

BOTANICAL MONITORING BASELINE RECORDED AT KNOCKBARRIE, PERTHSHIRE, IN JULY 2025



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A project commissioned by Cairngorms National Park Authority

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SUMMARY

This project was commissioned by the Cairngorms National Park Authority in order to establish a botanical monitoring baseline in various habitats within a large area of moorland at Knockbarrie, NE of Pitlochry, Perthshire – part of the Forest of Clunie Site of Special Scientific Interest (SSSI). This work was commissioned in order to provide a monitoring baseline against which the vegetation can be compared in future, to assess any changes, especially changes resulting from the recent and ongoing deer control that is being carried out in response to a previous finding of an unfavourably high density of deer in the general area. This report describes the method used for recording the monitoring baseline in July 2025 and presents the monitoring baseline information.

The fieldwork for this contract was carried out in the period 5-8 July 2025 by Ben Averis. At each of 28 locations scattered widely through the site and in a wide range of vegetation types (dry heath, wet heath, blanket bog, flush and grassland), a set of five non-permanent 1m² quadrats was recorded, with the quadrats scattered within a defined area (in most cases a 10 m radius circle). For each quadrat the estimated percentage cover of each plant species was recorded along with broad measures of mean vegetation height, cover of bare ground, open water and leaf litter, overall flowering and abundance of dung. Additional details of height, browsing and flowering were recorded for all woody species. At each of these 28 locations, and at an additional 18 locations, a 360° panorama was photographed to show landscape-scale patterns of vegetation.

Additional target notes were made wherever plant species of special interest were found while walking across the site, and a list of all plant species seen during the survey was recorded too.

The site was found to be of considerable botanical interest. Especially notable here are flushed and base-enriched areas (mainly sedge flushes and flushed wet heath in the central to NE parts of the site), with species including *Eriophorum latifolium*, *Saxifraga aizoides*, *Briza media*, *Persicaria vivipara*, *Tofieldia pusilla*, *Trollius europaeus*, *Ranunculus auricomus*, *Galium boreale*, *G. uliginosum*, *Triglochin palustre*, *Linum catharticum*, *Salix repens* and the mosses *Sphagnum contortum*, *S. teres* and *S. warnstorffii*, and many patches of willow (mainly *Salix aurita*) on lower slopes in mosaics with heaths and flushes in the north-east.

There is additional interest including the montane sedge *Carex bigelowii* on the higher ground, the montane willow *Salix herbacea* at a surprisingly low altitude in heath that is taller and thicker than the type of vegetation in which this species typically grows, the uncommon moss *Sphagnum fuscum* in two areas of heathy bog, the uncommon mosses *Antitrichia curtipendula* and *Pterigynandrum filiforme* on the upper parts of rocks among heaths, the uncommon clubmoss *Lycopodium annotinum* in heath in two places, a little *Viola lutea* in short, heavily grazed acid grassland (U4a) and some rockrose *Helianthemum nummularium* in short, heavily grazed calcareous grassland (CG10).

In general the higher ground in the east (from Carn na h-Elrig north-east to Dalnacarn Craig and Blath Bhalg) and, more locally, in the north-west (on the higher part of Carn Dubh), appear from this survey to be the most lightly grazed parts of the site. Their vegetation is mainly dry heath with a tall, thick growth of heather. The areas showing signs of heaviest grazing are the wide basin in the central-SW of the site and with the adjacent SE-facing slopes to the SE of Carn Dubh; these areas have most of the short and relatively dry grassland habitat at Knockbarrie, the grasslands interspersed with wetlands and heaths.

Continued deer control can be expected to be beneficial for natural regeneration of trees (of which there is currently very little apart from the above-mentioned willows) and increased cover and height of creeping willow *Salix repens*. Continuation of at least a light or light to moderate level of grazing appears likely to be good for maintaining the botanical interest across the whole range of habitats.

1 INTRODUCTION

This project was commissioned by the Cairngorms National Park Authority in order to establish a botanical monitoring baseline in various habitats within a large area of moorland at Knockbarrie, NE of Pitlochry, Perthshire.

The study area is on gently undulating land 265-641 metres above sea level. The vegetation is mainly heathland but also includes blanket bog, grassland (mainly acid), sedge mire, rush mire and willow woodland (see Map 1 in Appendix 4). The area is of considerable botanical interest and is also important for birds. It is part of the Forest of Clunie Site of Special Scientific Interest (SSSI) and Special Protection Area (SPA). The notified natural feature of these designations is ornithological, including breeding hen harrier, osprey, short-eared owl and black grouse (<https://www.nature.scot/sites/default/files/site-special-scientific-interest/1709/sssi-citation.pdf>).

The underlying geology consists almost entirely of metamorphic rock of Tonian/Ediacaran/Cambrian age, formed between 1000 and 499 million years ago, large areas of which are overlain by much younger Quaternary deposits of diamicton and, locally, peat and alluvium (https://geologyviewer.bgs.ac.uk/?_ga=2.100227742.1033667343.1700653607-961457403.1700653607).

This work was commissioned in order to provide a monitoring baseline against which the vegetation can be compared in future, to assess any changes, especially changes resulting from the recent and ongoing deer control that is being carried out in response to a previous finding of an unfavourably high density of deer in the general area. This area is also grazed for at least part of the year by sheep. This report describes the method used for recording the monitoring baseline in July 2025 and presents the monitoring baseline information.

2 METHODS

The fieldwork for this contract was carried out in the period 5-8 July 2025 by Ben Averis, at a total of 46 monitoring locations (see Table 1 below and Map 2 in Appendix 4). The information recorded was of two types: (1) detailed botanical recording (using quadrats) and (2) fixed-point photography. The methods used for these are described below.

Detailed botanical recording

At each of a total of 28 locations (i.e. locations 1-28) scattered widely through the site and in a wide range of vegetation types, a set of five 1m² quadrats was recorded. There is therefore a total of 140 quadrats. The vegetation types at these locations fit into the following broad habitat categories: dry heath, wet heath, blanket bog, flush and grassland.

At each of these 28 locations the quadrats were scattered within a 10 m radius circle centred on a GPS-recorded grid reference. At two locations (numbers 21 and 23) the recording area was re-shaped to fit the area of the vegetation type sampled: a 5m radius circle at location 21 and an area 10m long (up-down-slope) x 5m wide (along-slope) at location 23.

At each location a photo was taken looking toward the centre point (in most cases looking N from the S edge of the sampling area). This photo gives a general visual impression of the vegetation here, as well as helping to show the location of the centre point (marked by a field bag and/or clipboard).

The quadrats within the sampling area were located so as to be scattered widely through the area and to cover the range of variation in the vegetation present, noting that the range of variation was generally not very large because each area was selected as being a representative example of a single broad vegetation type. Details of the locations of the quadrats were not recorded. They are therefore 'non-permanent', but the relative homogeneity of the vegetation within each sampling area is such that assessment of botanical change from future sets of five quadrats recorded within these same areas is expected to be meaningful.

For each 1m² quadrat the following data were recorded:

- Estimated % cover of each species (sum total can be >100% because of multi-layering)
- Mean vegetation height (excluding significantly taller flowering shoots of grasses) (cm)
- Bare soil (estimated % extent)
- Bare rock (estimated % extent)
- Dead plant litter mats (estimated % cover)
- Abundance of flowering (in broad categories: abundant; frequent; occasional; rare)
- Frequency of animal droppings (in broad categories: abundant; frequent; occasional; rare)
- Height (cm), frequency of flowering (abundant, frequent, occasional, rare or none) and level of browsing (low, medium or high) for each dwarf shrub species present and for each of any specimens of regeneration of tree/shrub species present

After recording the quadrats the National Vegetation Classification (NVC) community of the sampled area was noted.

Fixed-point photography

At the centre point of each of the above-described 28 locations for quadrat recording, and at an additional 18 locations (numbered 29-46, each one recorded with a GPS grid reference), a 360° panorama was photographed to show landscape-scale patterns of vegetation. Each panorama runs clockwise starting from north and consists of seven photos.

Nomenclature used in this report

Nomenclature in this report follows the following sources:

Vascular plants: <https://plantatlas2020.org/atlas/>

Bryophytes: <https://www.britishbryologicalsociety.org.uk/learning/species-finder/>

Lichens: <https://britishlichensociety.org.uk/resources/species-accounts>

3 RESULTS

Basic details (grid references etc) for each of the monitoring locations are given in Table 1. These are numbered from 1 to 46: 1-28 = locations where quadrats and 360° photographic panoramas were recorded; 29-46 = photographed panoramas only.

Additional target note locations, numbered from 47 to 85, recorded mainly for findings of species of interest, are given in Table 2 which includes the target note details. For consistency, findings of species of comparable interest at monitoring locations are also indicated in Table 1.

Table 3 gives summary information for vegetation height, unvegetated ground, litter, flowering, dung and species richness from the sets of quadrats recorded at locations 1-28.

Further details are provided in the appendices:

The botanical information recorded in quadrats is presented in Appendix 1. This is in three parts:

- Appendix 1A gives all information recorded in all quadrats
- Appendix 1B gives summarised information and species frequencies for each of these 28 locations.
- Appendix 1C gives summarised information on the condition of woody species at each of the 28 quadrat-monitoring locations.

A list of all plant species found during this fieldwork is given in Appendix 2.

All photographs taken during this monitoring baseline work are presented in Appendix 3. This includes all of the 360° panoramas photographed at locations 1-46 as well as photos to show the GPS-recorded centre points of each of locations 1-28 and additional photos of some of the target note locations of botanical interest and close-up views of some of the species of interest found during the survey.

Appendix 4 consists of maps showing:

- broad habitat types
- monitoring and target note locations
- geographical variation in species-richness
- geographical variation in and condition of *Calluna* and *Vaccinium myrtillus*
- geographical variation in overall flowering of all vascular plants
- areas showing evidence of burning, draining and heavy grazing
- areas with abundant willows.

Table 1. Botanical monitoring baseline locations at Knockbarrie, Perthshire, in July 2025

Q/P column: Q = set of five 1x1m quadrats recorded; P = 360° panoramic series of photographs taken.

Veg. column: DH = dry heath; WH = wet heath; BB = blanket bog; GR = grassland (mainly acid grassland); FL = flushes and other non-bog wetlands (rush and/or sedge mire); W = willow woodland. **NVC** column: for locations 1-28 only.

Notable species col.: for consistency with locations 47-85, species that would be mentioned in target notes are listed here.

Code	Grid reference	Q/P	Veg.	NVC	Notable species
1	NN 98032 59731	Q+P	FL	M4(-M5/M8)	<i>Sphagnum teres</i> , <i>S. warnstorffii</i>
2	NN 98371 59339	Q+P	BB	M17(-M15a)	
3	NN 97750 61974	Q+P	DH	H12b	
4	NN 98955 61795	Q+P	DH	H12c	
5	NN 98347 60272	Q+P	BB	M19a	<i>Sphagnum angustifolium</i> , <i>S. medium</i>
6	NN 98502 59889	Q+P	DH	H12a	
7	NN 98754 59957	Q+P	WH	M15b	
8	NN 98442 61034	Q+P	GR	U4a	
9	NN 98551 60810	Q+P	FL	M8(-M15a)	<i>Sphagnum contortum</i> , <i>S. warnstorffii</i>
10	NN 98672 61348	Q+P	FL	M23a	
11	NN 98920 60499	Q+P	FL	Ja-MG9	
12	NN 99166 60851	Q+P	GR	U4a	
13	NN 99370 61303	Q+P	GR	U4a	
14	NN 99376 61903	Q+P	WH	M15a-b	<i>Neottia cordata</i> , <i>Sphagnum teres</i>
15	NN 99535 61587	Q+P	DH	H12c	
16	NN 99924 61871	Q+P	DH	H12b	<i>Antitrichia curtipendula</i>
17	NO 00300 61531	Q+P	BB	M19c	<i>Neottia cordata</i>
18	NO 00378 61280	Q+P	DH	H12b	<i>Neottia cordata</i>
19	NO 00531 61076	Q+P	BB	M19a(-M17)	<i>Neottia cordata</i> , <i>Sphagnum fuscum</i>
20	NO 01628 61223	Q+P	DH	H12b	
21	NO 01084 62296	Q+P	FL	MX(-M15a)	<i>Persicaria vivipara</i>
22	NO 00301 62916	Q+P	WH	M15-H12	<i>Persicaria vivipara</i>
23	NO 00526 62795	Q+P	WH	M15a	<i>Persicaria vivipara</i>
24	NO 00673 62773	Q+P	DH	H12b	<i>Neottia cordata</i>
25	NO 00739 62829	Q+P	WH	M15a	<i>Sphagnum ang.</i> / <i>russ.</i> / <i>teres</i> / <i>warn.</i>
26	NO 01059 62928	Q+P	FL	M6c	<i>Sphagnum russowii</i>
27	NO 01170 63004	Q+P	FL	M23a	
28	NO 01738 63337	Q+P	WH	M15a	<i>Persicaria vivip.</i> , <i>Sph. ang./teres/warn.</i>
29	NN 96764 59964	P	DH FL		
30	NN 97653 60130	P	GR DH		
31	NN 98319 59348	P	DH WH (BB FL)		
32	NN 98284 58588	P	DH WH (BB FL)		
33	NN 97767 61349	P	DH WH (GR FL)		<i>Antitrichia curtipendula</i>
34	NN 97549 61926	P	DH WH BB FL		
35	NN 98059 62173	P	DH		
36	NN 98860 61543	P	DH WH GR FL (BB)		
37	NO 00260 61557	P	DH		
38	NO 01934 61142	P	DH		
39	NN 99377 62388	P	WH W		
40	NN 99585 62481	P	DH (WH)		
41	NO 00374 62568	P	DH		
42	NO 00526 62795	P	DH WH		
43	NO 01597 63307	P	DH WH FL W		
44	NO 01216 63072	P	DH WH FL W		
45	NO 01549 63314	P	DH (GR)		
46	NO 01882 63318	P	WH		

Location 21: sampling area is a 5m radius circle. Location 23: sampling area is 10m long (up-down-slope) x 5m wide (along-slope).

Table 2. Target notes recorded at additional locations (47-85) at Knockbarrie, Perthshire, in July 2025

(P) = photograph(s) shown in Appendix 3.

Code	Grid reference	Details
47	NN 98243 58610	<i>Juniperus communis</i> (1 small, browsed plant 15 cm tall) in heath (P)
48	NN 97930 59111	<i>Lycopodium annotinum</i> in heath
49	NN 97643 60130	<i>Viola lutea</i> in U4 grassland 6-15m W of 360° panorama location 30
50	NN 97825 60057	<i>Helianthemum nummularium</i> plentiful in short, grazed CG10 grassland/H10d heath (P)
51	NN 97784 62006	Moss <i>Antitrichia curtipendula</i> on rock in heath
52	NN 97795 62047	Moss <i>Antitrichia curtipendula</i> on rock in heath
53	NN 97830 62063	Moss <i>Antitrichia curtipendula</i> on rock in heath
54	NN 97918 62132	<i>Lycopodium annotinum</i> in heath (P)
55	NN 97967 62140	<i>Carex bigelowii</i> in heath
56	NN 97964 62162	Eroded area within bog (P) (photo taken to show extent of erosion)
57	NN 98027 62075	Eroded area within bog (P) (photo taken to show extent of erosion)
58	NN 98025 62106	Moss <i>Pterigynandrum filiforme</i> on SE side of rock in heath (P)
59	NN 97931 61905	Mosses <i>Pterigynandrum filiforme</i> and <i>Antitrichia curtipendula</i> on rock in heath
60	NN 98699 61371	<i>Viola lutea</i> in short, grazed U4/CG10 grassland
61	NN 99140 60808	<i>Viola lutea</i> in short, grazed U4 grassland
62	NN 99384 61194	<i>Persicaria vivipara</i> in M15a flushed wet heath
63	NN 99429 61207	<i>Eriophorum latifolium</i> in M15a/M10 flush
64	NN 99103 61926	<i>Eriophorum latifolium</i> in M15a/M10 flush
65	NN 99255 62212	<i>Eriophorum latifolium</i> , <i>Sphagnum contortum</i> and <i>S. warnstorffii</i> in M15a/M10 flush
66	NN 99318 62134	<i>Persicaria vivipara</i> in M15a flushed wet heath
67	NN 99702 62587	<i>Ranunculus auricomus</i> and <i>Persicaria vivipara</i> in M15a flushed wet heath (P)
68	NN 99791 62608	<i>Eriophorum latifolium</i> in M15a flushed wet heath
69	NN 99986 62626	<i>Galium boreale</i> in M15a flushed wet heath
70	NO 00310 63170	Flushed area (M11/M15a/M25c/U5c) with species including <i>Eriophorum latifolium</i> , <i>Persicaria vivipara</i> and <i>Tofieldia pusilla</i>
71	NO 00712 63289	M10/M11/M15a flushed area with species including <i>Eriophorum latifolium</i> , <i>Tofieldia pusilla</i> , <i>Persicaria vivipara</i> , <i>Galium boreale</i> and <i>Trollius europaeus</i> (P)
72	NO 00996 63275	<i>Eriophorum latifolium</i> , <i>Tofieldia pusilla</i> , <i>Sphagnum contortum</i> and <i>S. warnstorffii</i> in M10/11 flush
73	NO 01268 63064	Area of eroded peat (P = photo taken to show extent of erosion)
74	NO 01845 63347	Moss <i>Sphagnum fuscum</i> (c.9 hummocks) in M19a bog; (P) = photos taken to show the vegetation here and two examples of <i>S. fuscum</i> hummocks
75	NO 00900 62395	U5c species-rich <i>Nardus</i> grassland with species including <i>Galium boreale</i> , <i>Geranium sylvaticum</i> and <i>Persicaria vivipara</i>
76	NO 00979 62365	<i>Galium boreale</i> in small area of CG10 grassland
77	NO 01357 61476	<i>Salix herbacea</i> in atypically dense, low altitude vegetation (H12b at 552-554 m); (P) = photos taken to show locations of these three populations
78	NO 01275 61955	<i>Gymnocarpium dryopteris</i> locally abundant in H12b heath (P)
79	NO 00778 61054	<i>Juniperus communis</i> (one plant, 30 cm tall) in heath at boundary fence
80	NO 00999 61051	<i>Carex bigelowii</i> in H12 heath and M19 bog (P)
81	NO 01314 61049	<i>Carex bigelowii</i> locally abundant in H12b heath
82	NO 01398 61062	<i>Carex bigelowii</i> locally abundant in short (mostly <10 cm) H12b heath
83	NO 01528 61138	Steep bank + rock, with species including <i>Gymnocarpium dryopteris</i> and (on rock) moss <i>Kiaeria blyttii</i> (P)
84	NO 01788 61280	<i>Carex bigelowii</i> very abundant (and flowering well) in short H12b heath (P)
85	NO 01849 61252	<i>Juniperus communis</i> : one plant 15 cm in height in short H12b heath at boundary fence

Table 3. Summarised data from sets of 1m² botanical monitoring baseline quadrats at locations 1-28 at Knockbarrie, Perthshire, in July 2025

For each location the columns for vegetation height, bare ground, bare rock, open water, litter and number of species per quadrat show mean values from each set of five 1m² quadrats. The columns for flowering and dung show the most frequently recorded categories within each of these sets of five 1m² quadrats (category codes: A = abundant, F = frequent, O = occasional, R = rare, N = none).

Habitat codes: BB = blanket bog; DH = dry heath, WH = wet heath, FL = flush, GR = grassland.

Location no.	Central grid ref.	Hab.	Veg. height (cm)	Bare ground (%)	Bare rock (%)	Open water (%)	Litter (%)	Flowering (AFOR)	Dung (O,R or None)	No. of spp. / quadrat
1	NN 98032 59731	FL	36	0	0	0	9.4	F(O)	N	18
2	NN 98371 59339	BB	24	0.4	0	0	0	O-F	R	16.8
3	NN 97750 61974	DH	35	0	0	0	0	F-A	O	6.2
4	NN 98955 61795	DH	12.2	0	1.2	0	0	F(O)	O	10.4
5	NN 98347 60272	BB	40	0	0	0	0	F	N	13.6
6	NN 98502 59889	DH	39	0	0	0	0	O	R	7.8
7	NN 98754 59957	WH	24	0	0	0	0	F-A	N	17.8
8	NN 98442 61034	GR	13	0	0	0	0	F-A	N	11.8
9	NN 98551 60810	FL	30	0	0	0.4	0	O-F	N	14.6
10	NN 98672 61348	FL	50	0	0	0	2.2	O-F	N	11.4
11	NN 98920 60499	FL	48	0	0	0	12	O(F)	N	7
12	NN 99166 60851	GR	18	0	0	0	0	F-A	N	12.2
13	NN 99370 61303	GR	14	0	0	0	0	A	N	9.8
14	NN 99376 61903	WH	31	0	0	0	0	F-A	N	17.2
15	NN 99535 61587	DH	19	0	0.4	0	0	F(O)	R-O	13
16	NN 99924 61871	DH	40	0	0	0	0	F(A)	N	10
17	NO 00300 61531	BB	30	0	0	0	0	O-F	N	12.6
18	NO 00378 61280	DH	29	0	0	0	0	F	N	10.2
19	NO 00531 61076	BB	22	0	0	0	0	O	N	12
20	NO 01628 61223	DH	24	0.6	0	0	0	F-A	R	9.8
21	NO 01084 62296	FL	21	0	0	0	0	O-F	N	20.4
22	NO 00301 62916	WH	37	0	0	0	0	F-A	N	18.2
23	NO 00526 62795	WH	20	0	0	0	0	F-A	N	23.2
24	NO 00673 62773	DH	44	0	0	0	0	F(O)	N	8.6
25	NO 00739 62829	WH	26	0	0	0	0	F(O)	N	20
26	NO 01059 62928	FL	72	0	0	0	0	A(F)	N	9
27	NO 01170 63004	FL	51	0	0	0	3.6	F	N	16
28	NO 01738 63337	WH	31	0	0	0	0	F	N	21.6

Table 4 lists the main habitats at Knockbarrie and indicates their National Vegetation Classification (NVC) types and equivalence with Scottish Biodiversity List (SBL; <https://www.nature.scot/scotlands-biodiversity/scottish-biodiversity-strategy/scottish-biodiversity-list>) and Annex 1 habitats (<https://sac.jncc.gov.uk/habitat/>). Most of the vegetation here has SBL and/or Annex 1 status: this is one indication of its generally high biodiversity value. Other aspects of the vegetation indicating biodiversity include occurrences of uncommon NVC communities and of plant species of particular interest, as described further on in this section (noting also the target notes already given in Table 2).

Table 4. Main habitat types at Knockbarrie and their equivalent National Vegetation Classification, Scottish Biodiversity List and EC Annex 1 habitat categories

Habitat type	National Vegetation Classification (NVC) type(s)	Scottish Biodiversity List habitat?	EC Annex 1 habitat?
Dry heath	H10 <i>Calluna vulgaris</i> - <i>Erica cinerea</i> heath, H12 <i>Calluna vulgaris</i> - <i>Vaccinium myrtillus</i> heath and H21 <i>Calluna vulgaris</i> - <i>Vaccinium myrtillus</i> - <i>Sphagnum capillifolium</i> heath	Y (upland heath)	Y (H4030 European dry heaths)
Wet heath	M15 <i>Trichophorum germanicum</i> - <i>Erica tetralix</i> wet heath	Y (upland heath)	Y (H4010 N Atlantic wet heaths with <i>Erica tetralix</i>)
Blanket bog	M17 <i>Trichophorum germanicum</i> - <i>Eriophorum vaginatum</i> bog and M19 <i>Calluna vulgaris</i> - <i>Eriophorum vaginatum</i> bog	Y (blanket bog)	Y (H7130 Blanket bogs)
Sedge mire	M4 <i>Carex rostrata</i> - <i>Sphagnum fallax</i> mire, M5 <i>Carex rostrata</i> - <i>Sphagnum squarrosum</i> mire, M8 <i>Carex rostrata</i> - <i>Sphagnum warnstorffii</i> mire, M10 <i>Carex dioica</i> - <i>Pinguicula vulgaris</i> mire, M11 <i>Carex demissa</i> - <i>Saxifraga aizoides</i> mire and (non-NVC) MX neutral small sedge mire	Y (upland flush/fen/swamp)	Y (M10/11 = H7230 Alkaline fens; M4/5/8 = H7140 Transition mire / quaking bog)
Rush mire	M6 <i>Carex echinata</i> - <i>Sphagnum fallax/auriculatum</i> mire + M23 <i>Juncus effusus/acutiflorus</i> - <i>Galium palustre</i> rush-pasture	Y (upland flush/fen/swamp)	N
<i>Molinia</i> grassland / mire	M25 <i>Molinia caerulea</i> - <i>Potentilla erecta</i> mire	Y (M25c <i>Angelica sylvestris</i> sub-community = upland flush/fen/swamp)	N
Acid grassland	U4 <i>Festuca ovina</i> - <i>Agrostis capillaris</i> - <i>Galium saxatile</i> grassland + U5 <i>Nardus stricta</i> - <i>Galium saxatile</i> grassland	U4 = N; U5 = Y (<i>Nardus stricta</i> - <i>Galium saxatile</i> grassland)	Y (U5c <i>Carex panicea</i> - <i>Viola riviniana</i> sub-community = H6230 Species-rich <i>Nardus</i> grassland on siliceous substrates in mountain areas)
Calcareous grassland	CG10 <i>Festuca ovina</i> - <i>Agrostis capillaris</i> - <i>Thymus drucei</i> grassland	Y (upland calcareous grassland)	Y (H6230 Species-rich <i>Nardus</i> grassland on siliceous substrates in mountain areas)
Willow woodland	Scrubby forms of W4 <i>Betula pubescens</i> - <i>Molinia caerulea</i> woodland and W7 <i>Alnus glutinosa</i> - <i>Fraxinus excelsior</i> - <i>Lysimachia nemorum</i> woodland	Y (wet woodland)	N

The following NVC types found here are uncommon or have a localised/patchy distribution in Britain: M5, M8, M11, M25c and U5c.

I have found a total of 161 vascular plant species, 70 moss species and 11 liverwort species at this site. Most of these are widespread and common in the British uplands, but many are of interest in being less common or more localised in their British/Scottish distributions. These are listed in Table 5 below.

Table 5. Plant species of particular interest found during survey work at Knockbarrie, Perthshire, in July 2025

Latin name	Common name	Quantity	Phyt
<i>Arctostaphylos uva-ursi</i>	Bearberry	1	46
<i>Carex bigelowii</i>	Stiff Sedge	1	16
<i>Eriophorum latifolium</i>	Broad-leaved Cottongrass	2	53
<i>Galium boreale</i>	Northern Bedstraw	1	56
<i>Geranium sylvaticum</i>	Wood Crane's-bill	1	44
<i>Gymnocarpium dryopteris</i>	Oak Fern	1	56
<i>Helianthemum nummularium</i>	Common Rockrose	1	73
<i>Juniperus communis communis</i>	Juniper	1	56
<i>Lycopodium annotinum</i>	Interrupted Clubmoss	1	26
<i>Neottia cordata</i>	Lesser Twayblade	2	46
<i>Persicaria vivipara</i>	Alpine Bistort	2	26
<i>Ranunculus auricomus</i>	Goldilocks Buttercup	1	53
<i>Salix repens</i>	Creeping Willow	3	54
<i>Tofieldia pusilla</i>	Scottish Asphodel	1	16
<i>Trollius europaeus</i>	Globeflower	1	43
<i>Vaccinium oxycoccus</i>	Cranberry	1	46
<i>Viola lutea</i>	Mountain Pansy	1	43
<i>Antitrichia curtipendula</i>	a moss	2	53
<i>Kiaeria blyttii</i>	a moss	1	23
<i>Kindbergia praelonga</i>	a moss	2	73
<i>Leucodon sciuroides</i>	a moss	1	64
<i>Lewinskyia affinis</i>	a moss	1	53
<i>Pterigynandrum filiforme</i>	a moss	1	46
<i>Sphagnum affine</i>	a moss	1	42
<i>Sphagnum angustifolium</i>	a moss	2	46
<i>Sphagnum contortum</i>	a moss	2	46
<i>Sphagnum fuscum</i>	a moss	1	26
<i>Sphagnum medium</i>	a moss	1	46
<i>Sphagnum russowii</i>	a moss	1	26
<i>Sphagnum teres</i>	a moss	2	26
<i>Sphagnum warnstorffii</i>	a moss	2	26
<i>Splachnum ampullaceum</i>	a moss	1	46

Many other species found here, are not so uncommon but are generally indicative of habitats that are of good quality from a nature conservation perspective. These include *Briza media*, *Carex canescens*, *C. dioica*, *C. hostiana*, *C. lepidocarpa*, *C. pulicaris*, *C. rostrata*, *Comarum palustre*, *Crepis paludosa*, *Danthonia decumbens*, *Dryopteris carthusiana*, *Equisetum sylvaticum*, *Galium uliginosum*, *G. verum*, *Geum rivale*, *Pedicularis palustris*, *Ranunculus bulbosus*, *Rubus chamaemorus*, *Saxifraga aizoides*, *Selaginella selaginoides*, *Thymus drucei*, *Triglochin palustre*, the mosses *Blindia acuta*, *Campylium stellatum*, *Climacium dendroides*, *Palustriella commutata*, *P. falcata*, *Scorpidium revolvens*, *S. scorpioides*, *Sphagnum squarrosum*, *Straminergon stramineum* and *Tortella tortuosa*, and the liverworts *Mylia anomala* and *Odontoschisma sphagni*.

Species of interest were found in all parts of the site visited during this project. Their widespread occurrences, their diversity and the local abundance of some of them are all aspects of a generally high degree of botanical interest here. Their diversity reflects variation – much of it on a small scale – in the acidity and wetness of the soils, ranging from acid bogs and dry heaths to base-enriched flushes. There is structural diversity too, with variation from tall dense heaths to hummocky bogs and short, grazed grasslands.

Non-native species are rare here. Those found in this survey are listed below in Table 6.

Table 6. Non-native plant species found during survey work at Knockbarrie, Perthshire, in July 2025

Latin name	Common name	Quantity at this site
<i>Acer pseudoplatanus</i>	Sycamore	Rare
<i>Aegopodium podagraria</i>	Ground Elder	Rare
<i>Picea sitchensis</i>	Sitka Spruce	Rare
<i>Campylopus introflexus</i>	a moss	Rare

The very low proportion of non-native plant species across such a large area is one of the various indications of a generally good level of botanical diversity here and a scarcity of habitats whose vegetation has a markedly artificial character.

The quadrat data show that the height, cover, flowering and browsing vary a lot in *Calluna vulgaris* and *Erica cinerea* but less for other dwarf shrub species. *Vaccinium myrtillus* is generally shorter and more heavily browsed than *Calluna* and with very limited flowering. *Erica tetralix*, *Empetrum nigrum* and *Vaccinium vitis-idaea* are less palatable than *Calluna*, *E. cinerea* and *V. myrtillus*, and they were generally found to show less evidence of browsing, though *Empetrum* and *V. vitis-idaea* are mostly short and were found to show only limited flowering/fruitletting. Maps 4-6 show geographical variation in browsing and flowering of *Calluna* and browsing of *Vaccinium myrtillus* at quadrat-recording locations. The mean percentage cover and mean height of the different woody species recorded in 1m² quadrats are given in Table 7 below.

Table 7. Summary data for woody plant species recorded in quadrats at Knockbarrie, Perthshire, in July 2025

Latin name	Common name	Mean % cover	Mean height (cm)	Commonest flowering category *	Commonest browsing category	No. of quadrats **
<i>Betula pubescens</i>	Downy birch	1.0	25.0	NF	Y	2
<i>Calluna vulgaris</i>	Heather	44.7	28.8	O-A (locally R)	M (L, H)	82
<i>Empetrum nigrum</i>	Crowberry	0.3	8.9	NF	L	12
<i>Erica cinerea</i>	Bell heather	3.6	23.4	F	L (H)	5
<i>Erica tetralix</i>	Cross-leaved heath	12.1	24.7	F-A	L	55
<i>Salix aurita</i>	Eared willow	3.4	32.0	NF	M (M-H)	5
<i>Salix repens</i>	Creeping willow	8.9	18.9	NF	M (M-H)	15
<i>Vaccinium myrtillus</i>	Blaeberry	9.5	11.9	NF or R	M-H (L)	44
<i>Vaccinium vitis-idaea</i>	Cowberry	2.8	9.3	NF or R	L	39

* = non-flowering. ** = total of 140 quadrats in whole dataset.

Map 7 in Appendix 4 shows geographical variation in the flowering of all vascular plants in quadrats. This recorded variable is very approximate because in many cases different species showed contrasting amounts of flowering within the same quadrat. According to this assessment, overall flowering was recorded most commonly as frequent, with no marked geographical pattern of variation, but it was more consistently high (frequent to abundant) in heaths and mostly lower (occasional) in sedge- and rush-dominated flushes.

Natural regeneration of tree species is very sparse here and largely restricted to just the occasional short, browsed downy birch and rowan. The scarcity of young trees reflects grazing levels, which have been high for some years but natural regeneration is expected to increase along with the control in deer density.

Despite the scarcity of young growth of taller tree species, willows are abundant on some of the lower ground (see Map 8 in Appendix 4) and have been so for many years. The conspicuous abundance of willows – eared willow *Salix aurita* and grey willow *S. cinerea* – on the lower slopes in the east of the site is in an area where there are also many areas of wet heath and sedge-moss mire whose floras indicate flushing and base-enrichment. Such enrichment of soils might also be beneficial to the growth of the willows. This same area is also very good for the much smaller creeping willow *S. repens*, which is widespread and common here, and also found more sparingly further west in the wide basin in the central-western part of the site.

All of these willow species are very palatable to large herbivores, so it is good to see the total abundance of them on the lower eastern slopes of the site. In addition to the many well-grown willows reaching about 3 m in height around here, there are also many shorter specimens that have been kept at a low height of less than 50 cm because of browsing; these have the potential to grow taller in response to a future decrease in deer density.



Local abundance of willows among heath-dominated ground at location 4 in July 2025

Map 9 in Appendix 4 shows approximate areas showing evidence of burning, draining and intensive grazing. This is based on field observations combined with study of online aerial photography (Google Earth) and it shows the areas most affected to be mainly in the western-central part of the site, where there is some spatial overlap between burning and heavy grazing and between draining and heavy grazing. The burning and draining activities appear to have taken place many years ago. I have not seen evidence of recent burning or draining here.

Some species of interest at this site appear likely to benefit from the presence of at least some grazing by large herbivores. These are small plants that appear to be poor competitors against taller thicker swards of vegetation as found in minimally grazed or ungrazed places. They include *Helianthemum nummularium*, *Persicaria vivipara*, *Tofieldia pusilla*, *Galium boreale*, *Ranunculus auricomus*, *Viola lutea* and *Thymus drucei*. These species are found here mainly in base-enriched flushes (NVC M10 and M11), flushed wet heaths (M15a), grassy herb-rich dry heath (H10d) and short grassland (U4a, U5c and CG10).

No formal Common Standards Monitoring (CSM) took place in this work, but in Tables 8-10 at the end of this section the 'Notes' column gives an assessment of the condition of bog, wet heath and dry heath habitats through the site as a whole, based on comparison of quadrat data with CSM recording criteria.

In general, the bog, wet heath and dry heath habitats would pass most of the CSM targets except for the one requiring <33% of dwarf shrub shoots to be browsed. In many places browsing, especially on *Calluna*, *Erica cinerea* and *Vaccinium myrtillus*, was recorded as being at a medium or high intensity, which has >33% of shoots browsed. However, it is often hard to make a meaningful assessment of the percentage of browsed shoots, the amount of browsing can vary within small areas, and browsing is generally less on *Erica tetralix*, *Empetrum* and *Vaccinium vitis-idaea*.

Some of the dry heath that is heavily grazed and very grassy would not pass the target for >50% of the vegetation made up of indicator species. This is because of insufficient cover of dwarf shrubs as a result of heavy grazing/browsing, but most of the dry heath has a more extensive cover of dwarf shrubs, passing this target.

The CSM forms include criteria for pioneer stage dwarf shrub growth. This is most apparent in places that have been subjected to burning, as in land managed as grouse moor, where young pioneer regrowth is a distinct feature of places that have been burned in recent years. Pioneer dwarf shrub growth is not so apparent in taller and/or thicker vegetation in places that have not been burned (or where burning has happened but long ago and not in recent years). Hence the 'failure' or inapplicability of these criteria because of a lack of pioneer regrowth should not be taken as an indication of poor condition.



Lightly-grazed heather in dry heath (H12b) at location 18 in July 2025



Short, grassy, heavily-grazed dry heath (H12c) at location 4 in July 2025



Wet heath (M15a) with medium-browsed *Calluna* + more heavily browsed *Salix repens*. Location 25. July 2025.



Eared willows (of varied heights) in wet heath (M15a) at location 23. *Calluna* medium browsed. July 2025.



Wet heath (M15b) with heavily-grazed *Calluna* at location 7 in July 2025

Bog occurs here mainly as rather small patches among heaths and flushes. Some of it, including areas sampled at locations 2 and 5, appears to have been subjected to much trampling over the years, and in some cases contains more *Polytrichum commune* and/or *Sphagnum fallax* than is usual in bog habitats, the abundance of these two moss species suggesting past disturbance such as trampling.



Good quality bog (mainly M19a) at location 19. Browsing on *Calluna* light to medium. July 2025.



Localised erosion in bog at location 56 in July 2025

For upland acid grassland, most of the examples here (NVC U4 and U5) appear likely to pass the required Common Standards Monitoring targets: *Juncus effusus* &/or *Rhytidiadelphus squarrosus* cover <33%, litter cover <10%, disturbed bare ground <10% and probably also the criterion for at least 25% of vascular plant leaves/shoots (excluding grass inflorescences) being >5 cm tall + at least 25% of them being <5 cm tall (noting that in *Nardus* grasslands this applies only to vegetation in between *Nardus* tussocks.)

