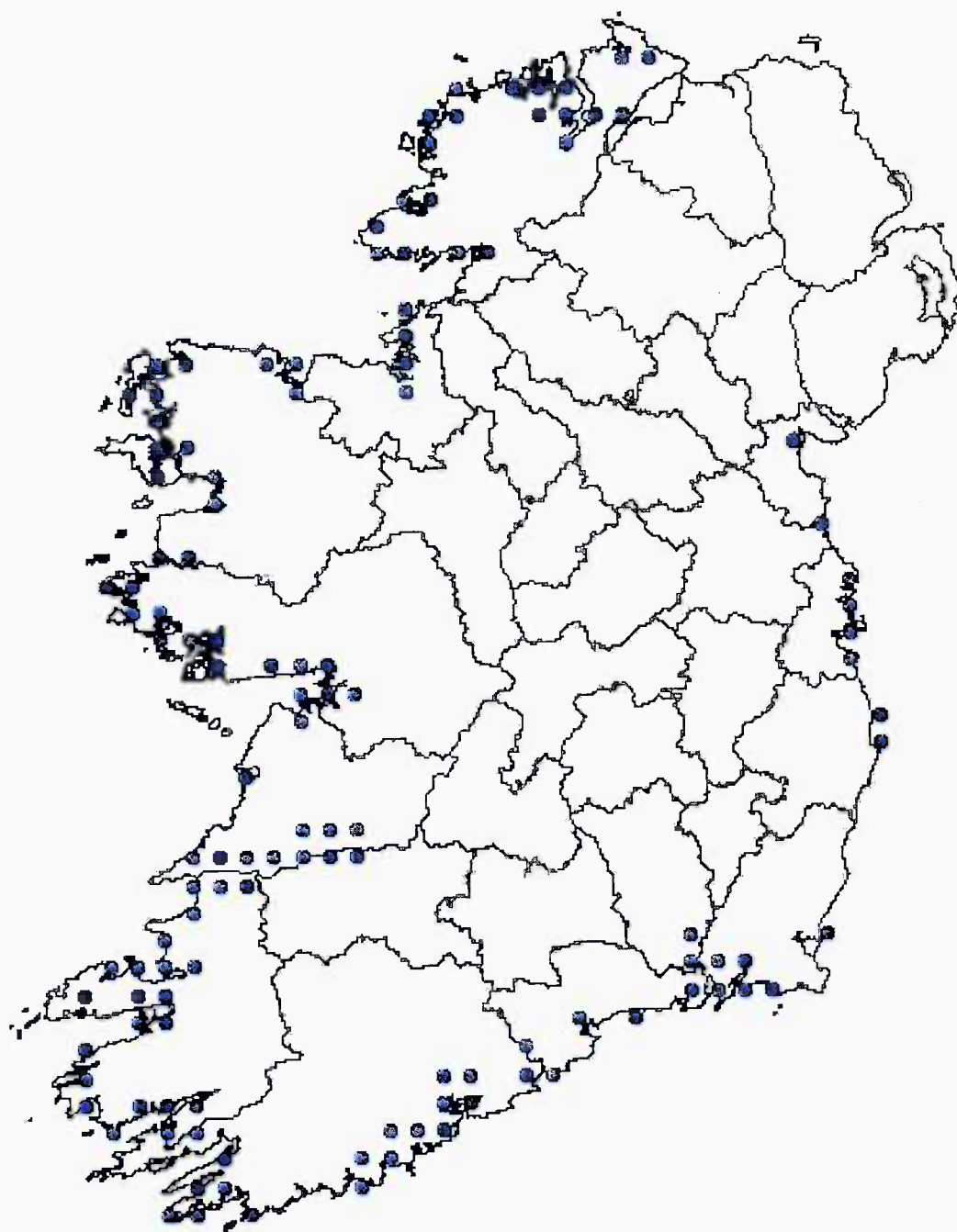
Natural Heritage Area and Special Area of Conservation file material. National Parks and Wildlife, Dúchas, The Heritage Service, Dublin.

### The distribution of coastal saltmarsh in the Republic of Ireland on a ten-kilometre square basis.

10-k square	Source of information
B71	Curtis and Sheehy Skeffington (1998)
B72	Curtis and Sheehy Skeffington (1998)
B82	Curtis and Sheehy Skeffington (1998)
B83	Curtis and Sheehy Skeffington (1998)
C03	Curtis and Sheehy Skeffington (1998)
C12	Curtis and Sheehy Skeffington (1998)
C13	Curtis and Sheehy Skeffington (1998)
C21	Curtis and Sheehy Skeffington (1998)
C22	Curtis and Sheehy Skeffington (1998)
C23	Curtis and Sheehy Skeffington (1998)
C32	Curtis and Sheehy Skeffington (1998)
C42	Curtis and Sheehy Skeffington (1998)
C44	Curtis and Sheehy Skeffington (1998)
C54	Dúchas NHA/SAC file information (Culdaff river)
F62	Curtis and Sheehy Skeffington (1998)
F70	Curtis and Sheehy Skeffington (1998)
F71	Curtis and Sheehy Skeffington (1998)
F72	Curtis and Sheehy Skeffington (1998)
F73	Curtis and Sheehy Skeffington (1998)
F80	Curtis and Sheehy Skeffington (1998)
F83	Curtis and Sheehy Skeffington (1998)
G13	Curtis and Sheehy Skeffington (1998)
G22	Curtis and Sheehy Skeffington (1998)
G23	Curtis and Sheehy Skeffington (1998)
G57	Curtis and Sheehy Skeffington (1998)
G58	Curtis and Sheehy Skeffington (1998)
G62	Curtis and Sheehy Skeffington (1998)
G63	Curtis and Sheehy Skeffington (1998)
G64	Curtis and Sheehy Skeffington (1998)
G65	Curtis and Sheehy Skeffington (1998)
G67	Curtis and Sheehy Skeffington (1998)
G69	Curtis and Sheehy Skeffington (1998)
G79	Curtis and Sheehy Skeffington (1998)
G87	Curtis and Sheehy Skeffington (1998)
G97	Curtis and Sheehy Skeffington (1998)
J00	Curtis and Sheehy Skeffington (1998)
L55	Curtis and Sheehy Skeffington (1998)
L64	Curtis and Sheehy Skeffington (1998)
L65	Curtis and Sheehy Skeffington (1998)
L73	Curtis and Sheehy Skeffington (1998)
L74	Curtis and Sheehy Skeffington (1998)

L76	Curtis and Sheehy Skeffington (1998)
L79	Curtis and Sheehy Skeffington (1998)
L83	Curtis and Sheehy Skeffington (1998)
L86	Curtis and Sheehy Skeffington (1998)
L92	Curtis and Sheehy Skeffington (1998)
L93	Curtis and Sheehy Skeffington (1998)
L98	Curtis and Sheehy Skeffington (1998)
L99	Curtis and Sheehy Skeffington (1998)
M12	Curtis and Sheehy Skeffington (1998)
M20	Curtis and Sheehy Skeffington (1998)
M21	Curtis and Sheehy Skeffington (1998)
M22	Curtis and Sheehy Skeffington (1998)
M31	Curtis and Sheehy Skeffington (1998)
M32	Curtis and Sheehy Skeffington (1998)
M41	Curtis and Sheehy Skeffington (1998)
O17	Curtis and Sheehy Skeffington (1998)
O22	Curtis and Sheehy Skeffington (1998)
O23	Curtis and Sheehy Skeffington (1998)
O24	Curtis and Sheehy Skeffington (1998)
O25	Curtis and Sheehy Skeffington (1998)
O30	Curtis and Sheehy Skeffington (1998)
Q40	Curtis and Sheehy Skeffington (1998)
Q51	Curtis and Sheehy Skeffington (1998)
Q60	Curtis and Sheehy Skeffington (1998)
Q61	Curtis and Sheehy Skeffington (1998)
Q70	Curtis and Sheehy Skeffington (1998)
Q71	Curtis and Sheehy Skeffington (1998)
Q72	Curtis and Sheehy Skeffington (1998)
Q81	Curtis and Sheehy Skeffington (1998)
Q83	Curtis and Sheehy Skeffington (1998)
Q84	Curtis and Sheehy Skeffington (1998)
Q85	Curtis and Sheehy Skeffington (1998)
Q94	Curtis and Sheehy Skeffington (1998)
Q95	Curtis and Sheehy Skeffington (1998)
R04	Curtis and Sheehy Skeffington (1998)
R05	Curtis and Sheehy Skeffington (1998)
R08	Curtis and Sheehy Skeffington (1998)
R15	Curtis and Sheehy Skeffington (1998)
R25	Curtis and Sheehy Skeffington (1998)
R26	Curtis and Sheehy Skeffington (1998)
R35	Curtis and Sheehy Skeffington (1998)
R36	Curtis and Sheehy Skeffington (1998)
R45	Curtis and Sheehy Skeffington (1998)
R46	Curtis and Sheehy Skeffington (1998)
S60	Curtis and Sheehy Skeffington (1998)
S61	Curtis and Sheehy Skeffington (1998)
S62	Curtis and Sheehy Skeffington (1998)
S70	Curtis and Sheehy Skeffington (1998)
S71	Curtis and Sheehy Skeffington (1998)
S80	Curtis and Sheehy Skeffington (1998)
S81	Curtis and Sheehy Skeffington (1998)
S90	Curtis and Sheehy Skeffington (1998)
T01	Curtis and Sheehy Skeffington (1998)
T02	Curtis and Sheehy Skeffington (1998)
T12	Curtis and Sheehy Skeffington (1998)
T39	Curtis and Sheehy Skeffington (1998)
V46	Curtis and Sheehy Skeffington (1998)
V47	Curtis and Sheehy Skeffington (1998)

V48	Curtis and Sheehy Skeffington (1998)
V55	Curtis and Sheehy Skeffington (1998)
V66	Curtis and Sheehy Skeffington (1998)
V69	Curtis and Sheehy Skeffington (1998)
V72	Curtis and Sheehy Skeffington (1998)
V75	Curtis and Sheehy Skeffington (1998)
V76	Curtis and Sheehy Skeffington (1998)
V79	Curtis and Sheehy Skeffington (1998)
V82	Curtis and Sheehy Skeffington (1998)
V83	Curtis and Sheehy Skeffington (1998)
V85	Curtis and Sheehy Skeffington (1998)
V86	Curtis and Sheehy Skeffington (1998)
V93	Curtis and Sheehy Skeffington (1998)
V94	Curtis and Sheehy Skeffington (1998)
W02	Curtis and Sheehy Skeffington (1998)
W43	Curtis and Sheehy Skeffington (1998)
W44	Curtis and Sheehy Skeffington (1998)
W54	Curtis and Sheehy Skeffington (1998)
W55	Curtis and Sheehy Skeffington (1998)
W65	Curtis and Sheehy Skeffington (1998)
W75	Curtis and Sheehy Skeffington (1998)
W76	Curtis and Sheehy Skeffington (1998)
W77	Curtis and Sheehy Skeffington (1998)
W86	Curtis and Sheehy Skeffington (1998)
W87	Curtis and Sheehy Skeffington (1998)
X07	Curtis and Sheehy Skeffington (1998)
X08	Curtis and Sheehy Skeffington (1998)
X17	Curtis and Sheehy Skeffington (1998)
X29	Curtis and Sheehy Skeffington (1998)
X49	Curtis and Sheehy Skeffington (1998)



The distribution of coastal salt marsh in the Republic of Ireland on a 10k square basis.

## Blanket bog

### **Definition of the Habitat**

Blanket bog is the term given to a peat deposit which carpets extensive areas of flat or gently sloping ground with acid peat. The depth of blanket peat varies greatly however depths of between 1.5 and 5 metres are typically encountered. The habitat is largely confined to cool, wet areas of the country where there is a mean annual rainfall in excess of 1250mm. As a result of these climatic requirements, the habitat is confined to areas along the Atlantic seaboard and in uplands where precipitation levels are sufficiently high. In the Republic of Ireland blanket bog has been classified into three categories namely lowland, highland and mountain. Lowland blanket bog is confined to relatively flat areas below an altitude of 150m. The vegetation is typically dominated by *Molinia caerulea*, *Schoenus nigricans*, *Erica tetralix* and *Sphagnum* spp., however the *Sphagnum* cover is rarely as luxuriant as that evident in raised bogs. Mountain blanket bog is generally restricted to upland areas exceeding 300 metres and the vegetation tends to be dominated by *Calluna vulgaris*, *Eriophorum* spp., *Trichophorum caespitosum* and *Sphagnum* spp. Highland blanket bog is transitional between lowland and mountain blanket bog and at elevations of between 150 and 300m. The vegetation is generally quite similar in appearance and composition to lowland blanket bog apart from the reduced abundance of *Schoenus* and the occurrence of a number of plant species typical of mountain habitats. Frequently blanket bogs occur as a mosaic with other peatland habitats such as wet heath, dry heath and acid grassland. In addition to areas of good quality intact blanket bog, ten-kilometre squares that are dominated by cutaway and/or inactive blanket bog have been included in the data.

### **NATURA 2000 Habitat Categories**

Blanket bog (\* active only) (NATURA 2000 CODE 7130)

### **Characteristic Vegetation Communities**

*Pleurozio purpureae* – *Ericetum tetralicis* (Braun Blanquet et Tüxen 1952) Moore 1968

*Vaccinio* – *Ericetum tetralicis* Moore 1962

### **Distribution within the Republic of Ireland**

Blanket bog is a widespread and relatively common habitat which has been recorded from 351 10-km squares. Lowland blanket bogs are best developed and most extensive in the counties in the north-west of the country, i.e. Mayo, Galway and Donegal. Mountain blanket bogs have a more widespread distribution in uplands throughout the country, with counties Wicklow, Cork, Kerry, Laois, Cavan, Sligo and Leitrim containing some of the best examples of the habitat.

### **Accuracy of the data**

The accuracy of the data is thought to be high because of the relatively good documentation of the habitat. Much of the distribution data has been obtained from the blanket bog surveys conducted by National Parks and Wildlife in the late 1980's and early 1990's and the Peatland Map of Ireland



produced by Hammond (1979). It must be pointed out however that some areas of blanket bog which have been cutaway or reclaimed for a long period of time, i.e. greater than 100 years, may not be included.

### Main sources of information

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**The distribution of blanket bog in the Republic of Ireland on a ten-kilometre square basis.**

<b>10-k square</b>	<b>Source of information</b>
B61	Hammond (1979)
B70	Hammond (1979)
B71	Blanket bog survey reports 1987-1991
B72	J. Conaghan personal observation
B80	Blanket bog survey reports 1987-1991
B81	Blanket bog survey reports 1987-1991
B82	Blanket bog survey reports 1987-1991
B83	Hammond (1979)
B90	Blanket bog survey reports 1987-1991
B91	Blanket bog survey reports 1987-1991
B92	Blanket bog survey reports 1987-1991
B93	J. Conaghan personal observation
C00	Blanket bog survey reports 1987-1991
C01	Blanket bog survey reports 1987-1991
C02	Blanket bog survey reports 1987-1991
C03	J. Conaghan personal observation
C10	Hammond (1979)
C11	Hammond (1979)
C12	Blanket bog survey reports 1987-1991
C13	Hammond (1979)
C14	Crawford <i>et al.</i> (1996)
C22	J. Conaghan personal observation
C23	J. Conaghan personal observation
C24	J. Conaghan personal observation
C32	Hammond (1979)
C33	J. Conaghan personal observation
C34	J. Conaghan personal observation
C42	Hammond (1979)
C43	Blanket bog survey reports 1987-1991
C44	Hammond (1979)
C45	Duchas NHA/SAC file information
C53	Hammond (1979)
C54	Blanket bog survey reports 1987-1991
C64	Hammond (1979)
F50	Hammond (1979)
F60	Hammond (1979)
F63	Hammond (1979)
F70	Blanket bog survey reports 1987-1991
F71	Hammond (1979)
F72	Blanket bog survey reports 1987-1991
F73	Hammond (1979)
F80	Blanket bog survey reports 1987-1991
F81	Blanket bog survey reports 1987-1991
F82	Blanket bog survey reports 1987-1991
F83	Blanket bog survey reports 1987-1991
F84	Hammond (1979)
F90	Blanket bog survey reports 1987-1991
F91	Blanket bog survey reports 1987-1991
F92	Blanket bog survey reports 1987-1991
F93	Blanket bog survey reports 1987-1991
F94	Hammond (1979)
G00	Hammond (1979)
G01	Blanket bog survey reports 1987-1991
G02	Blanket bog survey reports 1987-1991

G03	Blanket bog survey reports 1987-1991
G04	Hammond (1979)
G10	J. Conaghan personal observation
G12	Hammond (1979)
G13	Hammond (1979)
G14	Hammond (1979)
G20	Hammond (1979)
G21	Hammond (1979)
G30	Hammond (1979)
G31	Blanket bog survey reports 1987-1991
G32	Blanket bog survey reports 1987-1991
G33	Hammond (1979)
G41	Blanket bog survey reports 1987-1991
G42	Blanket bog survey reports 1987-1991
G43	Hammond (1979)
G51	Hammond (1979)
G52	Hammond (1979)
G57	Blanket bog survey reports 1987-1991
G58	Blanket bog survey reports 1987-1991
G59	Hammond (1979)
G62	Duchas NHA/SAC file information
G64	Hammond (1979)
G67	Hammond (1979)
G68	Blanket bog survey reports 1987-1991
G69	Blanket bog survey reports 1987-1991
G70	Hammond (1979)
G71	J. Conaghan personal observation
G72	Hammond (1979)
G73	Hammond (1979)
G74	Hammond (1979)
G75	Hammond (1979)
G77	Hammond (1979)
G78	Blanket bog survey reports 1987-1991
G79	Blanket bog survey reports 1987-1991
G81	Hammond (1979)
G82	Hammond (1979)
G83	Hammond (1979)
G84	Blanket bog survey reports 1987-1991
G85	Hammond (1979)
G88	Blanket bog survey reports 1987-1991
G89	Blanket bog survey reports 1987-1991
G91	Blanket bog survey reports 1987-1991
G92	Hammond (1979)
G93	Blanket bog survey reports 1987-1991
G94	Hammond (1979)
G96	J. Conaghan personal observation
G97	Hammond (1979)
G98	Blanket bog survey reports 1987-1991
G99	Blanket bog survey reports 1987-1991
H01	Blanket bog survey reports 1987-1991
H02	Blanket bog survey reports 1987-1991
H03	Hammond (1979)
H06	Blanket bog survey reports 1987-1991
H07	Blanket bog survey reports 1987-1991
H08	Blanket bog survey reports 1987-1991
H09	Blanket bog survey reports 1987-1991
H11	Hammond (1979)
H12	Blanket bog survey reports 1987-1991

H18	Hammond (1979)
H19	Hammond (1979)
H21	J. Conaghan personal observation
H22	Blanket bog survey reports 1987-1991
H28	Hammond (1979)
H53	Hammond (1979)
H54	Foss and O' Connell (1996)
H64	Hammond (1979)
J11	Foss and O' Connell (1996)
L55	Hammond (1979)
L56	Hammond (1979)
L63	J. Conaghan personal observation
L64	Blanket bog survey reports 1987-1991
L65	Hammond (1979)
L66	J. Conaghan personal observation
L68	Foss and O' Connell (1996)
L69	Hammond (1979)
L73	Blanket bog survey reports 1987-1991
L74	Blanket bog survey reports 1987-1991
L75	Blanket bog survey reports 1987-1991
L76	Blanket bog survey reports 1987-1991
L77	Blanket bog survey reports 1987-1991
L78	Hammond (1979)
L79	Blanket bog survey reports 1987-1991
L82	Hammond (1979)
L83	Hammond (1979)
L84	Blanket bog survey reports 1987-1991
L85	Blanket bog survey reports 1987-1991
L86	Blanket bog survey reports 1987-1991
L87	Blanket bog survey reports 1987-1991
L88	Hammond (1979)
L89	Hammond (1979)
L92	Hammond (1979)
L93	Hammond (1979)
L94	Blanket bog survey reports 1987-1991
L95	Hammond (1979)
L96	Blanket bog survey reports 1987-1991
L97	Blanket bog survey reports 1987-1991
L98	Hammond (1979)
L99	Hammond (1979)
M02	Blanket bog survey reports 1987-1991
M03	Blanket bog survey reports 1987-1991
M04	Blanket bog survey reports 1987-1991
M05	Hammond (1979)
M06	Blanket bog survey reports 1987-1991
M07	Blanket bog survey reports 1987-1991
M08	J. Conaghan personal observation
M09	Hammond (1979)
M10	J. Conaghan personal observation
M12	Hammond (1979)
M13	Foss and O' Connell (1996)
M14	Hammond (1979)
M17	J. Conaghan personal observation
M19	J. Conaghan personal observation
M22	J. Conaghan personal observation
M23	Hammond (1979)
M29	Hammond (1979)
M46	J. Conaghan personal observation