For upland calcareous grassland, represented here by scattered small patches of NVC CG10, the vegetation/habitat appears likely to pass the Common Standards Monitoring targets for extent (assumed not to have decreased), frequency of indicator species (at least 2 present at 1m² scale), cover of non-native species, bracken, trees/shrubs, *Bellis*, *Ranunculus repens*, *Arrhenatherum*, *Cirsium arvense/vulgare*, *Cynosurus*, *Rumex crispus/obtusifolius*, *Jacobaea vulgaris*, *Urtica dioica* and *Juncus effusus* (all favourably low), litter cover (favourably low), disturbed bare ground (extent favourably low), and probably also forb cover (appears likely to be mostly >33% at 1m² scale), sward height (appears likely to be >25% >5 cm and >25% <5 cm). I cannot confidently comment on condition in relation to the grazing criteria, for which favourable condition (locally applicable criteria only) is <10% of grass/sedge tillers uprooted, <10% of leaves of *Nardus*, *Prunella* and *Thymus* grazed, <50% of leaves of *Plantago lanceolata* and legumes grazed, <66% of grass leaves grazed and <25% of *Selaginella* broken or uprooted.



Short, heavily-grazed acid grassland (U4a) at location 8 in July 2025



Short, heavily-grazed calcareous grassland/dry heath mosaic at location 50 in July 2025

The base-enriched sedge/moss mires (NVC M10 and M11) should pass the Alkaline fen Common Standards Monitoring targets for extent (assumed to have not decreased here), frequency and cover of indicator species (favourably high), cover of other plants (favourably low), drainage/disturbance (favourably low), disturbance to tufa (not applicable; tufa not seen) and probably also vegetation structure (appears likely to pass the target of >50% of leaves being >5 cm tall).



Area with base-enriched flushing (M15a wet heath and M10/11 sedge mires) at location 71 in July 2025

For sedge mires other than M10/11, the condition in relation to short sedge acid fen Common Standards Monitoring criteria appears likely to be as follows. Extent: targets passed, assuming that extent has not decreased. Frequency of indicator species: favourably high. Vegetation composition - cover: favourably low cover of non-native species, trees/shrubs, *Anthoxanthum*, *Epilobium hirsutum*, *Hoculus lanatus*, *Phragmites* and *Ranunculus repens*, and probably passing for >50% cover of indicator species (but unsure if the expectation for >25% cover from each of two subsets of indicator species is satisfied). Vegetation structure: passed (>50% of leaves/shoots >15 cm). Physical structure (active drains and heavy trampling): both favourably low in extent.



Carex rostrata mire (floristically closest to M8) at location 9, on level ground in wide basin, in July 2025

For neutral rush mires (M23) the condition in relation to the Common Standards Monitoring criteria used for this type of vegetation in lowlands (as there are no specific upland neutral rush mire condition criteria) are as follows: possibly passing positive indicator species target

in some places and not in others (richness appears variable); passing negative indicator species target (these species scarce/sparse here); passing vegetation height target (for which sward is expected to be between 5 and 80 cm) passing litter layer target (cover generally <25%), passing bare ground target (extent <10%).



Neutral rush mire (M23a) at location 27 in the NE of the site in July 2025

For *Molinia* vegetation (M25), which occurs here as just small, scattered patches, assessment against Common Standards Monitoring criteria for lowland examples (in the absence of clear/specific criteria relating to upland M25), the richness of positive indicators in relation to the target is uncertain, the negative indicator target is passed (these species being only scarce/sparse here), the vegetation height and bare ground criteria are passed and the criterion for litter might be passed (uncertain, as it is common for *Molinia* vegetation to include abundant litter in places). Some M25 at this site has an acidophilous flora including *Calluna* and *Erica tetralix*, and appears likely to have been derived from previous wet heath by grazing and/or burning. As such, this M25 – and much larger extents of M25 as found commonly further west in the Highlands and in Galloway – could be seen as an unfavourably modified type of vegetation that would once have been more heathy. Very locally there is M25 with a flora indicating at least slight base-enrichment, including species such as *Carex pulicaris*, *Filipendula ulmaria* and *Galium uliginosum*; this vegetation (M25c) is of greater botanical interest and might be derived from previous flushed wet heath (M15a).



Flushed/base-enriched *Molinia* grassland (M25a/c) at Knockbarrie (near Dalnacarn) in late September 2024. The M25 has the golden-buff colour of *Molinia* in autumn and the paler vegetation immediately beyond it includes flushed/base-enriched *Nardus* grassland (U5c).

From the findings of this survey, the main aspects of botanical interest at Knockbarrie can be summarised as follows:

- Good examples of small but botanically rich base-rich flushes (NVC M10 and M11) and, commonly associated with these, wet heath that is at least slightly base-enriched (M15a). Species of interest in these habitats include *Eriophorum latifolium*, *Saxifraga aizoides*, *Briza media*, *Pericaria vivipara*, *Tofieldia pusilla*, *Trollius europaeus*, *Ranunculus auricomus*, *Galium boreale*, *G. uliginosum*, *Triglochin palustre*, *Linum catharticum*, *Salix repens* and the mosses *Sphagnum contortum*, *S. teres* and *S. warnstorffii*. These flushed areas also contain a generally good diversity of sedges. These flushes occur mainly on gentle slopes. M15a wet heath is much more extensive here than M10/M11 flush vegetation. Locally, in association with M10/11/15a there are small areas of damp, flushed grassland (U5c and M25c) with similar botanical interest including *Briza*, *G. boreale*, *P. vivipara* and *Geranium sylvaticum*. These flushes, flushed wet heaths and flushed grasslands are most common on the lower ground in the central and north-eastern part of the site. They are generally in good condition in being neither overgrazed nor undergrazed, and not too heavily trampled. The presence of at least a light to moderate level of grazing is beneficial for maintaining their botanical interest.
- Interesting mosaics of bog and sedge mire on level ground in the wide basin in the central to south-western part of the site. The sedge mires here contrast with the bogs in containing abundant to dominant *Carex rostrata* with a varied accompanying flora indicating variation from acidic to base-enriched soils. The sedge mire vegetation here is floristically varied, encompassing M4, M5, M8 and M9 and has species including *Briza media*, *Galium uliginosum* and the mosses *Sphagnum angustifolium*, *S. teres* and *S. warnstorffii*. The botanical interest of these sedge mires appear to benefit from the presence of some grazing.
- Many patches of willow (mainly *Salix aurita*) on the lower slopes in the north-eastern part of the site, in mosaics with heaths and flushes. These willows are a great asset in providing significant diversity in vegetation height and structure, localised shade and shelter, and good habitat for insects, birds and mammals. Their contribution is especially notable when considering the way in which patches of willow occur in complex mosaics with open habitats that include flush and flushed wet heath vegetation of high botanical interest. These willow species are palatable to large herbivores, so their occurrence here in such good quantity is an indication that grazing/browsing levels have for some time been not too high in this part of the site.
- Occurrences of some montane plant species: the sedge *Carex bigelowii* on the higher ground and the willow *Salix herbacea* at a surprisingly low altitude in heath that is taller and thicker than the type of vegetation in which this species typically grows. These species were found in some of the less heavily grazed parts of the site, but they are still likely to benefit from the grazing that occurs there. Without grazing they are more vulnerable to being outcompeted by taller and thicker growths of common species such as *Calluna*.
- Populations of the uncommon moss *Sphagnum fuscum* in heathy bog (M19). Several hummocks of this species were found in each of two locations.

- The uncommon mosses *Antitrichia curtipendula* and *Pterigynandrum filiforme* on the upper parts of rocks scattered among heaths, mainly on Carn Dubh.
- The uncommon clubmoss *Lycopodium annotinum* – found in heath in two places.
- A few populations of *Viola lutea* in short, heavily grazed acid grassland (U4a) in a few places in the central to south-western part of the site, and locally common rockrose *Helianthemum nummularium* in short, heavily grazed calcareous grassland (CG10) in the south-west.

In general the higher ground in the east (from Carn na h-Elrig north-east to Dalnacarn Craig and Blath Bhalg) and, more locally, in the north-west (on the higher part of Carn Dubh), appear from this survey to be the most lightly grazed parts of the site (see Map 10). Their vegetation is mainly dry heath with a tall, thick growth of heather. The areas showing signs of heaviest grazing are the wide basin in the central-SW of the site and with the adjacent SE-facing slopes to the SE of Carn Dubh (again, shown in Map 10). These areas have most of the short and relatively dry grassland habitat at Knockbarrie, with the grasslands interspersed with wetlands and heaths.

Continued deer control can be expected to increase the possibility of natural regeneration of trees (e.g. rowan and downy birch) and shrubs (especially eared and grey willows), and also increased cover and height of the less common creeping willow *Salix repens*. Removal or near-removal of grazing could lead to vegetation becoming sufficiently taller and thicker throughout the site as to lead to a reduction in botanical diversity, so continuation of at least a light or light to moderate level of grazing appears likely to be good for maintaining the botanical interest. It is likely that different parts of the site will always vary in the intensity of grazing, as animals will often favour certain areas for their more nutritious vegetation (e.g. base-enriched areas and drier grasslands) or for other reasons such as shelter (e.g. in hollows and among/around patches of willows) during times of bad weather.



Wet heath (M15a), eared willows *Salix aurita* and a downy birch *Betula pubescens* in the NE part of Knockbarrie in early October 2024.

Table 8. Dry heath Common Standards Monitoring form + brief notes in 'Notes' column

Mandatory Attributes	Targets	Notes
Feature extent.	(1) There should be no measurable decline in the area of the feature. Qualifiers: Exclude recently burned ground.	Probably Y
Vegetation composition — frequency of bryophytes and lichens. <i>Assessed by visual estimate at 1m² scale.</i>	1) At least 1 species of moss or liverwort or non-crustose lichen should be present. Qualifiers: Exclude <i>Polytrichum</i> spp. and <i>Campylopus</i> spp. The cover assessment should exclude recently burnt areas.	Y
Vegetation composition — cover and frequency of dwarf-shrubs. <i>Targets (1-5) assessed against visual estimate at 4m² scale. For targets (1) and (2) exclude dead heather, bare rock, recently burnt areas and pioneer phase heath from the assessment of the live dwarf-shrub canopy cover.</i>	<u>Cover:</u> (1) For herb-rich heaths (H7, H10d, H16a), 50-75 % of vegetation cover should be made up of indicator species from Table 1 below.	H10d rare here, and much of it grassy (v. grazed) with <50% indicator spp. cover.
	(2) For all other types of heath, at least 50% of vegetation cover should be made up of indicator species from Table 1.	Mostly Y but locally N where more grassy and heavily grazed
	(3) At least 25% of dwarf-shrub cover should be made up of Group (i) indicators from Table 1.	Y
	(4) Less than 50% of dwarf shrub cover should be made up of Group (ii) indicators from Table 1.	Y
	<u>Frequency:</u> (5) For all types of heath at least two indicator species should be present from Group (i) in Table 1. This is not applicable to heath in sensitive areas which may go through prolonged phases of <i>Calluna</i> dominance.	Y
Vegetation composition — cover of other species. <i>Targets (1-3) assessed against visual estimate for as much of the feature as is visible while standing at a sample location. Targets (4 and 5) Assess at two scales: (a) 4m² scale; & b) for as much of the feature as is visible while standing at a sample location</i>	(1) Less than 1% of vegetation cover should be made up of non-native species.	Y
	(2) Less than 10% of the vegetation cover should be made up of bracken.	Y
	(3) Less than 20% of the vegetation cover should be made up of scattered native trees and scrub. Exclude <i>Betula nana</i> and <i>Myrica gale</i> .	Y
	(4) Less than 1% of the vegetation cover should consist of invasive 'weedy' species (collectively <i>Cirsium arvense</i> , <i>Cirsium vulgare</i> , large docks (excluding <i>Rumex acetosa</i>), <i>Ranunculus repens</i> or <i>Urtica dioica</i>).	Y
	(5) Less than 10% of the vegetation cover should consist of <i>Juncus effusus</i> .	Y
Vegetation structure — disturbance <i>Visual estimate for as much of feature as is visible while standing at a sample location</i>	(1) There should be no signs of burning inside the boundaries of the sensitive areas defined in Table 2 below.	Y
	(2) On the remainder of the feature, outside areas identified in (1), all growth phases of heather should occur throughout the area. At least 10% of the heather should be in the late mature growth phase.	Pioneer phase generally lacking.
Vegetation structure — indicators of heavy browsing. <i>Against visual estimate at 4m²</i>	(1) Less than 33% of the last complete growing season's shoots of dwarf-shrub species (collectively but excluding <i>Betula nana</i> and <i>Myrica gale</i>) should show signs of browsing.	Y in some places, esp. at higher altitude; otherwise, commonly found to be N
	(2) In pioneer stage regrowth, or where there is <i>Betula nana</i> or <i>Myrica gale</i> (at any stage of regrowth), less than 66% of the last complete growing season's shoots of the dwarf-shrubs (collectively) should show signs of browsing. For target (2) exclude "pioneer" areas created by temporary heavy browsing and trampling in the same year as when the monitoring is being undertaken.	General lack of pioneer stage regrowth.
Physical structure — indicators of ground disturbance due to herbivore and human activity.	(1) Less than 10% of the ground cover should be made up of disturbed bare ground. Qualifiers: For target (1) exclude recently burnt ground. <i>For diffuse / scattered disturbance of the ground, not on clearly defined drains, paths or tracks, by visual estimate at 4m² scale. for distinct and clearly defined drains, paths and tracks (exclude constructed tracks) by visual estimate for as much of the feature as is visible while standing at a sample location.</i>	Y

Indicator Species. Group 1: *Arctostaphylos* spp., *Betula nana*, *Calluna vulgaris*, *Erica* spp., *Empetrum nigrum*, *Racomitrium lanuginosum*, *Vaccinium* spp. **Group 2:** *Genista anglica*, *Myrica gale*, *Salix repens*, *Ulex gallii*.

Areas very sensitive to disturbance: (a) Vegetation severely wind-clipped, mostly forming a mat less than 10 cm thick; (b) Areas where soils are thin and less than 5 cm deep; (c) Hill slopes greater than 1 in 2 (26°), and all the sides of gullies; (d) Ground with abundant, and/or an almost continuous carpet of *Sphagnum*, liverworts and/or lichens; (e) Areas of H21 and H22; (f) Areas with noticeably uneven structure, at a spatial scale of around 1 m² or less. The unevenness (e.g., more commonly found in very old heather stands) will relate to distinct, often large, spreading dwarf-shrub bushes. The dwarf-shrub canopy will not be completely continuous, and some of its upper surface may be twice as high as other parts. Layering is likely to be present and may be common. (g) Pools, wet hollows, hags and erosion gullies, and within 5 – 10 metres of the edge of watercourses.

* Disturbed bare ground is where a substrate of bare humus, bare peat, bare mineral soil, bare gravel, or soil covered only by an algal mat, has its surface broken and imprinted by hoof marks, wallows, human footprints, or vehicle and machinery tracks. The emphasis is on 'disturbed' rather than 'bare'.

Table 9. Wet heath Common Standards Monitoring form + brief notes in 'Notes' column

Mandatory Attributes	Targets	Notes
Feature extent.	(1) There should be no measurable decline, in the area of the feature.	Probably Y
Vegetation composition — frequency of indicator species.	(1) <i>Erica tetralix</i> should be present within a 20m radius of the centre of the quadrat.	Y
Vegetation composition — cover. <i>Targets (1 and 7) assessed against visual estimate at 4m² scale.</i> <i>Targets (2-4) assessed against visual estimate for as much of the feature as is visible while standing at a sample location.</i> <i>Targets (5 and 6) assessed at both scales.</i>	(1) At least 50% of vegetation cover should consist of species from Table 1 and at least 20% of the vegetation cover should consist of ericoid species (For the purposes of this recording <i>Empetrum</i> should be regarded as 'ericoid'.)	Generally Y; rarely <20% ericoids
	(2) Less than 20% of vegetation cover should be made up of scattered native trees and scrub (excludes <i>Betula nana</i> and <i>Myrica gale</i>).	Y
	(3) Less than 10% of vegetation cover should be made up of bracken.	Y
	(4) Less than 1% of vegetation cover should be made up of non-native species.	Y
	(5) Less than 1% of vegetation cover should consist of, collectively, <i>Agrostis capillaris</i> , <i>Holcus lanatus</i> , <i>Phragmites australis</i> , <i>Ranunculus repens</i> .	Y
	(6) Less than 10% of the vegetation cover should consist of <i>Juncus effusus</i> .	Y
	(7) None of the following should make up more than 75% of vegetation cover: (a) dwarf-shrubs; or (b) graminoids.	Mostly Y; v. rarely >75% DS.
Vegetation structure — indicators of browsing. <i>Assessed against estimate at 4m² scale.</i>	(1) Less than 33% of the last complete growing season's shoots of dwarf-shrub species (collectively but excluding <i>Betula nana</i> and <i>Myrica gale</i>) should show signs of browsing.	Mostly Y/N (<i>Calluna/Vacc. myrt./Salix rep.</i> more browsed than <i>Empetrum</i> , <i>Erica tet.</i> & <i>Vacc. vit.</i>)
	(2) In pioneer stage regrowth, or where there is <i>Betula nana</i> or <i>Myrica gale</i> (at any stage of regrowth), less than 66% of the last complete growing season's shoots of the dwarf-shrubs (collectively) should show signs of browsing (For target (2) exclude "pioneer" areas created by temporary heavy browsing and trampling in the same year as when the monitoring is being undertaken)	General lack of pioneer stage regrowth.
Vegetation structure — disturbance. <i>Assessed against visual estimate for as much of the feature as is visible while standing at a sample location.</i>	(1) There should be no observable signs of burning into the moss, liverwort or lichen layer or exposure of peat surface due to burning.	Y
	(2) There should be no signs of burning and other disturbance inside the boundaries of the sensitive areas defined in Table 2.	Y
Physical structure — indicators of increased active drainage and drying-out, and peat erosion. <i>Assessed against visual estimate for as much of the feature as is visible while standing at a sample location.</i>	(1) Less than 10% of the total feature area, should show signs of active drainage, resulting from ditches or heavy trampling or tracking.	Y
	(2) The extent of eroding peat and/or mineral soil should be less than the extent of re-deposited peat and/or mineral soil and new growth of wet heath and/or bog vegetation within the feature.	Y
Physical structure — indicators of ground disturbance due to herbivore and human activity. <i>Assessed against estimate at 4m² scale.</i>	(1) Less than 10% of the <i>Sphagnum</i> cover should be crushed, broken, and/or pulled-up.	Y
	(2) Less than 10% of the ground should be disturbed bare ground *.	Y

Indicator Species: *Andromeda polifolia*, *Arctostaphylos* spp., *Betula nana*, *Calluna vulgaris*, *Carex* spp., *Drosera* spp., *Erica* spp., *Empetrum nigrum*, *Eriophorum angustifolium*, *Myrica gale*, *Narthecium ossifragum*, Non-crustose lichens, Pleurocarpous mosses, *Racomitrium lanuginosum*, *Rubus chamaemorus*, *Rhynchospora alba*, *Salix repens*, *Sphagnum* spp., *Trichophorum germanicum*, *Vaccinium* spp.

Areas very sensitive to disturbance: (a) Vegetation severely wind-clipped, mostly forming a mat less than 10 cm thick; (b) Areas where soils are thin and less than 5 cm deep; (c) Slopes greater than 1 in 3 (18°), and all the sides of gullies; (d) Ground with abundant, and/or an almost continuous carpet of *Sphagnum*, liverworts and/or lichens; (e) Areas with noticeably uneven structure, at a spatial scale of around 1 m² or less. The unevenness (e.g. more commonly found in very old heather stands) will relate to distinct, often large, spreading dwarf-shrub bushes. The dwarf-shrub canopy will not be completely continuous, and some of its upper surface may be twice as high as other parts. Layering is likely to be present and may be common. (f) Pools, wet hollows, hags and erosion gullies, and within 5 – 10 metres of the edge of watercourses.

* Disturbed bare ground is where a substrate of bare humus, bare peat, bare mineral soil, bare gravel, or soil covered only by an algal mat, has its surface broken and imprinted by hoof marks, wallows, human footprints, or vehicle and machinery tracks. The emphasis is on 'disturbed' rather than 'bare'.

Table 10. Blanket bog Common Standards Monitoring form + brief notes in 'Notes' column

Mandatory Attributes	Targets	Notes
Feature extent	1) There should be no measurable decline in the area of the feature	Probably Y
Vegetation composition — frequency of indicator species. <i>Assessed against visual estimate at 4m² scale</i>	1) At least 6 indicator species should be present (see Table 1). In blanket bog, <i>S. fallax</i> scores 1 if other species of <i>Sphagna</i> are present, but scores 0 if only <i>Sph</i> species present. Score each <i>Sphagnum</i> sp. separately. In valley bog it scores as one.	Generally Y but at location 17 perhaps marginal.
Vegetation composition — cover of indicator species. <i>Assessed against visual estimate at 4m² scale</i>	(1) At least 50% of vegetation cover should consist of at least 3 indicator species (from Table 1 below).	Y
	(2) <i>Sphagnum</i> cover should not consist only of <i>S. fallax</i>	Y, but borderline at location 5.
	(3) Any one of <i>Eriophorum vaginatum</i> , Ericaceous species collectively, or <i>Trichophorum</i> should not individually exceed 75% of the vegetation	Y
Vegetation composition — cover of other species. <i>Targets (1) & (2) assessed against visual estimate for as much of the feature as is visible while standing at a sample location.</i>	(1) Less than 1% of vegetation cover should be made up of non-native species.	Y
	(2) Less than 10% of vegetation cover should be made up of <u>scattered</u> native trees and scrub. Assessed against visual estimate for as much of the feature as is visible while standing at a sample location. For target (2) exclude <i>Betula nana</i> & <i>Myrica gale</i>	Y
	(3) Less than 1% of vegetation cover should consist of, collectively, <i>Agrostis capillaris</i> , <i>Holcus lanatus</i> , <i>Phragmites australis</i> , <i>Pteridium aquilinum</i> , <i>Ranunculus repens</i> . Assessed at two scales and should be met at both scales: 1) against visual estimate at 4m ² scale & 2) against visual estimate for as much of the feature as is visible while standing at a sample location.	Y
Vegetation structure — indicators of browsing. <i>Assessed against visual estimate at 4m² scale</i>	(1) Less than 33% of the last complete growing season's shoots of dwarf-shrub species (collectively but excluding <i>Betula nana</i> and <i>Myrica gale</i>) should show signs of browsing.	Mostly N
	(2) In pioneer stage regrowth, or where there is <i>Betula nana</i> or <i>Myrica gale</i> (at any stage of regrowth), less than 66% of the last complete growing season's shoots of the dwarf-shrubs, (collectively) should show signs of browsing.	General lack of pioneer stage regrowth.
Vegetation structure — disturbance <i>Targets (1) & (2) assessed against visual estimate for as much of the as is visible while standing at a sample location</i>	(1) There should be no observable signs of burning into the moss, liverwort or lichen layer or exposure of peat surface due to burning.	Y
	(2) There should be no signs of burning or other disturbance (e.g. mowing) in the sensitive areas defined in Table 2. If a feature is viewed at a distance, and there is uncertainty about whether or not a burn has actually entered the feature, then use a rough guide of 25m (i.e. if the burn is further than 25 m inside the feature, it is considered damaging).	Y
Physical structure — peat erosion.	(1) The extent of eroding peat should be less than the extent of stable re-deposited peat and new growth of bog vegetation within the feature. Visual estimates of as much of the feature as is visible while standing at sample locations.	Y
Physical structure — indicators of active drainage and/or ground disturbance due to herbivore and human activity.	(1) Less than 10% of the total feature area, should be disturbed bare ground* and/or show signs of active drainage, resulting from ditches or heavy trampling or tracking. <i>For diffuse / scattered disturbance of the ground, not on clearly defined drains, paths or tracks, by visual estimate at 4m² scale. for distinct and clearly defined drains, paths and tracks (exclude constructed tracks) by visual estimate for as much of the feature as is visible while standing at a sample location</i>	Y
	(2) Less than 10% of the <i>Sphagnum</i> cover should be crushed, broken, and/or pulled-up. Assessed against visual estimate at 4m ² scale	Y

Indicator Species: *Andromeda polifolia*, *Arctostaphylos* spp., *Betula nana*, *Carex bigelowii*, *Calluna vulgaris*, *Cornus suecica*, *Drosera* spp., *Erica* spp., *Empetrum nigrum*, *Eriophorum angustifolium*, *Eriophorum vaginatum*, *Menyanthes trifoliata*, *Myrica gale*, *Narthecium ossifragum*, Non-crustose lichens, *Pleurocarpus* mosses, *Racomitrium lanuginosum*, *Rubus chamaemorus*, *Rhynchospora alba*, *Sphagnum* spp., *Trichophorum germanicum*, *Vaccinium* spp.

Areas very sensitive to disturbance: (a) Slopes greater than 1 in 3 (18°), and all the sides of gullies; (b) Ground with abundant and/or an almost continuous carpet of *Sphagnum*, other mosses, liverworts and/or lichens; (c) Areas with noticeably uneven structure, at a spatial scale of around 1 m² or less. The unevenness should be the result of *Sphagnum* hummocks, lawns and hollows, or mixtures of well-developed cotton-grass tussocks and spreading bushes of dwarf-shrubs. The surface of the vegetation canopy, including moss dominated areas will not be uniform and some parts should be at least 20 cm higher than other parts; (d) Pools, wet hollows, hags and erosion gullies, and within 5 – 10 metres of the edge of watercourses.

* Disturbed bare ground is where a substrate of bare humus, bare peat, bare mineral soil, bare gravel, or soil covered only by an algal mat, has its surface broken and imprinted by hoof marks, wallows, human footprints, or vehicle and machinery tracks. The emphasis is on 'disturbed' rather than 'bare'.

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5 REFERENCES

Geology of Britain online viewer: <http://mapapps.bgs.ac.uk/geologyofbritain3d/>

Rodwell, J.S. (Ed.) (1991 *et seq.*). *British Plant Communities*. 5 volumes: Vol. 1 (1991) - *Woodlands and Scrub*; Vol. 2 (1991) - *Mires and Heaths*; Vol. 3 (1992) - *Grasslands and montane communities*; Vol. 4 (1995) - *Aquatic communities, swamps and tall-herb fens*; Vol. 5 (2000) - *Maritime Cliffs, Sand Dunes, Saltmarshes and Other Vegetation*. Cambridge University Press, Cambridge.

Online source for vascular plant nomenclature: <https://plantatlas2020.org/atlas>

Online source for bryophyte nomenclature:
<https://www.britishbryologicalsociety.org.uk/learning/species-finder/>

Online source for Scottish Biodiversity List: <https://www.nature.scot/scotlands-biodiversity/scottish-biodiversity-strategy/scottish-biodiversity-list>

Online source for Annex 1 habitats: <https://sac.jncc.gov.uk/habitat/>

Online source for designated SSSI features at this site:
<https://www.nature.scot/sites/default/files/site-special-scientific-interest/1709/sssi-citation.pdf>

APPENDIX 1 – DATA TABLES

APPENDIX 1A – Quadrat data

APPENDIX 1B – Summarised data from quadrats at each of locations 1-28

APPENDIX 1C – Summarised data for condition of woody plant species in quadrats at each of locations 1-28

APPENDIX 1A – QUADRAT DATA

This appendix, beginning on the next page, presents the data recorded in each of the five 1x1m quadrats at each of locations 1-28.

Quadrat no.	1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	2.4	2.5
OS grid reference of centre of sampling area	NN 98032 59731	NN 98032 59731	NN 98032 59731	NN 98032 59731	NN 98032 59731	NN 98371 59339	NN 98371 59339	NN 98371 59339	NN 98371 59339	NN 98371 59339
Habitat type	FL	FL	FL	FL	FL	BB	BB	BB	BB	BB
Veg. height (cm)	35	30	40	35	40	25	25	30	25	15
Bare ground (%)	0	0	0	0	0	1	0	0	0	1
Bare rock (%)	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	10	2	10	10	15	0	0	0	0	0
Flowering (AFOR or NF)	O	F	F	F	F	F	F	F	O	O
Dung (AFOR or None)	N	N	N	N	N	N	O	R	N	N
Vascular plants										
<i>Achillea millefolium</i>										
<i>Achillea ptarmica</i>										
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>			1		0		0			
<i>Agrostis capillaris</i>										
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>										
<i>Anemone nemorosa</i>										
<i>Anthoxanthum odoratum</i>								0		
<i>Avenella flexuosa</i>										
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>										
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)						5	1	2	10	
<i>Calluna vulgaris</i> height (cm)						25	20	25	20	
<i>Calluna vulgaris</i> flowering (AFOR)						O	N	N	R	
<i>Calluna vulgaris</i> browsing (LMH)						M-H	H	H	H	
<i>Campanula rotundifolia</i>										
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>										
<i>Carex caryophyllaea</i>										
<i>Carex demissa</i>										
<i>Carex dioica</i>								0		
<i>Carex echinata</i>	0	15								5
<i>Carex flacca</i>										
<i>Carex hostiana</i>										
<i>Carex nigra</i>	15	10				35		1		
<i>Carex panicea</i>	5	10		5		2	3	5	1	5
<i>Carex pilulifera</i>										
<i>Carex pulicaris</i>										
<i>Carex rostrata</i>	70	45	63	65	65					
<i>Cerastium fontanum</i>			1		0					
<i>Cirsium palustre</i>		2			1					
<i>Comarum palustre</i>										
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>										
<i>Drosera rotundifolia</i>						0	0			0
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)										
<i>Empetrum nigrum</i> height (cm)										
<i>Empetrum nigrum</i> flowering (AFOR)										
<i>Empetrum nigrum</i> browsing (LMH)										
<i>Epilobium palustre</i>	0	0		2	1					
<i>Equisetum palustre</i>	2		1	1	1	0	1	1		
<i>Erica cinerea</i> (% cover)										
<i>Erica cinerea</i> height (cm)										
<i>Erica cinerea</i> flowering (AFOR)										
<i>Erica cinerea</i> browsing (LMH)										
<i>Erica tetralix</i> (% cover)		20		3		20	15	15	20	5
<i>Erica tetralix</i> height (cm)		25		25		25	20	25	25	20
<i>Erica tetralix</i> flowering (AFOR)		A		F		A	F	A	F	O
<i>Erica tetralix</i> browsing (LMH)		L		L		L	L	L	L	L-M

Quadrat no.	1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	2.4	2.5
<i>Eriophorum angustifolium</i>				0		2	3		1	
<i>Eriophorum vaginatum</i>						12	30	35	30	54
<i>Euphrasia</i> sp.										
<i>Festuca ovina</i>	0		1	4	1					
<i>Festuca rubra</i>			1					5		
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>			1	1	3					
<i>Galium saxatile</i>					2					
<i>Galium uliginosum</i>	0	1		0						
<i>Holcus lanatus</i>			1	0	3					
<i>Holcus mollis</i>										
<i>Hypericum pulchrum</i>										
<i>Jacobea vulgaris</i>										
<i>Juncus acutiflorus</i>										
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>							1	0	1	2
<i>Juncus conglomeratus</i>			1							
<i>Juncus effusus</i>										
<i>Juncus squarrosus</i>									3	3
<i>Linum catharticum</i>	0		0							
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>			1		0		0			
<i>Luzula pilosa</i>										
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>										
<i>Myrica gale</i>										
<i>Nardus stricta</i>									1	1
<i>Narthecium ossifragum</i>						3	2	15	5	
<i>Neottia cordata</i>										
<i>Oxalis acetosella</i>										
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>										
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>					0					
<i>Polygala serpyllifolia</i>								0		
<i>Potentilla erecta</i>	1	1	3	2	5	0	2	2	2	0
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>										
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>										
<i>Salix aurita</i> (% cover)										
<i>Salix aurita</i> height (cm)										
<i>Salix aurita</i> flowering (AFOR)										
<i>Salix aurita</i> browsing (LMH)										
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)										
<i>Salix repens</i> height (cm)										
<i>Salix repens</i> flowering (AFOR)										
<i>Salix repens</i> browsing (LMH)										
<i>Scorzoneroide autumnalis</i>										
<i>Selaginella selaginoides</i>								0		
<i>Succisa pratensis</i>										
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>										
<i>Trientalis europaea</i>										
<i>Trifolium repens</i>										
<i>Vaccinium myrtillus</i> (% cover)										
<i>Vacc. myrtillus</i> height (cm)										
<i>Vacc. myrtillus</i> flowering (AFOR)										
<i>Vacc. myrtillus</i> browsing (LMH)										
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)										
<i>Vacc. vitis-idaea</i> height (cm)										
<i>Vacc. vitis-idaea</i> flowering (AFOR)										
<i>Vacc. vitis-idaea</i> browsing (LMH)										

Quadrat no.	1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	2.4	2.5
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>	5	1	0	0	5	0	0	0	1	
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>		20		2		5		2	2	
<i>Brachythecium rivulare</i>	3									
<i>Calliergonella cuspidata</i>	2	20								
<i>Campylium stellatum</i>	3									
<i>Climacium dendroides</i>	0									
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>										
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>	1		2	1	60					
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>							1			
<i>Kindbergia praelonga</i>										
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>	10									
<i>Plagiothecium undulatum</i>										
<i>Pleurozium schreberi</i>			5		10			2		
<i>Polytrichum commune</i>										
<i>Polytrichum strictum</i>							2			
<i>Pseudoscleropodium purum</i>	1									
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>	1								0	
<i>Rhytidiadelphus squarrosus</i>			2							
<i>Sphagnum angustifolium</i>										
<i>Sphagnum auriculatum</i>						25		5		25
<i>Sphagnum capillifolium</i>										
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>										2
<i>Sphagnum fallax</i>					1	5				
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>										
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>		30	65							
<i>Sphagnum papillosum</i>						30	70	20	35	50
<i>Sphagnum rubellum</i>	15									
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>					0		3	5	20	
<i>Sphagnum teres</i>		5		55						
<i>Sphagnum warnstorffii</i>		1		25						
<i>Splachnum ampullaceum</i>						0				
<i>Straminergon stramineum</i>						2		2		
<i>Thuidium tamariscinum</i>	3		1	1						
Liverworts										
<i>Aneura pinguis</i>										0
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>			1							
<i>Lophozia ventricosa</i>										
<i>Mylia anomala</i>										
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										0
<i>Ptilidium ciliare</i>										
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>										

Quadrat no.	3.1	3.2	3.3	3.4	3.5	4.1	4.2	4.3	4.4	4.5
OS grid reference of centre of sampling area	NN 97750 61974	NN 97750 61974	NN 97750 61974	NN 97750 61974	NN 97750 61974	NN 98955 61795	NN 98955 61795	NN 98955 61795	NN 98955 61795	NN 98955 61795
Habitat type	DH	DH	DH	DH	DH	DH	DH	DH	DH	DH
Veg. height (cm)	50	30	40	35	20	12	12	15	10	12
Bare ground (%)	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	0	0	5	0	0	0	1
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	0	0	0	0	0	0	0	0	0	0
Flowering (AFOR or NF)	A	F	F	A	F	F	F	F	O	F
Dung (AFOR or None)	N	F	O	O	N	N	N	F	O	N
Vascular plants										
<i>Achillea millefolium</i>										
<i>Achillea ptarmica</i>										
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>										
<i>Agrostis capillaris</i>							2	1	5	15
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>										
<i>Anemone nemorosa</i>										
<i>Anthoxanthum odoratum</i>						10	16	5	5	15
<i>Avenella flexuosa</i>	1	2	1	2	2	15	21	14	20	15
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>										
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)	85	45	60	75	20	20	1		3	
<i>Calluna vulgaris</i> height (cm)	42	30	40	32	35	15	10		45	
<i>Calluna vulgaris</i> flowering (AFOR)	A	F	F	A	A	O	R		O	
<i>Calluna vulgaris</i> browsing (LMH)	L-M	M	M-H	M	M-H	H	H		H	
<i>Campanula rotundifolia</i>										
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>										
<i>Carex caryophyllea</i>										
<i>Carex demissa</i>										
<i>Carex dioica</i>										
<i>Carex echinata</i>										
<i>Carex flacca</i>										
<i>Carex hostiana</i>										
<i>Carex nigra</i>										
<i>Carex panicea</i>										
<i>Carex pilulifera</i>										
<i>Carex pulicaris</i>										
<i>Carex rostrata</i>										
<i>Cerastium fontanum</i>										
<i>Cirsium palustre</i>										
<i>Comarum palustre</i>										
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>										
<i>Drosera rotundifolia</i>										
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)										
<i>Empetrum nigrum</i> height (cm)										
<i>Empetrum nigrum</i> flowering (AFOR)										
<i>Empetrum nigrum</i> browsing (LMH)										
<i>Epilobium palustre</i>										
<i>Equisetum palustre</i>										
<i>Erica cinerea</i> (% cover)						3				8
<i>Erica cinerea</i> height (cm)						15				10
<i>Erica cinerea</i> flowering (AFOR)						F				O
<i>Erica cinerea</i> browsing (LMH)						H				H
<i>Erica tetralix</i> (% cover)										
<i>Erica tetralix</i> height (cm)										
<i>Erica tetralix</i> flowering (AFOR)										
<i>Erica tetralix</i> browsing (LMH)										

Quadrat no.	3.1	3.2	3.3	3.4	3.5	4.1	4.2	4.3	4.4	4.5
<i>Eriophorum angustifolium</i>										
<i>Eriophorum vaginatum</i>										
<i>Euphrasia</i> sp.										
<i>Festuca ovina</i>						25	21	30		15
<i>Festuca rubra</i>										
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>										
<i>Galium saxatile</i>						3	20	10	20	15
<i>Galium uliginosum</i>										
<i>Holcus lanatus</i>						3				
<i>Holcus mollis</i>										
<i>Hypericum pulchrum</i>										
<i>Jacobea vulgaris</i>										
<i>Juncus acutiflorus</i>										
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>										
<i>Juncus conglomeratus</i>										
<i>Juncus effusus</i>										
<i>Juncus squarrosus</i>										
<i>Linum catharticum</i>										
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>						1	0			
<i>Luzula pilosa</i>								1		1
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>										
<i>Myrica gale</i>										
<i>Nardus stricta</i>										
<i>Narthecium ossifragum</i>										
<i>Neottia cordata</i>										
<i>Oxalis acetosella</i>										
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>										
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>										
<i>Polygala serpyllifolia</i>										
<i>Potentilla erecta</i>										
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>										
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>										
<i>Salix aurita</i> (% cover)										
<i>Salix aurita</i> height (cm)										
<i>Salix aurita</i> flowering (AFOR)										
<i>Salix aurita</i> browsing (LMH)										
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)										
<i>Salix repens</i> height (cm)										
<i>Salix repens</i> flowering (AFOR)										
<i>Salix repens</i> browsing (LMH)										
<i>Scorzoneroidea autumnalis</i>										
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>										
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>										
<i>Trientalis europaea</i>										
<i>Trifolium repens</i>										
<i>Vaccinium myrtillus</i> (% cover)	15	18	40	15	45		5	30	15	3
<i>Vacc. myrtillus</i> height (cm)	17	17	25	20	10		8	17	7	11
<i>Vacc. myrtillus</i> flowering (AFOR)	N	F	R	N	R		N	N	F	N
<i>Vacc. myrtillus</i> browsing (LMH)	M	M-H	M-H	M-H	H		H	H	H	H
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)	1	1		1	5	15	5	2	2	12
<i>Vacc. vitis-idaea</i> height (cm)	10	7		11	7	7	7	7	6	6
<i>Vacc. vitis-idaea</i> flowering (AFOR)	R	N		N	N	N	N	N	N	N
<i>Vacc. vitis-idaea</i> browsing (LMH)	L	L		L	L	L	L	L	L	L

Quadrat no.	3.1	3.2	3.3	3.4	3.5	4.1	4.2	4.3	4.4	4.5
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>										
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>										
<i>Brachythecium rivulare</i>										
<i>Calliergonella cuspidata</i>										
<i>Campylium stellatum</i>										
<i>Climacium dendroides</i>										
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>	1									
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>	14		65	45	30	15	20	75	70	20
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>				1						
<i>Kindbergia praelonga</i>										
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>										
<i>Plagiothecium undulatum</i>										
<i>Pleurozium schreberi</i>	46	95	25	45	69	15			1	1
<i>Polytrichum commune</i>										
<i>Polytrichum strictum</i>										
<i>Pseudoscleropodium purum</i>										
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>										
<i>Rhytidiadelphus squarrosus</i>			1				1			1
<i>Sphagnum angustifolium</i>										
<i>Sphagnum auriculatum</i>										
<i>Sphagnum capillifolium</i>										
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>										
<i>Sphagnum fallax</i>										
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>										
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>										
<i>Sphagnum papillosum</i>										
<i>Sphagnum rubellum</i>										
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>										
<i>Sphagnum teres</i>										
<i>Sphagnum warnstorffii</i>										
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>										
<i>Thuidium tamariscinum</i>										
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>										
<i>Lophozia ventricosa</i>										
<i>Mylia anomala</i>										
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>										
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>										

Quadrat no.	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5
OS grid reference of centre of sampling area	NN 98347 60272	NN 98347 60272	NN 98347 60272	NN 98347 60272	NN 98347 60272	NN 98502 59889	NN 98502 59889	NN 98502 59889	NN 98502 59889	NN 98502 59889
Habitat type	BB	BB	BB	BB	BB	DH	DH	DH	DH	DH
Veg. height (cm)	40	60	40	35	25	25	30	50	40	50
Bare ground (%)	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	0	0	0	0	0	0	0	0	0	0
Flowering (AFOR or NF)	A	O	O	F	F	O	R	F	O	O
Dung (AFOR or None)	N	N	N	N	N	N	R	R	N	N
Vascular plants										
<i>Achillea millefolium</i>										
<i>Achillea ptarmica</i>										
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>	3									
<i>Agrostis capillaris</i>										
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>							2		0	
<i>Anemone nemorosa</i>										
<i>Anthoxanthum odoratum</i>	2									
<i>Avenella flexuosa</i>	1	1	1	1	1	2	1	1	0	1
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>										
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)		8	7	10	3	98	96	90	100	85
<i>Calluna vulgaris</i> height (cm)		45	30	30	20	25	30	45	40	45
<i>Calluna vulgaris</i> flowering (AFOR)		R	O	R	N	O	O	F	O	O
<i>Calluna vulgaris</i> browsing (LMH)		M	M	M	M	M	M	L-M	M	M
<i>Campanula rotundifolia</i>										
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>						0				
<i>Carex caryophyllaea</i>										
<i>Carex demissa</i>										
<i>Carex dioica</i>										
<i>Carex echinata</i>										
<i>Carex flacca</i>										
<i>Carex hostiana</i>										
<i>Carex nigra</i>	4		3		1					
<i>Carex panicea</i>										
<i>Carex pilulifera</i>							0			
<i>Carex pulicaris</i>										
<i>Carex rostrata</i>										
<i>Cerastium fontanum</i>										
<i>Cirsium palustre</i>										
<i>Comarum palustre</i>										
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>										
<i>Drosera rotundifolia</i>										
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)										
<i>Empetrum nigrum</i> height (cm)										
<i>Empetrum nigrum</i> flowering (AFOR)										
<i>Empetrum nigrum</i> browsing (LMH)										
<i>Epilobium palustre</i>										
<i>Equisetum palustre</i>										
<i>Erica cinerea</i> (% cover)										
<i>Erica cinerea</i> height (cm)										
<i>Erica cinerea</i> flowering (AFOR)										
<i>Erica cinerea</i> browsing (LMH)										
<i>Erica tetralix</i> (% cover)	3		0	6	3				0	
<i>Erica tetralix</i> height (cm)	25		20	25	25				25	
<i>Erica tetralix</i> flowering (AFOR)	A		N	F	F				A	
<i>Erica tetralix</i> browsing (LMH)	L		L	L	L				L	

Quadrat no.	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5
<i>Eriophorum angustifolium</i>			5	1						
<i>Eriophorum vaginatum</i>	35	40	50	60	70					
<i>Euphrasia</i> sp.										
<i>Festuca ovina</i>										
<i>Festuca rubra</i>										
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>										
<i>Galium saxatile</i>			1		0					
<i>Galium uliginosum</i>										
<i>Holcus lanatus</i>										
<i>Holcus mollis</i>										
<i>Hypericum pulchrum</i>										
<i>Jacoba vulgaris</i>										
<i>Juncus acutiflorus</i>										
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>										
<i>Juncus conglomeratus</i>										
<i>Juncus effusus</i>	1									
<i>Juncus squarrosus</i>	2									
<i>Linum catharticum</i>										
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>	0									
<i>Luzula pilosa</i>						0				
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>	0									
<i>Myrica gale</i>										
<i>Nardus stricta</i>										
<i>Narthecium ossifragum</i>										
<i>Neottia cordata</i>										
<i>Oxalis acetosella</i>										
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>										
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>										
<i>Polygala serpyllifolia</i>										
<i>Potentilla erecta</i>	10							1		
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>										
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>										
<i>Salix aurita</i> (% cover)										
<i>Salix aurita</i> height (cm)										
<i>Salix aurita</i> flowering (AFOR)										
<i>Salix aurita</i> browsing (LMH)										
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)										
<i>Salix repens</i> height (cm)										
<i>Salix repens</i> flowering (AFOR)										
<i>Salix repens</i> browsing (LMH)										
<i>Scorzoneroide autumnalis</i>										
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>										
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>		10								
<i>Trientalis europaea</i>							2	2	0	0
<i>Trifolium repens</i>										
<i>Vaccinium myrtillus</i> (% cover)							1	1	1	
<i>Vacc. myrtillus</i> height (cm)							10	15	15	
<i>Vacc. myrtillus</i> flowering (AFOR)							N	N	N	
<i>Vacc. myrtillus</i> browsing (LMH)							M-H	M-H	M	
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)		15								
<i>Vacc. vitis-idaea</i> height (cm)		10								
<i>Vacc. vitis-idaea</i> flowering (AFOR)		N								
<i>Vacc. vitis-idaea</i> browsing (LMH)		L								

Quadrat no.	5.1	5.2	5.3	5.4	5.5	6.1	6.2	6.3	6.4	6.5
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>										
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>			5		0					
<i>Brachythecium rivulare</i>										
<i>Calliergonella cuspidata</i>										
<i>Campylium stellatum</i>										
<i>Climacium dendroides</i>										
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>				2						
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>			2	1	0	15	50	75	10	20
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>		5		1	1		2		2	
<i>Kindbergia praelonga</i>										
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>										
<i>Plagiothecium undulatum</i>			0					2	1	0
<i>Pleurozium schreberi</i>	25	50	8	15			10	12	45	20
<i>Polytrichum commune</i>	5	10	20	10	30					
<i>Polytrichum strictum</i>										
<i>Pseudoscleropodium purum</i>										
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>			1							1
<i>Rhytidiadelphus squarrosus</i>										
<i>Sphagnum angustifolium</i>					2					
<i>Sphagnum auriculatum</i>										
<i>Sphagnum capillifolium</i>										
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>										
<i>Sphagnum fallax</i>	30	2	10	15	8					
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>										
<i>Sphagnum medium</i>			8							
<i>Sphagnum palustre</i>										
<i>Sphagnum papillosum</i>					3					
<i>Sphagnum rubellum</i>				5	2					
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>		1								
<i>Sphagnum teres</i>										
<i>Sphagnum warnstorfii</i>										
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>										
<i>Thuidium tamariscinum</i>										
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>				0	0					
<i>Lophocolea bidentata</i>										
<i>Lophozia ventricosa</i>					0					
<i>Mylia anomala</i>										
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>										
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>										

Quadrat no.	7.1	7.2	7.3	7.4	7.5	8.1	8.2	8.3	8.4	8.5
OS grid reference of centre of sampling area	NN 98754 59957	NN 98754 59957	NN 98754 59957	NN 98754 59957	NN 98754 59957	NN 98442 61034	NN 98442 61034	NN 98442 61034	NN 98442 61034	NN 98442 61034
Habitat type	WH	WH	WH	WH	WH	GR	GR	GR	GR	GR
Veg. height (cm)	20	25	20	25	30	15	10	10	10	20
Bare ground (%)	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	0	0	0	0	0	0	0	0	0	0
Flowering (AFOR or NF)	A	F	F	F	A	A	A	A	F	F
Dung (AFOR or None)	N	N	N	N	N	N	N	N	N	N
Vascular plants										
<i>Achillea millefolium</i>							0			
<i>Achillea ptarmica</i>	0									
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>		2		0	2					
<i>Agrostis capillaris</i>						75	10	20	5	45
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>										
<i>Anemone nemorosa</i>		0								
<i>Anthoxanthum odoratum</i>	1	2		0	1	10	15	20	5	15
<i>Avenella flexuosa</i>							5	5	15	
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>										
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)		15	10						3	
<i>Calluna vulgaris</i> height (cm)		20	30						10	
<i>Calluna vulgaris</i> flowering (AFOR)		O	R						O	
<i>Calluna vulgaris</i> browsing (LMH)		M-H	H						H	
<i>Campanula rotundifolia</i>							0			
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>			0	1						
<i>Carex caryophyllaea</i>							0		6	
<i>Carex demissa</i>										
<i>Carex dioica</i>										
<i>Carex echinata</i>	2	2		2	2					
<i>Carex flacca</i>										
<i>Carex hostiana</i>										
<i>Carex nigra</i>	5	10	1	5	1					
<i>Carex panicea</i>	0				0					
<i>Carex pilulifera</i>										
<i>Carex pulicaris</i>										
<i>Carex rostrata</i>										
<i>Cerastium fontanum</i>										
<i>Cirsium palustre</i>			0							
<i>Comarum palustre</i>										
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>										
<i>Drosera rotundifolia</i>										
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)										
<i>Empetrum nigrum</i> height (cm)										
<i>Empetrum nigrum</i> flowering (AFOR)										
<i>Empetrum nigrum</i> browsing (LMH)										
<i>Epilobium palustre</i>					0					
<i>Equisetum palustre</i>		0								
<i>Erica cinerea</i> (% cover)										
<i>Erica cinerea</i> height (cm)										
<i>Erica cinerea</i> flowering (AFOR)										
<i>Erica cinerea</i> browsing (LMH)										
<i>Erica tetralix</i> (% cover)	35	15	20	25	8					
<i>Erica tetralix</i> height (cm)	20	22	22	27	25					
<i>Erica tetralix</i> flowering (AFOR)	A	F	A	A	A					
<i>Erica tetralix</i> browsing (LMH)	L	L	L	L	L					

Quadrat no.	7.1	7.2	7.3	7.4	7.5	8.1	8.2	8.3	8.4	8.5
<i>Eriophorum angustifolium</i>		1	1	1						
<i>Eriophorum vaginatum</i>										
<i>Euphrasia</i> sp.								0		
<i>Festuca ovina</i>	2	2			8	5	40	35	50	30
<i>Festuca rubra</i>							5			5
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>										
<i>Galium saxatile</i>	1		0	2		2	2	8	20	4
<i>Galium uliginosum</i>										
<i>Holcus lanatus</i>										
<i>Holcus mollis</i>										
<i>Hypericum pulchrum</i>								1		
<i>Jacobea vulgaris</i>										
<i>Juncus acutiflorus</i>										
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>										
<i>Juncus conglomeratus</i>	2	1	4	5	3					
<i>Juncus effusus</i>										
<i>Juncus squarrosus</i>						0				
<i>Linum catharticum</i>										
<i>Luzula campestris</i>						0	1	1	1	
<i>Luzula multiflora</i>		0								
<i>Luzula pilosa</i>		1								
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>										
<i>Myrica gale</i>										
<i>Nardus stricta</i>	35	30	30	10	65		10			
<i>Narthecium ossifragum</i>										
<i>Neottia cordata</i>										
<i>Oxalis acetosella</i>										
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>										
<i>Pilosella officinarum</i>						2	10			
<i>Poa pratensis</i>						1				5
<i>Polygala serpyllifolia</i>	0	0	0		0					
<i>Potentilla erecta</i>	3	2	1	3	3	2	2	5		
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>										
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>										
<i>Salix aurita</i> (% cover)										
<i>Salix aurita</i> height (cm)										
<i>Salix aurita</i> flowering (AFOR)										
<i>Salix aurita</i> browsing (LMH)										
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)										
<i>Salix repens</i> height (cm)										
<i>Salix repens</i> flowering (AFOR)										
<i>Salix repens</i> browsing (LMH)										
<i>Scorzoneroidea autumnalis</i>										
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>										
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>										
<i>Trientalis europaea</i>	3	2			3					
<i>Trifolium repens</i>						0				
<i>Vaccinium myrtillus</i> (% cover)							0	2		
<i>Vacc. myrtillus</i> height (cm)							5	8		
<i>Vacc. myrtillus</i> flowering (AFOR)							N	N		
<i>Vacc. myrtillus</i> browsing (LMH)							H	H		
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)										
<i>Vacc. vitis-idaea</i> height (cm)										
<i>Vacc. vitis-idaea</i> flowering (AFOR)										
<i>Vacc. vitis-idaea</i> browsing (LMH)										

Quadrat no.	7.1	7.2	7.3	7.4	7.5	8.1	8.2	8.3	8.4	8.5
<i>Veronica chamaedrys</i>						2			1	
<i>Veronica officinalis</i>								10	2	
<i>Viola palustris</i>	1		0		1					
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>			1	1						
<i>Brachythecium rivulare</i>										
<i>Calliergonella cuspidata</i>										
<i>Campylium stellatum</i>										
<i>Climacium dendroides</i>										
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>										
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>		35	10	10	2	15		10	25	
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>										
<i>Kindbergia praelonga</i>										
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>										
<i>Plagiothecium undulatum</i>					0					
<i>Pleurozium schreberi</i>	1	5	2	5	2					
<i>Polytrichum commune</i>			0	40						
<i>Polytrichum strictum</i>										
<i>Pseudoscleropodium purum</i>	1				1					
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>										
<i>Rhytidiadelphus squarrosus</i>	1					2	1		1	5
<i>Sphagnum angustifolium</i>										
<i>Sphagnum auriculatum</i>										
<i>Sphagnum capillifolium</i>	25									
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>										
<i>Sphagnum fallax</i>			10							
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>										
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>										
<i>Sphagnum papillosum</i>										
<i>Sphagnum rubellum</i>										
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>			20		8					
<i>Sphagnum teres</i>										
<i>Sphagnum warnstorfii</i>										
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>										
<i>Thuidium tamariscinum</i>										
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>										
<i>Lophozia ventricosa</i>										
<i>Mylia anomala</i>										
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>										
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>										

Quadrat no.	9.1	9.2	9.3	9.4	9.5	10.1	10.2	10.3	10.4	10.5
OS grid reference of centre of sampling area	NN 98551 60810	NN 98551 60810	NN 98551 60810	NN 98551 60810	NN 98551 60810	NN 98672 61348	NN 98672 61348	NN 98672 61348	NN 98672 61348	NN 98672 61348
Habitat type	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL
Veg. height (cm)	30	30	25	25	40	50	45	45	50	60
Bare ground (%)	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	2	0	0	0	0	0	0	0
Litter (%)	0	0	0	0	0	0	3	3	0	5
Flowering (AFOR or NF)	O	F	O	O	F	O	F	F	F	O
Dung (AFOR or None)	N	N	N	N	N	N	N	N	N	N
Vascular plants										
<i>Achillea millefolium</i>										
<i>Achillea ptarmica</i>						0				
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>					0	1			2	
<i>Agrostis capillaris</i>										
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>										
<i>Anemone nemorosa</i>										
<i>Anthoxanthum odoratum</i>						1	3	5	6	2
<i>Avenella flexuosa</i>										
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>										
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)										
<i>Calluna vulgaris</i> height (cm)										
<i>Calluna vulgaris</i> flowering (AFOR)										
<i>Calluna vulgaris</i> browsing (LMH)										
<i>Campanula rotundifolia</i>										
<i>Cardamine pratensis</i>	0									
<i>Carex binervis</i>										
<i>Carex caryophyllea</i>										
<i>Carex demissa</i>										
<i>Carex dioica</i>	2	1								
<i>Carex echinata</i>				5	10					
<i>Carex flacca</i>						1	4			2
<i>Carex hostiana</i>										
<i>Carex nigra</i>	35		10	25						
<i>Carex panicea</i>	6	5	10	30	20					
<i>Carex pilulifera</i>										
<i>Carex pulicaris</i>	1				1					
<i>Carex rostrata</i>	40	70	40	30	60					
<i>Cerastium fontanum</i>						1				
<i>Cirsium palustre</i>								1		
<i>Comarum palustre</i>	6	1	1							
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>										15
<i>Drosera rotundifolia</i>	0	0	2							
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)										
<i>Empetrum nigrum</i> height (cm)										
<i>Empetrum nigrum</i> flowering (AFOR)										
<i>Empetrum nigrum</i> browsing (LMH)										
<i>Epilobium palustre</i>					0	0	1	2	1	1
<i>Equisetum palustre</i>	0		5	1	1					
<i>Erica cinerea</i> (% cover)										
<i>Erica cinerea</i> height (cm)										
<i>Erica cinerea</i> flowering (AFOR)										
<i>Erica cinerea</i> browsing (LMH)										
<i>Erica tetralix</i> (% cover)	1	15	4	1	1					
<i>Erica tetralix</i> height (cm)	15	22	15	15	20					
<i>Erica tetralix</i> flowering (AFOR)	F	F	O	F	A					
<i>Erica tetralix</i> browsing (LMH)	L	L	L	L	L					

Quadrat no.	9.1	9.2	9.3	9.4	9.5	10.1	10.2	10.3	10.4	10.5
<i>Eriophorum angustifolium</i>	1	3								
<i>Eriophorum vaginatum</i>										
<i>Euphrasia</i> sp.										
<i>Festuca ovina</i>		5			1					
<i>Festuca rubra</i>							2			
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>		0								
<i>Galium palustre</i>										
<i>Galium saxatile</i>										
<i>Galium uliginosum</i>	2				2		1		0	
<i>Holcus lanatus</i>				0		3	3	5	3	1
<i>Holcus mollis</i>										1
<i>Hypericum pulchrum</i>										
<i>Jacobea vulgaris</i>						0				
<i>Juncus acutiflorus</i>						95	90	90	98	75
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>										
<i>Juncus conglomeratus</i>										10
<i>Juncus effusus</i>						2				
<i>Juncus squarrosus</i>										
<i>Linum catharticum</i>	0	0		0						
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>						0				
<i>Luzula pilosa</i>										
<i>Lysimachia nemorum</i>								4		
<i>Molinia caerulea</i>										
<i>Myrica gale</i>				1						
<i>Nardus stricta</i>										
<i>Narthecium ossifragum</i>										
<i>Neottia cordata</i>										
<i>Oxalis acetosella</i>										
<i>Pedicularis palustris</i>	0			0						
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>										
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>						0		1	1	0
<i>Polygala serpyllifolia</i>										
<i>Potentilla erecta</i>	0	1		1	2	1	3	2		
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>	0						6			
<i>Ranunculus flammula</i>									1	
<i>Rumex acetosa</i>						0	5	1		
<i>Salix aurita</i> (% cover)										
<i>Salix aurita</i> height (cm)										
<i>Salix aurita</i> flowering (AFOR)										
<i>Salix aurita</i> browsing (LMH)										
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)										
<i>Salix repens</i> height (cm)										
<i>Salix repens</i> flowering (AFOR)										
<i>Salix repens</i> browsing (LMH)										
<i>Scorzoneroide autumnalis</i>										
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>										
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>										
<i>Trientalis europaea</i>										
<i>Trifolium repens</i>										
<i>Vaccinium myrtillus</i> (% cover)										
<i>Vacc. myrtillus</i> height (cm)										
<i>Vacc. myrtillus</i> flowering (AFOR)										
<i>Vacc. myrtillus</i> browsing (LMH)										
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)										
<i>Vacc. vitis-idaea</i> height (cm)										
<i>Vacc. vitis-idaea</i> flowering (AFOR)										
<i>Vacc. vitis-idaea</i> browsing (LMH)										

Quadrat no.	9.1	9.2	9.3	9.4	9.5	10.1	10.2	10.3	10.4	10.5
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>		0			0		0	0		
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>										
<i>Brachythecium rivulare</i>										
<i>Calliergonella cuspidata</i>	10	1	10	20		1		1		
<i>Campylium stellatum</i>			5	10						
<i>Climacium dendroides</i>										
<i>Ctenidium molluscum</i>				5						
<i>Dicranum scoparium</i>										
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>					10					
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>										
<i>Kindbergia praelonga</i>									0	
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>								0		
<i>Plagiothecium undulatum</i>										
<i>Pleurozium schreberi</i>										
<i>Polytrichum commune</i>										
<i>Polytrichum strictum</i>										
<i>Pseudoscleropodium purum</i>					1					
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>										
<i>Rhytidiadelphus squarrosus</i>						2				
<i>Sphagnum angustifolium</i>										
<i>Sphagnum auriculatum</i>										
<i>Sphagnum capillifolium</i>										
<i>Sphagnum contortum</i>	2	0	40							
<i>Sphagnum cuspidatum</i>										
<i>Sphagnum fallax</i>										
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>										
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>										
<i>Sphagnum papillosum</i>										
<i>Sphagnum rubellum</i>										
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>										
<i>Sphagnum teres</i>										
<i>Sphagnum warnstorffii</i>	40	60			25					
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>										
<i>Thuidium tamariscinum</i>										
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>										
<i>Lophozia ventricosa</i>										
<i>Mylia anomala</i>										
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>										
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>										

Quadrat no.	11.1	11.2	11.3	11.4	11.5	12.1	12.2	12.3	12.4	12.5
OS grid reference of centre of sampling area	NN 98920 60499	NN 98920 60499	NN 98920 60499	NN 98920 60499	NN 98920 60499	NN 99166 60851	NN 99166 60851	NN 99166 60851	NN 99166 60851	NN 99166 60851
Habitat type	FL	FL	FL	FL	FL	GR	GR	GR	GR	GR
Veg. height (cm)	45	40	50	55	50	20	15	15	15	25
Bare ground (%)	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	10	2	8	10	30	0	0	0	0	0
Flowering (AFOR or NF)	O	O	F	F	O	A	A	F	A	A
Dung (AFOR or None)	N	N	N	N	N	N	N	N	N	N
Vascular plants										
<i>Achillea millefolium</i>										
<i>Achillea ptarmica</i>										
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>	5	1	2	0	0					
<i>Agrostis capillaris</i>					0			10	65	24
<i>Agrostis stolonifera</i>			3							
<i>Agrostis vinealis</i>						50	35	40		24
<i>Anemone nemorosa</i>										
<i>Anthoxanthum odoratum</i>						10	1	15	1	
<i>Avenella flexuosa</i>						10	3	5	5	6
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>										
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)										
<i>Calluna vulgaris</i> height (cm)										
<i>Calluna vulgaris</i> flowering (AFOR)										
<i>Calluna vulgaris</i> browsing (LMH)										
<i>Campanula rotundifolia</i>										
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>										
<i>Carex caryophylla</i>						0				
<i>Carex demissa</i>										
<i>Carex dioica</i>										
<i>Carex echinata</i>										
<i>Carex flacca</i>										
<i>Carex hostiana</i>										
<i>Carex nigra</i>		0								
<i>Carex panicea</i>										
<i>Carex pilulifera</i>							0			
<i>Carex pulicaris</i>										
<i>Carex rostrata</i>										
<i>Cerastium fontanum</i>		0								
<i>Cirsium palustre</i>										
<i>Comarum palustre</i>										
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>	18	8	5	50	20					
<i>Drosera rotundifolia</i>										
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>			0							
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)										
<i>Empetrum nigrum</i> height (cm)										
<i>Empetrum nigrum</i> flowering (AFOR)										
<i>Empetrum nigrum</i> browsing (LMH)										
<i>Epilobium palustre</i>			0							
<i>Equisetum palustre</i>										
<i>Erica cinerea</i> (% cover)										
<i>Erica cinerea</i> height (cm)										
<i>Erica cinerea</i> flowering (AFOR)										
<i>Erica cinerea</i> browsing (LMH)										
<i>Erica tetralix</i> (% cover)										
<i>Erica tetralix</i> height (cm)										
<i>Erica tetralix</i> flowering (AFOR)										
<i>Erica tetralix</i> browsing (LMH)										

Quadrat no.	11.1	11.2	11.3	11.4	11.5	12.1	12.2	12.3	12.4	12.5
<i>Eriophorum angustifolium</i>										
<i>Eriophorum vaginatum</i>										
<i>Euphrasia</i> sp.										
<i>Festuca ovina</i>						10		10	20	1
<i>Festuca rubra</i>						5	20	2		1
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>										
<i>Galium saxatile</i>			15	4		1	1	2	5	10
<i>Galium uliginosum</i>										
<i>Holcus lanatus</i>										
<i>Holcus mollis</i>	8	1	1					10		
<i>Hypericum pulchrum</i>										
<i>Jacoba vulgaris</i>										
<i>Juncus acutiflorus</i>	75	70	85	50	75					
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>										
<i>Juncus conglomeratus</i>										
<i>Juncus effusus</i>										
<i>Juncus squarrosus</i>										
<i>Linum catharticum</i>										
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>							0		1	0
<i>Luzula pilosa</i>										
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>										
<i>Myrica gale</i>										
<i>Nardus stricta</i>						15	25	10	3	35
<i>Narthecium ossifragum</i>										
<i>Neottia cordata</i>										
<i>Oxalis acetosella</i>			0							
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>										
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>					0	1	2	1	1	1
<i>Polygala serpyllifolia</i>										
<i>Potentilla erecta</i>		4					1			
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>										
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>									3	
<i>Salix aurita</i> (% cover)										
<i>Salix aurita</i> height (cm)										
<i>Salix aurita</i> flowering (AFOR)										
<i>Salix aurita</i> browsing (LMH)										
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)										
<i>Salix repens</i> height (cm)										
<i>Salix repens</i> flowering (AFOR)										
<i>Salix repens</i> browsing (LMH)										
<i>Scorzoneroide autumnalis</i>										
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>										
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>										
<i>Trientalis europaea</i>					2					
<i>Trifolium repens</i>										
<i>Vaccinium myrtillus</i> (% cover)										
<i>Vacc. myrtillus</i> height (cm)										
<i>Vacc. myrtillus</i> flowering (AFOR)										
<i>Vacc. myrtillus</i> browsing (LMH)										
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)										
<i>Vacc. vitis-idaea</i> height (cm)										
<i>Vacc. vitis-idaea</i> flowering (AFOR)										
<i>Vacc. vitis-idaea</i> browsing (LMH)										

Quadrat no.	11.1	11.2	11.3	11.4	11.5	12.1	12.2	12.3	12.4	12.5
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>		1			1	1				
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>										
<i>Brachythecium rivulare</i>										
<i>Calliergonella cuspidata</i>										
<i>Campylium stellatum</i>										
<i>Climacium dendroides</i>										
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>										
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>						2				
<i>Hypnum cupressiforme</i>						3	10	2	5	15
<i>Hypnum jutlandicum</i>										
<i>Kindbergia praelonga</i>										
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>										
<i>Plagiothecium undulatum</i>										
<i>Pleurozium schreberi</i>		17					5	2		
<i>Polytrichum commune</i>		17	3							
<i>Polytrichum strictum</i>										
<i>Pseudoscleropodium purum</i>										
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>										
<i>Rhytidiadelphus squarrosus</i>						3	5	2	5	15
<i>Sphagnum angustifolium</i>										
<i>Sphagnum auriculatum</i>										
<i>Sphagnum capillifolium</i>										
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>										
<i>Sphagnum fallax</i>										
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>										
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>										
<i>Sphagnum papillosum</i>										
<i>Sphagnum rubellum</i>										
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>										
<i>Sphagnum teres</i>										
<i>Sphagnum warnstorfii</i>										
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>										
<i>Thuidium tamariscinum</i>										
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>										
<i>Lophozia ventricosa</i>										
<i>Mylia anomala</i>										
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>										
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>										

Quadrat no.	13.1	13.2	13.3	13.4	13.5	14.1	14.2	14.3	14.4	14.5
OS grid reference of centre of sampling area	NN 99370 61303	NN 99370 61303	NN 99370 61303	NN 99370 61303	NN 99370 61303	NN 99376 61903	NN 99376 61903	NN 99376 61903	NN 99376 61903	NN 99376 61903
Habitat type	GR	GR	GR	GR	GR	WH	WH	WH	WH	WH
Veg. height (cm)	15	15	10	15	15	30	25	30	40	30
Bare ground (%)	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	0	0	0	0	0	0	0	0	0	0
Flowering (AFOR or NF)	A	A	A	A	A	F	F	F	A	A
Dung (AFOR or None)	N	N	N	N	N	N	N	N	N	N
Vascular plants										
<i>Achillea millefolium</i>		1			1					
<i>Achillea ptarmica</i>										
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>										0
<i>Agrostis capillaris</i>	20	80	35	26	50	0				
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>				26						
<i>Anemone nemorosa</i>							1		0	0
<i>Anthoxanthum odoratum</i>	20	5	10	6	2					
<i>Avenella flexuosa</i>					2					
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>										
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)						35	15	40	15	30
<i>Calluna vulgaris</i> height (cm)						32	27	27	30	25
<i>Calluna vulgaris</i> flowering (AFOR)						O	F	F	O	F
<i>Calluna vulgaris</i> browsing (LMH)						M	M-H	M	M	M
<i>Campanula rotundifolia</i>										
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>										
<i>Carex caryophylla</i>			0							
<i>Carex demissa</i>										
<i>Carex dioica</i>										
<i>Carex echinata</i>						0	2	15	2	0
<i>Carex flacca</i>										
<i>Carex hostiana</i>										
<i>Carex nigra</i>							3	5	3	
<i>Carex panicea</i>										
<i>Carex pilulifera</i>										
<i>Carex pulicaris</i>										
<i>Carex rostrata</i>										
<i>Cerastium fontanum</i>		1								
<i>Cirsium palustre</i>							2			
<i>Comarum palustre</i>										
<i>Danthonia decumbens</i>	2									
<i>Deschampsia cespitosa</i>							1		0	1
<i>Drosera rotundifolia</i>										
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)										
<i>Empetrum nigrum</i> height (cm)										
<i>Empetrum nigrum</i> flowering (AFOR)										
<i>Empetrum nigrum</i> browsing (LMH)										
<i>Epilobium palustre</i>						0			0	
<i>Equisetum palustre</i>										
<i>Erica cinerea</i> (% cover)										
<i>Erica cinerea</i> height (cm)										
<i>Erica cinerea</i> flowering (AFOR)										
<i>Erica cinerea</i> browsing (LMH)										
<i>Erica tetralix</i> (% cover)						30	20	30	25	30
<i>Erica tetralix</i> height (cm)						35	25	35	35	35
<i>Erica tetralix</i> flowering (AFOR)						A	A	A	A	A
<i>Erica tetralix</i> browsing (LMH)						VL	VL	VL	VL	VL

Quadrat no.	13.1	13.2	13.3	13.4	13.5	14.1	14.2	14.3	14.4	14.5
<i>Eriophorum angustifolium</i>										
<i>Eriophorum vaginatum</i>										
<i>Euphrasia</i> sp.										
<i>Festuca ovina</i>	15	10	5	10	10	0			0	
<i>Festuca rubra</i>		2								
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>										
<i>Galium saxatile</i>	15	2	35	20	10		0		1	0
<i>Galium uliginosum</i>										
<i>Holcus lanatus</i>									1	
<i>Holcus mollis</i>			5	10	2					
<i>Hypericum pulchrum</i>										
<i>Jacoba vulgaris</i>										
<i>Juncus acutiflorus</i>										
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>										
<i>Juncus conglomeratus</i>						10	3	0	5	3
<i>Juncus effusus</i>										
<i>Juncus squarrosus</i>										3
<i>Linum catharticum</i>										
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>									0	
<i>Luzula pilosa</i>										
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>										
<i>Myrica gale</i>										
<i>Nardus stricta</i>	15		1	2					5	
<i>Narthecium ossifragum</i>										
<i>Neottia cordata</i>										0
<i>Oxalis acetosella</i>										
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>										
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>	0	2		1						
<i>Polygala serpyllifolia</i>							0			
<i>Potentilla erecta</i>						1	1			3
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>										
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>				1	0					
<i>Salix aurita</i> (% cover)										
<i>Salix aurita</i> height (cm)										
<i>Salix aurita</i> flowering (AFOR)										
<i>Salix aurita</i> browsing (LMH)										
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)								0		
<i>Salix repens</i> height (cm)								7		
<i>Salix repens</i> flowering (AFOR)								NF		
<i>Salix repens</i> browsing (LMH)								L		
<i>Scorzoneroide autumnalis</i>										
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>										
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>										
<i>Trientalis europaea</i>						0		1		0
<i>Trifolium repens</i>										
<i>Vaccinium myrtillus</i> (% cover)										
<i>Vacc. myrtillus</i> height (cm)										
<i>Vacc. myrtillus</i> flowering (AFOR)										
<i>Vacc. myrtillus</i> browsing (LMH)										
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)										
<i>Vacc. vitis-idaea</i> height (cm)										
<i>Vacc. vitis-idaea</i> flowering (AFOR)										
<i>Vacc. vitis-idaea</i> browsing (LMH)										

Quadrat no.	13.1	13.2	13.3	13.4	13.5	14.1	14.2	14.3	14.4	14.5
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>							0		8	
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>								1	0	1
<i>Brachythecium rivulare</i>										
<i>Calliergonella cuspidata</i>										
<i>Campylium stellatum</i>										
<i>Climacium dendroides</i>										
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>										
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>	30		2	3	5	5	25	10	5	20
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>							1	1		1
<i>Kindbergia praelonga</i>									0	
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>										
<i>Plagiothecium undulatum</i>										
<i>Pleurozium schreberi</i>	5			1	10	10	2	1	1	3
<i>Polytrichum commune</i>						80	50	1	30	28
<i>Polytrichum strictum</i>										2
<i>Pseudoscleropodium purum</i>							1		0	
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>										1
<i>Rhytidiadelphus squarrosus</i>		3	20	1						
<i>Sphagnum angustifolium</i>										
<i>Sphagnum auriculatum</i>										
<i>Sphagnum capillifolium</i>										
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>										
<i>Sphagnum fallax</i>										
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>										
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>									35	
<i>Sphagnum papillosum</i>										
<i>Sphagnum rubellum</i>								50		28
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>								1		
<i>Sphagnum teres</i>								3	10	
<i>Sphagnum warnstorffii</i>										
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>										
<i>Thuidium tamariscinum</i>										
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>										
<i>Lophozia ventricosa</i>										
<i>Mylia anomala</i>										
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>										
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>										