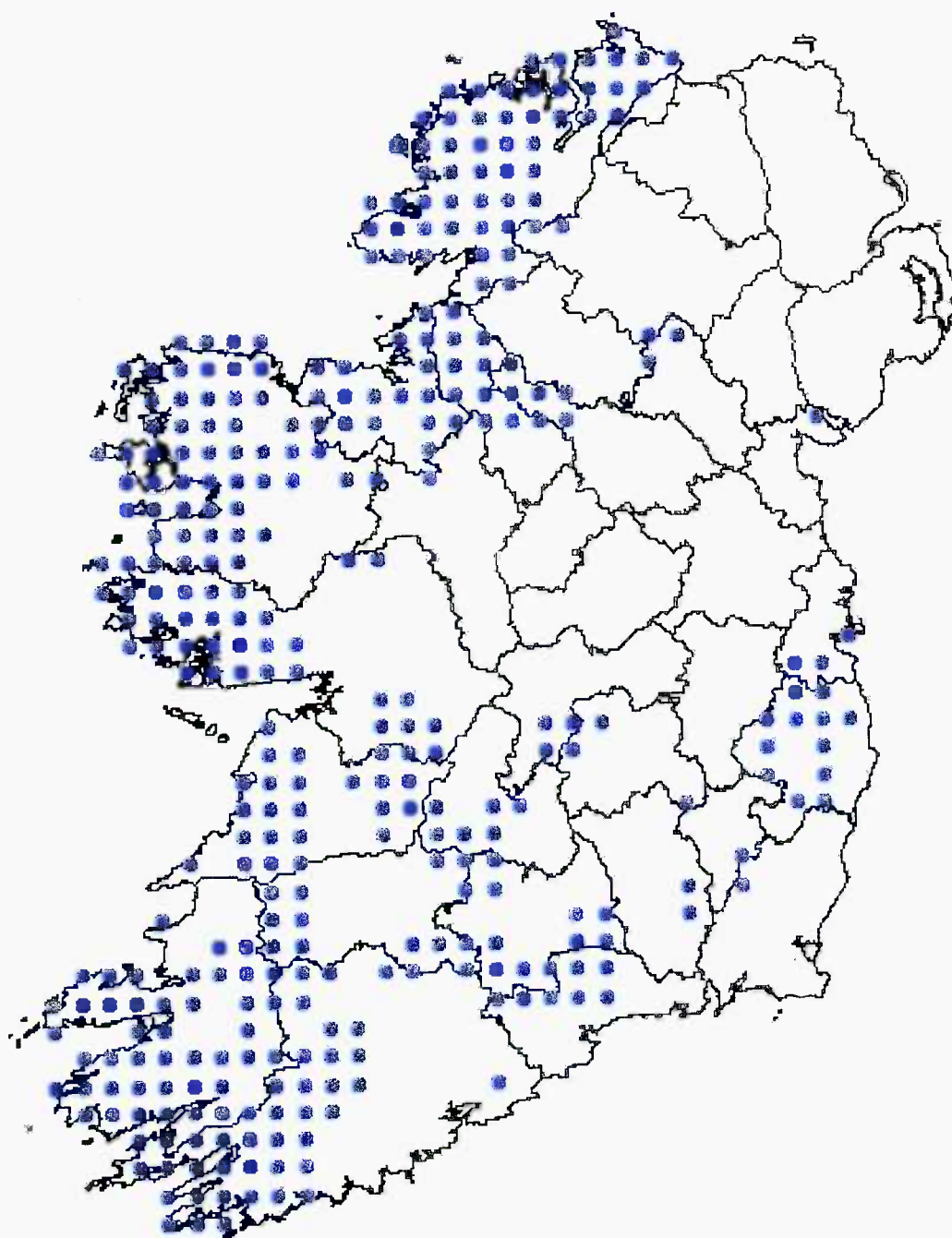
M49	Foss and O' Connell (1996)
M50	Foss and O' Connell (1996)
M51	Hammond (1979)
M56	J. Conaghan personal observation
M59	Hammond (1979)
M60	Hammond (1979)
M61	Hammond (1979)
M70	Foss and O' Connell (1996)
M79	Foss and O' Connell (1996)
N10	Hammond (1979)
N20	Blanket bog survey reports 1987-1991
N30	Blanket bog survey reports 1987-1991
N90	Hammond (1979)
O00	Blanket bog survey reports 1987-1991
O01	Blanket bog survey reports 1987-1991
O02	Hammond (1979)
O10	Blanket bog survey reports 1987-1991
O11	Blanket bog survey reports 1987-1991
O12	Hammond (1979)
O20	Duchas NHA/SAC file information (Carrigower Bog)
O23	Duchas NHA/SAC file information (Howth Head)
Q30	Hammond (1979)
Q40	Blanket bog survey reports 1987-1991
Q41	Foss and O' Connell (1996)
Q50	Blanket bog survey reports 1987-1991
Q51	Hammond (1979)
Q60	Hammond (1979)
Q61	Hammond (1979)
Q70	Hammond (1979)
Q73	Hammond (1979)
Q80	Hammond (1979)
Q81	Hammond (1979)
Q85	Hammond (1979)
Q91	Hammond (1979)
Q92	Hammond (1979)
R00	Hammond (1979)
R01	Hammond (1979)
R02	Hammond (1979)
R05	Hammond (1979)
R06	Hammond (1979)
R07	Hammond (1979)
R08	Hammond (1979)
R10	Hammond (1979)
R11	Hammond (1979)
R12	Hammond (1979)
R13	Hammond (1979)
R14	Hammond (1979)
R15	Hammond (1979)
R16	Hammond (1979)
R17	Hammond (1979)
R18	Hammond (1979)
R19	Duchas NHA/SAC file information (Lough Goller)
R20	Hammond (1979)
R21	Hammond (1979)
R22	Hammond (1979)
R23	Hammond (1979)
R24	Hammond (1979)
R25	Duchas NHA/SAC file information (Gortglass Lough)

R26	Hammond (1979)
R27	Hammond (1979)
R28	Hammond (1979)
R29	Hammond (1979)
R31	Hammond (1979)
R48	Hammond (1979)
R51	Hammond (1979)
R56	Hammond (1979)
R57	Hammond (1979)
R58	Foss and O' Connell (1996)
R59	Hammond (1979)
R61	Duchas NHA/SAC file information
R62	Hammond (1979)
R67	Hammond (1979)
R68	Hammond (1979)
R69	Blanket bog survey reports 1987-1991
R72	Hammond (1979)
R75	Hammond (1979)
R76	Hammond (1979)
R77	Hammond (1979)
R79	Hammond (1979)
R81	Hammond (1979)
R82	Blanket bog survey reports 1987-1991
R84	Hammond (1979)
R85	Hammond (1979)
R86	Foss and O' Connell (1996)
R90	Hammond (1979)
R91	Hammond (1979)
R92	Foss and O' Connell (1996)
R94	Hammond (1979)
R95	Hammond (1979)
R96	Duchas NHA/SAC file information
R97	Hammond (1979)
S00	Blanket bog survey reports 1987-1991
S01	Hammond (1979)
S07	Hammond (1979)
S10	Blanket bog survey reports 1987-1991
S11	Hammond (1979)
S19	Hammond (1979)
S20	Blanket bog survey reports 1987-1991
S21	Blanket bog survey reports 1987-1991
S22	Hammond (1979)
S23	Hammond (1979)
S29	Blanket bog survey reports 1987-1991
S30	Hammond (1979)
S31	Foss and O' Connell (1996)
S32	Hammond (1979)
S33	Hammond (1979)
S63	Hammond (1979)
S64	Hammond (1979)
S67	Hammond (1979)
S84	Hammond (1979)
S85	Blanket bog survey reports 1987-1991
S98	Hammond (1979)
S99	Foss and O' Connell (1996)
T07	Hammond (1979)
T08	Hammond (1979)
T09	Blanket bog survey reports 1987-1991

T17	Hammond (1979)
T18	Hammond (1979)
T19	Foss and O' Connell (1996)
V37	Hammond (1979)
V39	Hammond (1979)
V46	Hammond (1979)
V47	Hammond (1979)
V48	Hammond (1979)
V56	Hammond (1979)
V57	Blanket bog survey reports 1987-1991
V58	Blanket bog survey reports 1987-1991
V64	Hammond (1979)
V65	Hammond (1979)
V66	Hammond (1979)
V67	Blanket bog survey reports 1987-1991
V68	Blanket bog survey reports 1987-1991
V69	Hammond (1979)
V72	Hammond (1979)
V73	Duchas NHA/SAC file information
V74	Hammond (1979)
V75	Blanket bog survey reports 1987-1991
V76	Hammond (1979)
V77	Blanket bog survey reports 1987-1991
V78	Blanket bog survey reports 1987-1991
V79	Blanket bog survey reports 1987-1991
V82	Hammond (1979)
V83	Hammond (1979)
V84	Foss and O' Connell (1996)
V85	Blanket bog survey reports 1987-1991
V86	Blanket bog survey reports 1987-1991
V87	Blanket bog survey reports 1987-1991
V88	Blanket bog survey reports 1987-1991
V92	Foss and O' Connell (1996)
V93	Foss and O' Connell (1996)
V94	Hammond (1979)
V95	Duchas NHA/SAC file information
V96	Blanket bog survey reports 1987-1991
V97	Blanket bog survey reports 1987-1991
V98	Blanket bog survey reports 1987-1991
W03	Hammond (1979)
W04	Hammond (1979)
W05	Hammond (1979)
W06	Blanket bog survey reports 1987-1991
W08	Blanket bog survey reports 1987-1991
W09	Hammond (1979)
W13	Hammond (1979)
W14	Hammond (1979)
W15	Hammond (1979)
W16	Duchas NHA/SAC file information
W17	Blanket bog survey reports 1987-1991
W18	Blanket bog survey reports 1987-1991
W23	Duchas NHA/SAC file information
W24	Hammond (1979)
W25	Hammond (1979)
W26	Duchas NHA/SAC file information
W27	Hammond (1979)
W28	Blanket bog survey reports 1987-1991
W36	Hammond (1979)

W37	Hammond (1979)
W38	Hammond (1979)
W39	Hammond (1979)
W47	Hammond (1979)
W48	Hammond (1979)
W49	Hammond (1979)
W97	Foss and O' Connell (1996)





The distribution of blanket bog in the Republic of Ireland on a 10k square basis.

## Wet heath

### **Definition of the Habitat**

In this survey the term wet heath encompasses vegetation which develops on sloping, shallow (c. 30cm to c. 100cm), damp to wet peats which are generally dominated by varying mixtures of *Erica tetralix*, *Molinia caerulea*, *Trichophorum caespitosum* and *Calluna vulgaris*. The floristic composition of wet heath is very close to that of blanket bog, however species typical of wet blanket bog such as *Rhynchospora alba*, *Schoenus nigricans*, *Narthecium ossifragum* and *Sphagnum cuspidatum* are either absent or are present only in very small amounts. Additional plant species which appear to differentiate wet heath habitats from closely related dry heath habitats in the west of Ireland include *Cladonia uncialis*, *Eriophorum angustifolium*, *Carex panicea*, *Sphagnum tenellum*, and *Leucobryum glaucum* (Conaghan, 2000). The habitat is found naturally on suitable terrain in undisturbed blanket bog where the peat depth is shallow, i.e. close to rock outcrops. Wet heath vegetation also replaces that of blanket bog where drainage or peat extraction has reduced surface waterlogging and/or peat depth. In this situation wet heath is a response to modification of blanket bog and is not the naturally occurring climax habitat for that topographic or climatic situation – it will, given enough time and favourable habitat conditions, develop into blanket bog.

### **NATURA 2000 Habitat Categories**

Northern Atlantic wet heaths with *Erica tetralix* (NATURA 2000 CODE 4010)

### **Characteristic Vegetation Communities**

*Narthecio-Ericetum tetralicis* Moore (1964) 1968

### **Distribution within the Republic of Ireland**

Wet heath has been reported from a total of 82 10-km squares, however the true distribution of the habitat is not known. The habitat is best developed in counties which have large areas of lowland blanket bog such as Mayo, Galway and Donegal.

### **Accuracy of the data**

Because of the fact that wet heaths have received little in the way of specific study, the distribution of the habitat is poorly understood. The main source of records are occasional references to the habitat during the NPW blanket bog surveys. It is strongly suspected that the accompanying map underestimates the national distribution of the habitat.