Quadrat no.	15.1	15.2	15.3	15.4	15.5	16.1	16.2	16.3	16.4	16.5
OS grid reference of centre of sampling area	NN 99535 61587	NN 99535 61587	NN 99535 61587	NN 99535 61587	NN 99535 61587	NN 99924 61871	NN 99924 61871	NN 99924 61871	NN 99924 61871	NN 99924 61871
Habitat type	DH	DH	DH	DH	DH	DH	DH	DH	DH	DH
Veg. height (cm)	15	25	15	25	15	40	40	45	30	45
Bare ground (%)	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	0	2	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	0	0	0	0	0	0	0	0	0	0
Flowering (AFOR or NF)	F	F	O	F	F	F	F	F	F	A
Dung (AFOR or None)	0	O	N	R	R	N	N	N	N	N
Vascular plants										
<i>Achillea millefolium</i>										
<i>Achillea ptarmica</i>										
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>										
<i>Agrostis capillaris</i>										
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>	2	2	3	20	22	0			1	0
<i>Anemone nemorosa</i>										
<i>Anthoxanthum odoratum</i>	20	1			0					
<i>Avenella flexuosa</i>	10	2	5	10	22	4	1	2	2	1
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>										
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)	25	50	5	30	30	85	95	85	99	95
<i>Calluna vulgaris</i> height (cm)	15	25	15	25	17	37	40	45	30	40
<i>Calluna vulgaris</i> flowering (AFOR)	O	F	O	F	O	F	F	F	F	A
<i>Calluna vulgaris</i> browsing (LMH)	H	M-H	H	H	H	L	L	L	M	L-M
<i>Campanula rotundifolia</i>										
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>										
<i>Carex caryophyllea</i>										
<i>Carex demissa</i>										
<i>Carex dioica</i>										
<i>Carex echinata</i>										
<i>Carex flacca</i>										
<i>Carex hostiana</i>										
<i>Carex nigra</i>										
<i>Carex panicea</i>										
<i>Carex pilulifera</i>			0		0					
<i>Carex pulicaris</i>										
<i>Carex rostrata</i>										
<i>Cerastium fontanum</i>					0					
<i>Cirsium palustre</i>										
<i>Comarum palustre</i>										
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>	15	15	15	20						
<i>Drosera rotundifolia</i>										
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)								0		
<i>Empetrum nigrum</i> height (cm)								5		
<i>Empetrum nigrum</i> flowering (AFOR)								N		
<i>Empetrum nigrum</i> browsing (LMH)								L		
<i>Epilobium palustre</i>										
<i>Equisetum palustre</i>										
<i>Erica cinerea</i> (% cover)								0		3
<i>Erica cinerea</i> height (cm)								20		40
<i>Erica cinerea</i> flowering (AFOR)								F		A
<i>Erica cinerea</i> browsing (LMH)								L		L
<i>Erica tetralix</i> (% cover)										
<i>Erica tetralix</i> height (cm)										
<i>Erica tetralix</i> flowering (AFOR)										
<i>Erica tetralix</i> browsing (LMH)										

Quadrat no.	15.1	15.2	15.3	15.4	15.5	16.1	16.2	16.3	16.4	16.5
<i>Eriophorum angustifolium</i>										
<i>Eriophorum vaginatum</i>										
<i>Euphrasia</i> sp.										
<i>Festuca ovina</i>									0	
<i>Festuca rubra</i>										
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>										
<i>Galium saxatile</i>	10	4		2	6					
<i>Galium uliginosum</i>										
<i>Holcus lanatus</i>										
<i>Holcus mollis</i>										
<i>Hypericum pulchrum</i>										
<i>Jacobea vulgaris</i>										
<i>Juncus acutiflorus</i>										
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>										
<i>Juncus conglomeratus</i>										
<i>Juncus effusus</i>										
<i>Juncus squarrosus</i>										
<i>Linum catharticum</i>										
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>		0		0						
<i>Luzula pilosa</i>									0	
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>										
<i>Myrica gale</i>										
<i>Nardus stricta</i>										
<i>Narthecium ossifragum</i>										
<i>Neottia cordata</i>										
<i>Oxalis acetosella</i>	1		0		1					
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>										
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>										
<i>Polygala serpyllifolia</i>										
<i>Potentilla erecta</i>	1									1
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>										
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>										
<i>Salix aurita</i> (% cover)										
<i>Salix aurita</i> height (cm)										
<i>Salix aurita</i> flowering (AFOR)										
<i>Salix aurita</i> browsing (LMH)										
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)										
<i>Salix repens</i> height (cm)										
<i>Salix repens</i> flowering (AFOR)										
<i>Salix repens</i> browsing (LMH)										
<i>Scorzoneroidea autumnalis</i>										
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>										
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>										
<i>Trientalis europaea</i>	2		0	0	0				0	
<i>Trifolium repens</i>										
<i>Vaccinium myrtillus</i> (% cover)	5	3	40	5	6	3	1	1	1	1
<i>Vacc. myrtillus</i> height (cm)	7	15	10	10	12	10	12	12	10	10
<i>Vacc. myrtillus</i> flowering (AFOR)	N	N	N	N	N	N	N	N	N	N
<i>Vacc. myrtillus</i> browsing (LMH)	H	M-H	H	H	H	H	M-H	M	M	M
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)	1	0	0	2	3	0	1	2	0	1
<i>Vacc. vitis-idaea</i> height (cm)	7	10	10	10	7	10	10	10	10	10
<i>Vacc. vitis-idaea</i> flowering (AFOR)	N	N	N	N	N	N	N	N	N	N
<i>Vacc. vitis-idaea</i> browsing (LMH)	L	L	L	L	L	L	L-M	L-M	L	M

Quadrat no.	15.1	15.2	15.3	15.4	15.5	16.1	16.2	16.3	16.4	16.5
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>										
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>										
<i>Brachythecium rivulare</i>										
<i>Calliergonella cuspidata</i>										
<i>Campylium stellatum</i>										
<i>Climacium dendroides</i>										
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>			1		5					
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>	10	2	10	12	10	95	90	95	70	80
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>	1			0		0	0	0		2
<i>Kindbergia praelonga</i>										
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>										
<i>Plagiothecium undulatum</i>										
<i>Pleurozium schreberi</i>	9		20	12	2	1	5	1	1	3
<i>Polytrichum commune</i>		35	5					0		
<i>Polytrichum strictum</i>										
<i>Pseudoscleropodium purum</i>										
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>								0		
<i>Rhytidiadelphus squarrosus</i>					1	0			0	
<i>Sphagnum angustifolium</i>										
<i>Sphagnum auriculatum</i>										
<i>Sphagnum capillifolium</i>										
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>										
<i>Sphagnum fallax</i>										
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>										
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>										
<i>Sphagnum papillosum</i>										
<i>Sphagnum rubellum</i>										
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>										
<i>Sphagnum teres</i>										
<i>Sphagnum warnstorfii</i>										
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>										
<i>Thuidium tamariscinum</i>										
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>						0				0
<i>Lophozia ventricosa</i>										
<i>Mylia anomala</i>										
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>										
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>										

Quadrat no.	17.1	17.2	17.3	17.4	17.5	18.1	18.2	18.3	18.4	18.5
OS grid reference of centre of sampling area	NO 00300 61531	NO 00300 61531	NO 00300 61531	NO 00300 61531	NO 00300 61531	NO 00378 61280	NO 00378 61280	NO 00378 61280	NO 00378 61280	NO 00378 61280
Habitat type	BB	BB	BB	BB	BB	DH	DH	DH	DH	DH
Veg. height (cm)	25	30	40	30	25	30	25	30	30	30
Bare ground (%)	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	0	0	0	0	0	0	0	0	0	0
Flowering (AFOR or NF)	O-F	O	O-F	O-F	O-F	F	F	F	F-A	F-A
Dung (AFOR or None)	N	N	N	N	N	N	N	N	N	N
Vascular plants										
<i>Achillea millefolium</i>										
<i>Achillea ptarmica</i>										
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>										
<i>Agrostis capillaris</i>										
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>									0	
<i>Anemone nemorosa</i>										
<i>Anthoxanthum odoratum</i>										
<i>Avenella flexuosa</i>						1	1	0	1	1
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>										
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)	70	60	85	75	50	90	85	90	90	80
<i>Calluna vulgaris</i> height (cm)	25	35	40	30	17	30	22	27	30	30
<i>Calluna vulgaris</i> flowering (AFOR)	O-F	F	O-F	F	F	F-A	F-A	F-A	F-A	F-A
<i>Calluna vulgaris</i> browsing (LMH)	L-M	L-M	L-M	L-M	L-M	L	L-M	L	L	L-M
<i>Campanula rotundifolia</i>										
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>										
<i>Carex caryophyllea</i>										
<i>Carex demissa</i>										
<i>Carex dioica</i>										
<i>Carex echinata</i>										
<i>Carex flacca</i>										
<i>Carex hostiana</i>										
<i>Carex nigra</i>										
<i>Carex panicea</i>										
<i>Carex pilulifera</i>										
<i>Carex pulicaris</i>										
<i>Carex rostrata</i>										
<i>Cerastium fontanum</i>										
<i>Cirsium palustre</i>										
<i>Comarum palustre</i>										
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>										
<i>Drosera rotundifolia</i>										
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)			0				1			0
<i>Empetrum nigrum</i> height (cm)			5				15			10
<i>Empetrum nigrum</i> flowering (AFOR)			N				N			N
<i>Empetrum nigrum</i> browsing (LMH)			L				L			L
<i>Epilobium palustre</i>										
<i>Equisetum palustre</i>										
<i>Erica cinerea</i> (% cover)										
<i>Erica cinerea</i> height (cm)										
<i>Erica cinerea</i> flowering (AFOR)										
<i>Erica cinerea</i> browsing (LMH)										
<i>Erica tetralix</i> (% cover)										
<i>Erica tetralix</i> height (cm)										
<i>Erica tetralix</i> flowering (AFOR)										
<i>Erica tetralix</i> browsing (LMH)										

Quadrat no.	17.1	17.2	17.3	17.4	17.5	18.1	18.2	18.3	18.4	18.5
<i>Eriophorum angustifolium</i>				1						
<i>Eriophorum vaginatum</i>	30	40	30	20	40					
<i>Euphrasia</i> sp.										
<i>Festuca ovina</i>										0
<i>Festuca rubra</i>										
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>										
<i>Galium saxatile</i>										
<i>Galium uliginosum</i>										
<i>Holcus lanatus</i>										
<i>Holcus mollis</i>										
<i>Hypericum pulchrum</i>										
<i>Jacoba vulgaris</i>										
<i>Juncus acutiflorus</i>										
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>										
<i>Juncus conglomeratus</i>										
<i>Juncus effusus</i>										
<i>Juncus squarrosus</i>										
<i>Linum catharticum</i>										
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>										
<i>Luzula pilosa</i>										0
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>										
<i>Myrica gale</i>										
<i>Nardus stricta</i>										
<i>Narthecium ossifragum</i>										
<i>Neottia cordata</i>		0		0	0				0	
<i>Oxalis acetosella</i>										
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>										
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>										
<i>Polygala serpyllifolia</i>										
<i>Potentilla erecta</i>										0
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>										
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>										
<i>Salix aurita</i> (% cover)										
<i>Salix aurita</i> height (cm)										
<i>Salix aurita</i> flowering (AFOR)										
<i>Salix aurita</i> browsing (LMH)										
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)										
<i>Salix repens</i> height (cm)										
<i>Salix repens</i> flowering (AFOR)										
<i>Salix repens</i> browsing (LMH)										
<i>Scorzoneroide autumnalis</i>										
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>										
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>										
<i>Trientalis europaea</i>									0	0
<i>Trifolium repens</i>										
<i>Vaccinium myrtillus</i> (% cover)	1		1		1	0	0	2	0	0
<i>Vacc. myrtillus</i> height (cm)	5		5		4	17	12	12	15	7
<i>Vacc. myrtillus</i> flowering (AFOR)	N		N		N	N	N	N	N	N
<i>Vacc. myrtillus</i> browsing (LMH)	L		L		L	L	L-M	M	L	L
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)	0	1	0			5	2	0	2	2
<i>Vacc. vitis-idaea</i> height (cm)	6	12	7			15	12	12	12	10
<i>Vacc. vitis-idaea</i> flowering (AFOR)	N	N	N			N	N	N	N	N
<i>Vacc. vitis-idaea</i> browsing (LMH)	L	L	L			L	L	L	L	L

Quadrat no.	17.1	17.2	17.3	17.4	17.5	18.1	18.2	18.3	18.4	18.5
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>										
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>	2	1		30	10					
<i>Brachythecium rivulare</i>										
<i>Calliergonella cuspidata</i>										
<i>Campylium stellatum</i>										
<i>Climacium dendroides</i>										
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>	0		0							
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>	2	5	5	2	10	10	20	15		30
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>	4	10	25	2		25	20	2	5	2
<i>Kindbergia praelonga</i>										
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>										
<i>Plagiothecium undulatum</i>		0				0				
<i>Pleurozium schreberi</i>	4	10	10	25	10	50	68	80	94	68
<i>Polytrichum commune</i>							0			0
<i>Polytrichum strictum</i>	1	1								
<i>Pseudoscleropodium purum</i>										
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>	2	1	5	2	2					
<i>Rhytidiadelphus squarrosus</i>									0	
<i>Sphagnum angustifolium</i>										
<i>Sphagnum auriculatum</i>										
<i>Sphagnum capillifolium</i>										
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>					1					
<i>Sphagnum fallax</i>										
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>										
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>										
<i>Sphagnum papillosum</i>					0					
<i>Sphagnum rubellum</i>	60	50	45	30	60					
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>										
<i>Sphagnum teres</i>										
<i>Sphagnum warnstorffii</i>										
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>										
<i>Thuidium tamariscinum</i>										
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>	0			0						
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>										
<i>Lophozia ventricosa</i>		0		0			0			
<i>Mylia anomala</i>				0						
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>					0	10				
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>			0			0	1			

Quadrat no.	19.1	19.2	19.3	19.4	19.5	20.1	20.2	20.3	20.4	20.5
OS grid reference of centre of sampling area	NO 00531 61076	NO 00531 61076	NO 00531 61076	NO 00531 61076	NO 00531 61076	NO 01628 61223	NO 01628 61223	NO 01628 61223	NO 01628 61223	NO 01628 61223
Habitat type	BB	BB	BB	BB	BB	DH	DH	DH	DH	DH
Veg. height (cm)	25	25	20	25	15	25	20	25	20	30
Bare ground (%)	0	0	0	0	0	0	2	1	0	0
Bare rock (%)	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	0	0	0	0	0	0	0	0	0	0
Flowering (AFOR or NF)	O	F	O	O	R	A	A	F	F	F
Dung (AFOR or None)	N	N	N	N	N	N	N	N	0	N
Vascular plants										
<i>Achillea millefolium</i>										
<i>Achillea ptarmica</i>										
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>										
<i>Agrostis capillaris</i>										
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>									1	
<i>Anemone nemorosa</i>										
<i>Anthoxanthum odoratum</i>										
<i>Avenella flexuosa</i>						3	3	2	4	1
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>									5	
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)	35	30	50	65	35	90	80	70	55	73
<i>Calluna vulgaris</i> height (cm)	27	25	20	27	15	25	20	22	22	32
<i>Calluna vulgaris</i> flowering (AFOR)	O	O	O	O	R	A	A	A	F-A	F-A
<i>Calluna vulgaris</i> browsing (LMH)	L	L-M	L-M	L-M	L	L	L	L	M	L
<i>Campanula rotundifolia</i>										
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>										
<i>Carex caryophyllaea</i>										
<i>Carex demissa</i>										
<i>Carex dioica</i>										
<i>Carex echinata</i>										
<i>Carex flacca</i>										
<i>Carex hostiana</i>										
<i>Carex nigra</i>										
<i>Carex panicea</i>										
<i>Carex pilulifera</i>										
<i>Carex pulicaris</i>										
<i>Carex rostrata</i>										
<i>Cerastium fontanum</i>										
<i>Cirsium palustre</i>										
<i>Comarum palustre</i>										
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>										
<i>Drosera rotundifolia</i>	1		10							
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)	0	0	0			1			0	
<i>Empetrum nigrum</i> height (cm)	5	5	5			12			5	
<i>Empetrum nigrum</i> flowering (AFOR)	N	N	N			N			N	
<i>Empetrum nigrum</i> browsing (LMH)	L	L	L			L			L	
<i>Epilobium palustre</i>										
<i>Equisetum palustre</i>										
<i>Erica cinerea</i> (% cover)										
<i>Erica cinerea</i> height (cm)										
<i>Erica cinerea</i> flowering (AFOR)										
<i>Erica cinerea</i> browsing (LMH)										
<i>Erica tetralix</i> (% cover)	1	8	2	1	1					
<i>Erica tetralix</i> height (cm)	22	20	15	27	15					
<i>Erica tetralix</i> flowering (AFOR)	F	F	O	F	O					
<i>Erica tetralix</i> browsing (LMH)	L	L	L	L	L					

Quadrat no.	19.1	19.2	19.3	19.4	19.5	20.1	20.2	20.3	20.4	20.5
<i>Eriophorum angustifolium</i>					10					
<i>Eriophorum vaginatum</i>	50	50	25	40	10					
<i>Euphrasia</i> sp.										
<i>Festuca ovina</i>										
<i>Festuca rubra</i>										
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>										
<i>Galium saxatile</i>								0		
<i>Galium uliginosum</i>										
<i>Holcus lanatus</i>										
<i>Holcus mollis</i>										
<i>Hypericum pulchrum</i>										
<i>Jacobea vulgaris</i>										
<i>Juncus acutiflorus</i>										
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>										
<i>Juncus conglomeratus</i>										
<i>Juncus effusus</i>										
<i>Juncus squarrosus</i>										
<i>Linum catharticum</i>										
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>										
<i>Luzula pilosa</i>										
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>										
<i>Myrica gale</i>										
<i>Nardus stricta</i>										
<i>Narthecium ossifragum</i>										
<i>Neottia cordata</i>	0									
<i>Oxalis acetosella</i>										
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>										
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>										
<i>Polygala serpyllifolia</i>										
<i>Potentilla erecta</i>										
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>										
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>										
<i>Salix aurita</i> (% cover)										
<i>Salix aurita</i> height (cm)										
<i>Salix aurita</i> flowering (AFOR)										
<i>Salix aurita</i> browsing (LMH)										
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)										
<i>Salix repens</i> height (cm)										
<i>Salix repens</i> flowering (AFOR)										
<i>Salix repens</i> browsing (LMH)										
<i>Scorzoneroidea autumnalis</i>										
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>										
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>										
<i>Trientalis europaea</i>										
<i>Trifolium repens</i>										
<i>Vaccinium myrtillus</i> (% cover)		0				10	10	12	12	2
<i>Vacc. myrtillus</i> height (cm)		5				15	15	12	12	12
<i>Vacc. myrtillus</i> flowering (AFOR)		N				O	O	R	N	R
<i>Vacc. myrtillus</i> browsing (LMH)		L				M	M	M	L	L-M
<i>Vaccinium oxycoccus</i>		0								
<i>Vaccinium vitis-idaea</i> (% cover)						1	1	2	1	3
<i>Vacc. vitis-idaea</i> height (cm)						12	7	7	7	10
<i>Vacc. vitis-idaea</i> flowering (AFOR)						N	N	N	N	R
<i>Vacc. vitis-idaea</i> browsing (LMH)						L	L	L	L	L

Quadrat no.	19.1	19.2	19.3	19.4	19.5	20.1	20.2	20.3	20.4	20.5
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>										
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>										
<i>Brachythecium rivulare</i>										
<i>Calliergonella cuspidata</i>										
<i>Campylium stellatum</i>										
<i>Climacium dendroides</i>										
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>						2	0	0		0
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>				6		40	30	25	15	40
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>	14	10		10		3	1	10	35	3
<i>Kindbergia praelonga</i>										
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>										
<i>Plagiothecium undulatum</i>										
<i>Pleurozium schreberi</i>	14	10	2	20	0	40	60	60	40	50
<i>Polytrichum commune</i>										
<i>Polytrichum strictum</i>					1					
<i>Pseudoscleropodium purum</i>										
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>			1			5				
<i>Rhytidiadelphus squarrosus</i>				0		0				
<i>Sphagnum angustifolium</i>										
<i>Sphagnum auriculatum</i>										
<i>Sphagnum capillifolium</i>	32	70	1	10						
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>					20					
<i>Sphagnum fallax</i>										
<i>Sphagnum fuscum</i>	32	3	70							
<i>Sphagnum girgensohnii</i>										
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>										
<i>Sphagnum papillosum</i>				4	25					
<i>Sphagnum rubellum</i>					50					
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>										
<i>Sphagnum teres</i>										
<i>Sphagnum warnstorffii</i>										
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>										
<i>Thuidium tamariscinum</i>										
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>										
<i>Lophozia ventricosa</i>				0						
<i>Mylia anomala</i>	2	1	1	0						
<i>Odontoschisma sphagni</i>				0	1					
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>		0							0	
Lichens										
<i>Cladonia arbuscula</i>		0								
<i>Cladonia portentosa</i>	0	1	2	0			0	0		

Quadrat no.	21.1	21.2	21.3	21.4	21.5	22.1	22.2	22.3	22.4	22.5
OS grid reference of centre of sampling area	NO 01084 62296	NO 01084 62296	NO 01084 62296	NO 01084 62296	NO 01084 62296	NO 00301 62916	NO 00301 62916	NO 00301 62916	NO 00301 62916	NO 00301 62916
Habitat type	FL	FL	FL	FL	FL	WH	WH	WH	WH	WH
Veg. height (cm)	20	20	20	25	20	30	45	45	40	25
Bare ground (%)	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	0	0	0	0	0	0	0	0	0	0
Flowering (AFOR or NF)	F	F	O	O	F	A	F	F	A	A
Dung (AFOR or None)	N	N	N	N	N	N	N	N	N	N
Vascular plants										
<i>Achillea millefolium</i>						0				
<i>Achillea ptarmica</i>										
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>			2		2					
<i>Agrostis capillaris</i>						2				
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>						9		1	2	10
<i>Anemone nemorosa</i>									1	
<i>Anthoxanthum odoratum</i>			4	1	3	11			2	1
<i>Avenella flexuosa</i>										
<i>Betula pubescens</i> (% cover)							1	1		
<i>Betula pub.</i> height (cm)							30	20		
<i>Blechnum spicant</i>						0				4
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)				2		40	80	55	50	30
<i>Calluna vulgaris</i> height (cm)				20		30	45	45	40	25
<i>Calluna vulgaris</i> flowering (AFOR)				R		A	F	O-F	A	F
<i>Calluna vulgaris</i> browsing (LMH)				M		M	M	M	M	M
<i>Campanula rotundifolia</i>						0				
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>							1	0	10	5
<i>Carex caryophyllaea</i>										
<i>Carex demissa</i>										
<i>Carex dioica</i>		1		0	1					
<i>Carex echinata</i>	10	10	2	15	20					
<i>Carex flacca</i>										
<i>Carex hostiana</i>										
<i>Carex nigra</i>	40	40	54	40	33					
<i>Carex panicea</i>	5	3	4	5	10					
<i>Carex pilulifera</i>						2				
<i>Carex pulicaris</i>	1									
<i>Carex rostrata</i>										
<i>Cerastium fontanum</i>										
<i>Cirsium palustre</i>	0	0		0						
<i>Comarum palustre</i>										
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>							0			
<i>Drosera rotundifolia</i>										
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)										
<i>Empetrum nigrum</i> height (cm)										
<i>Empetrum nigrum</i> flowering (AFOR)										
<i>Empetrum nigrum</i> browsing (LMH)										
<i>Epilobium palustre</i>	1		0	0	0					
<i>Equisetum palustre</i>										
<i>Erica cinerea</i> (% cover)										
<i>Erica cinerea</i> height (cm)										
<i>Erica cinerea</i> flowering (AFOR)										
<i>Erica cinerea</i> browsing (LMH)										
<i>Erica tetralix</i> (% cover)		1		5		2	10	20	5	5
<i>Erica tetralix</i> height (cm)		15		20		30	45	45	35	25
<i>Erica tetralix</i> flowering (AFOR)		F		F		F	A	A	F	A
<i>Erica tetralix</i> browsing (LMH)		L		L		F	L	L	L	L

Quadrat no.	21.1	21.2	21.3	21.4	21.5	22.1	22.2	22.3	22.4	22.5
<i>Eriophorum angustifolium</i>	0	1		1	2					
<i>Eriophorum vaginatum</i>										
<i>Euphrasia</i> sp.										
<i>Festuca ovina</i>		20	10	5	5	11		0	1	
<i>Festuca rubra</i>					1	11				5
<i>Festuca vivipara</i>	10									
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>										
<i>Galium saxatile</i>						10		0		
<i>Galium uliginosum</i>										
<i>Holcus lanatus</i>		2								
<i>Holcus mollis</i>										
<i>Hypericum pulchrum</i>										
<i>Jacoba vulgaris</i>										
<i>Juncus acutiflorus</i>										
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>	1	1								
<i>Juncus conglomeratus</i>	2				3					1
<i>Juncus effusus</i>										
<i>Juncus squarrosus</i>	2	2		10						
<i>Linum catharticum</i>										
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>										
<i>Luzula pilosa</i>								0		
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>				15				7		
<i>Myrica gale</i>										
<i>Nardus stricta</i>	25	3	14	2	10	5		7	20	35
<i>Narthecium ossifragum</i>	0	1	1	1	1					
<i>Neottia cordata</i>										
<i>Oxalis acetosella</i>										
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>								0		
<i>Persicaria vivipara</i>	2									
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>										
<i>Polygala serpyllifolia</i>										
<i>Potentilla erecta</i>	5	8	5	8	5	6	5	2	15	5
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>										
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>										
<i>Salix aurita</i> (% cover)							10	1	1	
<i>Salix aurita</i> height (cm)							60	30	35	
<i>Salix aurita</i> flowering (AFOR)							N	N	N	
<i>Salix aurita</i> browsing (LMH)							M	M	M	
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)						6	5	1	10	8
<i>Salix repens</i> height (cm)						15	40	20	10	17
<i>Salix repens</i> flowering (AFOR)						N	N	N	N	N
<i>Salix repens</i> browsing (LMH)						M	L-M	M	M	M
<i>Scorzoneroidea autumnalis</i>	1	2	0	0	2					
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>										
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>							0			
<i>Trientalis europaea</i>	0	0	0	0	2		0	0	0	1
<i>Trifolium repens</i>										
<i>Vaccinium myrtillus</i> (% cover)										2
<i>Vacc. myrtillus</i> height (cm)										7
<i>Vacc. myrtillus</i> flowering (AFOR)										N
<i>Vacc. myrtillus</i> browsing (LMH)										M
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)										2
<i>Vacc. vitis-idaea</i> height (cm)										10
<i>Vacc. vitis-idaea</i> flowering (AFOR)										N
<i>Vacc. vitis-idaea</i> browsing (LMH)										L

Quadrat no.	21.1	21.2	21.3	21.4	21.5	22.1	22.2	22.3	22.4	22.5
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>	2	1	0	1	1	8		0	0	1
<i>Viola riviniana</i>						1			1	
Mosses										
<i>Aulacomnium palustre</i>										
<i>Brachythecium rivulare</i>					5					
<i>Calliergonella cuspidata</i>	15	10	15							
<i>Campylium stellatum</i>	0	0			1					
<i>Climacium dendroides</i>										
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>										
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>				3	1	1	2	5	10	5
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>						1	2	5		1
<i>Kindbergia praelonga</i>										
<i>Leucobryum glaucum</i>							2			
<i>Plagiomnium undulatum</i>						1				
<i>Plagiothecium undulatum</i>										
<i>Pleurozium schreberi</i>										2
<i>Polytrichum commune</i>								0		
<i>Polytrichum strictum</i>										
<i>Pseudoscleropodium purum</i>	2	2							1	2
<i>Rhizomnium punctatum</i>					1					
<i>Rhytidiadelphus loreus</i>										
<i>Rhytidiadelphus squarrosus</i>		0	0	0	1	1			0	1
<i>Sphagnum angustifolium</i>										
<i>Sphagnum auriculatum</i>										
<i>Sphagnum capillifolium</i>										
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>										
<i>Sphagnum fallax</i>										
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>										
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>				15						
<i>Sphagnum papillosum</i>										
<i>Sphagnum rubellum</i>										
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>										
<i>Sphagnum teres</i>										
<i>Sphagnum warnstorffii</i>										
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>										
<i>Thuidium tamariscinum</i>				3					10	
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>										
<i>Lophozia ventricosa</i>										
<i>Mylia anomala</i>										
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>										
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>										

Quadrat no.	23.1	23.2	23.3	23.4	23.5	24.1	24.2	24.3	24.4	24.5
OS grid reference of centre of sampling area	NO 00526 62795	NO 00526 62795	NO 00526 62795	NO 00526 62795	NO 00526 62795	NO 00673 62773	NO 00673 62773	NO 00673 62773	NO 00673 62773	NO 00673 62773
Habitat type	WH	WH	WH	WH	WH	DH	DH	DH	DH	DH
Veg. height (cm)	15	20	25	15	25	40	45	45	40	50
Bare ground (%)	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	0	0	0	0	0	0	0	0	0	0
Flowering (AFOR or NF)	F	A	A	F	F	F	F	O	F	F
Dung (AFOR or None)	N	N	N	N	N	N	N	N	N	N
Vascular plants										
<i>Achillea millefolium</i>										
<i>Achillea ptarmica</i>			1	0						
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>		1	1	10						
<i>Agrostis capillaris</i>										
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>									0	
<i>Anemone nemorosa</i>										
<i>Anthoxanthum odoratum</i>		2			1					
<i>Avenella flexuosa</i>						1	0	2	4	0
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>										
<i>Briza media</i>			0							
<i>Calluna vulgaris</i> (% cover)			5	5	12	70	90	70	60	90
<i>Calluna vulgaris</i> height (cm)			25	20	25	40	45	30	35	50
<i>Calluna vulgaris</i> flowering (AFOR)			A	F	F	F	F	F	F	F
<i>Calluna vulgaris</i> browsing (LMH)			M	M	M	L	L	L-M	L	L
<i>Campanula rotundifolia</i>										
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>						0				
<i>Carex caryophyllaea</i>										
<i>Carex demissa</i>		0								
<i>Carex dioica</i>	2	1	0	0						
<i>Carex echinata</i>	2	4	6	1	1					
<i>Carex flacca</i>										
<i>Carex hostiana</i>	20	4		30	1					
<i>Carex nigra</i>		4	1	1						
<i>Carex panicea</i>	50	15	18	22	30					
<i>Carex pilulifera</i>										
<i>Carex pulicaris</i>		1	1	2	2					
<i>Carex rostrata</i>										
<i>Cerastium fontanum</i>										
<i>Cirsium palustre</i>				0	1					
<i>Comarum palustre</i>										
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>										
<i>Drosera rotundifolia</i>										
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)									0	2
<i>Empetrum nigrum</i> height (cm)									10	15
<i>Empetrum nigrum</i> flowering (AFOR)									N	N
<i>Empetrum nigrum</i> browsing (LMH)									L	L
<i>Epilobium palustre</i>										
<i>Equisetum palustre</i>	0				0					
<i>Erica cinerea</i> (% cover)						4				
<i>Erica cinerea</i> height (cm)						32				
<i>Erica cinerea</i> flowering (AFOR)						A				
<i>Erica cinerea</i> browsing (LMH)						L				
<i>Erica tetralix</i> (% cover)	15	35	15	10	15					
<i>Erica tetralix</i> height (cm)	20	22	20	20	20					
<i>Erica tetralix</i> flowering (AFOR)	A	A	A	F	A					
<i>Erica tetralix</i> browsing (LMH)	L	L	L	L	L					

Quadrat no.	23.1	23.2	23.3	23.4	23.5	24.1	24.2	24.3	24.4	24.5
<i>Eriophorum angustifolium</i>	1	1	1		0					
<i>Eriophorum vaginatum</i>										
<i>Euphrasia</i> sp.	0		0		0					
<i>Festuca ovina</i>		0	2		3					
<i>Festuca rubra</i>				1						
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>										
<i>Galium saxatile</i>										
<i>Galium uliginosum</i>			1	4	0					
<i>Holcus lanatus</i>										
<i>Holcus mollis</i>										
<i>Hypericum pulchrum</i>										
<i>Jacobea vulgaris</i>										
<i>Juncus acutiflorus</i>										
<i>Juncus articulatus</i>	2	1	0		0					
<i>Juncus bulbosus</i>	1	0								
<i>Juncus conglomeratus</i>	0	0	5	0	0					
<i>Juncus effusus</i>										
<i>Juncus squarrosus</i>										
<i>Linum catharticum</i>	0	1			0					
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>										
<i>Luzula pilosa</i>										
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>	10	30								
<i>Myrica gale</i>										
<i>Nardus stricta</i>	1	5	10	15	15					
<i>Narthecium ossifragum</i>	2									
<i>Neottia cordata</i>						0				0
<i>Oxalis acetosella</i>										
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>										
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>										
<i>Polygala serpyllifolia</i>				0						
<i>Potentilla erecta</i>	2	5	3	1	10	1				
<i>Prunella vulgaris</i>	2	0	1		0					
<i>Ranunculus acris</i>										
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>										
<i>Salix aurita</i> (% cover)					4					
<i>Salix aurita</i> height (cm)					25					
<i>Salix aurita</i> flowering (AFOR)					N					
<i>Salix aurita</i> browsing (LMH)					M-H					
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)			2	0						
<i>Salix repens</i> height (cm)			20	10						
<i>Salix repens</i> flowering (AFOR)			N	N						
<i>Salix repens</i> browsing (LMH)			L	H						
<i>Scorzoneroidea autumnalis</i>	0		0		0					
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>	5	5		1						
<i>Taraxacum</i> agg.				1	1					
<i>Trichophorum germanicum</i>										
<i>Trientalis europaea</i>	0		1	1	1				3	
<i>Trifolium repens</i>			0							
<i>Vaccinium myrtillus</i> (% cover)						20	20	25	25	20
<i>Vacc. myrtillus</i> height (cm)						12	17	15	15	15
<i>Vacc. myrtillus</i> flowering (AFOR)						N	N	N	N	N
<i>Vacc. myrtillus</i> browsing (LMH)						M	L-M	M	M	M
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)						10	0	2	5	1
<i>Vacc. vitis-idaea</i> height (cm)						10	10	10	10	10
<i>Vacc. vitis-idaea</i> flowering (AFOR)						N	N	N	N	N
<i>Vacc. vitis-idaea</i> browsing (LMH)						L	L	L	L	L

Quadrat no.	23.1	23.2	23.3	23.4	23.5	24.1	24.2	24.3	24.4	24.5
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>			0							
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>										
<i>Brachythecium rivulare</i>										
<i>Calliergonella cuspidata</i>										
<i>Campylium stellatum</i>										
<i>Climacium dendroides</i>										
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>										
<i>Hylocomiadelphus triquetrus</i>				2	2					
<i>Hylocomium splendens</i>				5	5	70	70	90	78	70
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>							2	1		10
<i>Kindbergia praelonga</i>										
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>										
<i>Plagiothecium undulatum</i>										
<i>Pleurozium schreberi</i>						10	5	5	2	1
<i>Polytrichum commune</i>							0			
<i>Polytrichum strictum</i>										
<i>Pseudoscleropodium purum</i>			1							
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>										
<i>Rhytidiadelphus squarrosus</i>			0							
<i>Sphagnum angustifolium</i>										
<i>Sphagnum auriculatum</i>										
<i>Sphagnum capillifolium</i>										
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>										
<i>Sphagnum fallax</i>										
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>										
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>										
<i>Sphagnum papillosum</i>										
<i>Sphagnum rubellum</i>										
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>										
<i>Sphagnum teres</i>										
<i>Sphagnum warnstorffii</i>										
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>										
<i>Thuidium tamariscinum</i>				0						
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>										
<i>Lophozia ventricosa</i>										
<i>Mylia anomala</i>										
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>										
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>										

Quadrat no.	25.1	25.2	25.3	25.4	25.5	26.1	26.2	26.3	26.4	26.5
OS grid reference of centre of sampling area	NO 00739 62829	NO 00739 62829	NO 00739 62829	NO 00739 62829	NO 00739 62829	NO 01059 62928	NO 01059 62928	NO 01059 62928	NO 01059 62928	NO 01059 62928
Habitat type	WH	WH	WH	WH	WH	FL	FL	FL	FL	FL
Veg. height (cm)	30	30	20	30	20	80	80	60	70	70
Bare ground (%)	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	0	0	0	0	0	0	0	0	0	0
Flowering (AFOR or NF)	F	F	O	F	F	A	A	F	A	A
Dung (AFOR or None)	N	N	N	N	N	N	N	N	N	N
Vascular plants										
<i>Achillea millefolium</i>										
<i>Achillea ptarmica</i>										
<i>Aegopodium podagraria</i>										
<i>Agrostis canina</i>		1	1	5		10	2	20		5
<i>Agrostis capillaris</i>										
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>										
<i>Anemone nemorosa</i>										
<i>Anthoxanthum odoratum</i>		5	1	1						
<i>Avenella flexuosa</i>									5	
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>										
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)	10		1	2	10					
<i>Calluna vulgaris</i> height (cm)	27		15	25	20					
<i>Calluna vulgaris</i> flowering (AFOR)	O-F		R	F	R					
<i>Calluna vulgaris</i> browsing (LMH)	M		M	M	M-H					
<i>Campanula rotundifolia</i>										
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>										
<i>Carex caryophyllaea</i>										
<i>Carex demissa</i>										
<i>Carex dioica</i>	0			1						
<i>Carex echinata</i>	1	5	2	10	17				20	15
<i>Carex flacca</i>										
<i>Carex hostiana</i>										
<i>Carex nigra</i>	30	30	50	10	17		3	10	25	
<i>Carex panicea</i>		5	5	8	2					
<i>Carex pilulifera</i>										
<i>Carex pulicaris</i>										
<i>Carex rostrata</i>										
<i>Cerastium fontanum</i>										
<i>Cirsium palustre</i>		1								
<i>Comarum palustre</i>										
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>										
<i>Drosera rotundifolia</i>										
<i>Dryopteris carthusiana</i>									3	
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)	0									
<i>Empetrum nigrum</i> height (cm)	15									
<i>Empetrum nigrum</i> flowering (AFOR)	N									
<i>Empetrum nigrum</i> browsing (LMH)	L									
<i>Epilobium palustre</i>										2
<i>Equisetum palustre</i>	2	1	0	1	1					3
<i>Erica cinerea</i> (% cover)										
<i>Erica cinerea</i> height (cm)										
<i>Erica cinerea</i> flowering (AFOR)										
<i>Erica cinerea</i> browsing (LMH)										
<i>Erica tetralix</i> (% cover)	35	25	10	20	15					2
<i>Erica tetralix</i> height (cm)	32	30	22	20	20					30
<i>Erica tetralix</i> flowering (AFOR)	A	A	A	F	O					A
<i>Erica tetralix</i> browsing (LMH)	L	L	L	L	L					L