### **Main sources of information**

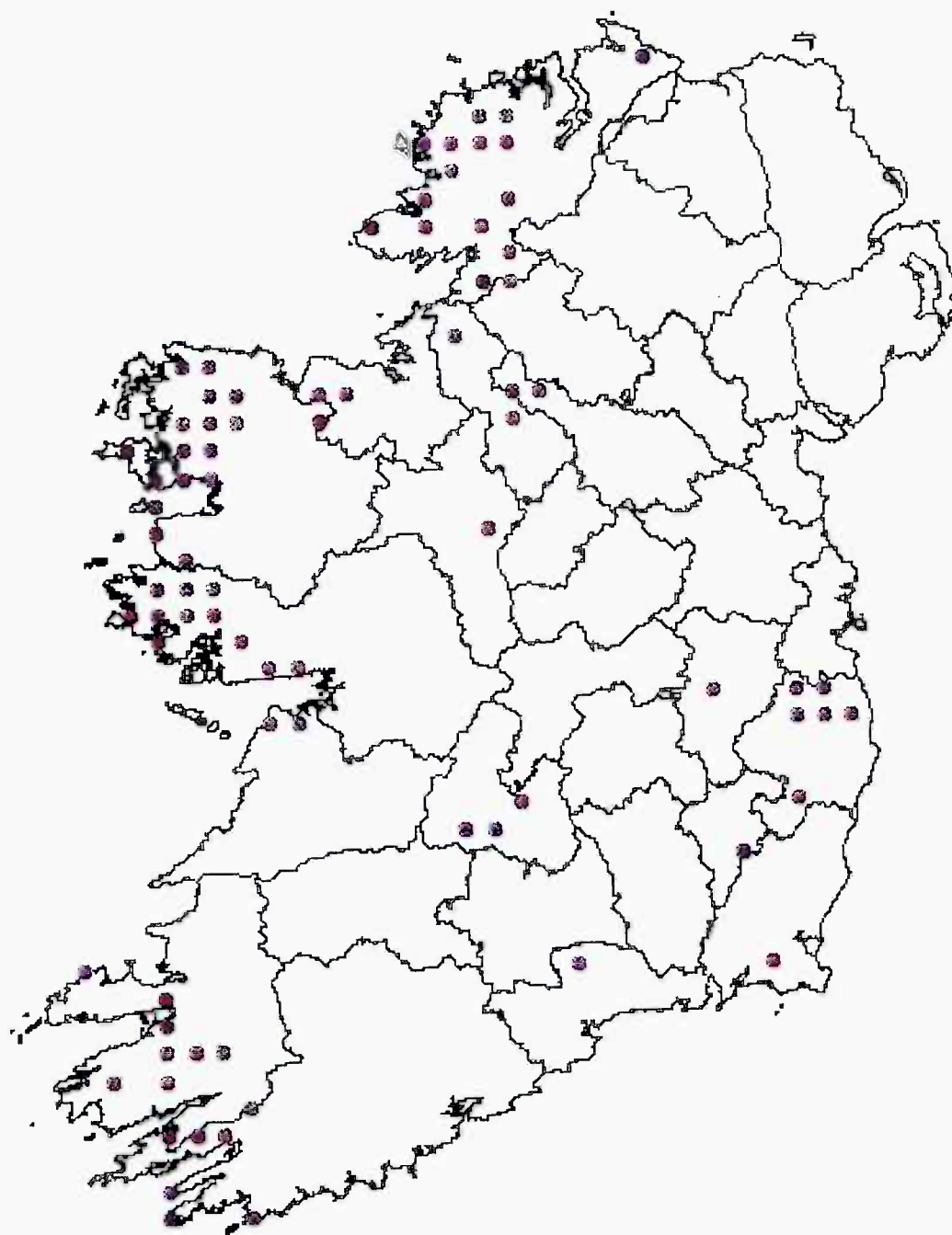
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The distribution of wet heath in the Republic of Ireland on a ten-kilometre square basis

10-k square	Location(s)	Source
B71	Craghy	Blanket bog survey reports
B80	Gannivegil bog	Duchas NHA/SAC file information
B81	Oughtmeen	Blanket bog survey reports
B91	Cloghernagore bog and Glenveagh	Duchas NHA/SAC file information
B92	Fawnboy Bog/Lough Nacung	Duchas NHA/SAC file information
C01	Maghernashangan	Blanket bog survey reports
C02	Skeagh	Blanket bog survey reports
C54	Magheradrumman Bog	Duchas NHA/SAC file information
F60	Achill island	J. Conaghan personal observation
F80	Bellaveeny	Blanket bog survey reports
F81	Sheean More	Blanket bog survey reports
F83	Glenamoy	Blanket bog survey reports
F90	Altaconey bog	Duchas NHA/SAC file information
F91	Uggool	Blanket bog survey reports
F92	Bellacorrick Bog Complex	Duchas NHA/SAC file information
F93	Glencalry	Blanket bog survey reports
G01	Cloonooragh	Blanket bog survey reports
G02	Sheskin East (Srahmeen)	Blanket bog survey reports
G31	Ox Mountain bogs	Duchas NHA/SAC file information
G32	Fiddandarry	Blanket bog survey reports
G42	Letterunshin	Blanket bog survey reports
G58	Lough Auva	Blanket bog survey reports
G78	Meenybraddan	Blanket bog survey reports
G79	Meenagrillagh	Blanket bog survey reports
G84	Arroo Mountain	Duchas NHA/SAC file information
G96	Tamur bog	Duchas NHA/SAC file information
G98	Meenaguse Scraw	Duchas NHA/SAC file information
H01	Cuilcagh/Aneirin uplands	Duchas NHA/SAC file information
H02	Cuilcagh/Aneirin uplands	Duchas NHA/SAC file information
H06	Glasskeeragh	Blanket bog survey reports
H07	Oughtcam (Pettigo)	Blanket bog survey reports
H09	Cronamuck	Blanket bog survey reports
H12	Cuilcagh/Aneirin uplands	Duchas NHA/SAC file information
L64	Munga	Blanket bog survey reports
L73	Carna Heath	Duchas NHA/SAC file information
L74	Near Toombeola	J. Conaghan personal observation
L75	S.E. of Letterfrack	J. Conaghan personal observation
L77	Knockeen	Blanket bog survey reports
L78	North shores of Killary harbour	J. Conaghan personal observation
L79	Corraun plateau	Duchas NHA/SAC file information
L84	Caher	Blanket bog survey reports
L85	Tooreenacoona	Blanket bog survey reports
L86	Mweelrea/Erriff/Sheeffry	Duchas NHA/SAC file information
L89	Claggan Mountain	Praeger (1934)
L94	Arderrynagleragh	Blanket bog survey reports
L95	Cur	Bleasdale (1995)
L99	Furnace Lough	J. Conaghan personal observation
M03	Bovoughaun	Blanket bog survey reports
M10	Gleninagh Mountain	Ivimey-Cook and Proctor (1966)
M12	Knockagurraun	J. Conaghan personal observation
M20	Moneen Mountain	Ivimey-Cook and Proctor (1966)
M22	Near Lough Inch	J. Conaghan personal observation
M97	Slieve Bawn	Klein (1975)
N71	The Curragh	Duchas NHA/SAC file information
O00	Wicklow Mountains	Duchas NHA/SAC file information
O01	Wicklow Mountains	Duchas NHA/SAC file information
O10	Near Lough Dan	J. Conaghan personal observation
O11	Wicklow Mountains	Duchas NHA/SAC file information
O20	Vatry Reservoir	Duchas NHA/SAC file information

Q41	Mount Brandon	Duchas NHA/SAC file information
Q70	Slieve Mish Mountains	Duchas NHA/SAC file information
R86	Keeper Hill	Duchas NHA/SAC file information
R96	Bolingbrook hill	Duchas NHA/SAC file information
S07	Devils' bit Mountain	Duchas NHA/SAC file information
S21	Comeragh mountains	Duchas NHA/SAC file information
S85	Blackstairs Mountain	Duchas NHA/SAC file information
S91	Forth Mountain	Duchas NHA/SAC file information
T09	Wicklow Mountains	Duchas NHA/SAC file information
V57	Lough Namona	J. Conaghan personal observation
V72	The Castle Head to Mizen Head	Duchas NHA/SAC file information
V73	Sheeps Head	Duchas NHA/SAC file information
V75	Glanmore Bog	Duchas NHA/SAC file information
V77	Dromlusk	Blanket bog survey reports
V78	Killarney National Park	Duchas NHA/SAC file information
V79	Kerry 39 (Lough Licka)	Blanket bog survey reports
V85	Caha Mountains	Duchas NHA/SAC file information
V88	Killarney National Park	Duchas NHA/SAC file information
V95	Glengarriff Wood	Duchas NHA/SAC file information
V98	Cores	Blanket bog survey reports
W02	Sherkin island	Duchas NHA/SAC file information
W06	Slaheny River	Blanket bog survey reports



The distribution of wet heath in the Republic of Ireland on a 10k square basis.

## **Raised bog**

### **Definition of the Habitat**

Raised bogs are peatland systems which develop in waterlogged basins and typically contain peat which varies between 5 and 8 metres in depth. In terms of climate, the habitat appears to be confined to regions of the country where the mean annual rainfall is between 800 and 1200mm. Over a period of time the peat mass may outgrow its original basin and fuse with neighbouring raised bogs to form large raised bog complexes. This behaviour is a notable feature of raised bogs in the Republic of Ireland. Over the past couple of centuries the large expanses of raised bogs in the midlands of Ireland have been cutaway for fuel both for domestic and industrial purposes and, at present, there are only a handful of relatively undamaged sites in excess of 300 hectares in size remaining. The vegetation of raised bogs is typically dominated by the dwarf shrubs *Calluna vulgaris* and *Erica tetralix*, accompanied by *Trichophorum caespitosum*, *Eriophorum vaginatum* and *Narthecium ossifragum*. Sphagnum species (especially *S. capillifolium*, *S. papillosum*, *S. magellanicum* and *S. imbricatum*) are common and have a high cover, especially in wet undamaged sites. Well-developed pool systems colonised by *Sphagnum cuspidatum*, *Eriophorum angustifolium* and *Menyanthes trifoliata* are a feature of the wetter raised bog sites.

### **NATURA 2000 Habitat Categories**

Active raised bogs (NATURA 2000 CODE 7110)

### **Characteristic Vegetation Communities**

*Erico-Sphagnetum magellanicum* (Jonas 1932) Moore 1968

### **Distribution within the Republic of Ireland**

Raised bogs are widely distributed throughout the midlands of Ireland and have been recorded from 221 10-km squares. The best extant examples of the habitat are concentrated in east Galway, Roscommon and west Offaly and outside of these areas there are few relatively intact sites. In many areas of the country the habitat has long since been cutaway or reclaimed and only small areas of desiccated peat dominated by *Calluna vulgaris* remain.

### **Accuracy of the data**

The accuracy of the data is thought to be high. Much of the distribution data has been obtained from recent surveys of the resource conducted by National Parks and Wildlife and the map of raised bog distribution in Ireland produced by Cross in 1988. It must be pointed out however that areas of raised bog which have been cut or reclaimed for a long period of time, i.e. greater than 100 years, may not be included. On the other hand, some of the squares listed may now have very little or even no intact raised bog surface remaining. This is particularly the case in areas of the country where the habitat has always been scarce and the population pressure has been high, such as in the east and south-east of the country.

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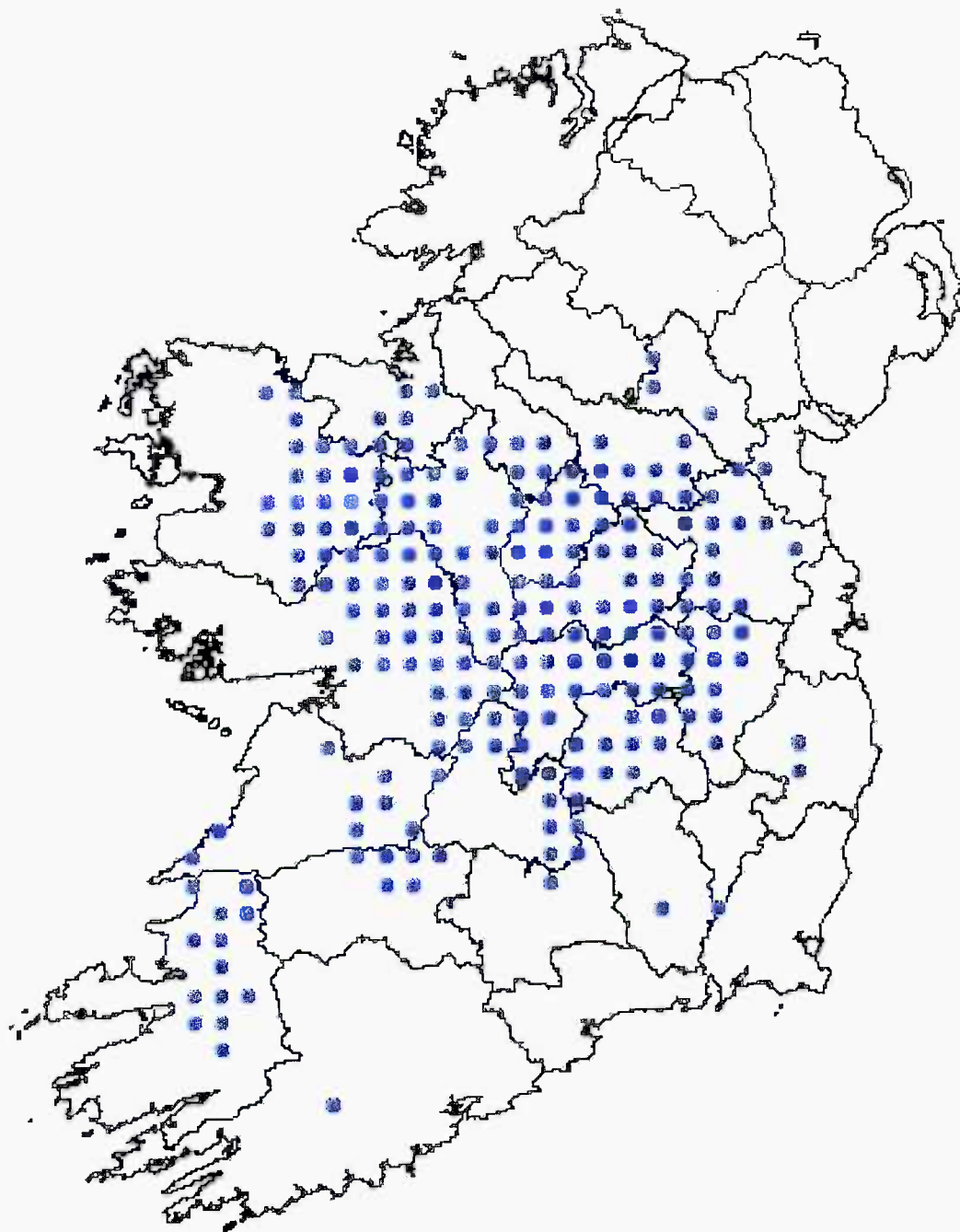
**The distribution of raised bog in the Republic of Ireland on a ten-kilometre square basis**

10-k square	Location(s)	Source of information
G12		Cross (1988)
G20		Cross (1988)
G21		Cross (1988)
G22		Cross (1988)
G30		Cross (1988)
G40	Cloongoonagh	Foss and O' Connell (1996)
G50	Tawnabeg	Cross (1990)
G51	Turloughmore (Sligo)	Duchas NHA/SAC file information
G60	Derrykinlough	Foss and O' Connell (1996)
G61	Templehouse and Cloonacleigha Loughs	NHA files
G62		Cross (1988)
G72		Cross (1988)
G80		Cross (1988)
G90		Cross (1988)
H00		Cross (1988)
H10		Cross (1988)
H30	South of Lough Oughter	J. Conaghan personal observation
H52	Lisavilly Bog	Duchas NHA/SAC file information
H53	Lislannan Bog	Foss and O' Connell (1996)
H60		Cross (1988)
H71	Lough Egish	Duchas NHA/SAC file information
M17		Cross (1988)
M18		Cross (1988)
M25		Cross (1988)
M26		Cross (1988)
M27		Cross (1988)
M28		Cross (1988)
M29		Cross (1988)
M33	Addergoole bog	Cross (1990)
M35		Cross (1988)
M36		Cross (1988)
M37		Cross (1988)
M38		Cross (1988)
M39		Cross (1988)
M42		Cross (1988)
M44		Cross (1988)
M45		Cross (1988)
M46		Cross (1988)
M47		Cross (1988)
M48		Cross (1988)
M49		Cross (1988)
M52		Cross (1988)
M53	Monivea	Cross (1990)
M54	Killaclogher	Foss and O' Connell (1996)
M55	Cloonarkin	Foss and O' Connell (1996)
M56	Cloonmore	Foss and O' Connell (1996)
M57		Cross (1988)
M58	Derrinea	Cross (1990)
M59	Carrowbehy	Cross (1990)
M62	Radford River bog	Foss and O' Connell (1996)
M63	Derrinlough	Foss and O' Connell (1996)
M64	Pollnabrone	Raised bog survey reports
M65	Lough Lurgeen	Cross (1990)
M66	Keeloges	Foss and O' Connell (1996)
M67	Corliska	Cross (1990)
M68	Cloonchambers	Foss and O' Connell (1996)
M69	Callow	Cross (1990)

M70	Cloonmoylan	Cross (1990)
M71	Eskerboy	Foss and O' Connell (1996)
M72	Coxtown	Cross (1990)
M73	Crit Island west	Foss and O' Connell (1996)
M74	Castlefrench east	Foss and O' Connell (1996)
M75	Aughrim	Foss and O' Connell (1996)
M76	Funshin	Foss and O' Connell (1996)
M77		Cross (1988)
M78	Bellanagare	Foss and O' Connell (1996)
M79	Shanville	Cross (1990)
M80		Cross (1988)
M81	Ardgraique	Foss and O' Connell (1996)
M82	Lismanny	Foss and O' Connell (1996)
M83	Killure Castle	Foss and O' Connell (1996)
M84	Ballyforan	Foss and O' Connell (1996)
M85	Taghboy	Raised bog survey reports
M86		Cross (1988)
M89	Cloonkeiran	Foss and O' Connell (1996)
M90	Clonfinane	Duchas NHA/SAC file information
M91	Redwood Bog	Duchas NHA/SAC file information
M92	Bog NW of Clonfert	J. Conaghan personal observation
M93	Lough Tee	Foss and O' Connell (1996)
M94	Ballynamona	Foss and O' Connell (1996)
M96	Cloncraft	Foss and O' Connell (1996)
M97	Derrycanan	Foss and O' Connell (1996)
N00	Ballyduff Bog	Cross (1990)
N01	All Saints/Newtown	Cross (1990)
N02	Clonlyon	Foss and O' Connell (1996)
N03	Mongan	Cross (1990)
N04	Crosswood	Cross (1990)
N05	Forthill	Foss and O' Connell (1996)
N06	Derrylough	Raised bog survey reports
N07	Ballykenny/Fisherstown	Cross (1990)
N08	Aghnamona	Foss and O' Connell (1996)
N09	Corracromph	Foss and O' Connell (1996)
N10	The Derries	Foss and O' Connell (1996)
N11	Lough Boora	Foss and O' Connell (1996)
N12	Ferbane/Ballyvoura	Foss and O' Connell (1996)
N13	Clonnydonnin	Foss and O' Connell (1996)
N14	Carn Park	Foss and O' Connell (1996)
N15	Gorteen-Clareen	Raised bog survey reports
N16		Cross (1988)
N17	Derrymore	Foss and O' Connell (1996)
N18	Clonageeher	Foss and O' Connell (1996)
N19	Clooncoe Lough and Wood	Duchas NHA/SAC file information
N21	Screggan	Foss and O' Connell (1996)
N22		Cross (1988)
N23	Clara	Cross (1990)
N24	Ballinderry	Foss and O' Connell (1996)
N25	Williamstown	Raised bog survey reports
N26	Clontymullen	Cross (1990)
N27		Cross (1988)
N28		Cross (1988)
N29		Cross (1988)
N31	Derry	Raised bog survey reports
N32	Derryclure	Raised bog survey reports
N33	Cloncrow	Foss and O' Connell (1996)
N34	Lilliput Bog	Foss and O' Connell (1996)
N36	Garraskil	Cross (1990)
N37	Cloonshinagh	Foss and O' Connell (1996)
N38		Cross (1988)
N39	Cordonaghty Bog	Duchas NHA/SAC file information
N40	Rossagad	Foss and O' Connell (1996)

N41		J. Conaghan personal observation
N42	Barnaboy	Cross (1990)
N43	Raheenmore	Cross (1990)
N44	Moorerow	Raised bog survey reports
N45	Woodown	Foss and O' Connell (1996)
N46		Cross (1988)
N47	Camagh	Raised bog survey reports
N48	Farren Connell Estate	Foss and O' Connell (1996)
N49		Cross (1988)
N50		Cross (1988)
N51		J. Conaghan personal observation
N52		Cross (1988)
N53	Blackcastle	Cross (1990)
N54		Cross (1988)
N55		Cross (1988)
N56		Cross (1988)
N58		Cross (1988)
N59		Cross (1988)
N60		Cross (1988)
N61	Cloghan Demesne Bog and Esker	Duchas NHA/SAC file information
N62		Cross (1988)
N63	Ardkill Bog	Foss and O' Connell (1996)
N64	Lerick Bog	Foss and O' Connell (1996)
N65		Cross (1988)
N67		Cross (1988)
N68	Kilconny	Cross (1990)
N69		Cross (1988)
N70		Cross (1988)
N71	Mouds	Foss and O' Connell (1996)
N72	Lodge Bog	Foss and O' Connell (1996)
N73		Cross (1988)
N74	Ballina	Foss and O' Connell (1996)
N75	Doolystown	Foss and O' Connell (1996)
N76	Jamestown bog	Foss and O' Connell (1996)
N77	Girley	Foss and O' Connell (1996)
N78		Cross (1988)
N82	Ballynafagh/Blackwood	Cross (1990)
N83	Hodgestown	Foss and O' Connell (1996)
N84		Cross (1988)
N87	Oristown	J. Conaghan personal observation
N89	Corstown Loughs	Foss and O' Connell (1996)
N97	Brown bog	Foss and O' Connell (1996)
N99	Ardee Bog	Cross (1988)
O06	Thomastown	Foss and O' Connell (1996)
Q80		Cross (1988)
Q82		Cross (1988)
Q84		Cross (1988)
Q85		Cross (1988)
Q90		Cross (1988)
Q91		Cross (1988)
Q92		Cross (1988)
Q93		Cross (1988)
Q96	Monmore	Foss and O' Connell (1996)
R00	Anna More	Foss and O' Connell (1996)
R03	Moanveanlagh	Cross (1990)
R04	Gabbets	Foss and O' Connell (1996)
R39	Ballyogan Lough	Duchas NHA/SAC file information
R45	Dromore and Bleach Loughs	Duchas NHA/SAC file information
R46	Fin Lough (Clare)	Duchas NHA/SAC file information
R47	Lough Callaunyheada	Duchas NHA/SAC file information
R54		Cross (1988)
R55		Cross (1988)
R57	Doon Lough	Duchas NHA/SAC file information

R58	Ayle Lower	Foss and O' Connell (1996)
R64		Cross (1988)
R65		Cross (1988)
R66		Cross (1988)
R75	Ballyvorheen	Foss and O' Connell (1996)
R78	Cloonamirran wood	Duchas NHA/SAC file information
R79	Boleynanollag	Raised bog survey reports
R89	Rossmore	Raised bog survey reports
R99	Scohaboy Bog	Foss and O' Connell (1996)
S08	Roscrea Bog	Duchas NHA/SAC file information
S09	Sharavogue	Cross (1990)
S14		Cross (1988)
S15		Cross (1988)
S16		Cross (1988)
S17		Cross (1988)
S18	Ballaghmore	Foss and O' Connell (1996)
S25	Littleton bog	Foss and O' Connell (1996)
S26		Cross (1988)
S27		Cross (1988)
S28	Knockaroe	Foss and O' Connell (1996)
S29	Coolrain	Foss and O' Connell (1996)
S38		Cross (1988)
S39	Knockacolla	Cross (1990)
S48		Cross (1988)
S49	Cloonadadoran	Raised bog survey reports
S53	Kileasy Bog	Foss and O' Connell (1996)
S59	Moanavan	Foss and O' Connell (1996)
S69.		Cross (1988)
S73	Drummin Bog	Foss and O' Connell (1996)
S79		Cross (1988)
V89		Cross (1988)
V98	Sheheree	Foss and O' Connell (1996)
V99		Cross (1988)
W36	The Gearagh	M. Wyse Jackson personal communication



The distribution of raised bog in the Republic of Ireland on a 10k square basis.