Quadrat no.	25.1	25.2	25.3	25.4	25.5	26.1	26.2	26.3	26.4	26.5
<i>Eriophorum angustifolium</i>	6	1	5	15						
<i>Eriophorum vaginatum</i>										
<i>Euphrasia</i> sp.										
<i>Festuca ovina</i>	2	2			0					
<i>Festuca rubra</i>										
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>										
<i>Galium saxatile</i>						15	10	15	2	15
<i>Galium uliginosum</i>		1								
<i>Holcus lanatus</i>										
<i>Holcus mollis</i>										
<i>Hypericum pulchrum</i>										
<i>Jacobea vulgaris</i>										
<i>Juncus acutiflorus</i>										
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>					0					
<i>Juncus conglomeratus</i>	1				1	15				
<i>Juncus effusus</i>						60	60	50	50	35
<i>Juncus squarrosus</i>										
<i>Linum catharticum</i>										
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>	0	0							1	
<i>Luzula pilosa</i>										
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>										
<i>Myrica gale</i>										
<i>Nardus stricta</i>		10			2					
<i>Narthecium ossifragum</i>	5			5	1					
<i>Neottia cordata</i>										
<i>Oxalis acetosella</i>										
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>										
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>										
<i>Polygala serpyllifolia</i>										
<i>Potentilla erecta</i>	0	10	8	3	4					
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>										
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>										
<i>Salix aurita</i> (% cover)				1						
<i>Salix aurita</i> height (cm)				10						
<i>Salix aurita</i> flowering (AFOR)				N						
<i>Salix aurita</i> browsing (LMH)				M						
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)			1	1						
<i>Salix repens</i> height (cm)			8	10						
<i>Salix repens</i> flowering (AFOR)			N	N						
<i>Salix repens</i> browsing (LMH)			M-H	M						
<i>Scorzoneroide autumnalis</i>										
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>										
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>										
<i>Trientalis europaea</i>	1	0	1		0	1	2	2	0	1
<i>Trifolium repens</i>										
<i>Vaccinium myrtillus</i> (% cover)										
<i>Vacc. myrtillus</i> height (cm)										
<i>Vacc. myrtillus</i> flowering (AFOR)										
<i>Vacc. myrtillus</i> browsing (LMH)										
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)										
<i>Vacc. vitis-idaea</i> height (cm)										
<i>Vacc. vitis-idaea</i> flowering (AFOR)										
<i>Vacc. vitis-idaea</i> browsing (LMH)										

Quadrat no.	25.1	25.2	25.3	25.4	25.5	26.1	26.2	26.3	26.4	26.5
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>	1	2	2							
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>			2	15	2					
<i>Brachythecium rivulare</i>										
<i>Calliergonella cuspidata</i>										
<i>Campylium stellatum</i>										
<i>Climacium dendroides</i>										
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>										
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>	20	10		15					1	0
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>	5									
<i>Kindbergia praelonga</i>										
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>										
<i>Plagiothecium undulatum</i>										
<i>Pleurozium schreberi</i>		5			1					
<i>Polytrichum commune</i>						2	80		2	90
<i>Polytrichum strictum</i>										
<i>Pseudoscleropodium purum</i>				1						
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>										
<i>Rhytidiadelphus squarrosus</i>		1								
<i>Sphagnum angustifolium</i>	5			15	70					
<i>Sphagnum auriculatum</i>		0		1						
<i>Sphagnum capillifolium</i>										
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>										
<i>Sphagnum fallax</i>					2					2
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>						1			3	
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>						90		95		
<i>Sphagnum papillosum</i>										
<i>Sphagnum rubellum</i>	5									
<i>Sphagnum russowii</i>	5		5		5	1	10	2		
<i>Sphagnum subnitens</i>		1	10							
<i>Sphagnum teres</i>				25						
<i>Sphagnum warnstorfii</i>				10						
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>			0							
<i>Thuidium tamariscinum</i>	15	5		1						
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>										
<i>Lophozia ventricosa</i>										
<i>Mylia anomala</i>										
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>										
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>										

Quadrat no.	27.1	27.2	27.3	27.4	27.5	28.1	28.2	28.3	28.4	28.5
OS grid reference of centre of sampling area	NO 01170 63004	NO 01170 63004	NO 01170 63004	NO 01170 63004	NO 01170 63004	NO 01738 63337	NO 01738 63337	NO 01738 63337	NO 01738 63337	NO 01738 63337
Habitat type	FL	FL	FL	FL	FL	WH	WH	WH	WH	WH
Veg. height (cm)	60	45	50	50	50	30	30	40	30	25
Bare ground (%)	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0
Litter (%)	10	2	2	2	2	0	0	0	0	0
Flowering (AFOR or NF)	O	O	F	F	A	F	F	A	F	O
Dung (AFOR or None)	N	N	N	N	N	N	N	N	N	N
Vascular plants										
<i>Achillea millefolium</i>										
<i>Achillea ptarmica</i>							0			
<i>Aegopodium podagraria</i>	0									
<i>Agrostis canina</i>	1	1				5	5	5		1
<i>Agrostis capillaris</i>										
<i>Agrostis stolonifera</i>										
<i>Agrostis vinealis</i>										
<i>Anemone nemorosa</i>							0			
<i>Anthoxanthum odoratum</i>	5	5	1	1	2	1	1			
<i>Avenella flexuosa</i>										
<i>Betula pubescens</i> (% cover)										
<i>Betula pub.</i> height (cm)										
<i>Blechnum spicant</i>										
<i>Briza media</i>										
<i>Calluna vulgaris</i> (% cover)						4	3	1	20	15
<i>Calluna vulgaris</i> height (cm)						22	30	30	30	27
<i>Calluna vulgaris</i> flowering (AFOR)						R	O	O	F-A	F
<i>Calluna vulgaris</i> browsing (LMH)						M-H	M	M	M	L-M
<i>Campanula rotundifolia</i>										
<i>Cardamine pratensis</i>										
<i>Carex binervis</i>										
<i>Carex caryophylla</i>										
<i>Carex demissa</i>										
<i>Carex dioica</i>							0			
<i>Carex echinata</i>						1	18	4	5	5
<i>Carex flacca</i>										
<i>Carex hostiana</i>										
<i>Carex nigra</i>					1	10	18	15	25	30
<i>Carex panicea</i>		8	5	5	1					2
<i>Carex pilulifera</i>										
<i>Carex pulicaris</i>		1			0			1		
<i>Carex rostrata</i>										
<i>Cerastium fontanum</i>										
<i>Cirsium palustre</i>	1				3		1		2	
<i>Comarum palustre</i>		0		3	2					
<i>Danthonia decumbens</i>										
<i>Deschampsia cespitosa</i>		1								
<i>Drosera rotundifolia</i>										
<i>Dryopteris carthusiana</i>										
<i>Dryopteris dilatata</i>										
<i>Eleocharis quinqueflora</i>										
<i>Empetrum nigrum</i> (% cover)										
<i>Empetrum nigrum</i> height (cm)										
<i>Empetrum nigrum</i> flowering (AFOR)										
<i>Empetrum nigrum</i> browsing (LMH)										
<i>Epilobium palustre</i>	3	2	2	2	5	0				0
<i>Equisetum palustre</i>						0	1	1		0
<i>Erica cinerea</i> (% cover)										
<i>Erica cinerea</i> height (cm)										
<i>Erica cinerea</i> flowering (AFOR)										
<i>Erica cinerea</i> browsing (LMH)										
<i>Erica tetralix</i> (% cover)						7	6	10	5	10
<i>Erica tetralix</i> height (cm)						22	30	35	25	22
<i>Erica tetralix</i> flowering (AFOR)						A	A	A	F	A

Quadrat no.	27.1	27.2	27.3	27.4	27.5	28.1	28.2	28.3	28.4	28.5
<i>Erica tetralix</i> browsing (LMH)						L	L	L	L	L
<i>Eriophorum angustifolium</i>										
<i>Eriophorum vaginatum</i>										
<i>Euphrasia</i> sp.										
<i>Festuca ovina</i>		1				5	10	5	1	2
<i>Festuca rubra</i>	5	5	2	1					1	
<i>Festuca vivipara</i>										
<i>Filipendula ulmaria</i>										
<i>Galium palustre</i>										
<i>Galium saxatile</i>										
<i>Galium uliginosum</i>	5	5	5	3	15		1	1		
<i>Holcus lanatus</i>	5	8	5	10	5					
<i>Holcus mollis</i>										
<i>Hypericum pulchrum</i>										
<i>Jacobea vulgaris</i>										
<i>Juncus acutiflorus</i>	80	50	75	65	75					
<i>Juncus articulatus</i>										
<i>Juncus bulbosus</i>										
<i>Juncus conglomeratus</i>	1			0			1			1
<i>Juncus effusus</i>										
<i>Juncus squarrosus</i>										
<i>Linum catharticum</i>										
<i>Luzula campestris</i>										
<i>Luzula multiflora</i>	0	1		0			0	1		0
<i>Luzula pilosa</i>										
<i>Lysimachia nemorum</i>										
<i>Molinia caerulea</i>						38	5	15		
<i>Myrica gale</i>										
<i>Nardus stricta</i>				3			8	8		10
<i>Narthecium ossifragum</i>						1		2		1
<i>Neottia cordata</i>										
<i>Oxalis acetosella</i>										
<i>Pedicularis palustris</i>										
<i>Pedicularis sylvatica</i>										
<i>Persicaria vivipara</i>	1						0			
<i>Pilosella officinarum</i>										
<i>Poa pratensis</i>			1							
<i>Polygala serpyllifolia</i>										
<i>Potentilla erecta</i>	3	6		5		3	2	5	2	2
<i>Prunella vulgaris</i>										
<i>Ranunculus acris</i>		3	2							
<i>Ranunculus flammula</i>										
<i>Rumex acetosa</i>										
<i>Salix aurita</i> (% cover)										
<i>Salix aurita</i> height (cm)										
<i>Salix aurita</i> flowering (AFOR)										
<i>Salix aurita</i> browsing (LMH)										
<i>Salix cinerea</i>										
<i>Salix repens</i> (% cover)						15	7	20	40	18
<i>Salix repens</i> height (cm)						25	25	27	25	25
<i>Salix repens</i> flowering (AFOR)						N	N	N	N	N
<i>Salix repens</i> browsing (LMH)						M	M	M	M	M-H
<i>Scorzoneroide autumnalis</i>										
<i>Selaginella selaginoides</i>										
<i>Succisa pratensis</i>										1
<i>Taraxacum</i> agg.										
<i>Trichophorum germanicum</i>								5		
<i>Trientalis europaea</i>	0				0	0	1	1		0
<i>Trifolium repens</i>										
<i>Vaccinium myrtillus</i> (% cover)										
<i>Vacc. myrtillus</i> height (cm)										
<i>Vacc. myrtillus</i> flowering (AFOR)										
<i>Vacc. myrtillus</i> browsing (LMH)										
<i>Vaccinium oxycoccus</i>										
<i>Vaccinium vitis-idaea</i> (% cover)										
<i>Vacc. vitis-idaea</i> height (cm)										
<i>Vacc. vitis-idaea</i> flowering (AFOR)										

Quadrat no.	27.1	27.2	27.3	27.4	27.5	28.1	28.2	28.3	28.4	28.5
<i>Vacc. vitis-idaea</i> browsing (LMH)										
<i>Veronica chamaedrys</i>										
<i>Veronica officinalis</i>										
<i>Viola palustris</i>	2	0	2	4	2	7	5	1	0	0
<i>Viola riviniana</i>										
Mosses										
<i>Aulacomnium palustre</i>						0	1			1
<i>Brachythecium rivulare</i>	3				2					
<i>Calliergonella cuspidata</i>				5	1					
<i>Campylium stellatum</i>										
<i>Climacium dendroides</i>		10	1							
<i>Ctenidium molluscum</i>										
<i>Dicranum scoparium</i>										
<i>Hylocomiadelphus triquetrus</i>										
<i>Hylocomium splendens</i>		2					10	10	1	10
<i>Hypnum cupressiforme</i>										
<i>Hypnum jutlandicum</i>										
<i>Kindbergia praelonga</i>										
<i>Leucobryum glaucum</i>										
<i>Plagiomnium undulatum</i>	3									
<i>Plagiothecium undulatum</i>										
<i>Pleurozium schreberi</i>							0		10	2
<i>Polytrichum commune</i>						0			10	
<i>Polytrichum strictum</i>										
<i>Pseudoscleropodium purum</i>					1		1	2		
<i>Rhizomnium punctatum</i>										
<i>Rhytidiadelphus loreus</i>										
<i>Rhytidiadelphus squarrosus</i>	1	5	10	15	15		2			1
<i>Sphagnum angustifolium</i>										70
<i>Sphagnum auriculatum</i>										
<i>Sphagnum capillifolium</i>										
<i>Sphagnum contortum</i>										
<i>Sphagnum cuspidatum</i>										
<i>Sphagnum fallax</i>						5				
<i>Sphagnum fuscum</i>										
<i>Sphagnum girgensohnii</i>						40			10	
<i>Sphagnum medium</i>										
<i>Sphagnum palustre</i>										
<i>Sphagnum papillosum</i>										
<i>Sphagnum rubellum</i>										
<i>Sphagnum russowii</i>										
<i>Sphagnum subnitens</i>						5		20		
<i>Sphagnum teres</i>							25			
<i>Sphagnum warnstorfii</i>							10			
<i>Splachnum ampullaceum</i>										
<i>Straminergon stramineum</i>										
<i>Thuidium tamariscinum</i>								2		
Liverworts										
<i>Aneura pinguis</i>										
<i>Calypogeia fissa</i>										
<i>Calypogeia muelleriana</i>										
<i>Lophocolea bidentata</i>										
<i>Lophozia ventricosa</i>										
<i>Mylia anomala</i>										
<i>Odontoschisma sphagni</i>										
<i>Pellia epiphylla</i>										
<i>Ptilidium ciliare</i>										
Lichens										
<i>Cladonia arbuscula</i>										
<i>Cladonia portentosa</i>										

APPENDIX 1B

SUMMARISED QUADRAT DATA

This appendix presents summaries of the data recorded in the five 1x1m quadrats at each of locations 1-28.

For each location there are two columns in this table:

- L column = mean values from the set of five quadrats. Overall AFOR/N codes for flowering, browsing and dung are also given in this column (including those for flowering and browsing of woody species).
- R column = frequency values from the set of five quadrats.

Monitoring location no.	1	1	2	2	3	3	4	4	5	5	6	6
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
OS grid reference of centre of sampling area	NN 98032 59731	NN 98032 59731	NN 98371 59339	NN 98371 59339	NN 97750 61974	NN 97750 61974	NN 98955 61795	NN 98955 61795	NN 98347 60272	NN 98347 60272	NN 98502 59889	NN 98502 59889
Habitat type	FL	FL	BB	BB	DH	DH	DH	DH	BB	BB	DH	DH
Veg. height (cm)	36		24		35		12.2		40		39	
Bare ground (%)	0		0.4		0		0		0		0	
Bare rock (%)	0		0		0		1.2		0		0	
Open water (%)	0		0		0		0		0		0	
Litter (%)	9.4		0		0		0		0		0	
Flowering (AFOR or NF)	F(O)		O-F		F-A		F(O)		F		O	
Dung (AFOR or None)	N		R		O		O		N		R	
Vascular plants												
<i>Achillea millefolium</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Achillea ptarmica</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aegopodium podagraria</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrostis canina</i>	0.2	2	0	1	0	0	0	0	0.6	1	0	0
<i>Agrostis capillaris</i>	0	0	0	0	0	0	4.6	4	0	0	0	0
<i>Agrostis stolonifera</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrostis vinealis</i>	0	0	0	0	0	0	0	0	0	0	0.4	2
<i>Anemone nemorosa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Anthoxanthum odoratum</i>	0	0	0	1	0	0	10.2	5	0.4	1	0	0
<i>Avenella flexuosa</i>	0	0	0	0	1.6	5	17	5	1	5	1	5
<i>Betula pubescens</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Betula pub.</i> height (cm)												
<i>Blechnum spicant</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Briza media</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calluna vulgaris</i> (% cov.)	0	0	3.6	4	57	5	4.8	3	5.6	4	93.8	5
<i>Calluna</i> height (cm)			22.5		35.8		23.333		31.25		37	
<i>Calluna</i> flowering (AFOR)			R		F-A		R-O		R		O(F)	
<i>Calluna</i> browsing (LMH)			H		M		H		M		M	
<i>Campanula rotundifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cardamine pratensis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex binervis</i>	0	0	0	0	0	0	0	0	0	0	0	1
<i>Carex caryophyllaea</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex demissa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex dioica</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Carex echinata</i>	3	2	1	1	0	0	0	0	0	0	0	0
<i>Carex flacca</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex hostiana</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex nigra</i>	5	2	7.2	2	0	0	0	0	1.6	3	0	0
<i>Carex panicea</i>	4	3	3.2	5	0	0	0	0	0	0	0	0
<i>Carex pilulifera</i>	0	0	0	0	0	0	0	0	0	0	0	1
<i>Carex pulicaris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex rostrata</i>	61.6	5	0	0	0	0	0	0	0	0	0	0
<i>Cerastium fontanum</i>	0.2	2	0	0	0	0	0	0	0	0	0	0
<i>Cirsium palustre</i>	0.6	2	0	0	0	0	0	0	0	0	0	0
<i>Comarum palustre</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Danthonia decumbens</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Deschampsia cespitosa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Drosera rotundifolia</i>	0	0	0	3	0	0	0	0	0	0	0	0
<i>Dryopteris carthusiana</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dryopteris dilatata</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eleocharis quinqueflora</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Empetrum nigrum</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Empetrum</i> height (cm)												
<i>Emp.</i> flowering (AFOR)												
<i>Empetrum</i> browsing (LMH)												
<i>Epilobium palustre</i>	0.6	4	0	0	0	0	0	0	0	0	0	0
<i>Equisetum palustre</i>	1	4	0.4	3	0	0	0	0	0	0	0	0
<i>Erica cinerea</i> (% cov.)	0	0	0	0	0	0	2.2	2	0	0	0	0
<i>Erica cin.</i> height (cm)							12.5					
<i>Erica cin.</i> flowering (AFOR)							O-F					
<i>Erica cin.</i> browsing (LMH)							H					
<i>Erica tetralix</i> (% cov.)	4.6	2	15	5	0	0	0	0	2.4	4	0	1
<i>Erica tet.</i> height (cm)	25	2	23	5					23.75	4	25	1
<i>Erica tet.</i> flowering (AFOR)	F-A		F-A						F		A	
<i>Erica tet.</i> browsing (LMH)	L		L						L		L	

Monitoring location no.	1	1	2	2	3	3	4	4	5	5	6	6
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
<i>Eriophorum angustifolium</i>	0	1	1.2	3	0	0	0	0	1.2	2	0	0
<i>Eriophorum vaginatum</i>	0	0	32.2	5	0	0	0	0	51	5	0	0
<i>Euphrasia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0
<i>Festuca ovina</i>	1.2	4	0	0	0	0	18.2	4	0	0	0	0
<i>Festuca rubra</i>	0.2	1	1	1	0	0	0	0	0	0	0	0
<i>Festuca vivipara</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Filipendula ulmaria</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galium palustre</i>	1	3	0	0	0	0	0	0	0	0	0	0
<i>Galium saxatile</i>	0.4	1	0	0	0	0	13.6	5	0.2	2	0	0
<i>Galium uliginosum</i>	0.2	3	0	0	0	0	0	0	0	0	0	0
<i>Holcus lanatus</i>	0.8	3	0	0	0	0	0.6	1	0	0	0	0
<i>Holcus mollis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypericum pulchrum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jacobaea vulgaris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus acutiflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus articulatus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus bulbosus</i>	0	0	0.8	4	0	0	0	0	0	0	0	0
<i>Juncus conglomeratus</i>	0.2	1	0	0	0	0	0	0	0	0	0	0
<i>Juncus effusus</i>	0	0	0	0	0	0	0	0	0.2	1	0	0
<i>Juncus squarrosus</i>	0	0	1.2	2	0	0	0	0	0.4	1	0	0
<i>Linum catharticum</i>	0	2	0	0	0	0	0	0	0	0	0	0
<i>Luzula campestris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Luzula multiflora</i>	0.2	2	0	1	0	0	0.2	2	0	1	0	0
<i>Luzula pilosa</i>	0	0	0	0	0	0	0.4	2	0	0	0	1
<i>Lysimachia nemorum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Molinia caerulea</i>	0	0	0	0	0	0	0	0	0	1	0	0
<i>Myrica gale</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nardus stricta</i>	0	0	0.4	2	0	0	0	0	0	0	0	0
<i>Narthecium ossifragum</i>	0	0	5	4	0	0	0	0	0	0	0	0
<i>Neottia cordata</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oxalis acetosella</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pedicularis palustris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pedicularis sylvatica</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Persicaria vivipara</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pilosella officinarum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Poa pratensis</i>	0	1	0	0	0	0	0	0	0	0	0	0
<i>Polygala serpyllifolia</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Potentilla erecta</i>	2.4	5	1.2	5	0	0	0	0	2	1	0.2	1
<i>Prunella vulgaris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ranunculus acris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ranunculus flammula</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rumex acetosa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salix aurita</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salix aur.</i> height (cm)												
<i>Salix aur.</i> flowering (AFOR)												
<i>Salix aur.</i> browsing (LMH)												
<i>Salix cinerea</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salix repens</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salix rep.</i> height (cm)												
<i>Salix rep.</i> flowering (AFOR)												
<i>Salix rep.</i> browsing (LMH)												
<i>Scorzoneroide autumnalis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Selaginella selaginoides</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Succisa pratensis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Taraxacum</i> agg.	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trichophorum germanicum</i>	0	0	0	0	0	0	0	0	2	1	0	0
<i>Trientalis europaea</i>	0	0	0	0	0	0	0	0	0	0	0.8	4
<i>Trifolium repens</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vaccinium myrtillus</i> (% cov.)	0	0	0	0	26.6	5	10.6	4	0	0	0.6	3
<i>Vacc. myr.</i> height (cm)					17.8		10.75				13.333	
<i>V. myr.</i> flowering (AFOR)					R		R				R	
<i>V. myr.</i> browsing (LMH)					M-H		H				M-H	
<i>Vaccinium oxycoccus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vaccinium vitis-idaea</i> (% cov.)	0	0	0	0	1.6	4	7.2	5	3	1	0	0
<i>Vacc. vit.</i> height (cm)					8.75		6.5		10			
<i>V. vit.</i> flowering (AFOR)					R		N		N			
<i>V. vit.</i> browsing (LMH)					L		L		L			

Monitoring location no.	1	1	2	2	3	3	4	4	5	5	6	6
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
<i>Veronica chamaedrys</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Veronica officinalis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Viola palustris</i>	2.2	5	0.2	4	0	0	0	0	0	0	0	0
<i>Viola riviniana</i>	0	0	0	0	0	0	0	0	0	0	0	0
Mosses		0		0		0		0		0		0
<i>Aulacomnium palustre</i>	4.4	2	1.8	3	0	0	0	0	1	2	0	0
<i>Brachythecium rivulare</i>	0.6	1	0	0	0	0	0	0	0	0	0	0
<i>Calliergonella cuspidata</i>	4.4	2	0	0	0	0	0	0	0	0	0	0
<i>Campylium stellatum</i>	0.6	1	0	0	0	0	0	0	0	0	0	0
<i>Climacium dendroides</i>	0	1	0	0	0	0	0	0	0	0	0	0
<i>Ctenidium molluscum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dicranum scoparium</i>	0	0	0	0	0.2	1	0	0	0.4	1	0	0
<i>Hylocomiadelphus triquetrus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hylocomium splendens</i>	12.8	4	0	0	30.8	4	40	5	0.6	3	34	5
<i>Hypnum cupressiforme</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypnum jutlandicum</i>	0	0	0.2	1	0.2	1	0	0	1.4	3	0.8	2
<i>Kindbergia praelonga</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leucobryum glaucum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plagiomnium undulatum</i>	2	1	0	0	0	0	0	0	0	0	0	0
<i>Plagiothecium undulatum</i>	0	0	0	0	0	0	0	0	0	1	0.6	3
<i>Pleurozium schreberi</i>	3	2	0.4	1	56	5	3.4	3	19.6	4	17.4	4
<i>Polytrichum commune</i>	0	0	0	0	0	0	0	0	15	5	0	0
<i>Polytrichum strictum</i>	0	0	0.4	1	0	0	0	0	0	0	0	0
<i>Pseudoscleropodium purum</i>	0.2	1	0	0	0	0	0	0	0	0	0	0
<i>Rhizomnium punctatum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhytidiadelphus loreus</i>	0.2	1	0	1	0	0	0	0	0.2	1	0.2	1
<i>Rhytidiadelphus squarrosus</i>	0.4	1	0	0	0.2	1	0.4	2	0	0	0	0
<i>Sphagnum angustifolium</i>	0	0	0	0	0	0	0	0	0.4	1	0	0
<i>Sphagnum auriculatum</i>	0	0	11	3	0	0	0	0	0	0	0	0
<i>Sphagnum capillifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum contortum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum cuspidatum</i>	0	0	0.4	1	0	0	0	0	0	0	0	0
<i>Sphagnum fallax</i>	0.2	1	1	1	0	0	0	0	13	5	0	0
<i>Sphagnum fuscum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum girgensohnii</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum medium</i>	0	0	0	0	0	0	0	0	1.6	1	0	0
<i>Sphagnum palustre</i>	19	2	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum papillosum</i>	0	0	41	5	0	0	0	0	0.6	1	0	0
<i>Sphagnum rubellum</i>	3	1	0	0	0	0	0	0	1.4	2	0	0
<i>Sphagnum russowii</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum subnitens</i>	0	1	5.6	3	0	0	0	0	0.2	1	0	0
<i>Sphagnum teres</i>	12	2	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum warnstorffii</i>	5.2	2	0	0	0	0	0	0	0	0	0	0
<i>Splachnum ampullaceum</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Straminergon stramineum</i>	0	0	0.8	2	0	0	0	0	0	0	0	0
<i>Thuidium tamariscinum</i>	1	3	0	0	0	0	0	0	0	0	0	0
Liverworts		0		0		0		0		0		0
<i>Aneura pinguis</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Calypogeia fissa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calypogeia muelleriana</i>	0	0	0	0	0	0	0	0	0	2	0	0
<i>Lophocolea bidentata</i>	0.2	1	0	0	0	0	0	0	0	0	0	0
<i>Lophozia ventricosa</i>	0	0	0	0	0	0	0	0	0	1	0	0
<i>Mylia anomala</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Odontoschisma sphagni</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pellia epiphylla</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Ptilidium ciliare</i>	0	0	0	0	0	0	0	0	0	0	0	0
Lichens		0		0		0		0		0		0
<i>Cladonia arbuscula</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cladonia portentosa</i>	0	0	0	0	0	0	0	0	0	0	0	0

Monitoring location no.	7	7	8	8	9	9	10	10	11	11	12	12
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
OS grid reference of centre of sampling area	NN 98754 59957	NN 98754 59957	NN 98442 61034	NN 98442 61034	NN 98551 60810	NN 98551 60810	NN 98672 61348	NN 98672 61348	NN 98920 60499	NN 98920 60499	NN 99166 60851	NN 99166 60851
Habitat type	WH	WH	GR	GR	FL	FL	FL	FL	FL	FL	GR	GR
Veg. height (cm)	24		13		30		50		48		18	
Bare ground (%)	0		0		0		0		0		0	
Bare rock (%)	0		0		0		0		0		0	
Open water (%)	0		0		0.4		0		0		0	
Litter (%)	0		0		0		2.2		12		0	
Flowering (AFOR or NF)	F-A		F-A		O-F		O-F		O(F)		F-A	
Dung (AFOR or None)	N		N		N		N		N		N	
Vascular plants												
<i>Achillea millefolium</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Achillea ptarmica</i>	0	1	0	0	0	0	0	1	0	0	0	0
<i>Aegopodium podagraria</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrostis canina</i>	0.8	3	0	0	0	1	0.6	2	1.6	5	0	0
<i>Agrostis capillaris</i>	0	0	31	5	0	0	0	0	0	1	19.8	3
<i>Agrostis stolonifera</i>	0	0	0	0	0	0	0	0	0.6	1	0	0
<i>Agrostis vinealis</i>	0	0	0	0	0	0	0	0	0	0	29.8	4
<i>Anemone nemorosa</i>	0	1	0	0	0	0	0	0	0	0	0	0
<i>Anthoxanthum odoratum</i>	0.8	4	13	5	0	0	3.4	5	0	0	5.4	4
<i>Avenella flexuosa</i>	0	0	5	3	0	0	0	0	0	0	5.8	5
<i>Betula pubescens</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Betula pub.</i> height (cm)												
<i>Blechnum spicant</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Briza media</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calluna vulgaris</i> (% cov.)	5	2	0.6	1	0	0	0	0	0	0	0	0
<i>Calluna</i> height (cm)	25		10									
<i>Calluna</i> flowering (AFOR)	R-O		O									
<i>Calluna</i> browsing (LMH)	H		H									
<i>Campanula rotundifolia</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Cardamine pratensis</i>	0	0	0	0	0	1	0	0	0	0	0	0
<i>Carex binervis</i>	0.2	2	0	0	0	0	0	0	0	0	0	0
<i>Carex caryophylla</i>	0	0	1.2	2	0	0	0	0	0	0	0	1
<i>Carex demissa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex dioica</i>	0	0	0	0	0.6	2	0	0	0	0	0	0
<i>Carex echinata</i>	1.6	4	0	0	3	2	0	0	0	0	0	0
<i>Carex flacca</i>	0	0	0	0	0	0	1.4	3	0	0	0	0
<i>Carex hostiana</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex nigra</i>	4.4	5	0	0	14	3	0	0	0	1	0	0
<i>Carex panicea</i>	0	2	0	0	14.2	5	0	0	0	0	0	0
<i>Carex pilulifera</i>	0	0	0	0	0	0	0	0	0	0	0	1
<i>Carex pulicaris</i>	0	0	0	0	0.4	2	0	0	0	0	0	0
<i>Carex rostrata</i>	0	0	0	0	48	5	0	0	0	0	0	0
<i>Cerastium fontanum</i>	0	0	0	0	0	0	0.2	1	0	1	0	0
<i>Cirsium palustre</i>	0	1	0	0	0	0	0.2	1	0	0	0	0
<i>Comarum palustre</i>	0	0	0	0	1.6	3	0	0	0	0	0	0
<i>Danthonia decumbens</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Deschampsia cespitosa</i>	0	0	0	0	0	0	3	1	20.2	5	0	0
<i>Drosera rotundifolia</i>	0	0	0	0	0.4	3	0	0	0	0	0	0
<i>Dryopteris carthusiana</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dryopteris dilatata</i>	0	0	0	0	0	0	0	0	0	1	0	0
<i>Eleocharis quinqueflora</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Empetrum nigrum</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Empetrum</i> height (cm)												
<i>Emp.</i> flowering (AFOR)												
<i>Empetrum</i> browsing (LMH)												
<i>Epilobium palustre</i>	0	1	0	0	0	1	1	5	0	1	0	0
<i>Equisetum palustre</i>	0	1	0	0	1.4	4	0	0	0	0	0	0
<i>Erica cinerea</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erica cin.</i> height (cm)												
<i>Erica cin.</i> flowering (AFOR)												
<i>Erica cin.</i> browsing (LMH)												
<i>Erica tetralix</i> (% cov.)	20.6	5	0	0	4.4	5	0	0	0	0	0	0
<i>Erica tet.</i> height (cm)	23.2	5			17.4	5		0		0		0
<i>Erica tet.</i> flowering (AFOR)	A	0			F	0		0		0		0
<i>Erica tet.</i> browsing (LMH)	L	0			L	0		0		0		0

Monitoring location no.	7	7	8	8	9	9	10	10	11	11	12	12
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
<i>Eriophorum angustifolium</i>	0.6	3	0	0	0.8	2	0	0	0	0	0	0
<i>Eriophorum vaginatum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Euphrasia</i> sp.	0	0	0	1	0	0	0	0	0	0	0	0
<i>Festuca ovina</i>	2.4	3	32	5	1.2	2	0	0	0	0	8.2	4
<i>Festuca rubra</i>	0	0	2	2	0	0	0.4	1	0	0	5.6	4
<i>Festuca vivipara</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Filipendula ulmaria</i>	0	0	0	0	0	1	0	0	0	0	0	0
<i>Galium palustre</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galium saxatile</i>	0.6	3	7.2	5	0	0	0	0	3.8	2	3.8	5
<i>Galium uliginosum</i>	0	0	0	0	0.8	2	0.2	2	0	0	0	0
<i>Holcus lanatus</i>	0	0	0	0	0	1	3	5	0	0	0	0
<i>Holcus mollis</i>	0	0	0	0	0	0	0.2	1	2	3	2	1
<i>Hypericum pulchrum</i>	0	0	0.2	1	0	0	0	0	0	0	0	0
<i>Jacobaea vulgaris</i>	0	0	0	0	0	0	0	1	0	0	0	0
<i>Juncus acutiflorus</i>	0	0	0	0	0	0	89.6	5	71	5	0	0
<i>Juncus articulatus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus bulbosus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus conglomeratus</i>	3	5	0	0	0	0	2	1	0	0	0	0
<i>Juncus effusus</i>	0	0	0	0	0	0	0.4	1	0	0	0	0
<i>Juncus squarrosus</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Linum catharticum</i>	0	0	0	0	0	3	0	0	0	0	0	0
<i>Luzula campestris</i>	0	0	0.6	4	0	0	0	0	0	0	0	0
<i>Luzula multiflora</i>	0	1	0	0	0	0	0	1	0	0	0.2	3
<i>Luzula pilosa</i>	0.2	1	0	0	0	0	0	0	0	0	0	0
<i>Lysimachia nemorum</i>	0	0	0	0	0	0	0.8	1	0	0	0	0
<i>Molinia caerulea</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Myrica gale</i>	0	0	0	0	0.2	1	0	0	0	0	0	0
<i>Nardus stricta</i>	34	5	2	1	0	0	0	0	0	0	17.6	5
<i>Narthecium ossifragum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Neottia cordata</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Oxalis acetosella</i>	0	0	0	0	0	0	0	0	0	1	0	0
<i>Pedicularis palustris</i>	0	0	0	0	0	2	0	0	0	0	0	0
<i>Pedicularis sylvatica</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Persicaria vivipara</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pilosella officinarum</i>	0	0	2.4	2	0	0	0	0	0	0	0	0
<i>Poa pratensis</i>	0	0	1.2	2	0	0	0.4	4	0	1	1.2	5
<i>Polygala serpyllifolia</i>	0	4	0	0	0	0	0	0	0	0	0	0
<i>Potentilla erecta</i>	2.4	5	1.8	3	0.8	4	1.2	3	0.8	1	0.2	1
<i>Prunella vulgaris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ranunculus acris</i>	0	0	0	0	0	1	1.2	1	0	0	0	0
<i>Ranunculus flammula</i>	0	0	0	0	0	0	0.2	1	0	0	0	0
<i>Rumex acetosa</i>	0	0	0	0	0	0	1.2	3	0	0	0.6	1
<i>Salix aurita</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salix aur.</i> height (cm)												
<i>Salix aur.</i> flowering (AFOR)												
<i>Salix aur.</i> browsing (LMH)												
<i>Salix cinerea</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salix repens</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salix rep.</i> height (cm)												
<i>Salix rep.</i> flowering (AFOR)												
<i>Salix rep.</i> browsing (LMH)												
<i>Scorzonoides autumnalis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Selaginella selaginoides</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Succisa pratensis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Taraxacum</i> agg.	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trichophorum germanicum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trientalis europaea</i>	1.6	3	0	0	0	0	0	0	0.4	1	0	0
<i>Trifolium repens</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Vaccinium myrtillus</i> (% cov.)	0	0	0.4	2	0	0	0	0	0	0	0	0
<i>Vacc. myr.</i> height (cm)			6.5									
<i>V. myr.</i> flowering (AFOR)			N									
<i>V. myr.</i> browsing (LMH)			H									
<i>Vaccinium oxycoccus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vaccinium vitis-idaea</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vacc. vit.</i> height (cm)												
<i>V. vit.</i> flowering (AFOR)												
<i>V. vit.</i> browsing (LMH)												