## Montane Heath

### **Definition of the Habitat**

In the Republic of Ireland montane heath comprises low-growing dwarf-shrub vegetation, usually dominated by *Calluna vulgaris* which, in addition, contains species of montane affinities such as *Empetrum nigrum*, *Arctostaphylos uva-ursi*, *Vaccinium vitis-idea*, *Huperzia selago*, *Juniperus communis* subsp. *alpina*, *Carex bigelowii*, *Lycopodium clavatum* and *Diphasiastrum alpinum*. The habitat is found mostly above altitudes of 300 metres, however such vegetation is also occasionally found growing close to sea-level, especially in the north-west of the country. The associated soil consists of shallow peat which is generally less than 30cm deep, however if the situation is very exposed, the habitat occurs as a mosaic with exposed rock, e.g. along mountain ridges and summits. Throughout most of its range the habitat is rather species-poor and occurs in close association with areas of mountain blanket bog.

### **NATURA 2000 Habitat Categories**

Alpine and subalpine heaths (NATURA 2000 CODE 4060)

### **Characteristic Vegetation Communities**

*Lycopodio alpini* – *Racomitrietum lanuginosi* (Armstrong, Calvert et Ingold, 1930) Braun-Blanquet et Tüxen 1952

### **Distribution within the Republic of Ireland**

This habitat is to be found on the majority of mountain ranges which exceed 400 metres in elevation, however due to the absence or rarity of some of the diagnostic species of the habitat (see above) it is often difficult to separate montane heath from lowland dry heath dominated by *Calluna*. Some of the best examples of the habitat are to be found in the mountainous regions of Connemara, Co. Galway, Co. Donegal, Achill Island, Co. Mayo and the Burren, Co. Clare. Montane heath has been recorded from a total of 58 10-km squares.

### **Accuracy of the data**

Although most of the best examples of the habitat have been documented by the National Parks and Wildlife and in other studies, it is suspected that the available information regarding the distribution of the habitat is somewhat incomplete. The habitat is generally rather poorly understood in Ireland as a result of little specific study to date.

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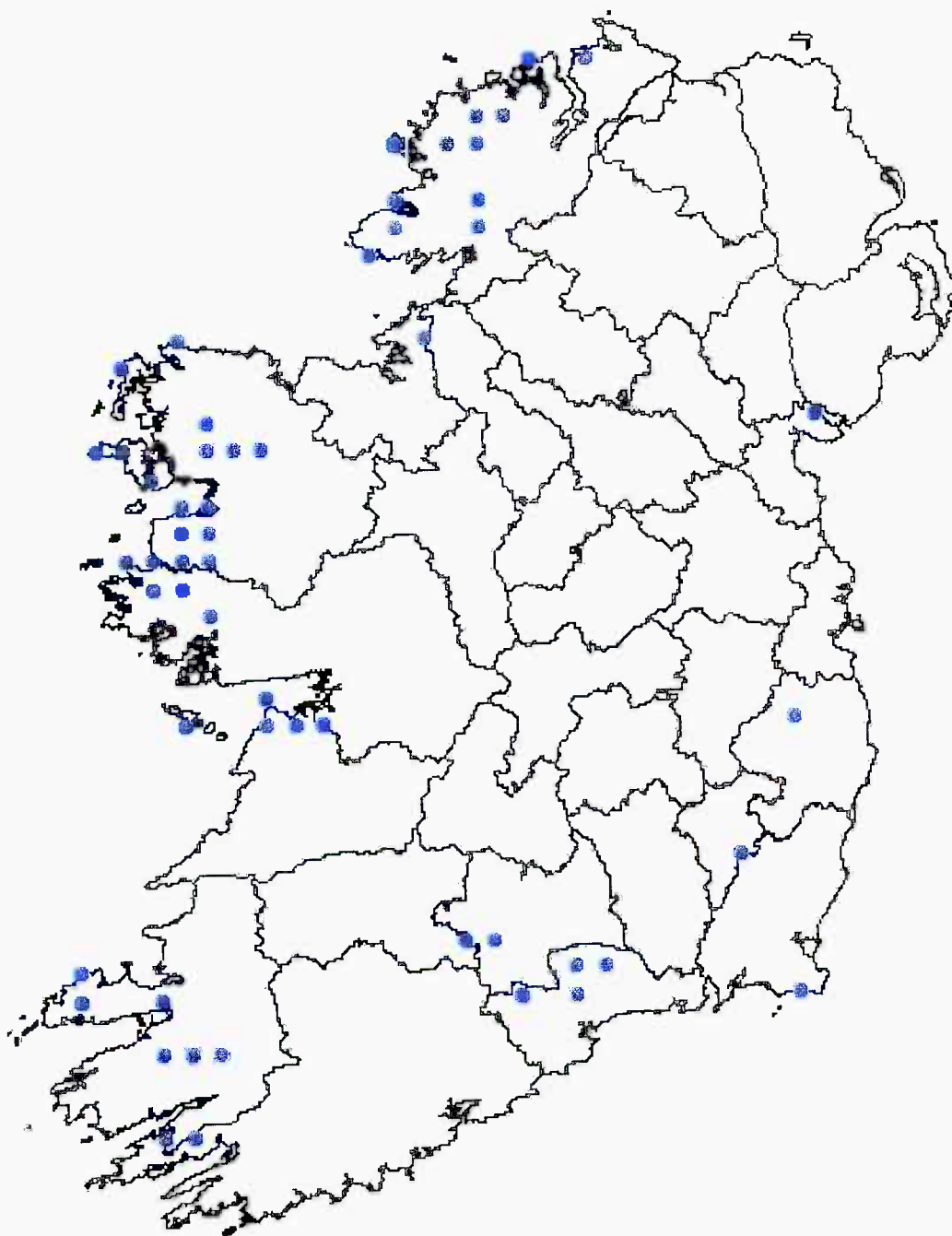
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The distribution of montane heath in the Republic of Ireland on a ten-kilometre square basis		
10k square	Location(s)	Source of information
B61	Aran island	Duchas NHA/SAC file information
B81	Crocknafarragh	Weekes (1990)
B91	Slieve Snaght	Weekes (1990)
B92	Errigal Mountain	Duchas NHA/SAC file information
C02	Muckish Mountain	Weekes (1990)
C14	Melmore	Duchas NHA/SAC file information
C34	Raghtin More	J. Conaghan personal observation.
F50	Croaghaun	Duchas NHA/SAC file information
F60	Slievemore	Duchas NHA/SAC file information
F63	Erris Head	Duchas NHA/SAC file information
F84	East of Benwee Head	Blanket bog surveys
F90	Summit of Glenamong	J. Conaghan personal observation.
F91	Summits of Nephin Beg range	J. Conaghan personal observation.
G00	Summit of Nephin	Praeger (1934)
G10	Summit of Nephin	Praeger (1934)
G57	Slieve League	Duchas NHA/SAC file information
G68	Slieve Tooley	Duchas NHA/SAC file information
G69	Slieve Tooley	Duchas NHA/SAC file information
G74	Benbulbin/Truskmore plateau	Duchas NHA/SAC file information
G98	Bluestack Mountains	J. Conaghan personal observation.
G99	Bluestack Mountains	J. Conaghan personal observation.
J11	Carlingford Mountain	Duchas NHA/SAC file information
L66	Tully Mountain	Duchas NHA/SAC file information
L75	Diamond hill/Knockbrack/Twelve Bens	Duchas NHA/SAC file information
L76	Mweelrea/Benchoona	Duchas NHA/SAC file information
L79	Corraun hill	Duchas NHA/SAC file information
L80	Inis Mor Island	Duchas NHA/SAC file information

L85	Knocknahillion/Maumturks	Duchas NHA/SAC file information
L86	Ben Gorm	Duchas NHA/SAC file information
L87	Croagh Patrick	Praeger (1934)
L88	Croagh Patrick	Praeger (1934)
L94	Leckavrea	Duchas NHA/SAC file information
L96	S.E. plateau of Maumtrasnas	J. Conaghan personal observation.
L97	Croagh Patrick	Praeger (1934)
L98	Croagh Patrick	Praeger (1934)
M10	Cappanwalla/Gleninagh	Ivimey-Cook and Proctor (1966)
M11	Gleninagh Mountain	Duchas NHA/SAC file information
M20	Moneen Mountain	Duchas NHA/SAC file information
M30	Slieve Carran	Duchas NHA/SAC file information
O00	Mullaghcleevaun	NHA files
Q40	Brandon Peak	Curtis (1993)
Q41	Mount Brandon	Curtis (1993)
Q70	Slieve Mish Mountain	Duchas NHA/SAC file information
R82	Galty Mountain	Duchas NHA/SAC file information
R92	Galty Mountain	Duchas NHA/SAC file information
S00	Knockmealdown	J. Conaghan personal observation.
S20	Comeragh Mountains	Duchas NHA/SAC file information
S21	Comeragh Mountains	Duchas NHA/SAC file information
S31	Comeragh Mountains	Duchas NHA/SAC file information
S85	Mount Leinster	Duchas NHA/SAC file information
T09	Lugnaquilla	NHA files
V75	Caha Mountains	Duchas NHA/SAC file information
V78	Caher/Carrauntouhill	Duchas NHA/SAC file information
V85	Caha Mountains	Duchas NHA/SAC file information
V88	Caher/Carrauntouhill	Duchas NHA/SAC file information
V98	Mangerton	J. Conaghan personal observation.





The distribution of montane heath in the Republic of Ireland on a 10k square basis.

## Lowland calcareous grassland

### **Definition of the Habitat**

Lowland calcareous grassland can be defined as grassland occurring on well-drained, lime-rich soils which are dominated by a suite of calcicole grass and forb species. This type of grassland is usually very rich in species, i.e. mostly greater than 30 species in an area of 4m<sup>2</sup>. The habitat, as identified in this survey, generally contains many of the following plant species: *Arabis hirsuta*, *Carex caryophyllea*, *Sanguisorba minor*, *Carlina vulgaris*, *Carex flacca*, *Briza media*, *Linum catharticum*, *Centaurea scabiosa*, *Blackstonia perforata*, *Galium verum*, *Leontodon hispidus* and *Sesleria albicans*. Species of orchid such as *Gymnadenia conopsea*, *Orchis morio*, *Orchis mascula*, *Listera ovata*, *Ophrys apifera*, *Coeloglossum viride* and *Dactylorhiza fuchsii* are often conspicuous.

### **NATURA 2000 Habitat Categories**

Semi-natural dry grasslands and scrubland facies on calcareous substrates (Festuco-Brometalia) (\* important orchid sites) (NATURA 2000 CODE 6210)

### **Characteristic Vegetation Communities**

*Antennarietum hibernicae* Braun-Blanquet et Tüxen 1952

### **Distribution within the Republic of Ireland**

Although the habitat is found in most counties, it is most common in regions with large areas of limestone pavement and eskers. In the recent past there has been a greater degree of exploitation of these habitats for agricultural reclamation and quarrying of road building material. As a result of this widespread damage the distribution of the habitat has become much more fragmented. Noteworthy examples of the habitat are to be found in the Burren region of north Clare and south-east Galway and the esker grasslands of counties Offaly and Westmeath. Small areas of the habitat can also be found on sand dunes composed of highly calcareous sand in the west of the country. The habitat has been recorded from 81 10-km squares.

### **Accuracy of the data**

Although many of the most noteworthy and extensive areas of the habitat have been identified by National Parks and Wildlife it is likely that many small areas still remain to be documented. Furthermore there has been little or no specific study of vegetation composition in these areas. The occurrence of the habitat in artificial habitats such as railway cuttings and disused quarries in the centre of the country is thought to be greatly underestimated.

### **Main sources of information**

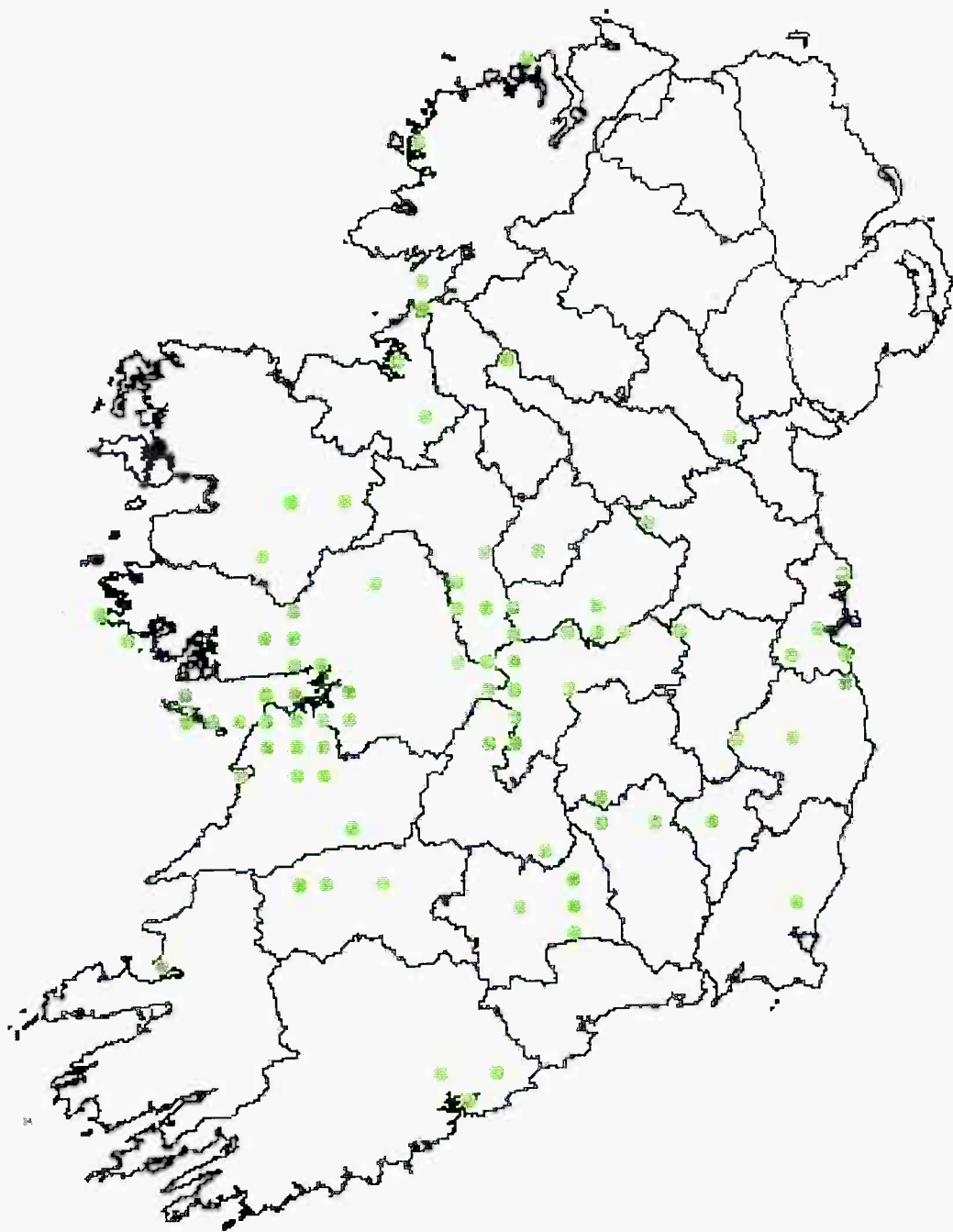
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The distribution of lowland calcareous grassland in the Republic of Ireland on a ten-kilometre square basis.		
10-k square	Location(s)	Source of information
B71	Keadue	Crawford <i>et al.</i> (1996)
C14	Melmore	Crawford <i>et al.</i> (1996)
G63	Knocknarea mountain and glen	Dúchas NHA/SAC file information
G71	Bricklieve Mts and Keshcorran	Dúchas NHA/SAC file information
G75	Bunduff Lough and Machair	Dúchas NHA/SAC file information
G76	St. John's Point	Dúchas NHA/SAC file information
H03	Corratirrim	Dúchas NHA/SAC file information
H80	Lough Fea Demesne	Dúchas NHA/SAC file information
L54	Slyne Head Peninsula	Dúchas NHA/SAC file information
L63	Dunes at Roundstone	Braun-Blanquet et Tuxen (1952)
L80	Inis Mor	Dúchas NHA/SAC file information
L81	North Inis Mor	J. Conaghan personal observation
L90	Inis Oirr	Dúchas NHA/SAC file information
M00	Pollsallagh	Ivimey-Cook and Proctor (1966)
M10	Black Head-Pollsullagh	Dúchas NHA/SAC file information
M11	Black Head-Pollsullagh	Dúchas NHA/SAC file information
M13	Roadside at Roscahill	J. Conaghan personal observation
M16	Lough Carra/Mask	Dúchas NHA/SAC file information
M20	Ballyvaughan Turlough/Moneen Mountain	Dúchas NHA/SAC file information
M21	Finnavarra	Ivimey-Cook and Proctor (1966)
M22	Near Gentian Hill, Galway city	J. Conaghan personal observation
M23	Glacial ridge south of Carrowmoreknock	J. Conaghan personal observation
M24	Cloghmoyne	Dúchas NHA/SAC file information
M28	Carrowmore Lough Shore	Dúchas NHA/SAC file information
M30	Between Boston and Tulla	Ivimey-Cook and Proctor (1966)
M32	N.W. of Ballindooly lake	J. Conaghan personal observation
M40	Coole-Garryland	Dúchas NHA/SAC file information
M41	Lough Fingal Complex	Dúchas NHA/SAC file information
M48	Mannin and Island lakes	Dúchas NHA/SAC file information
M55	Derrynagran Bog and Esker	Dúchas NHA/SAC file information
M82	Cloonascragh fen and Black Wood	Dúchas NHA/SAC file information
M84	Killeglan grassland	Dúchas NHA/SAC file information
M85	Banks of river Suck west of Athleague	Dúchas NHA/SAC file information
M91	Little Brosna Callows	Dúchas NHA/SAC file information
M92	Clorhane Wood	Dúchas NHA/SAC file information
M94	Castlesampson esker	Dúchas NHA/SAC file information
M96	Bracknagh	Klein (1975)

N00	Ridge Road S.E. of Rapemills	Duchas NHA/SAC file information
N01	All Saints Bog and Esker	Duchas NHA/SAC file information
N02	Clonfinlough Esker	Duchas NHA/SAC file information
N03	Pilgrims Road Esker	Duchas NHA/SAC file information
N04	Eskers north of Athlone	Klein (1975)
N16	Ledwithstown, c. 6km north-west of Ballymahon	Klein (1975)
N21	Clonaslee Esker and Derry Bog	Duchas NHA/SAC file information
N23	Clara Bog	Duchas NHA/SAC file information
N33	Split hills/Long hill Esker	Duchas NHA/SAC file information
N34	Lough Ennell	Duchas NHA/SAC file information
N43	Ballyduff Esker	Duchas NHA/SAC file information
N57	Lough Nanenagh	Duchas NHA/SAC file information
N63	The Long Derries/Edenderry	Duchas NHA/SAC file information
O02	Glenasmole Valley	Duchas NHA/SAC file information
O13	Phoenix Park	Doogue <i>et al.</i> (1998)
O21	Bray Head	Duchas NHA/SAC file information
O22	Killiney	Doogue <i>et al.</i> (1998)
O25	Loughshinny Coast	Duchas NHA/SAC file information
Q71	Fenit Point	Shimwell (1971)
R08	Dunes at Lehinch	Ivimey-Cook and Proctor (1966)
R19	Kilfenora	Ivimey-Cook and Proctor (1966)
R24	Barrigone	Duchas NHA/SAC file information
R28	Ballycullinan Lake	Duchas NHA/SAC file information
R29	Carran	Ivimey-Cook and Proctor (1966)
R34	Barrigone	Duchas NHA/SAC file information
R38	Moyree River	Duchas NHA/SAC file information
R39	East Burren Complex	Duchas NHA/SAC file information
R46	Ballycar Lough	Duchas NHA/SAC file information
R54	Tory Hill	Duchas NHA/SAC file information
R99	Liskeenan Fen	Duchas NHA/SAC file information
S03	Quarryford Bridge	Duchas NHA/SAC file information
S09	Margins of Sharavogue bog	J. Conaghan personal observation
S15	Killough Hill	Duchas NHA/SAC file information
S22	Templeetney quarry	Duchas NHA/SAC file information
S23	Money park, Fethard	Duchas NHA/SAC file information
S24	Laffans Bridge	Duchas NHA/SAC file information
S36	Spa hill and Clonmantagh Hill	Duchas NHA/SAC file information
S37	Cullahill Mountain	Duchas NHA/SAC file information
S56	Dunmore Complex	Duchas NHA/SAC file information
S76	Ballymoon Esker	Duchas NHA/SAC file information
S89	Ballycore Rath	Duchas NHA/SAC file information
W77	Rock Farm Quarry, Little Island	Duchas NHA/SAC file information
W86	Carrigacrump hills	Duchas NHA/SAC file information
W97	Carrigshane hill	Duchas NHA/SAC file information



The distribution of lowland calcareous grassland in the Republic of Ireland on a 10k square basis.