Monitoring location no.	7	7	8	8	9	9	10	10	11	11	12	12
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
<i>Veronica chamaedrys</i>	0	0	0.6	2	0	0	0	0	0	0	0	0
<i>Veronica officinalis</i>	0	0	2.4	2	0	0	0	0	0	0	0	0
<i>Viola palustris</i>	0.4	3	0	0	0	2	0	2	0.4	2	0.2	1
<i>Viola riviniana</i>	0	0	0	0	0	0	0	0	0	0	0	0
Mosses		0		0		0		0		0		0
<i>Aulacomnium palustre</i>	0.4	2	0	0	0	0	0	0	0	0	0	0
<i>Brachythecium rivulare</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calliergonella cuspidata</i>	0	0	0	0	8.2	4	0.4	2	0	0	0	0
<i>Campylium stellatum</i>	0	0	0	0	3	2	0	0	0	0	0	0
<i>Climacium dendroides</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ctenidium molluscum</i>	0	0	0	0	1	1	0	0	0	0	0	0
<i>Dicranum scoparium</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hylocomiadelphus triquetrus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hylocomium splendens</i>	11.4	4	10	3	2	1	0	0	0	0	0.4	1
<i>Hypnum cupressiforme</i>	0	0	0	0	0	0	0	0	0	0	7	5
<i>Hypnum jutlandicum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Kindbergia praelonga</i>	0	0	0	0	0	0	0	1	0	0	0	0
<i>Leucobryum glaucum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plagiomnium undulatum</i>	0	0	0	0	0	0	0	1	0	0	0	0
<i>Plagiothecium undulatum</i>	0	1	0	0	0	0	0	0	0	0	0	0
<i>Pleurozium schreberi</i>	3	5	0	0	0	0	0	0	3.4	1	1.4	2
<i>Polytrichum commune</i>	8	2	0	0	0	0	0	0	4	2	0	0
<i>Polytrichum strictum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pseudoscleropodium purum</i>	0.4	2	0	0	0.2	1	0	0	0	0	0	0
<i>Rhizomnium punctatum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhytidiadelphus loreus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhytidiadelphus squarrosus</i>	0.2	1	1.8	4	0	0	0.4	1	0	0	6	5
<i>Sphagnum angustifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum auriculatum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum capillifolium</i>	5	1	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum contortum</i>	0	0	0	0	8.4	3	0	0	0	0	0	0
<i>Sphagnum cuspidatum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum fallax</i>	2	1	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum fuscum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum girgensohnii</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum medium</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum palustre</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum papillosum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum rubellum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum russowii</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum subnitens</i>	5.6	2	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum teres</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum warnstorffii</i>	0	0	0	0	25	3	0	0	0	0	0	0
<i>Splachnum ampullaceum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Straminergon stramineum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thuidium tamariscinum</i>	0	0	0	0	0	0	0	0	0	0	0	0
Liverworts		0		0		0		0		0		0
<i>Aneura pinguis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calypogeia fissa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calypogeia muelleriana</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lophocolea bidentata</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lophozia ventricosa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Mylia anomala</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Odontoschisma sphagni</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pellia epiphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ptilidium ciliare</i>	0	0	0	0	0	0	0	0	0	0	0	0
Lichens		0		0		0		0		0		0
<i>Cladonia arbuscula</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cladonia portentosa</i>	0	0	0	0	0	0	0	0	0	0	0	0

Monitoring location no.	13	13	14	14	15	15	16	16	17	17	18	18
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
OS grid reference of centre of sampling area	NN 99370 61303	NN 99370 61303	NN 99376 61903	NN 99376 61903	NN 99535 61587	NN 99535 61587	NN 99924 61871	NN 99924 61871	NO 00300 61531	NO 00300 61531	NO 00378 61280	NO 00378 61280
Habitat type	GR	GR	WH	WH	DH	DH	DH	DH	BB	BB	DH	DH
Veg. height (cm)	14		31		19		40		30		29	
Bare ground (%)	0		0		0		0		0		0	
Bare rock (%)	0		0		0.4		0		0		0	
Open water (%)	0		0		0		0		0		0	
Litter (%)	0		0		0		0		0		0	
Flowering (AFOR or NF)	A		F-A		F(O)		F(A)		O-F		F	
Dung (AFOR or None)	N		N		R-O		N		N		N	
Vascular plants												
<i>Achillea millefolium</i>	0.4	2	0	0	0	0	0	0	0	0	0	0
<i>Achillea ptarmica</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Aegopodium podagraria</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrostis canina</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Agrostis capillaris</i>	42.2	5	0	1	0	0	0	0	0	0	0	0
<i>Agrostis stolonifera</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrostis vinealis</i>	5.2	1	0	0	9.8	5	0.2	3	0	0	0	1
<i>Anemone nemorosa</i>	0	0	0.2	3	0	0	0	0	0	0	0	0
<i>Anthoxanthum odoratum</i>	8.6	5	0	0	4.2	3	0	0	0	0	0	0
<i>Avenella flexuosa</i>	0.4	1	0	0	9.8	5	2	5	0	0	0.8	5
<i>Betula pubescens</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Betula pub.</i> height (cm)												
<i>Blechnum spicant</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Briza media</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calluna vulgaris</i> (% cov.)	0	0	27	5	28	5	91.8	5	68	5	87	5
<i>Calluna</i> height (cm)			28.2		19.4		38.4		29.4		27.8	
<i>Calluna</i> flowering (AFOR)			O-F		O-F		F(A)		F		F-A	
<i>Calluna</i> browsing (LMH)			M		H		L(M)		L-M		L	
<i>Campanula rotundifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cardamine pratensis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex binervis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex caryophylla</i>	0	1	0	0	0	0	0	0	0	0	0	0
<i>Carex demissa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex dioica</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex echinata</i>	0	0	3.8	5	0	0	0	0	0	0	0	0
<i>Carex flacca</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex hostiana</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex nigra</i>	0	0	2.2	3	0	0	0	0	0	0	0	0
<i>Carex panicea</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex pilulifera</i>	0	0	0	0	0	2	0	0	0	0	0	0
<i>Carex pulicaris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex rostrata</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cerastium fontanum</i>	0.2	1	0	0	0	1	0	0	0	0	0	0
<i>Cirsium palustre</i>	0	0	0.4	1	0	0	0	0	0	0	0	0
<i>Comarum palustre</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Danthonia decumbens</i>	0.4	1	0	0	0	0	0	0	0	0	0	0
<i>Deschampsia cespitosa</i>	0	0	0.4	3	13	4	0	0	0	0	0	0
<i>Drosera rotundifolia</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dryopteris carthusiana</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dryopteris dilatata</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eleocharis quinqueflora</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Empetrum nigrum</i> (% cov.)	0	0	0	0	0	0	0	1	0	1	0.2	2
<i>Empetrum</i> height (cm)							5		5		12.5	
<i>Emp.</i> flowering (AFOR)							N		N		N	
<i>Empetrum</i> browsing (LMH)							L		L		L	
<i>Epilobium palustre</i>	0	0	0	2	0	0	0	0	0	0	0	0
<i>Equisetum palustre</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Erica cinerea</i> (% cov.)	0	0	0	0	0	0	0.6	2	0	0	0	0
<i>Erica cin.</i> height (cm)							30					
<i>Erica cin.</i> flowering (AFOR)							F-A					
<i>Erica cin.</i> browsing (LMH)							L					
<i>Erica tetralix</i> (% cov.)	0	0	27	5	0	0	0	0	0	0	0	0
<i>Erica tet.</i> height (cm)			33	5								
<i>Erica tet.</i> flowering (AFOR)			A									
<i>Erica tet.</i> browsing (LMH)			L									

Monitoring location no.	13	13	14	14	15	15	16	16	17	17	18	18
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
<i>Eriophorum angustifolium</i>	0	0	0	0	0	0	0	0	0.2	1	0	0
<i>Eriophorum vaginatum</i>	0	0	0	0	0	0	0	0	32	5	0	0
<i>Euphrasia</i> sp.	0	0	0	0	0	0	0	0	0	0	0	0
<i>Festuca ovina</i>	10	5	0	2	0	0	0	1	0	0	0	1
<i>Festuca rubra</i>	0.4	1	0	0	0	0	0	0	0	0	0	0
<i>Festuca vivipara</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Filipendula ulmaria</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galium palustre</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galium saxatile</i>	16.4	5	0.2	3	4.4	4	0	0	0	0	0	0
<i>Galium uliginosum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Holcus lanatus</i>	0	0	0.2	1	0	0	0	0	0	0	0	0
<i>Holcus mollis</i>	3.4	3	0	0	0	0	0	0	0	0	0	0
<i>Hypericum pulchrum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jacobaea vulgaris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus acutiflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus articulatus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus bulbosus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus conglomeratus</i>	0	0	4.2	5	0	0	0	0	0	0	0	0
<i>Juncus effusus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus squarrosus</i>	0	0	0.6	1	0	0	0	0	0	0	0	0
<i>Linum catharticum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Luzula campestris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Luzula multiflora</i>	0	0	0	1	0	2	0	0	0	0	0	0
<i>Luzula pilosa</i>	0	0	0	0	0	0	0	1	0	0	0	1
<i>Lysimachia nemorum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Molinia caerulea</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Myrica gale</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nardus stricta</i>	3.6	3	1	1	0	0	0	0	0	0	0	0
<i>Narthecium ossifragum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Neottia cordata</i>	0	0	0	1	0	0	0	0	0	3	0	1
<i>Oxalis acetosella</i>	0	0	0	0	0.4	3	0	0	0	0	0	0
<i>Pedicularis palustris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pedicularis sylvatica</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Persicaria vivipara</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pilosella officinarum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Poa pratensis</i>	0.6	3	0	0	0	0	0	0	0	0	0	0
<i>Polygala serpyllifolia</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Potentilla erecta</i>	0	0	1	3	0.2	1	0.2	1	0	0	0	1
<i>Prunella vulgaris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ranunculus acris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ranunculus flammula</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rumex acetosa</i>	0.2	2	0	0	0	0	0	0	0	0	0	0
<i>Salix aurita</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salix aur.</i> height (cm)												
<i>Salix aur.</i> flowering (AFOR)												
<i>Salix aur.</i> browsing (LMH)												
<i>Salix cinerea</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salix repens</i> (% cov.)	0	0	0	1	0	0	0	0	0	0	0	0
<i>Salix rep.</i> height (cm)			7									
<i>Salix rep.</i> flowering (AFOR)			N									
<i>Salix rep.</i> browsing (LMH)			L									
<i>Scorzonoides autumnalis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Selaginella selaginoides</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Succisa pratensis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Taraxacum</i> agg.	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trichophorum germanicum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Trientalis europaea</i>	0	0	0.2	3	0.4	4	0	1	0	0	0	2
<i>Trifolium repens</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vaccinium myrtillus</i> (% cov.)	0	0	0	0	11.8	5	1.4	5	0.6	3	0.4	5
<i>Vacc. myr.</i> height (cm)					10.8		10.8		4.6667		12.6	
<i>V. myr.</i> flowering (AFOR)					N		N		N		N	
<i>V. myr.</i> browsing (LMH)					H		M		L		L-M	
<i>Vaccinium oxycoccus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Vaccinium vitis-idaea</i> (% cov.)	0	0	0	0	1.2	5	0.8	5	0.2	3	2.2	5
<i>Vacc. vit.</i> height (cm)					8.8		10		8.3333		12.2	
<i>V. vit.</i> flowering (AFOR)					N		N		N		N	
<i>V. vit.</i> browsing (LMH)					L		L-M		L		L-M	

Monitoring location no.	13	13	14	14	15	15	16	16	17	17	18	18
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
<i>Veronica chamaedrys</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Veronica officinalis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Viola palustris</i>	0	0	1.6	2	0	0	0	0	0	0	0	0
<i>Viola riviniana</i>	0	0	0	0	0	0	0	0	0	0	0	0
Mosses		0		0		0		0		0		0
<i>Aulacomnium palustre</i>	0	0	0.4	3	0	0	0	0	8.6	4	0	0
<i>Brachythecium rivulare</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calliergonella cuspidata</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Campyllum stellatum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Climacium dendroides</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ctenidium molluscum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dicranum scoparium</i>	0	0	0	0	1.2	2	0	0	0	2	0	0
<i>Hylocomiadelphus triquetrus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hylocomium splendens</i>	8	4	13	5	8.8	5	86	5	4.8	5	15	4
<i>Hypnum cupressiforme</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypnum jutlandicum</i>	0	0	0.6	3	0.2	2	0.4	4	8.2	4	10.8	5
<i>Kindbergia praelonga</i>	0	0	0	1	0	0	0	0	0	0	0	0
<i>Leucobryum glaucum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plagiomnium undulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Plagiothecium undulatum</i>	0	0	0	0	0	0	0	0	0	1	0	1
<i>Pleurozium schreberi</i>	3.2	3	3.4	5	8.6	4	2.2	5	11.8	5	72	5
<i>Polytrichum commune</i>	0	0	37.8	5	8	2	0	1	0	0	0	2
<i>Polytrichum strictum</i>	0	0	0.4	1	0	0	0	0	0.4	2	0	0
<i>Pseudoscleropodium purum</i>	0	0	0.2	2	0	0	0	0	0	0	0	0
<i>Rhizomnium punctatum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rhytidiadelphus loreus</i>	0	0	0.2	1	0	0	0	1	2.4	5	0	0
<i>Rhytidiadelphus squarrosus</i>	4.8	3	0	0	0.2	1	0	2	0	0	0	1
<i>Sphagnum angustifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum auriculatum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum capillifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum contortum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum cuspidatum</i>	0	0	0	0	0	0	0	0	0.2	1	0	0
<i>Sphagnum fallax</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum fuscum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum girgensohnii</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum medium</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum palustre</i>	0	0	7	1	0	0	0	0	0	0	0	0
<i>Sphagnum papillosum</i>	0	0	0	0	0	0	0	0	0	1	0	0
<i>Sphagnum rubellum</i>	0	0	15.6	2	0	0	0	0	49	5	0	0
<i>Sphagnum russowii</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum subnitens</i>	0	0	0.2	1	0	0	0	0	0	0	0	0
<i>Sphagnum teres</i>	0	0	2.6	2	0	0	0	0	0	0	0	0
<i>Sphagnum warnstorffii</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Splachnum ampullaceum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Straminergon stramineum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thuidium tamariscinum</i>	0	0	0	0	0	0	0	0	0	0	0	0
Liverworts		0		0		0		0		0		0
<i>Aneura pinguis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calypogeia fissa</i>	0	0	0	0	0	0	0	0	0	2	0	0
<i>Calypogeia muelleriana</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lophocolea bidentata</i>	0	0	0	0	0	0	0	2	0	0	0	0
<i>Lophozia ventricosa</i>	0	0	0	0	0	0	0	0	0	2	0	1
<i>Mylia anomala</i>	0	0	0	0	0	0	0	0	0	1	0	0
<i>Odontoschisma sphagni</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pellia epiphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ptilidium ciliare</i>	0	0	0	0	0	0	0	0	0	1	2	1
Lichens		0		0		0		0		0		0
<i>Cladonia arbuscula</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cladonia portentosa</i>	0	0	0	0	0	0	0	0	0	1	0.2	2

Monitoring location no.	19	19	20	20	21	21	22	22	23	23	24	24
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
OS grid reference of centre of sampling area	NO 00531 61076	NO 00531 61076	NO 01628 61223	NO 01628 61223	NO 01084 62296	NO 01084 62296	NO 00301 62916	NO 00301 62916	NO 00526 62795	NO 00526 62795	NO 00673 62773	NO 00673 62773
Habitat type	BB	BB	DH	DH	FL	FL	WH	WH	WH	WH	DH	DH
Veg. height (cm)	22		24		21		37		20		44	
Bare ground (%)	0		0.6		0		0		0		0	
Bare rock (%)	0		0		0		0		0		0	
Open water (%)	0		0		0		0		0		0	
Litter (%)	0		0		0		0		0		0	
Flowering (AFOR or NF)	O		F-A		O-F		F-A		F-A		F(O)	
Dung (AFOR or None)	N		R		N		N		N		N	
Vascular plants												
<i>Achillea millefolium</i>	0	0	0	0	0	0	0	1	0	0	0	0
<i>Achillea ptarmica</i>	0	0	0	0	0	0	0	0	0.2	2	0	0
<i>Aegopodium podagraria</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrostis canina</i>	0	0	0	0	0.8	2	0	0	2.4	3	0	0
<i>Agrostis capillaris</i>	0	0	0	0	0	0	0.4	1	0	0	0	0
<i>Agrostis stolonifera</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Agrostis vinealis</i>	0	0	0.2	1	0	0	4.4	4	0	0	0	1
<i>Anemone nemorosa</i>	0	0	0	0	0	0	0.2	1	0	0	0	0
<i>Anthoxanthum odoratum</i>	0	0	0	0	1.6	3	2.8	3	0.6	2	0	0
<i>Avenella flexuosa</i>	0	0	2.6	5	0	0	0	0	0	0	1.4	5
<i>Betula pubescens</i> (% cov.)	0	0	0	0	0	0	0.4	2	0	0	0	0
<i>Betula pub.</i> height (cm)							25					
<i>Blechnum spicant</i>	0	0	1	1	0	0	0.8	2	0	0	0	0
<i>Briza media</i>	0	0	0	0	0	0	0	0	0	1	0	0
<i>Calluna vulgaris</i> (% cov.)	43	5	73.6	5	0.4	1	51	5	4.4	3	76	5
<i>Calluna</i> height (cm)	22.8		24.2		20		37		23.333		40	
<i>Calluna</i> flowering (AFOR)	O(R)		A		R		F-A		F(A)		F	
<i>Calluna</i> browsing (LMH)	L-M		L(M)		M		M		M		L	
<i>Campanula rotundifolia</i>	0	0	0	0	0	0	0	1	0	0	0	0
<i>Cardamine pratensis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex binervis</i>	0	0	0	0	0	0	3.2	4	0	0	0	1
<i>Carex caryophylla</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex demissa</i>	0	0	0	0	0	0	0	0	0	1	0	0
<i>Carex dioica</i>	0	0	0	0	0.4	3	0	0	0.6	4	0	0
<i>Carex echinata</i>	0	0	0	0	11.4	5	0	0	2.8	5	0	0
<i>Carex flacca</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Carex hostiana</i>	0	0	0	0	0	0	0	0	11	4	0	0
<i>Carex nigra</i>	0	0	0	0	41.4	5	0	0	1.2	3	0	0
<i>Carex panicea</i>	0	0	0	0	5.4	5	0	0	27	5	0	0
<i>Carex pilulifera</i>	0	0	0	0	0	0	0.4	1	0	0	0	0
<i>Carex pulicaris</i>	0	0	0	0	0.2	1	0	0	1.2	4	0	0
<i>Carex rostrata</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cerastium fontanum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Cirsium palustre</i>	0	0	0	0	0	3	0	0	0.2	2	0	0
<i>Comarum palustre</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Danthonia decumbens</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Deschampsia cespitosa</i>	0	0	0	0	0	0	0	1	0	0	0	0
<i>Drosera rotundifolia</i>	2.2	2	0	0	0	0	0	0	0	0	0	0
<i>Dryopteris carthusiana</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dryopteris dilatata</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Eleocharis quinqueflora</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Empetrum nigrum</i> (% cov.)	0	3	0.2	2	0	0	0	0	0	0	0.4	2
<i>Empetrum</i> height (cm)	5		8.5								12.5	
<i>Emp.</i> flowering (AFOR)	N		N								N	
<i>Empetrum</i> browsing (LMH)	L		L								L	
<i>Epilobium palustre</i>	0	0	0	0	0.2	4	0	0	0	0	0	0
<i>Equisetum palustre</i>	0	0	0	0	0	0	0	0	0	2	0	0
<i>Erica cinerea</i> (% cov.)	0	0	0	0	0	0	0	0	0	0	4	0
<i>Erica cin.</i> height (cm)											32	
<i>Erica cin.</i> flowering (AFOR)											A	
<i>Erica cin.</i> browsing (LMH)											L	
<i>Erica tetralix</i> (% cov.)	2.6	5	0	0	1.2	2	8.4	5	18	5	0	0
<i>Erica tet.</i> height (cm)	19.8	5			17.5	2	36	5	20.4	5		
<i>Erica tet.</i> flowering (AFOR)	F(O)	1			F		A(F)		A(F)			
<i>Erica tet.</i> browsing (LMH)	L	0			L		L		L			

Monitoring location no.	19	19	20	20	21	21	22	22	23	23	24	24
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
<i>Eriophorum angustifolium</i>	2	1	0	0	0.8	4	0	0	0.6	4	0	0
<i>Eriophorum vaginatum</i>	35	5	0	0	0	0	0	0	0	0	0	0
<i>Euphrasia</i> sp.	0	0	0	0	0	0	0	0	0	3	0	0
<i>Festuca ovina</i>	0	0	0	0	8	4	2.4	3	1	3	0	0
<i>Festuca rubra</i>	0	0	0	0	0.2	1	3.2	2	0.2	1	0	0
<i>Festuca vivipara</i>	0	0	0	0	2	1	0	0	0	0	0	0
<i>Filipendula ulmaria</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galium palustre</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Galium saxatile</i>	0	0	0	1	0	0	2	2	0	0	0	0
<i>Galium uliginosum</i>	0	0	0	0	0	0	0	0	1	3	0	0
<i>Holcus lanatus</i>	0	0	0	0	0.4	1	0	0	0	0	0	0
<i>Holcus mollis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypericum pulchrum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Jacobea vulgaris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus acutiflorus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus articulatus</i>	0	0	0	0	0	0	0	0	0.6	4	0	0
<i>Juncus bulbosus</i>	0	0	0	0	0.4	2	0	0	0.2	2	0	0
<i>Juncus conglomeratus</i>	0	0	0	0	1	2	0.2	1	1	5	0	0
<i>Juncus effusus</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Juncus squarrosus</i>	0	0	0	0	2.8	3	0	0	0	0	0	0
<i>Linum catharticum</i>	0	0	0	0	0	0	0	0	0.2	3	0	0
<i>Luzula campestris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Luzula multiflora</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Luzula pilosa</i>	0	0	0	0	0	0	0	1	0	0	0	0
<i>Lysimachia nemorum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Molinia caerulea</i>	0	0	0	0	3	1	1.4	1	8	2	0	0
<i>Myrica gale</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Nardus stricta</i>	0	0	0	0	10.8	5	13.4	4	9.2	5	0	0
<i>Narthecium ossifragum</i>	0	0	0	0	0.8	5	0	0	0.4	1	0	0
<i>Neottia cordata</i>	0	1	0	0	0	0	0	0	0	0	0	2
<i>Oxalis acetosella</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pedicularis palustris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pedicularis sylvatica</i>	0	0	0	0	0	0	0	1	0	0	0	0
<i>Persicaria vivipara</i>	0	0	0	0	0.4	1	0	0	0	0	0	0
<i>Pilosella officinarum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Poa pratensis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Polygala serpyllifolia</i>	0	0	0	0	0	0	0	0	0	1	0	0
<i>Potentilla erecta</i>	0	0	0	0	6.2	5	6.6	5	4.2	5	0.2	1
<i>Prunella vulgaris</i>	0	0	0	0	0	0	0	0	0.6	4	0	0
<i>Ranunculus acris</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ranunculus flammula</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Rumex acetosa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salix aurita</i> (% cov.)	0	0	0	0	0	0	2.4	3	0.8	1	0	0
<i>Salix aur.</i> height (cm)							41.667		25			
<i>Salix aur.</i> flowering (AFOR)							N		N			
<i>Salix aur.</i> browsing (LMH)							M		M-H			
<i>Salix cinerea</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Salix repens</i> (% cov.)	0	0	0	0	0	0	6	5	0.4	2	0	0
<i>Salix rep.</i> height (cm)							20.4		15			
<i>Salix rep.</i> flowering (AFOR)							N		N			
<i>Salix rep.</i> browsing (LMH)							M		M-H			
<i>Scorzonoides autumnalis</i>	0	0	0	0	1	5	0	0	0	3	0	0
<i>Selaginella selaginoides</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Succisa pratensis</i>	0	0	0	0	0	0	0	0	2.2	3	0	0
<i>Taraxacum</i> agg.	0	0	0	0	0	0	0	0	0.4	2	0	0
<i>Trichophorum germanicum</i>	0	0	0	0	0	0	0	1	0	0	0	0
<i>Trientalis europaea</i>	0	0	0	0	0.4	5	0.2	4	0.6	4	0.6	1
<i>Trifolium repens</i>	0	0	0	0	0	0	0	0	0	1	0	0
<i>Vaccinium myrtillus</i> (% cov.)	0	1	9.2	5	0	0	0.4	1	0	0	22	5
<i>Vacc.</i> myr. height (cm)	5		13.2				7				14.8	
<i>V. myr.</i> flowering (AFOR)	N		R-O				N				N	
<i>V. myr.</i> browsing (LMH)	L		L-M				M				M	
<i>Vaccinium oxycoccus</i>	0	1	0	0	0	0	0	0	0	0	0	0
<i>Vaccinium vitis-idaea</i> (% cov.)	0	0	1.6	5	0	0	0.4	1	0	0	3.6	5
<i>Vacc.</i> vit. height (cm)			8.6				10				10	
<i>V. vit.</i> flowering (AFOR)			R				N				N	
<i>V. vit.</i> browsing (LMH)			L				L				L	

Monitoring location no.	19	19	20	20	21	21	22	22	23	23	24	24
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
<i>Veronica chamaedrys</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Veronica officinalis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Viola palustris</i>	0	0	0	0	1	5	1.8	4	0	1	0	0
<i>Viola riviniana</i>	0	0	0	0	0	0	0.4	2	0	0	0	0
Mosses		0		0		0		0		0		0
<i>Aulacomnium palustre</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Brachythecium rivulare</i>	0	0	0	0	1	1	0	0	0	0	0	0
<i>Calliergonella cuspidata</i>	0	0	0	0	8	3	0	0	0	0	0	0
<i>Campyllum stellatum</i>	0	0	0	0	0.2	3	0	0	0	0	0	0
<i>Climacium dendroides</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ctenidium molluscum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Dicranum scoparium</i>	0	0	0.4	4	0	0	0	0	0	0	0	0
<i>Hylocomiadelphus triquetrus</i>	0	0	0	0	0	0	0	0	0.8	2	0	0
<i>Hylocomium splendens</i>	1.2	1	30	5	0.8	2	4.6	5	2	2	75.6	5
<i>Hypnum cupressiforme</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Hypnum jutlandicum</i>	6.8	3	10.4	5	0	0	1.8	4	0	0	2.6	3
<i>Kindbergia praelonga</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Leucobryum glaucum</i>	0	0	0	0	0	0	0.4	1	0	0	0	0
<i>Plagiomnium undulatum</i>	0	0	0	0	0	0	0.2	1	0	0	0	0
<i>Plagiothecium undulatum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Pleurozium schreberi</i>	9.2	5	50	5	0	0	0.4	1	0	0	4.6	5
<i>Polytrichum commune</i>	0	0	0	0	0	0	0	1	0	0	0	1
<i>Polytrichum strictum</i>	0.2	1	0	0	0	0	0	0	0	0	0	0
<i>Pseudoscleropodium purum</i>	0	0	0	0	0.8	2	0.6	2	0.2	1	0	0
<i>Rhizomnium punctatum</i>	0	0	0	0	0.2	1	0	0	0	0	0	0
<i>Rhytidiadelphus loreus</i>	0.2	1	1	1	0	0	0	0	0	0	0	0
<i>Rhytidiadelphus squarrosus</i>	0	1	0	1	0.2	4	0.4	3	0	1	0	0
<i>Sphagnum angustifolium</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum auriculatum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum capillifolium</i>	22.6	4	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum contortum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum cuspidatum</i>	4	1	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum fallax</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum fuscum</i>	21	3	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum girgensohnii</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum medium</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum palustre</i>	0	0	0	0	3	1	0	0	0	0	0	0
<i>Sphagnum papillosum</i>	5.8	2	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum rubellum</i>	10	1	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum russowii</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum subnitens</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum teres</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Sphagnum warnstorffii</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Splachnum ampullaceum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Straminergon stramineum</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Thuidium tamariscinum</i>	0	0	0	0	0.6	1	2	1	0	1	0	0
Liverworts		0		0		0		0		0		0
<i>Aneura pinguis</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calypogeia fissa</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Calypogeia muelleriana</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lophocolea bidentata</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Lophozia ventricosa</i>	0	1	0	0	0	0	0	0	0	0	0	0
<i>Mylia anomala</i>	0.8	4	0	0	0	0	0	0	0	0	0	0
<i>Odontoschisma sphagni</i>	0.2	2	0	0	0	0	0	0	0	0	0	0
<i>Pellia epiphylla</i>	0	0	0	0	0	0	0	0	0	0	0	0
<i>Ptilidium ciliare</i>	0	1	0	1	0	0	0	0	0	0	0	0
Lichens		0		0		0		0		0		0
<i>Cladonia arbuscula</i>	0	1	0	0	0	0	0	0	0	0	0	0
<i>Cladonia portentosa</i>	0.6	4	0	2	0	0	0	0	0	0	0	0

Monitoring location no.	25	25	26	26	27	27	28	28
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
OS grid reference of centre of sampling area	NO 00739 62829	NO 00739 62829	NO 01059 62928	NO 01059 62928	NO 01170 63004	NO 01170 63004	NO 01738 63337	NO 01738 63337
Habitat type	WH	WH	FL	FL	FL	FL	WH	WH
Veg. height (cm)	26		72		51		31	
Bare ground (%)	0		0		0		0	
Bare rock (%)	0		0		0		0	
Open water (%)	0		0		0		0	
Litter (%)	0		0		3.6		0	
Flowering (AFOR or NF)	F(O)		A(F)		F		F	
Dung (AFOR or None)	N		N		N		N	
Vascular plants								
<i>Achillea millefolium</i>	0	0	0	0	0	0	0	0
<i>Achillea ptarmica</i>	0	0	0	0	0	0	0	1
<i>Aegopodium podagraria</i>	0	0	0	0	0	1	0	0
<i>Agrostis canina</i>	1.4	3	7.4	4	0.4	2	3.2	4
<i>Agrostis capillaris</i>	0	0	0	0	0	0	0	0
<i>Agrostis stolonifera</i>	0	0	0	0	0	0	0	0
<i>Agrostis vinealis</i>	0	0	0	0	0	0	0	0
<i>Anemone nemorosa</i>	0	0	0	0	0	0	0	1
<i>Anthoxanthum odoratum</i>	1.4	3	0	0	2.8	5	0.4	2
<i>Avenella flexuosa</i>	0	0	1	1	0	0	0	0
<i>Betula pubescens</i> (% cov.)	0	0	0	0	0	0	0	0
<i>Betula pub.</i> height (cm)								
<i>Blechnum spicant</i>	0	0	0	0	0	0	0	0
<i>Briza media</i>	0	0	0	0	0	0	0	0
<i>Calluna vulgaris</i> (% cov.)	4.6	4	0	0	0	0	8.6	5
<i>Calluna</i> height (cm)	21.75						27.8	
<i>Calluna</i> flowering (AFOR)	O						O-F	
<i>Calluna</i> browsing (LMH)	M						M	
<i>Campanula rotundifolia</i>	0	0	0	0	0	0	0	0
<i>Cardamine pratensis</i>	0	0	0	0	0	0	0	0
<i>Carex binervis</i>	0	0	0	0	0	0	0	0
<i>Carex caryophyllaea</i>	0	0	0	0	0	0	0	0
<i>Carex demissa</i>	0	0	0	0	0	0	0	0
<i>Carex dioica</i>	0.2	2	0	0	0	0	0	1
<i>Carex echinata</i>	7	5	7	2	0	0	6.6	5
<i>Carex flacca</i>	0	0	0	0	0	0	0	0
<i>Carex hostiana</i>	0	0	0	0	0	0	0	0
<i>Carex nigra</i>	27.4	5	7.6	3	0.2	1	19.6	5
<i>Carex panicea</i>	4	4	0	0	3.8	4	0.4	1
<i>Carex pilulifera</i>	0	0	0	0	0	0	0	0
<i>Carex pulicaris</i>	0	0	0	0	0.2	2	0.2	1
<i>Carex rostrata</i>	0	0	0	0	0	0	0	0
<i>Cerastium fontanum</i>	0	0	0	0	0	0	0	0
<i>Cirsium palustre</i>	0.2	1	0	0	0.8	2	0.6	2
<i>Comarum palustre</i>	0	0	0	0	1	3	0	0
<i>Danthonia decumbens</i>	0	0	0	0	0	0	0	0
<i>Deschampsia cespitosa</i>	0	0	0	0	0.2	1	0	0
<i>Drosera rotundifolia</i>	0	0	0	0	0	0	0	0
<i>Dryopteris carthusiana</i>	0	0	0.6	1	0	0	0	0
<i>Dryopteris dilatata</i>	0	0	0	0	0	0	0	0
<i>Eleocharis quinqueflora</i>	0	0	0	0	0	0	0	0
<i>Empetrum nigrum</i> (% cov.)	0	1	0	0	0	0	0	0
<i>Empetrum</i> height (cm)	15							
<i>Emp.</i> flowering (AFOR)	N							
<i>Empetrum</i> browsing (LMH)	L							
<i>Epilobium palustre</i>	0	0	0.4	1	2.8	5	0	2
<i>Equisetum palustre</i>	1	5	0.6	1	0	0	0.4	4
<i>Erica cinerea</i> (% cov.)	0	0	0	0	0	0	0	0
<i>Erica cin.</i> height (cm)								
<i>Erica cin.</i> flowering (AFOR)								
<i>Erica cin.</i> browsing (LMH)								
<i>Erica tetralix</i> (% cov.)	21	5	0.4	1	0	0	7.6	5
<i>Erica tet.</i> height (cm)	24.8	5	30	1			26.8	5
<i>Erica tet.</i> flowering (AFOR)	A(F)		A				A(F)	
<i>Erica tet.</i> browsing (LMH)	L		L				L	

Monitoring location no.	25	25	26	26	27	27	28	28
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
<i>Eriophorum angustifolium</i>	5.4	4	0	0	0	0	0	0
<i>Eriophorum vaginatum</i>	0	0	0	0	0	0	0	0
<i>Euphrasia</i> sp.	0	0	0	0	0	0	0	0
<i>Festuca ovina</i>	0.8	3	0	0	0.2	1	4.6	5
<i>Festuca rubra</i>	0	0	0	0	2.6	4	0.2	1
<i>Festuca vivipara</i>	0	0	0	0	0	0	0	0
<i>Filipendula ulmaria</i>	0	0	0	0	0	0	0	0
<i>Galium palustre</i>	0	0	0	0	0	0	0	0
<i>Galium saxatile</i>	0	0	11.4	5	0	0	0	0
<i>Galium uliginosum</i>	0.2	1	0	0	6.6	5	0.4	2
<i>Holcus lanatus</i>	0	0	0	0	6.6	5	0	0
<i>Holcus mollis</i>	0	0	0	0	0	0	0	0
<i>Hypericum pulchrum</i>	0	0	0	0	0	0	0	0
<i>Jacobea vulgaris</i>	0	0	0	0	0	0	0	0
<i>Juncus acutiflorus</i>	0	0	0	0	69	5	0	0
<i>Juncus articulatus</i>	0	0	0	0	0	0	0	0
<i>Juncus bulbosus</i>	0	1	0	0	0	0	0	0
<i>Juncus conglomeratus</i>	0.4	2	3	1	0.2	2	0.4	2
<i>Juncus effusus</i>	0	0	51	5	0	0	0	0
<i>Juncus squarrosus</i>	0	0	0	0	0	0	0	0
<i>Linum catharticum</i>	0	0	0	0	0	0	0	0
<i>Luzula campestris</i>	0	0	0	0	0	0	0	0
<i>Luzula multiflora</i>	0	2	0.2	1	0.2	3	0.2	3
<i>Luzula pilosa</i>	0	0	0	0	0	0	0	0
<i>Lysimachia nemorum</i>	0	0	0	0	0	0	0	0
<i>Molinia caerulea</i>	0	0	0	0	0	0	11.6	3
<i>Myrica gale</i>	0	0	0	0	0	0	0	0
<i>Nardus stricta</i>	2.4	2	0	0	0.6	1	5.2	3
<i>Narthecium ossifragum</i>	2.2	3	0	0	0	0	0.8	3
<i>Neottia cordata</i>	0	0	0	0	0	0	0	0
<i>Oxalis acetosella</i>	0	0	0	0	0	0	0	0
<i>Pedicularis palustris</i>	0	0	0	0	0	0	0	0
<i>Pedicularis sylvatica</i>	0	0	0	0	0	0	0	0
<i>Persicaria vivipara</i>	0	0	0	0	0.2	1	0	1
<i>Pilosella officinarum</i>	0	0	0	0	0	0	0	0
<i>Poa pratensis</i>	0	0	0	0	0.2	1	0	0
<i>Polygala serpyllifolia</i>	0	0	0	0	0	0	0	0
<i>Potentilla erecta</i>	5	5	0	0	2.8	3	2.8	5
<i>Prunella vulgaris</i>	0	0	0	0	0	0	0	0
<i>Ranunculus acris</i>	0	0	0	0	1	2	0	0
<i>Ranunculus flammula</i>	0	0	0	0	0	0	0	0
<i>Rumex acetosa</i>	0	0	0	0	0	0	0	0
<i>Salix aurita</i> (% cov.)	0.2	1	0	0	0	0	0	0
<i>Salix aur.</i> height (cm)	10							
<i>Salix aur.</i> flowering (AFOR)	N							
<i>Salix aur.</i> browsing (LMH)	M							
<i>Salix cinerea</i>	0	0	0	0	0	0	0	0
<i>Salix repens</i> (% cov.)	0.4	2	0	0	0	0	20	5
<i>Salix rep.</i> height (cm)	9						25.4	
<i>Salix rep.</i> flowering (AFOR)	N						N	
<i>Salix rep.</i> browsing (LMH)	M(-H)						M	
<i>Scorzoneroide autumnalis</i>	0	0	0	0	0	0	0	0
<i>Selaginella selaginoides</i>	0	0	0	0	0	0	0	0
<i>Succisa pratensis</i>	0	0	0	0	0	0	0.2	1
<i>Taraxacum</i> agg.	0	0	0	0	0	0	0	0
<i>Trichophorum germanicum</i>	0	0	0	0	0	0	1	1
<i>Trientalis europaea</i>	0.4	4	1.2	5	0	2	0.4	4
<i>Trifolium repens</i>	0	0	0	0	0	0	0	0
<i>Vaccinium myrtillus</i> (% cov.)	0	0	0	0	0	0	0	0
<i>Vacc. myr.</i> height (cm)								
<i>V. myr.</i> flowering (AFOR)								
<i>V. myr.</i> browsing (LMH)								
<i>Vaccinium oxycoccus</i>	0	0	0	0	0	0	0	0
<i>Vaccinium vitis-idaea</i> (% cov.)	0	0	0	0	0	0	0	0
<i>Vacc. vit.</i> height (cm)								
<i>V. vit.</i> flowering (AFOR)								
<i>V. vit.</i> browsing (LMH)								

Monitoring location no.	25	25	26	26	27	27	28	28
	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.	Σ%	Freq.
<i>Veronica chamaedrys</i>	0	0	0	0	0	0	0	0
<i>Veronica officinalis</i>	0	0	0	0	0	0	0	0
<i>Viola palustris</i>	1	3	0	0	2	5	2.6	5
<i>Viola riviniana</i>	0	0	0	0	0	0	0	0
Mosses		0		0		0		0
<i>Aulacomnium palustre</i>	3.8	3	0	0	0	0	0.4	3
<i>Brachythecium rivulare</i>	0	0	0	0	1	2	0	0
<i>Calliergonella cuspidata</i>	0	0	0	0	1.2	2	0	0
<i>Campyllum stellatum</i>	0	0	0	0	0	0	0	0
<i>Climacium dendroides</i>	0	0	0	0	2.2	2	0	0
<i>Ctenidium molluscum</i>	0	0	0	0	0	0	0	0
<i>Dicranum scoparium</i>	0	0	0	0	0	0	0	0
<i>Hylocomiadelphus triquetrus</i>	0	0	0	0	0	0	0	0
<i>Hylocomium splendens</i>	9	3	0.2	2	0.4	1	6.2	4
<i>Hypnum cupressiforme</i>	0	0	0	0	0	0	0	0
<i>Hypnum jutlandicum</i>	1	1	0	0	0	0	0	0
<i>Kindbergia praelonga</i>	0	0	0	0	0	0	0	0
<i>Leucobryum glaucum</i>	0	0	0	0	0	0	0	0
<i>Plagiomnium undulatum</i>	0	0	0	0	0.6	1	0	0
<i>Plagiothecium undulatum</i>	0	0	0	0	0	0	0	0
<i>Pleurozium schreberi</i>	1.2	2	0	0	0	0	2.4	3
<i>Polytrichum commune</i>	0	0	34.8	4	0	0	2	2
<i>Polytrichum strictum</i>	0	0	0	0	0	0	0	0
<i>Pseudoscleropodium purum</i>	0.2	1	0	0	0.2	1	0.6	2
<i>Rhizomnium punctatum</i>	0	0	0	0	0	0	0	0
<i>Rhytidiadelphus loreus</i>	0	0	0	0	0	0	0	0
<i>Rhytidiadelphus squarrosus</i>	0.2	1	0	0	9.2	5	0.6	2
<i>Sphagnum angustifolium</i>	18	3	0	0	0	0	14	1
<i>Sphagnum auriculatum</i>	0.2	2	0	0	0	0	0	0
<i>Sphagnum capillifolium</i>	0	0	0	0	0	0	0	0
<i>Sphagnum contortum</i>	0	0	0	0	0	0	0	0
<i>Sphagnum cuspidatum</i>	0	0	0	0	0	0	0	0
<i>Sphagnum fallax</i>	0.4	1	0.4	1	0	0	1	1
<i>Sphagnum fuscum</i>	0	0	0	0	0	0	0	0
<i>Sphagnum girgensohnii</i>	0	0	0.8	2	0	0	10	2
<i>Sphagnum medium</i>	0	0	0	0	0	0	0	0
<i>Sphagnum palustre</i>	0	0	37	2	0	0	0	0
<i>Sphagnum papillosum</i>	0	0	0	0	0	0	0	0
<i>Sphagnum rubellum</i>	1	1	0	0	0	0	0	0
<i>Sphagnum russowii</i>	3	3	2.6	3	0	0	0	0
<i>Sphagnum subnitens</i>	2.2	2	0	0	0	0	5	2
<i>Sphagnum teres</i>	5	1	0	0	0	0	5	1
<i>Sphagnum warnstorffii</i>	2	1	0	0	0	0	2	1
<i>Splachnum ampullaceum</i>	0	0	0	0	0	0	0	0
<i>Straminergon stramineum</i>	0	1	0	0	0	0	0	0
<i>Thuidium tamariscinum</i>	4.2	3	0	0	0	0	0.4	1
Liverworts		0		0		0		0
<i>Aneura pinguis</i>	0	0	0	0	0	0	0	0
<i>Calypogeia fissa</i>	0	0	0	0	0	0	0	0
<i>Calypogeia muelleriana</i>	0	0	0	0	0	0	0	0
<i>Lophocolea bidentata</i>	0	0	0	0	0	0	0	0
<i>Lophozia ventricosa</i>	0	0	0	0	0	0	0	0
<i>Mylia anomala</i>	0	0	0	0	0	0	0	0
<i>Odontoschisma sphagni</i>	0	0	0	0	0	0	0	0
<i>Pellia epiphylla</i>	0	0	0	0	0	0	0	0
<i>Ptilidium ciliare</i>	0	0	0	0	0	0	0	0
Lichens		0		0		0		0
<i>Cladonia arbuscula</i>	0	0	0	0	0	0	0	0
<i>Cladonia portentosa</i>	0	0	0	0	0	0	0	0

Appendix 1C – woody species data summarised for each quadrat-monitoring location

Monitoring location no.	1	2	3	4	5	6	7	8	9	10	11	12	13	14
OS grid reference of centre of sampling area	NN 98032 59731	NN 98371 59339	NN 97750 61974	NN 98955 61795	NN 98347 60272	NN 98502 59889	NN 98754 59957	NN 98442 61034	NN 98551 60810	NN 98672 61348	NN 98920 60499	NN 99166 60851	NN 99370 61303	NN 99376 61903
Habitat type	FL	BB	DH	DH	BB	DH	WH	GR	FL	FL	FL	GR	GR	WH
Veg. height (cm)	36	24	35	12.2	40	39	24	13	30	50	48	18	14	31
Bare ground (%)	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0
Bare rock (%)	0	0	0	1.2	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0.4	0	0	0	0	0
Litter (%)	9.4	0	0	0	0	0	0	0	0	2.2	12	0	0	0
Flowering (AFOR or NF)	F(O)	O-F	F-A	F(O)	F	O	F-A	F-A	O-F	O-F	O(F)	F-A	A	F-A
Dung (AFOR or None)	N	R	O	O	N	R	N	N	N	N	N	N	N	N

<i>Betula pubescens</i> (% cov.)														
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<i>Betula pub.</i> height (cm)														
<i>Calluna vulgaris</i> (% cov.)		3.6	57	4.8	5.6	93.8	5	0.6						27
<i>Calluna</i> height (cm)		22.5	35.8	23.333	31.25	37	25	10						28.2
<i>Calluna</i> flowering (AFOR)		R	F-A	R-O	R	O(F)	R-O	O						O-F
<i>Calluna</i> browsing (LMH)		H	M	H	M	M	H	H						M

<i>Empetrum nigrum</i> (% cov.)														
<i>Empetrum</i> height (cm)														
<i>Emp.</i> flowering (AFOR)														
<i>Empetrum</i> browsing (LMH)														

<i>Erica cinerea</i> (% cov.)				2.2										
<i>Erica cin.</i> height (cm)				12.5										
<i>Erica cin.</i> flowering (AFOR)				O-F										
<i>Erica cin.</i> browsing (LMH)				H										

<i>Erica tetralix</i> (% cov.)	4.6	15			2.4	0	20.6		4.4					27
<i>Erica tet.</i> height (cm)	25	23			23.75	25	23.2		17.4					33
<i>Erica tet.</i> flowering (AFOR)	F-A	F-A			F	A	A		F					A
<i>Erica tet.</i> browsing (LMH)	L	L			L	L	L		L					L

<i>Salix aurita</i> (% cov.)														
<i>Salix aur.</i> height (cm)														
<i>Salix aur.</i> flowering (AFOR)														
<i>Salix aur.</i> browsing (LMH)														

<i>Salix repens</i> (% cov.)														0
<i>Salix rep.</i> height (cm)														7
<i>Salix rep.</i> flowering (AFOR)														N
<i>Salix rep.</i> browsing (LMH)														L

<i>Vaccinium myrtillus</i> (% cov.)			26.6	10.6		0.6		0.4						
<i>Vacc. myr.</i> height (cm)			17.8	10.75		13.333		6.5						
<i>V. myr.</i> flowering (AFOR)			R	R		R		N						
<i>V. myr.</i> browsing (LMH)			M-H	H		M-H		H						

<i>Vaccinium vitis-idaea</i> (% cov.)			1.6	7.2	3									
<i>Vacc. vit.</i> height (cm)			8.75	6.5	10									
<i>V. vit.</i> flowering (AFOR)			R	N	N									
<i>V. vit.</i> browsing (LMH)			L	L	L									

Monitoring location no.	15	16	17	18	19	20	21	22	23	24	25	26	27	28
OS grid reference of centre of sampling area	NN 99535 61587	NN 99924 61871	NO 00300 61531	NO 00378 61280	NO 00531 61076	NO 01628 61223	NO 01084 62296	NO 00301 62916	NO 00526 62795	NO 00673 62773	NO 00739 62829	NO 01059 62928	NO 01170 63004	NO 01738 63337
Habitat type	DH	DH	BB	DH	BB	DH	FL	WH	WH	DH	WH	FL	FL	WH
Veg. height (cm)	19	40	30	29	22	24	21	37	20	44	26	72	51	31
Bare ground (%)	0	0	0	0	0	0.6	0	0	0	0	0	0	0	0
Bare rock (%)	0.4	0	0	0	0	0	0	0	0	0	0	0	0	0
Open water (%)	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Litter (%)	0	0	0	0	0	0	0	0	0	0	0	0	3.6	0
Flowering (AFOR or NF)	F(O)	F(A)	O-F	F	O	F-A	O-F	F-A	F-A	F(O)	F(O)	A(F)	F	F
Dung (AFOR or None)	R-O	N	N	N	N	R	N	N	N	N	N	N	N	N

<i>Betula pubescens</i> (% cov.)								0.4						
<i>Betula pub.</i> height (cm)								25						

<i>Calluna vulgaris</i> (% cov.)	28	91.8	68	87	43	73.6	0.4	51	4.4	76	4.6			8.6
<i>Calluna</i> height (cm)	19.4	38.4	29.4	27.8	22.8	24.2	20	37	23.333	40	21.75			27.8
<i>Calluna</i> flowering (AFOR)	O-F	F(A)	F	F-A	O(R)	A	R	F-A	F(A)	F	O			O-F
<i>Calluna</i> browsing (LMH)	H	L(M)	L-M	L	L-M	L(M)	M	M	M	L	M			M

<i>Empetrum nigrum</i> (% cov.)		0	0	0.2	0	0.2				0.4	0			
<i>Empetrum</i> height (cm)		5	5	12.5	5	8.5				12.5	15			
<i>Emp.</i> flowering (AFOR)		N	N	N	N	N				N	N			
<i>Empetrum</i> browsing (LMH)		L	L	L	L	L				L	L			

<i>Erica cinerea</i> (% cov.)		0.6								4				
<i>Erica cin.</i> height (cm)		30								32				
<i>Erica cin.</i> flowering (AFOR)		F-A								A				
<i>Erica cin.</i> browsing (LMH)		L								L				

<i>Erica tetralix</i> (% cov.)					2.6		1.2	8.4	18		21	0.4		7.6
<i>Erica tet.</i> height (cm)					19.8		17.5	36	20.4		24.8	30		26.8
<i>Erica tet.</i> flowering (AFOR)					F(O)		F	A(F)	A(F)		A(F)	A		A(F)
<i>Erica tet.</i> browsing (LMH)					L		L	L	L		L	L		L

<i>Salix aurita</i> (% cov.)								2.4	0.8		0.2			
<i>Salix aur.</i> height (cm)								41.667	25		10			
<i>Salix aur.</i> flowering (AFOR)								N	N		N			
<i>Salix aur.</i> browsing (LMH)								M	M-H		M			

<i>Salix repens</i> (% cov.)								6	0.4		0.4			20
<i>Salix rep.</i> height (cm)								20.4	15		9			25.4
<i>Salix rep.</i> flowering (AFOR)								N	N		N			N
<i>Salix rep.</i> browsing (LMH)								M	M-H		M(-H)			M

<i>Vaccinium myrtillus</i> (% cov.)	11.8	1.4	0.6	0.4	0	9.2		0.4		22				
<i>Vacc. myr.</i> height (cm)	10.8	10.8	4.6667	12.6	5	13.2		7		14.8				
<i>V. myr.</i> flowering (AFOR)	N	N	N	N	N	R-O		N		N				
<i>V. myr.</i> browsing (LMH)	H	M	L	L-M	L	L-M		M		M				

<i>Vaccinium vitis-idaea</i> (% cov.)	1.2	0.8	0.2	2.2		1.6		0.4		3.6				
<i>Vacc. vit.</i> height (cm)	8.8	10	8.3333	12.2		8.6		10		10				
<i>V. vit.</i> flowering (AFOR)	N	N	N	N		R		N		N				
<i>V. vit.</i> browsing (LMH)	L	L-M	L	L-M		L		L		L				

Appendix 2 – list of plant species found while recording monitoring baseline at Knockbarrie, Perthshire, in July 2025

Quantity codes: 1 = rare; 2 = occasional; 3 = frequent; 4 = abundant.

Phyt column: European phytogeographical groups – see key at end of this appendix.

Latin name	Common name	Quantity	Phyt
<i>Acer pseudoplatanus</i>	Sycamore	1	
<i>Achillea millefolium</i>	Yarrow	1	55
<i>Achillea ptarmica</i>	Sneezewort	2	55
<i>Aegopodium podagraria</i>	Ground Elder	1	
<i>Agrostis canina</i>	Velvet Bent	3	56
<i>Agrostis capillaris</i>	Common Bent	3	54
<i>Agrostis stolonifera</i>	Creeping Bent	1	66
<i>Agrostis vinealis</i>	Brown Bent	4	73
<i>Ajuga reptans</i>	Bugle	2	73
<i>Anemone nemorosa</i>	Wood Anemone	2	74
<i>Angelica sylvestris</i>	Angelica	3	54
<i>Anthoxanthum odoratum</i>	Sweet Vernal-grass	4	64
<i>Arctostaphylos uva-ursi</i>	Bearberry	1	46
<i>Arrhenatherum elatius</i>	False Oat-grass	1	73
<i>Avenella flexuosa</i>	Wavy Hair-grass	4	53
<i>Bellis perennis</i>	Daisy	1	73
<i>Betula pubescens</i>	Downy Birch	2	54
<i>Blechnum spicant</i>	Hard Fern	2	73
<i>Briza media</i>	Quaking Grass	2	73
<i>Calluna vulgaris</i>	Heather	4	53
<i>Campanula rotundifolia</i>	Harebell	1	56
<i>Cardamine pratensis</i>	Lady's Smock	2	36
<i>Carex bigelowii</i>	Stiff Sedge	1	16
<i>Carex binervis</i>	Green-ribbed Sedge	3	71
<i>Carex canescens</i>	White Sedge	2	46
<i>Carex caryophyllea</i>	Spring Sedge	2	74
<i>Carex demissa</i>	Common Yellow-sedge	1	56
<i>Carex dioica</i>	Doiceous Sedge	2	26
<i>Carex echinata</i>	Star Sedge	4	53
<i>Carex flacca</i>	Glaucous Sedge	2	83
<i>Carex hirta</i>	Hairy Sedge	1	73
<i>Carex hostiana</i>	Tawny Sedge	2	73
<i>Carex lepidocarpa</i>	Tall Yellow-sedge	1	73
<i>Carex leporina</i>	Oval Sedge	1	54
<i>Carex nigra</i>	Common Sedge	4	54
<i>Carex panicea</i>	Carnation Sedge	4	53
<i>Carex pilulifera</i>	Pill Sedge	2	73
<i>Carex pulicaris</i>	Flea Sedge	3	72
<i>Carex rostrata</i>	Bottle Sedge	3	56
<i>Cerastium fontanum</i>	Common Mouse-ear	2	54
<i>Cirsium arvense</i>	Creeping Thistle	1	75
<i>Cirsium palustre</i>	Marsh Thistle	3	54
<i>Comarum palustre</i>	Marsh Cinquefoil	2	56
<i>Crepis paludosa</i>	Marsh Hawksbeard	1	53
<i>Cynosurus cristatus</i>	Crested Dog's-tail	1	73

Latin name	Common name	Quantity	Phyt
<i>Dactylis glomerata</i>	Cocksfoot	1	84
<i>Danthonia decumbens</i>	Heath Grass	1	73
<i>Deschampsia cespitosa</i>	Tufted Hair-grass	4	36
<i>Drosera rotundifolia</i>	Round-leaved Sundew	2	56
<i>Dryopteris carthusiana</i>	Narrow Buckler-fern	1	54
<i>Dryopteris dilatata</i>	Broad Buckler-fern	2	73
<i>Dryopteris filix-mas</i>	Male-fern	1	76
<i>Eleocharis quinqueflora</i>	Few-flowered Spike-rush	2	53
<i>Empetrum nigrum nigrum</i>	Crowberry	2	26
<i>Epilobium palustre</i>	Marsh Willowherb	3	56
<i>Equisetum arvense</i>	Field Horsetail	1	36
<i>Equisetum palustre</i>	Marsh Horsetail	3	56
<i>Equisetum sylvaticum</i>	Wood Horsetail	2	56
<i>Erica cinerea</i>	Bell Heather	3	71
<i>Erica tetralix</i>	Cross-leaved Heath	4	72
<i>Eriophorum angustifolium</i>	Common Cottongrass	4	36
<i>Eriophorum latifolium</i>	Broad-leaved Cottongrass	2	53
<i>Eriophorum vaginatum</i>	Hare's-tail Cottongrass	4	26
<i>Euphrasia</i> sp.	Eyebright	2	73
<i>Festuca ovina</i>	Sheep's Fescue	4	55
<i>Festuca rubra</i>	Red Fescue	3	36
<i>Festuca vivipara</i>	Viviparous Fescue	2	26
<i>Filipendula ulmaria</i>	Meadowsweet	2	55
<i>Galium boreale</i>	Northern Bedstraw	1	56
<i>Galium palustre</i>	Marsh Bedstraw	3	54
<i>Galium saxatile</i>	Heath Bedstraw	4	72
<i>Galium uliginosum</i>	Fen Bedstraw	3	55
<i>Galium verum</i>	Lady's Bedstraw	1	55
<i>Geranium sylvaticum</i>	Wood Crane's-bill	1	44
<i>Geum rivale</i>	Water Avens	1	54
<i>Gymnocarpium dryopteris</i>	Oak Fern	1	56
<i>Helianthemum nummularium</i>	Common Rockrose	1	73
<i>Holcus lanatus</i>	Yorkshire Fog	3	83
<i>Holcus mollis</i>	Creeping Soft-grass	1	73
<i>Hypericum pulchrum</i>	Slender St John's-wort	1	72
<i>Hypochaeris radicata</i>	Common Cat's-ear	1	83
<i>Jacobea vulgaris</i>	Ragwort	1	74
<i>Juncus acutiflorus</i>	Sharp-flowered Rush	3	73
<i>Juncus articulatus</i>	Jointed Rush	2	84
<i>Juncus bulbosus</i>	Bulbous Rush	2	53
<i>Juncus conglomeratus</i>	Compact Rush	4	73
<i>Juncus effusus</i>	Soft Rush	3	83
<i>Juncus squarrosus</i>	Heath Rush	3	72
<i>Juniperus communis communis</i>	Juniper	1	56
<i>Lathyrus linifolius</i>	Bitter Vetch	1	73
<i>Linum catharticum</i>	Fairy Flax	3	73
<i>Lolium perenne</i>	Perennial Rye-grass	1	83
<i>Lotus corniculatus</i>	Common Bird's-foot Trefoil	2	85
<i>Lotus pedunculatus</i>	Greater Bird's-foot Trefoil	2	73
<i>Luzula campestris</i>	Field Woodrush	2	73

Latin name	Common name	Quantity	Phyt
<i>Luzula multiflora</i>	Heath Woodrush	3	36
<i>Luzula pilosa</i>	Hairy Woodrush	2	54
<i>Lycopodium annotinum</i>	Interrupted Clubmoss	1	26
<i>Lycopodium clavatum</i>	Stag's-horn Clubmoss	1	56
<i>Lysimachia nemorum</i>	Yellow Pimpernel	1	72
<i>Melampyrum pratense</i>	Common Cow-wheat	1	54
<i>Mentha aquatica</i>	Water Mint	1	73
<i>Molinia caerulea</i>	Purple Moor-grass	2	54
<i>Myrica gale</i>	Bog Myrtle	1	52
<i>Nardus stricta</i>	Mat Grass	4	53
<i>Narthecium ossifragum</i>	Bog Asphodel	4	51
<i>Neottia cordata</i>	Lesser Twayblade	2	46
<i>Odontites vernus</i>	Red Bartsia	1	75
<i>Oxalis acetosella</i>	Wood Sorrel	2	55
<i>Pedicularis palustris</i>	Marsh Lousewort	2	53
<i>Pedicularis sylvatica</i>	Lousewort	2	73
<i>Persicaria vivipara</i>	Alpine Bistort	2	26
<i>Picea sitchensis</i>	Sitka Spruce	1	
<i>Pilosella officinarum</i>	Mouse-ear Hawkweed	2	73
<i>Pinguicula vulgaris</i>	Butterwort	1	46
<i>Plantago lanceolata</i>	Ribwort Plantain	1	84
<i>Poa pratensis</i>	Smooth Meadow-grass	2	66
<i>Polygala serpyllifolia</i>	Heath Milkwort	2	72
<i>Potamogeton polygonifolius</i>	Bog Pondweed	2	72
<i>Potentilla anserina</i>	Silverweed	1	56
<i>Potentilla erecta</i>	Tormentil	4	54
<i>Prunella vulgaris</i>	Self-heal	2	66
<i>Pteridium aquilinum</i>	Bracken	1	76
<i>Ranunculus acris</i>	Meadow Buttercup	3	35
<i>Ranunculus auricomus</i>	Goldilocks Buttercup	1	53
<i>Ranunculus bulbosus</i>	Bulbous Buttercup	1	83
<i>Ranunculus flammula</i>	Lesser Spearwort	3	73
<i>Ranunculus repens</i>	Creeping Buttercup	2	55
<i>Rubus chamaemorus</i>	Cloudberry	2	46
<i>Rumex acetosa</i>	Common Sorrel	3	54
<i>Rumex obtusifolius</i>	Broad-leaved Dock	1	73
<i>Sagina procumbens</i>	Mossy Pearlwort	1	54
<i>Salix aurita</i>	Eared Willow	3	53
<i>Salix cinerea</i>	Grey Willow	1	54
<i>Salix repens</i>	Creeping Willow	3	54
<i>Sambucus nigra</i>	Elder	1	73
<i>Saxifraga aizoides</i>	Yellow Saxifrage	1	13
<i>Scorzoneroide autumnalis</i>	Autumn Hawkbit	2	53
<i>Selaginella selaginoides</i>	Lesser Clubmoss	1	46
<i>Sorbus aucuparia</i>	Rowan	1	55
<i>Stellaria uliginosa</i>	Bog stitchwort	1	73
<i>Succisa pratensis</i>	Devil's-bit Scabious	2	74
<i>Taraxacum agg.</i>	Dandelion	2	66
<i>Thymus drucei</i>	Thyme	2	53
<i>Tofieldia pusilla</i>	Scottish Asphodel	1	16

Latin name	Common name	Quantity	Phyt
<i>Trichophorum germanicum</i>	Deergrass	3	46
<i>Trientalis europaea</i>	Chickweed Wintergreen	3	46
<i>Trifolium repens</i>	White Clover	1	54
<i>Triglochin palustre</i>	Marsh Arrowgrass	1	56
<i>Trollius europaeus</i>	Globeflower	1	43
<i>Ulex europaeus</i>	Gorse	2	71
<i>Urtica dioica</i>	Stinging Nettle	1	54
<i>Vaccinium myrtillus</i>	Blaeberry	4	44
<i>Vaccinium oxycoccus</i>	Cranberry	1	46
<i>Vaccinium vitis-idaea</i>	Cowberry	4	26
<i>Veronica chamaedrys</i>	Germander Speedwell	1	54
<i>Veronica officinalis</i>	Heath Speedwell	2	53
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell	1	56
<i>Viola lutea</i>	Mountain Pansy	1	43
<i>Viola palustris</i>	Marsh Violet	3	53
<i>Viola riviniana</i>	Common Dog-violet	1	73
Mosses			
<i>Andreaea rupestris</i>		2	26
<i>Antitrichia curtipendula</i>		2	53
<i>Aulacomnium palustre</i>		3	36
<i>Blindia acuta</i>		1	26
<i>Brachythecium rivulare</i>		2	56
<i>Calliergonella cuspidata</i>		3	76
<i>Campylium stellatum</i>		2	56
<i>Campylopus introflexus</i>		1	
<i>Climacium dendroides</i>		2	36
<i>Ctenidium molluscum</i>		2	53
<i>Dicranum scoparium</i>		3	36
<i>Grimmia donniana</i>		1	23
<i>Hedwigia stellata</i>		2	73
<i>Homalothecium sericeum</i>		1	84
<i>Hylocomiadelphus triquetrus</i>		2	56
<i>Hylocomium splendens</i>		4	36
<i>Hypnum cupressiforme</i> var. <i>cupressiforme</i>		2	66
<i>Hypnum jutlandicum</i>		4	72
<i>Isothecium alopecuroides</i>		1	53
<i>Isothecium myosuroides</i>		1	52
<i>Kiaeria blyttii</i>		1	23
<i>Kindbergia praelonga</i>		2	73
<i>Leucobryum glaucum</i>		1	73
<i>Leucodon sciuroides</i>		1	64
<i>Lewinskya affinis</i>		1	53
<i>Mnium hornum</i>		1	73
<i>Palustriella commutata</i>		1	56
<i>Palustriella falcata</i>		1	56
<i>Philonotis fontana</i>		2	66
<i>Plagiomnium undulatum</i>		2	73
<i>Plagiothecium undulatum</i>		2	52
<i>Pleurozium schreberi</i>		4	56

Latin name	Common name	Quantity	Phyt
<i>Polytrichum commune</i>		3	36
<i>Polytrichum strictum</i>		2	26
<i>Pseudoscleropodium purum</i>		3	73
<i>Pterigynandrum filiforme</i>		1	46
<i>Racomitrium aquaticum</i>		1	72
<i>Racomitrium fasciculare</i>		2	53
<i>Racomitrium heterostichum</i>		2	52
<i>Racomitrium lanuginosum</i>		2	26
<i>Rhizomnium punctatum</i>		1	56
<i>Rhytidiadelphus loreus</i>		2	52
<i>Rhytidiadelphus squarrosus</i>		3	53
<i>Schistidium apocarpum</i>		1	66
<i>Scorpidium revolvens</i>		2	26
<i>Scorpidium scorpioides</i>		2	26
<i>Sphagnum affine</i>		1	42
<i>Sphagnum angustifolium</i>		2	46
<i>Sphagnum auriculatum</i>		2	53
<i>Sphagnum capillifolium</i>		3	56
<i>Sphagnum compactum</i>		1	56
<i>Sphagnum contortum</i>		2	46
<i>Sphagnum cuspidatum</i>		1	53
<i>Sphagnum fallax</i>		3	53
<i>Sphagnum fuscum</i>		1	26
<i>Sphagnum girgensohnii</i>		2	26
<i>Sphagnum medium</i>		1	46
<i>Sphagnum palustre</i>		2	56
<i>Sphagnum papillosum</i>		2	53
<i>Sphagnum rubellum</i>		3	56
<i>Sphagnum russowii</i>		1	26
<i>Sphagnum squarrosum</i>		1	36
<i>Sphagnum subnitens</i>		2	52
<i>Sphagnum teres</i>		2	26
<i>Sphagnum warnstorfii</i>		2	26
<i>Splachnum ampullaceum</i>		1	46
<i>Straminergon stramineum</i>		1	26
<i>Thuidium tamariscinum</i>		2	73
<i>Tortella tortuosa</i>		1	56
<i>Ulota bruchii</i>		2	73
Liverworts			
<i>Aneura pinguis</i>		1	36
<i>Calypogeia fissa</i>		1	72
<i>Calypogeia muelleriana</i>		1	56
<i>Frullania dilatata</i>		1	85
<i>Lophocolea bidentata</i>		2	73
<i>Lophozia ventricosa</i>		1	53
<i>Mylia anomala</i>		2	46
<i>Odontoschisma sphagni</i>		1	72
<i>Orthocaulis floerkei</i>		1	46
<i>Pellia epiphylla</i>		1	56

Latin name	Common name	Quantity	Phyt
<i>Ptilidium ciliare</i>		2	26
Lichens (just a few species recorded; no attempt at a more meaningful list)			
<i>Cladonia arbuscula</i>		3	
<i>Cladonia portentosa</i>		3	
<i>Cladonia uncialis</i>		2	
<i>Hypogymnia physodes</i>		2	
<i>Parmelia omphalodes</i>		2	
<i>Parmelia saxatilis</i>		2	
<i>Rhizocarpon geographicum</i>		2	

Phytogeographical groups (Preston & Hill 1997; Hill & Preston 1998):

11 Oceanic Arctic-montane	41 Oceanic Boreal-montane	72 Suboceanic Temperate
12 Suboceanic Arctic-montane	42 Suboceanic Boreal-montane	73 European Temperate
13 European Arctic-montane	43 European Boreal-montane	74 Eurosiberian Temperate
14 Eurosiberian Arctic-montane	44 Eurosiberian Boreal-montane	75 Eurasian Temperate
15 Eurasian Arctic-montane	45 Eurasian Boreal-montane	76 Circumpolar Temperate
16 Circumpolar Arctic-montane	46 Circumpolar Boreal-montane	80 Hyperoceanic Southern-temperate
21 Oceanic Boreo-arctic Montane	51 Oceanic Boreo-temperate	81 Oceanic Southern-temperate
22 Suboceanic Boreo-arctic Montane	52 Suboceanic Boreo-temperate	82 Suboceanic Southern-temperate
23 European Boreo-arctic Montane	53 European Boreo-temperate	83 European Southern-temperate
24 Eurosiberian Boreo-arctic Montane	54 Eurosiberian Boreo-temperate	84 Eurosiberian Southern-temperate
26 Circumpolar Boreo-arctic Montane	55 Eurasian Boreo-temperate	85 Eurasian Southern-temperate
32 Suboceanic Wide-boreal	56 Circumpolar Boreo-temperate	86 Circumpolar Southern-temperate
34 Eurosiberian Wide-boreal	63 European Wide-temperate	91 Mediterranean-Atlantic
35 Eurasian Wide-boreal	64 Eurosiberian Wide-temperate	92 Submediterranean-Subatlantic
36 Circumpolar Wide-boreal	65 Eurasian Wide-temperate	93 Mediterranean-montane
	66 Circumpolar Wide-temperate	
	70 Hyperoceanic Temperate	
	71 Oceanic Temperate	

APPENDIX 3 – PHOTOGRAPHS

Most of these photos show views at locations 1-46, ordered numerically. They show the 360° photographic panorama taken at each of these locations.

There are no photos of the individual quadrats recorded at locations 1-28, as these quadrats are not permanent (so future quadrats will not be in the exact same places), but there are photos looking toward the centre of each quadrat-recording area (which in most cases is a 10 m radius circle) to help with refinding the centre point in future and to give a visual indication of the nature of the vegetation.

The photos taken at locations 1-46 are followed by others showing a selection of species and habitats at some of locations 47-85, and also some close views of species of interest taken elsewhere at Knockbarrie.

Knockbarrie location 1 NN 98032 59731

Quadrat-monitoring location in *Carex rostrata* mire.



Looking N to centre point of 10m radius circle



Looking E-ESE from centre of circle



Looking N from centre of circle



Looking SSE from centre of circle



Looking NE-ENE from centre of circle



Looking SSW from centre of circle

Knockbarrie location 1 (cont.)



Looking WSW-W from centre of circle



Looking N from centre of circle



Looking WNW-NW from centre of circle



Looking NE-ENE from centre of circle

Knockbarrie location 2 NN 98371 59339
Quadrat-monitoring location in blanket bog.



Looking N to centre point of 10m radius circle



Looking E-ESE from centre of circle

Knockbarrie location 2 (cont.)



Looking SSE from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 3 NN 97750 61974

Quadrat-monitoring location in dry heath (NVC H12b).



Looking SSW from centre of circle



Looking N to centre point of 10m radius circle



Looking WSW-W from centre of circle



Closer view looking N to centre point of 10m radius circle

Knockbarrie location 3 (cont.)



Looking N from centre of circle



Looking SSE from centre of circle



Looking NE-ENE from centre of circle



Looking SSW from centre of circle



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle

Knockbarrie location 3 (cont.)



Looking WNW-NW from centre of circle



Looking N from centre of circle

Knockbarrie location 4 NN 98955 61795

Quadrat-monitoring location in short, grassy, heavily-grazed dry heath (NVC H12c).



Looking N to centre point of 10m radius circle



Looking NE-ENE from centre of circle



Looking WNW-NW showing centre point of 10m radius circle



Looking E-ESE from centre of circle

Knockbarrie location 4 (cont.)



Looking SSE from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 5 NN 98347 60272

Quadrat-monitoring location in blanket bog (NVC M19a).



Looking SSW from centre of circle



Looking N to centre point of 10m radius circle



Looking WSW-W from centre of circle



Looking N from centre of circle

Knockbarrie location 5 (cont.)



Looking NE-ENE from centre of circle



Looking SSW from centre of circle



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle



Looking SSE from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 6 NN 98502 59889

Quadrat-monitoring location in dry heath (NVC H12a).



Looking N to centre point of 10m radius circle



Looking E-ESE from centre of circle



Looking N from centre of circle



Looking SSE from centre of circle



Looking NE-ENE from centre of circle



Looking SSW from centre of circle

Knockbarrie location 6 (cont.)



Looking WSW-W from centre of circle



Looking N from centre of circle



Looking WNW-NW from centre of circle



Looking NE-ENE from centre of circle

Knockbarrie location 7 NN 98754 59957

Quadrat-monitoring location in wet heath (NVC M15b).



Looking N to centre point of 10m radius circle



Looking E-ESE from centre of circle

Knockbarrie location 7 (cont.)



Looking SSE from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 8 NN 98442 61034

Quadrat-monitoring location in acid grassland (NVC U4a).



Looking SSW from centre of circle



Looking N to centre point of 10m radius circle



Looking WSW-W from centre of circle



Closer view looking NE to centre point of 10m radius circle

Knockbarrie location 8 (cont.)



Looking N from centre of circle



Looking SSE from centre of circle



Looking NE-ENE from centre of circle



Looking SSW from centre of circle



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle

Knockbarrie location 8 (cont.)



Looking WNW-NW from centre of circle



Looking NE-ESE from centre of circle

Knockbarrie location 9 NN 98551 60810

Quadrat-monitoring location in *Carex rostrata* mire (NVC M8).



Looking N to centre point of 10m radius circle



Looking E-ESE from centre of circle



Looking N from centre of circle



Looking SSE from centre of circle

Knockbarrie location 9 (cont.)



Looking SSW from centre of circle



Looking WSW-W from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 10 NN 98672 61348

Quadrat-monitoring location in rush mire (NVC M23a).



Looking N to centre point of 10m radius circle



Looking N from centre of circle



Looking NE-ENE from centre of circle

Knockbarrie location 10 (cont.)



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle



Looking SSE from centre of circle



Looking WNW-NW from centre of circle



Looking SSW from centre of circle

Knockbarrie location 11 NN 98920 60499

Quadrat-monitoring location in grassy/rushy veg. (MG9-Je).



Looking N to centre point of 10m radius circle



Looking E-ESE from centre of circle



Looking N from centre of circle



Looking SSE from centre of circle



Looking NE-ENE from centre of circle



Looking SSW from centre of circle

Knockbarrie location 11 (cont.)



Looking WSW-W from centre of circle



Closer view looking N to centre point of 10m radius circle



Looking WNW-NW from centre of circle



Looking N from centre of circle

Knockbarrie location 12 NN 99166 60851

Quadrat-monitoring location in acid grassland (NVC U4a).



Looking N to centre point of 10m radius circle



Looking NE-ENE from centre of circle

Knockbarrie location 12 (cont.)



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle



Looking SSE from centre of circle

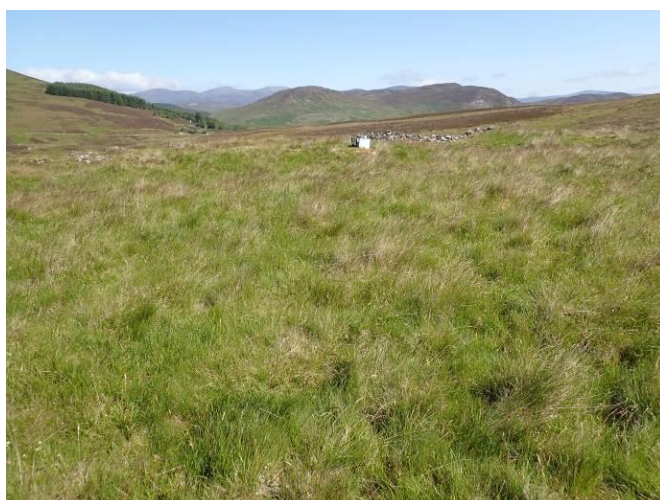


Looking WNW-NW from centre of circle



Looking SSW from centre of circle

Knockbarrie location 13 NN 99370 61303
Quadrat-monitoring location in acid grassland (NVC U4a).



Looking N to centre point of 10m radius circle

Knockbarrie location 13 (cont.)



Looking WNW to centre point of 10m radius circle



Looking E-ESE from centre of circle



Looking N from centre of circle



Looking SSE from centre of circle



Looking NE-ENE from centre of circle



Looking SSW from centre of circle

Knockbarrie location 13 (cont.)



Looking WSW-W from centre of circle



Looking N from centre of circle



Looking WNW-NW from centre of circle



Looking NE-ENE from centre of circle

Knockbarrie location 14 NN 99376 61903

Quadrat-monitoring location in wet heath (NVC M15a-b).



Looking N to centre point of 10m radius circle



Looking E-ESE from centre of circle

Knockbarrie location 14 (cont.)



Looking SSE from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 15 NN 99535 61587
Quadrat-monitoring location in dry heath (NVC H12c).



Looking SSW from centre of circle



Looking N to centre point of 10m radius circle



Looking WSW-W from centre of circle



Looking N from centre of circle

Knockbarrie location 15 (cont.)