## Upland oak woodland

### **Definition of the Habitat**

In the context of this survey, upland oak woodland is taken to encompass all woodlands in the Republic Ireland dominated by *Quercus petraea* with a high cover of *Ilex aquifolium* and the fern *Blechnum spicant*. Such woodlands are generally restricted to acid soils in the west of the country, however well-developed stands are also found in the uplands of the south and east and in a few suitable locations in the low-lying midlands. Additional common species in such woodlands include *Betula pubescens*, *Sorbus aucuparia*, *Luzula sylvatica*, *Hedera helix*, *Lonicera periclymenum*, *Vaccinium myrtillus*, *Dryopteris* spp., *Oxalis acetosella*, *Polypodium vulgare* and *Geranium robertianum*. In the south-west of the country the rare shrub *Arbutus unedo* is a prominent feature. Due to the moist and cool conditions in which these woodland develop there is generally a well-developed bryophyte layer present and such a feature is best developed in the more oceanic counties, especially in the south-west.

### **NATURA 2000 Habitat Categories**

Old oak woods with *Ilex* and *Blechnum* in the British Isles (NATURA 2000 code 91A0)

### **Characteristic Vegetation Communities**

*Blechno-Quercetum* Braun Blanquet et Tüxen 1952

### **Distribution within the Republic of Ireland**

The habitat is most frequent in the west and south of the country where it has been recorded from 71-10km squares. Nowadays the habitat is usually confined to damp, base-poor soils on steeply sloping hillsides which are rather rocky and inaccessible. The best remaining examples of the habitat include the Killarney valley Co. Kerry, Glenveagh Co. Donegal, the Wicklow uplands, Charleville woods Co. Offaly and St. John's Wood Co. Roscommon.

### **Accuracy of the data**

The accuracy of the data is generally good, because of the rarity of the habitat. Although most of the best examples of the habitat have been identified by National Parks and Wildlife surveys it is likely that some small remnants of conservation value still remain undetected.

### **Main sources of information**

Conaghan, J. personal observations

Ferguson, D.K. and Westhoff, V. (1987). An account of the flora and vegetation of Derryclare wood (Co. Galway), western Ireland. *Proceedings of the Royal Irish Academy*, C 90, 139-172.

Kelly, D.L. (1981). The native forest vegetation of Killarney, south-west Ireland: an ecological account. *Journal of Ecology*, 69, 437-472.

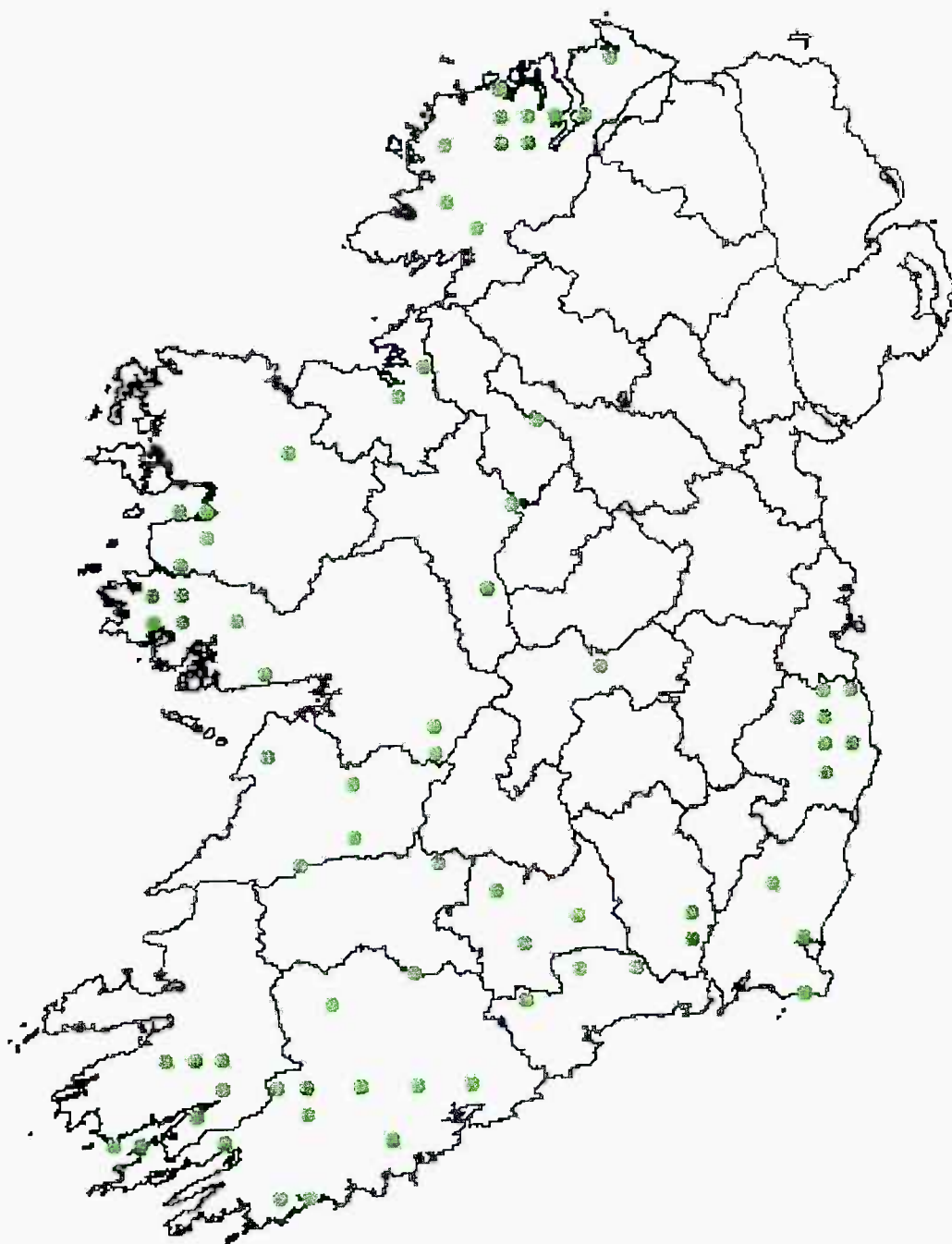
Kirby, E.N. and O' Connell, M. (1982). Shannawoneen wood, Co. Galway, Ireland: the woodland and saxicolous communities and the epiphytic flora. *Journal of Life Sciences, Royal Dublin Society*, 4, 73-96.

Natural Heritage Area and Special Area of Conservation file material. Compiled by Dúchas, the National Parks and Wildlife Service, Dublin.

The distribution of upland oak woodland in the Republic of Ireland on a ten-kilometre square basis.		
10-k square	Location(s)	Source of information
B81	Crolly Bridge woods	Duchas NHA/SAC file information
C01	Glenveagh	Duchas NHA/SAC file information
C02	Glenveagh, Derrylaggy	Duchas NHA/SAC file information
C03	Ards Forest Park	Duchas NHA/SAC file information
C11	Leannan Valley woods	Duchas NHA/SAC file information
C12	Ballyarr Woods	Duchas NHA/SAC file information
C22	Rathmullan woods	Duchas NHA/SAC file information
C32	Fahan woods	J. Conaghan personal observation
C44	Carndonagh woods	Duchas NHA/SAC file information
G20	Pontoon Woods	Duchas NHA/SAC file information
G62	Union wood	Duchas NHA/SAC file information
G73	Lough Gill woods	Duchas NHA/SAC file information
G89	Derkmore Woods Nature Reserve	Duchas NHA/SAC file information
G98	Ardnamona woods	Duchas NHA/SAC file information
H11	Garadice Lough wood	Duchas NHA/SAC file information
L74	Ballynahinch wood	Ferguson and Westhoff (1987)
L75	Kylemore wood	Duchas NHA/SAC file information
L84	Glendollagh wood	Duchas NHA/SAC file information
L85	Derryclare wood	Ferguson and Westhoff (1987)
L86	Dernasliggaun wood	Duchas NHA/SAC file information
L88	Old Head wood	Duchas NHA/SAC file information
L97	Brackloon Wood	Duchas NHA/SAC file information
L98	Brackloon Wood	Duchas NHA/SAC file information
M04	Hill of Doon	Duchas NHA/SAC file information
M12	Shannawoneen wood	Kirby and O' Connell (1982)
M70	Pollnaknockaun wood	Duchas NHA/SAC file information
M95	St. Johns wood	Duchas NHA/SAC file information
N08	Lough Forbes Complex	Duchas NHA/SAC file information
N32	Charleville wood	Duchas NHA/SAC file information
O00	Ballinagee Wood	Duchas NHA/SAC file information
O10	Lough Tay/Dan Valley	Duchas NHA/SAC file information
O11	Glencree valley	Duchas NHA/SAC file information
O21	Glen of the Downs	Duchas NHA/SAC file information
R19	Caherkinallia wood	Duchas NHA/SAC file information
R25	Cahiracon woods	Duchas NHA/SAC file information
R30	Priory wood, Lismire	Duchas NHA/SAC file information
R46	Garrannon wood	Duchas NHA/SAC file information
R48	Derryhumma wood	Duchas NHA/SAC file information
R61	Ballyhoura mountains	Duchas NHA/SAC file information
R75	Clare Glen	Duchas NHA/SAC file information
R79	Derrycrag wood	Duchas NHA/SAC file information
R94	Inchinquillib and Dowlings Woods	Duchas NHA/SAC file information
S00	Monatarriv woods	Duchas NHA/SAC file information
S02	Scragh Wood	Duchas NHA/SAC file information
S21	Nier valley woods	Duchas NHA/SAC file information
S23	Grove Wood	Duchas NHA/SAC file information
S41	Lower River Suir	Duchas NHA/SAC file information
S62	Brownstown Wood	Duchas NHA/SAC file information

S63	Kylecorragh Woods	Duchas NHA/SAC file information
S94	Killoughrum Forest	Duchas NHA/SAC file information
T06	Tomnafinnoge Wood	Duchas NHA/SAC file information
T18	Ballinacorr Wood	Duchas NHA/SAC file information
T19	Glendalough Woods	Duchas NHA/SAC file information
T29	Devil's Glen	Duchas NHA/SAC file information
V55	Derrynane	Duchas NHA/SAC file information
V65	Cleanderry woods	Duchas NHA/SAC file information
V78	Caragh River valley	Duchas NHA/SAC file information
V86	Uragh wood	Duchas NHA/SAC file information
V88	Killarney National Park	Kelly (1981)
V95	Glengarriff wood	Duchas NHA/SAC file information
V97	Killarney National Park	Kelly (1981)
V98	Killarney National Park	Kelly (1981)
W13	Castletownsend	Duchas NHA/SAC file information
W17	St. Gobnet's woods	Duchas NHA/SAC file information
W23	Myross wood	Duchas NHA/SAC file information
W26	Lough Allula	Duchas NHA/SAC file information
W27	The Gearagh	Duchas NHA/SAC file information
W47	Bandon valley west of Bandon	Duchas NHA/SAC file information
W55	Bandon valley above Iniscarra	Duchas NHA/SAC file information
W67	Ardamadane wood	Duchas NHA/SAC file information
W87	Leamlara wood	Duchas NHA/SAC file information





The distribution of upland oak woodland in the Republic of Ireland on a 10k square basis.