Looking NE-ENE from centre of circle



Looking SSW from centre of circle



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle



Looking SSE from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 16 NN 99924 61871

Quadrat-monitoring location in dry heath (NVC H12b).



Looking N to centre point of 10m radius circle



Looking N from centre of circle



Looking ENE to centre point of 10m radius circle



Looking NE-ENE from centre of circle



Closer view looking ENE to centre point of 10m radius circle



Looking E-ESE from centre of circle

Knockbarrie location 16 (cont.)



Looking SSE from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 17 NO 00300 61531

Quadrat-monitoring location in blanket bog (NVC M19c).



Looking SSW from centre of circle



Looking N to centre point of 10m radius circle



Looking WSW-W from centre of circle



Looking N from centre of circle

Knockbarrie location 17 (cont.)



Looking NE-ENE from centre of circle



Looking SSW from centre of circle



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle



Looking SSE from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 18 NO 00378 61280

Quadrat-monitoring location in dry heath (NVC H12b).



Looking SE to show centre point of 10m radius circle in relation to track



Close view looking NE at centre point of 10m radius circle



Looking SE to centre point of 10m radius circle



Looking N from centre of circle



Looking N to centre point of 10m radius circle



Looking NE-ENE from centre of circle

Knockbarrie location 18 (cont.)



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle



Looking SSE from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 19 NO 00531 61076
Quadrat-monitoring location in bog (NVC M19a(-M17)).



Looking SSW from centre of circle



Looking N to centre point of 10m radius circle

Knockbarrie location 19 (cont.)



Looking N from centre of circle



Looking SSE from centre of circle



Looking NE-ENE from centre of circle



Looking SSW from centre of circle



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle

Knockbarrie location 19 (cont.)



Looking WNW-NW from centre of circle



One of the hummocks of *Sphagnum fuscum* at this location



Close view of *Sphagnum fuscum* at this location

Knockbarrie location 20 NO 01628 61223

Quadrat-monitoring location in dry heath (NVC H12b).



Looking E to centre point of 10m radius circle (composite of two photos)



Looking N to centre point of 10m radius circle



Looking N from centre of circle

Knockbarrie location 20 (cont.)



Looking NE-ENE from centre of circle



Looking SSW from centre of circle



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle



Looking SSE from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 21 NO 01084 62296

Quadrat-monitoring location in flush (NVC MX(-M15a).



Looking N to centre point of 5m radius circle



Looking N from centre of circle



Looking NE-ENE from centre of circle



Looking E-ESE from centre of circle



Looking SSE from centre of circle



Looking SSW from centre of circle

Knockbarrie location 21 (cont.)



Looking WSW-W from centre of circle



Looking N from centre of circle



Looking WNW-NW from centre of circle



Looking NE-ENE from centre of circle

Knockbarrie location 22 NO 00301 62916

Quadrat-monitoring location in wet heath (NVC M15-H12).



Looking N to centre point of 10m radius circle



Looking E-ESE from centre of circle

Knockbarrie location 22 (cont.)



Looking SSE from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 23 NO 00526 62795
Quadrat-monitoring location in wet heath (NVC M15a).



Looking SSW from centre of circle



Looking ESE to centre point of 5x10m plot



Looking WSW-W from centre of circle



Looking S to centre point of 5x10m plot

Knockbarrie location 23 (cont.)



Looking N from centre of plot



Looking SSE from centre of plot



Looking NE-ENE from centre of plot



Looking SSW from centre of plot



Looking E-ESE from centre of plot



Looking WSW-W from centre of plot

Knockbarrie location 23 (cont.)



Looking WNW-NW from centre of plot



Looking NE-ENE from centre of circle

Knockbarrie location 24 NO 00673 62773

Quadrat-monitoring location in dry heath (NVC H12b).



Looking N to centre point of 10m radius circle



Looking E-ESE from centre of circle



Looking N from centre of circle



Looking SSE from centre of circle

Knockbarrie location 24 (cont.)



Looking SSW from centre of circle



Looking WSW-W from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 25 NO 00739 62829
Quadrat-monitoring location in wet heath (NVC M15a).



Looking N to centre point of 10m radius circle



Looking N from centre of circle



Looking NE-ENE from centre of circle

Knockbarrie location 25 (cont.)



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle



Looking SSE from centre of circle



Looking WNW-NW from centre of circle



Looking SSW from centre of circle

Knockbarrie location 26 NO 01059 62928
Quadrat-monitoring location in rush mire (NVC M6c).



Looking N to centre point of 10m radius circle

Knockbarrie location 26 (cont.)



Looking N from centre of circle



Looking SSE from centre of circle



Looking NE-ENE from centre of circle



Looking SSW from centre of circle



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle

Knockbarrie location 26 (cont.)



Looking WNW-NW from centre of circle



Looking NE-ENE from centre of circle

Knockbarrie location 27 NO 01170 63004

Quadrat-monitoring location in rush mire (NVC M23a).



Looking N to centre point of 10m radius circle



Looking E-ESE from centre of circle



Looking N from centre of circle



Looking SSE from centre of circle

Knockbarrie location 27 (cont.)



Looking SSW from centre of circle



Looking WSW-W from centre of circle



Looking WNW-NW from centre of circle

Knockbarrie location 28 NO 01738 63337
Quadrat-monitoring location in wet heath (NVC M15a).



Looking N to centre point of 10m radius circle



Looking N from centre of circle



Looking NE-ENE from centre of circle

Knockbarrie location 28 (cont.)



Looking E-ESE from centre of circle



Looking WSW-W from centre of circle



Looking SSE from centre of circle



Looking WNW-NW from centre of circle



Looking SSW from centre of circle

Knockbarrie location 29 NN 96764 59964

Photo panorama showing mainly dry heath and flush habitat.



Looking N to photo point



Looking S to photo point



Looking N from photo point



Looking NE-ENE from photo point



Looking E-ESE from photo point



Looking SSE from photo point

Knockbarrie location 29 (cont.)



Looking SSW from photo point



Looking WSW-W from photo point



Looking WNW-NW from photo point

Knockbarrie location 30 NN 97653 60130

Photo panorama taken from area of grassland and dry heath.



Looking NE-ENE to photo point



Looking N from photo point



Looking NE-ENE from photo point

Knockbarrie location 30 (cont.)



Looking E-ESE from photo point



Looking WSW-W from photo point



Looking SSE from photo point



Looking WNW-NW from photo point

Knockbarrie location 31 NN 98319 59348

Photo panorama showing mainly dry and wet heaths; also some bog and flush.



Looking SSW from photo point



Looking NE to photo point

Knockbarrie location 31 (cont.)



Looking N to photo point



Looking E-ESE from photo point



Looking N from photo point



Looking SSE from photo point



Looking NE-ENE from photo point



Looking SSW from photo point

Knockbarrie location 31 (cont.)



Looking WSW-W from photo point



Looking NE-ENE to photo point (rock)



Looking WNW-NW from photo point



Looking N from photo point

Knockbarrie location 32 NN 98284 58588

Photo panorama showing mainly dry and wet heaths; also some bog and flush.



Looking SSE to photo point (rock)



Looking NE-ENE from photo point

Knockbarrie location 32 (cont.)



Looking E-ESE from photo point



Looking WSW-W from photo point



Looking SSE from photo point



Looking WNW-NW from photo point

Knockbarrie location 33 NN 97767 61349

Photo panorama showing mainly dry and wet heaths; also some grassland and flushes.



Looking SSW from photo point



Looking N to photo point (rock)

Knockbarrie location 33 (cont.)



Clower view looking N to photo point (rock)



Looking E-ESE from photo point



Looking N from photo point



Looking SSE from photo point



Looking NE-ENE from photo point



Looking SSW from photo point

Knockbarrie location 33 (cont.)



Looking WSW-W from photo point



Looking N from photo point



Looking WNW-NW from photo point



Looking NE-ENE from photo point

Knockbarrie location 34 NN 97549 61926

Photo panorama showing dry and wet heath, blanket bog and flush habitats.



Looking N to photo point



Looking E-ESE from photo point

Knockbarrie location 34 (cont.)



Looking SSE from photo point



Looking WNW-NW from photo point



Looking SSW from photo point

Knockbarrie location 35 NN 98059 62173
Photo panorama taken in dry heath on hilltop.



Looking NNE to photo point



Looking WSW-W from photo point



Looking N from photo point

Knockbarrie location 35 (cont.)



Looking NE-ENE from photo point



Looking SSW from photo point



Looking E-ESE from photo point



Looking WSW-W from photo point



Looking SSE from photo point



Looking WNW-NW from photo point

Knockbarrie location 36 NN 98860 61543

Photo panorama showing mainly heath, grassland and flush habitats, and a little blanket bog.



Looking E to photo point



Looking E-ESE from photo point



Looking N from photo point



Looking SSE from photo point



Looking NE-ENE from photo point



Looking SSW from photo point

Knockbarrie location 36 (cont.)



Looking WSW-W from photo point



Looking NE-ENE from photo point



Looking WNW-NW from photo point



Looking E-ESE from photo point

Knockbarrie location 37 NO 00260 61557
Photo panorama taken in area of dry heath.



Looking N from photo point



Looking SSE from photo point

Knockbarrie location 37 (cont.)



Looking SSW from photo point



Looking WSW-W from photo point



Looking WNW-NW from photo point

Knockbarrie location 38 NO 01934 61142

Photo panorama taken in area of dry heath.



Looking N to photo point



Looking N from photo point



Looking NE-ENE from photo point

Knockbarrie location 38 (cont.)



Looking E-ESE from photo point



Looking WSW-W from photo point



Looking SSE from photo point



Looking WNW-NW from photo point

Knockbarrie location 39 NN 99377 62388

Photo panorama from road (passing place) showing mainly wet heath and willows.



Looking SSW from photo point



Looking N from photo point

Knockbarrie location 39 (cont.)



Looking NE-ENE from photo point



Looking SSW from photo point



Looking E-ESE from photo point



Looking WSW-W from photo point



Looking SSE from photo point



Looking WNW-NW from photo point

Knockbarrie location 40 NN 99585 62481

Photo panorama showing mainly dry heath; also some wet heath.



Looking N to photo point (rock)



Looking N from photo point



Looking NE-ENE from photo point



Looking E-ESE from photo point



Looking SSE from photo point



Looking SSW from photo point

Knockbarrie location 40 (cont.)



Looking WSW-W from photo point



Looking N from photo point



Looking WNW-NW from photo point



Looking NE-ENE from photo point

Knockbarrie location 41 NO 00374 62568
Photo panorama taken in area of dry heath.



Looking S to photo point



Looking E-ESE from photo point

Knockbarrie location 41 (cont.)



Looking SSE from photo point



Looking WNW-NW from photo point

Knockbarrie location 42 NO 00526 62795

Photo panorama showing mainly dry and wet heaths.



Looking SSW from photo point



Looking N to photo point



Looking WSW-W from photo point



Looking N from photo point

Knockbarrie location 42 (cont.)



Looking NE-ENE from photo point



Looking SSW from photo point



Looking E-ESE from photo point



Looking WSW-W from photo point



Looking SSE from photo point



Looking WNW-NW from photo point

Knockbarrie location 43 NO 01597 63307

Photo panorama showing mainly dry heath, wet heath, flushes and willows.



Looking N to photo point



Looking N from photo point



Looking NE-ENE from photo point



Looking E-ESE from photo point



Looking SSE from photo point



Looking SSW from photo point

Knockbarrie location 43 (cont.)



Looking WSW-W from photo point



Looking NE-ENE from photo point



Looking WNW-NW from photo point



Looking E-ESE from photo point

Knockbarrie location 44 NO 01216 63072

Photo panorama showing mainly dry heath, wet heath, flushes and willows.



Looking N from photo point



Looking SSE from photo point

Knockbarrie location 44 (cont.)



Looking SSW from photo point



Looking WSW-W from photo point



Looking WNW-NW from photo point

Knockbarrie location 45 NO 01549 63314

Photo panorama showing mainly dry heath; also some grassland.



Looking N from photo point



Looking NE-ENE from photo point



Looking E-ESE from photo point

Knockbarrie location 45 (cont.)



Looking SSE from photo point



Looking WNW-NW from photo point

Knockbarrie location 46 NO 01882 63318

Photo panorama taken in area of wet heath.



Looking SSW from photo point



Looking E to photo point



Looking WSW-W from photo point



Looking N from photo point

Knockbarrie location 46 (cont.)



Looking NE-ENE from photo point



Looking SSW from photo point



Looking E-ESE from photo point



Looking WSW-W from photo point



Looking SSE from photo point



Looking WNW-NW from photo point

Knockbarrie location 47 NN 98243 58610

Small specimen of *Juniperus communis* in H12 heath.



Knockbarrie location 54 NN 97918 62132

Lycopodium annotinum in heath.



Knockbarrie location 50 NN 97825 60057

Looking WSW in area of grassland and heath (NVC CG10+H10d) in which *Calluna vulgaris* cover is about 40-50% with plants mainly 8-30 cm high, heavily browsed and with flowering frequent to abundant.



Knockbarrie location 56 NN 97964 62162

5x5m area of eroded bog; Beinn a' Ghlo visible in distance.



Knockbarrie location 57 NN 98027 62075

Area of eroded peat c15 m long x up to c3 m wide



Rockrose *Helianthemum nummularium* at this location



Knockbarrie location 581 NN 98025 62106

Moss *Pterigynandrum filiforme* on SE side of rock in heath, also showing view of rock from a few metres away.



Knockbarrie location 67 NN 99702 62587

Ranunculus auricomus in M15a flushed wet heath.



Knockbarrie location 68 NN 99791 62608

Eriophorum latifolium in M15a flushed wet heath.



Knockbarrie location 61 NN 99140 60808

Viola lutea in U4a grassland.



Knockbarrie location 69 NN 99986 62626

Galium boreale in M15a flushed wet heath.



Knockbarrie location 71 NO 00712 63289

M10/11/15a flushed/base-enriched area.



Knockbarrie location 73 NO 01268 63064

Looking E to *Carex nigra* mire (MX) with much exposed mud and open water.



Leaf of globeflower (*Trollius europaeus*) at this location

Knockbarrie location 74 NO 01845 63347

Location of the moss *Sphagnum fuscum*: about nine hummocks of this species found here in a small area of M19a bog surrounded by M15 wet heath



Looking W to *Sphagnum fuscum* site



Scottish asphodel (*Tofieldia pusilla*) at this location



Looking E to *Sphagnum fuscum* site



One of the hummocks of *Sphagnum fuscum* at location 74



Closer view of one of the populations

Knockbarrie location 77 NO 01357 61476

Salix herbacea: three patches of this species found at an unusually low altitude (about 552-554 m), in unusually dense vegetation (H12b heath)



Looking ESE upslope to the three populations



Close view showing *Salix herbacea* mixed with *Vaccinium myrtillus*, *V. vitis-idaea*, *Galium saxatile*, *Avenella flexuosa*, *Hylocomium splendens* and *Rhytidadelphus loreus*.



Looking ENE along-slope to the three populations



Close-up view of *Salix herbacea*

Knockbarrie location 78 NO 01275 61955

Gymnocarpium dryopteris locally abundant in H12b heath.



Knockbarrie location 80 NO 00999 61051

Carex bigelowii in H12b heath.



Knockbarrie location 84 NO 01788 61280

Carex bigelowii flowering abundantly in short H12b heath.



Knockbarrie location 83 NO 01528 61138

Looking W to location of *Gymnocarpium dryopteris* and (on rock) moss *Kiaeria blyttii*.



A selection of additional photos of plant species of interest found at Knockbarrie



Yellow saxifrage *Saxifraga aizoides* by a small stream.



Creeping willow *Salix repens* in M15 wet heath



Cloudberry *Rubus chamaemorus* in blanket bog



Chickweed wintergreen *Lysimachia europaea* in heath.



Alpine bistort *Persicaria vivipara* in M15a flushed wet heath.



Low, browsed growth of *Salix aurita* in wet heath



Flushed wet heath with species including *Briza media* and *Persicaria vivipara*.



The moss *Antitrichia curtipendula* on a rock on Carn Dubh



The moss *Sphagnum contortum* in a base-enriched flush *



The moss *Sphagnum russowii* in a flush *

* = photographed at Knockbarrie in October 2024



The moss *Sphagnum squarrosum* in a sedge-moss flush *



The moss *Sphagnum medium* in a bog



The moss *Sphagnum teres* in a sedge-moss flush *



The moss *Breutelia chrysocoma* in a flush *



The moss *Sphagnum warnstorffii* in a sedge-moss flush *

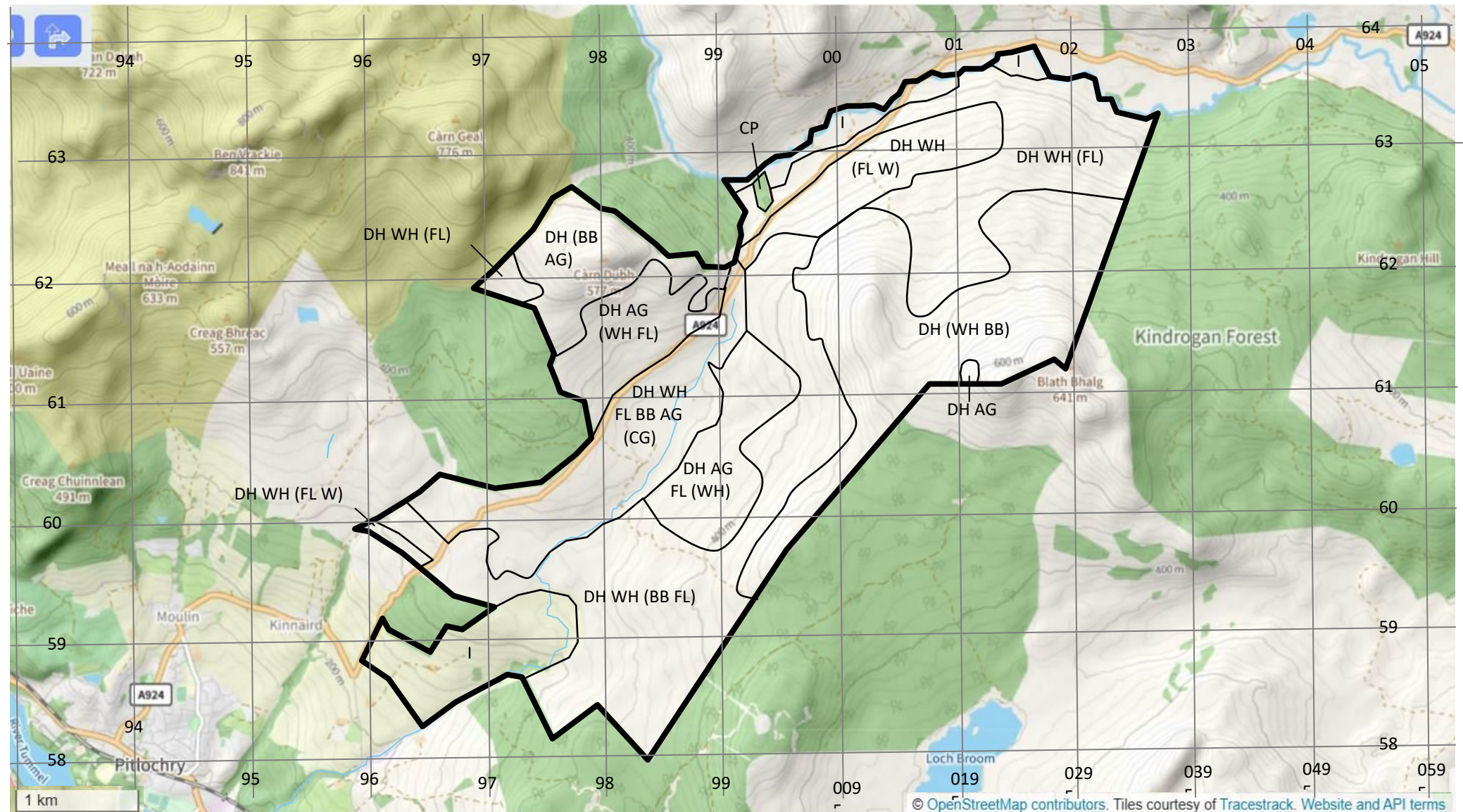
* = photographed at Knockbarrie in October 2024

APPENDIX 4 – MAPS

Map 1	Main subdivisions of the site, based on broad habitat types
Map 2	Botanical monitoring and target note locations
Map 3	Mean number of plant species in each set of five 1m ² quadrats
Map 4	Variation in browsing of <i>Calluna vulgaris</i>
Map 5	Variation in flowering of <i>Calluna vulgaris</i>
Map 6	Variation in browsing of <i>Vaccinium myrtillus</i>
Map 7	Flowering of all vascular plants in quadrats
Map 8	Areas with abundant willows
Map 9	Areas showing evidence of burning, draining and heavy grazing

Map 1 – Knockbarrie, Perthshire: main subdivisions based on broad habitat types observed during monitoring baseline recording in July 2025

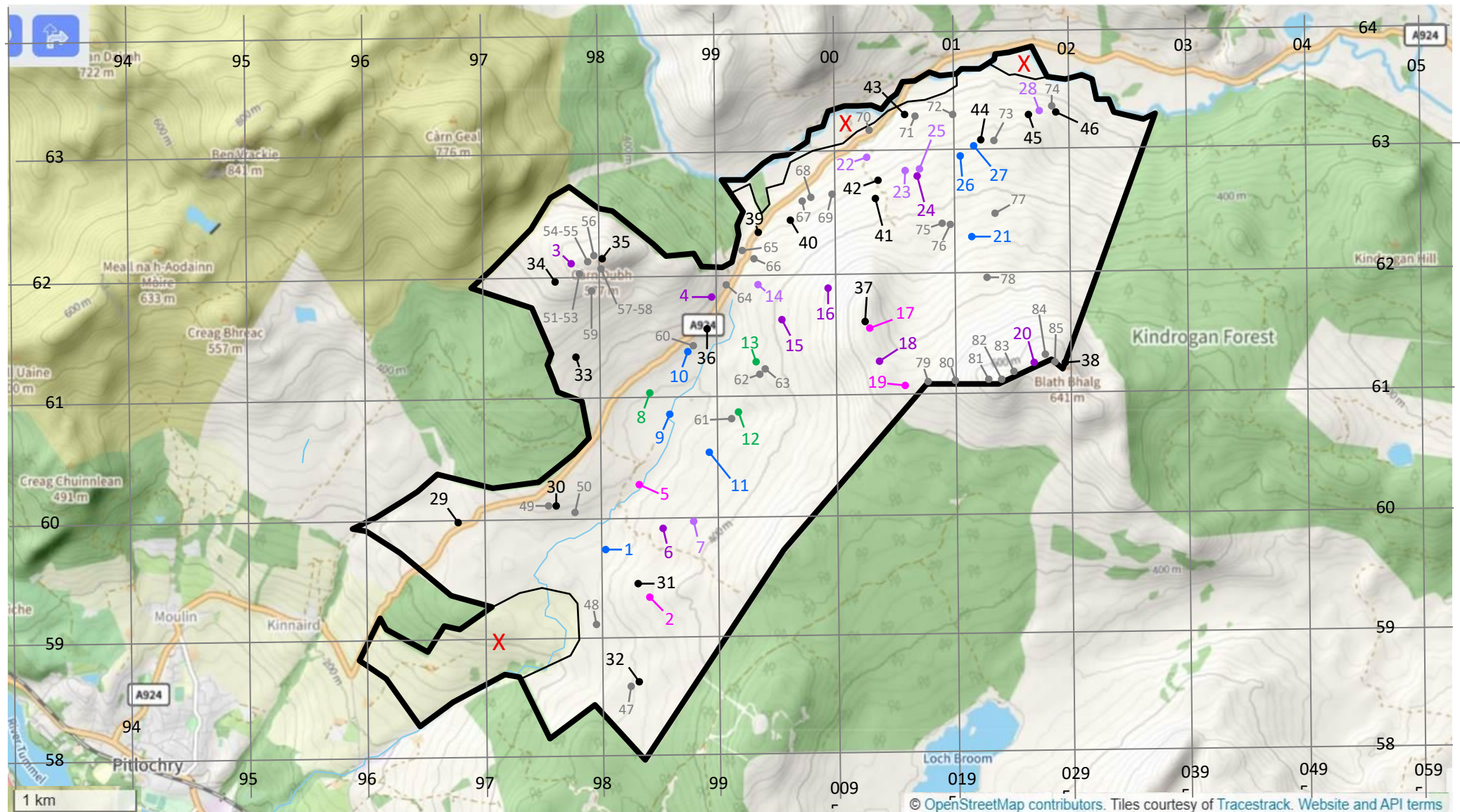
DH = dry heath; WH = wet heath; BB = blanket bog; FL = flushes; AG = acid grassland; CG = calcareous grassland; W = willow woodland/scrub; I = inbye farmland; CP = conifer plantation.
Codes in brackets = minor components of mosaics.



NVC communities: DH = H12b/c + some H10a/d, H12a and H21a; WH = M15a/b; BB = M17 + M19a/c; FL = M4/5/6/8/10/11; AG = U4a(b)/U5/U6. CG = CG10; W = W7; I = mainly U4/MG6.

Map 2 – Knockbarrie, Perthshire: botanical monitoring and target note locations recorded in July 2025

1-28: five 1x1m quadrats recorded + 360° panorama photographed at each location. Colours: dark purple = dry heath; pale purple = wet heath; pink = bog; blue = flush; green = grassland.
29-46: additional 360° panorama locations. **47-84:** additional target note locations, some including photos but not 360° panoramas.

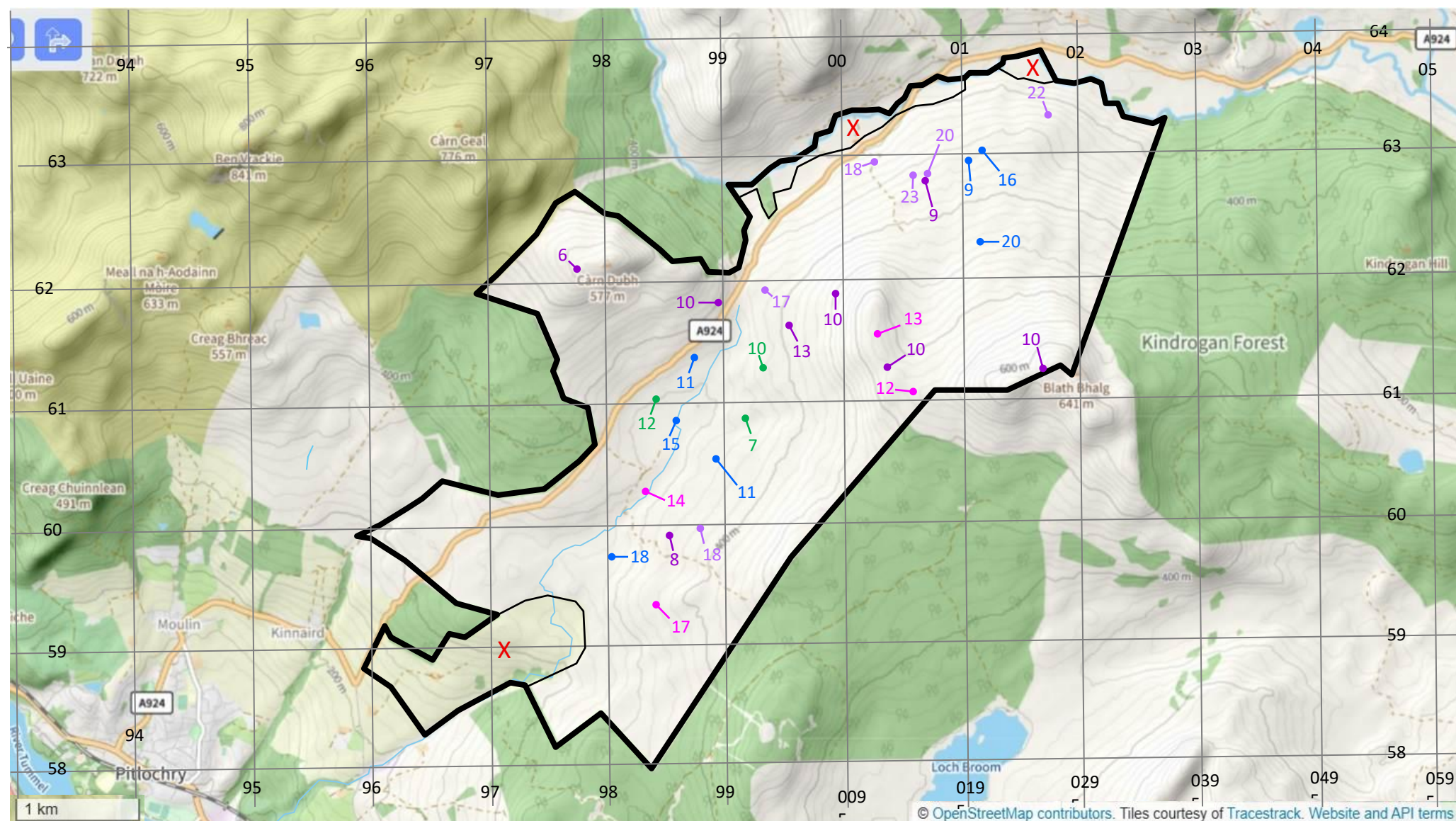


X (in large upper case red font) = inbye and conifer plantation; these areas excluded from monitoring baseline work.

Map 3 – Knockbarrie, Perthshire: mean number of plant species per 1m² quadrat in July 2025.

Colours: dark purple = dry heath (mean of 9.5 spp/quadrat); pale purple = wet heath (19.67 spp/q); pink = bog (13.75 spp/q); blue = flush (13.77 spp/q); green = grassland (11.27 spp/q).

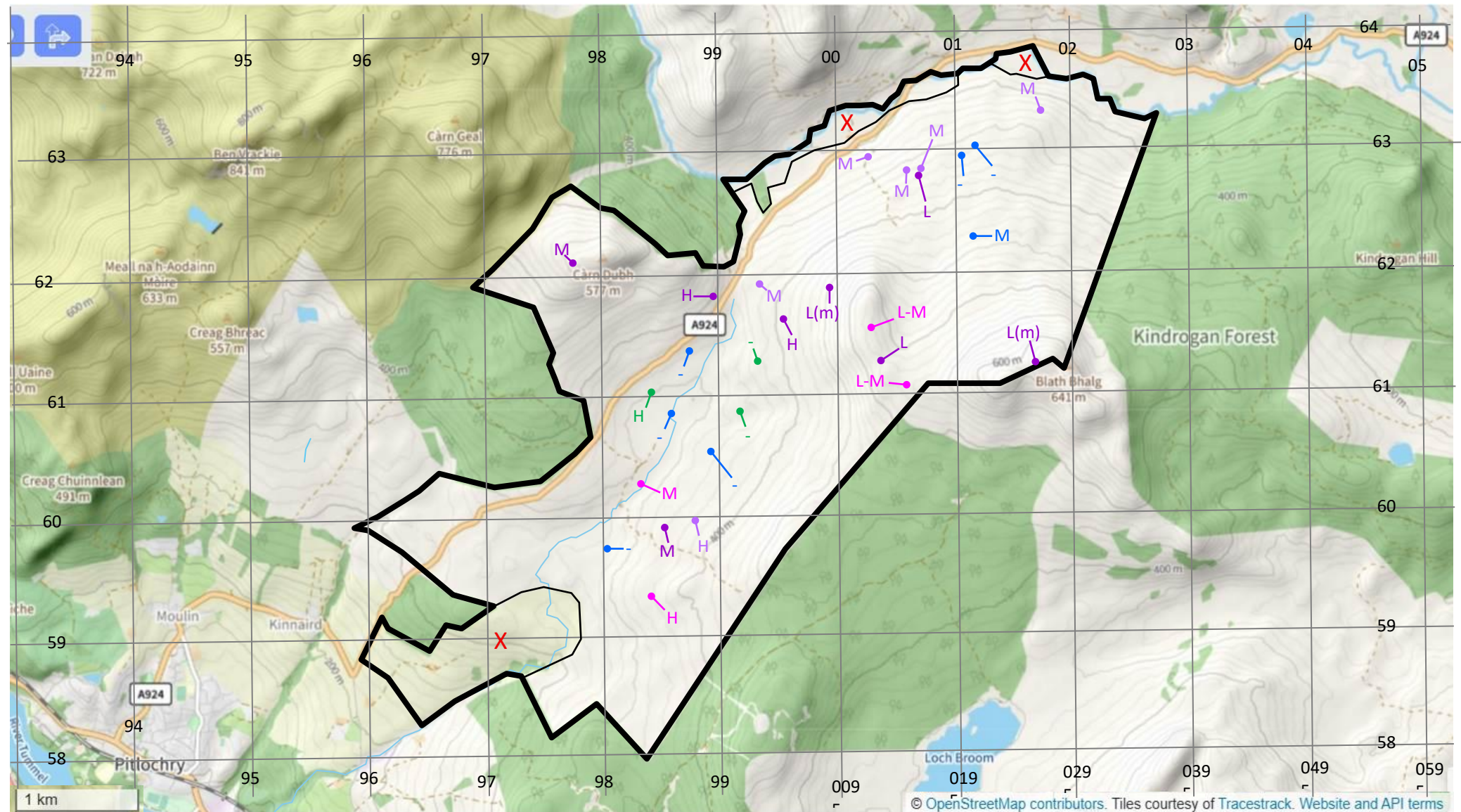
Numbers on map: rounded to nearest whole number for purpose of visual presentation. Numbers in list above: calculated from raw data with no rounding of numbers.



X (in large upper case red font) = inbye and conifer plantation; these areas excluded from monitoring baseline work.

Map 4 – Knockbarrie, Perthshire: browsing of *Calluna vulgaris* recorded in quadrats in July 2025

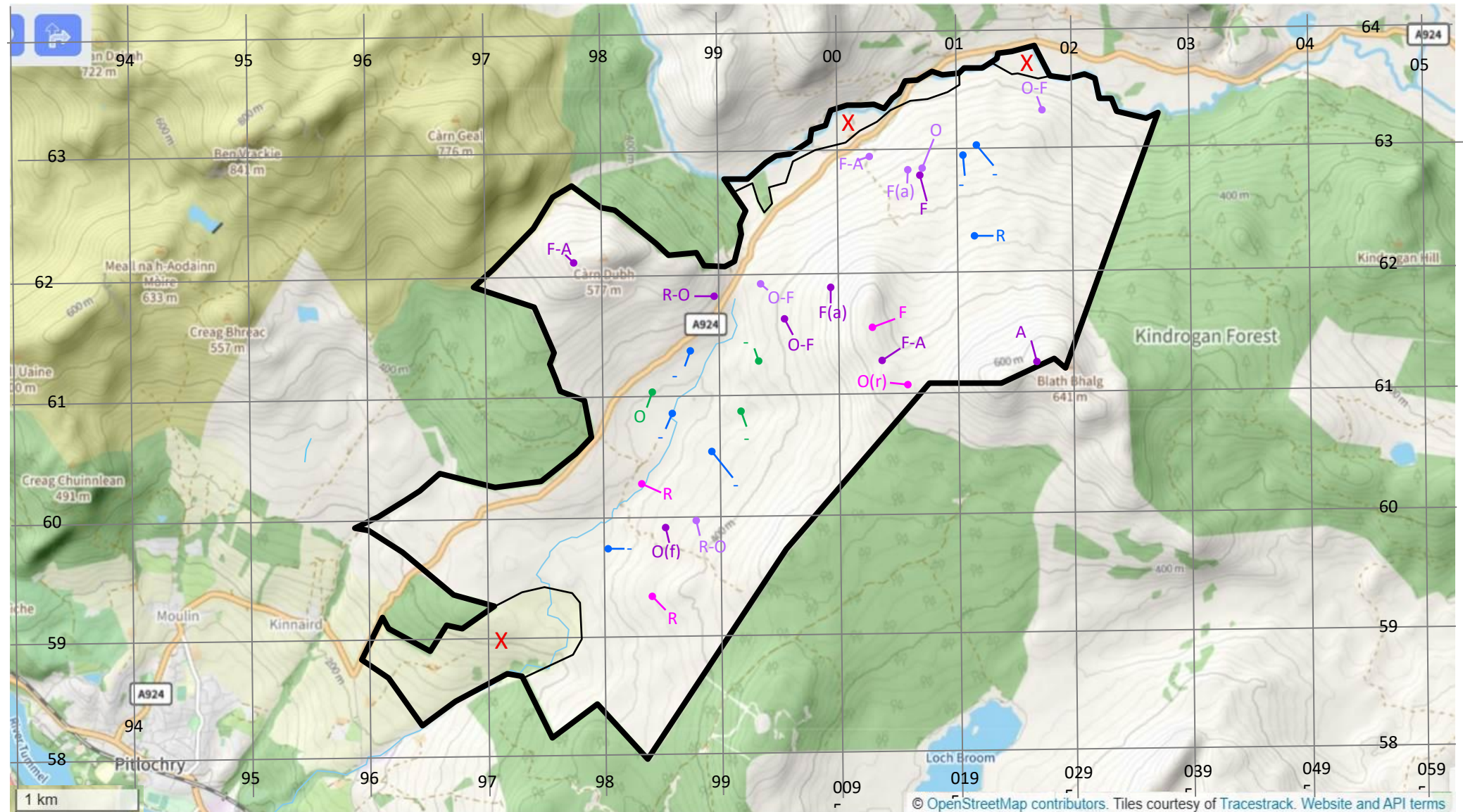
Intensity codes: L = low; M = medium; H = high; - = no *Calluna* in quadrats. Habitat colour codes: dark purple = dry heath; pale purple = wet heath; pink = bog; blue = flush; green = grassland.



X (in large upper case red font) = inbye and conifer plantation; these areas excluded from monitoring baseline work.

Map 5– Knockbarrie, Perthshire: flowering of *Calluna vulgaris* recorded in quadrats in July 2025

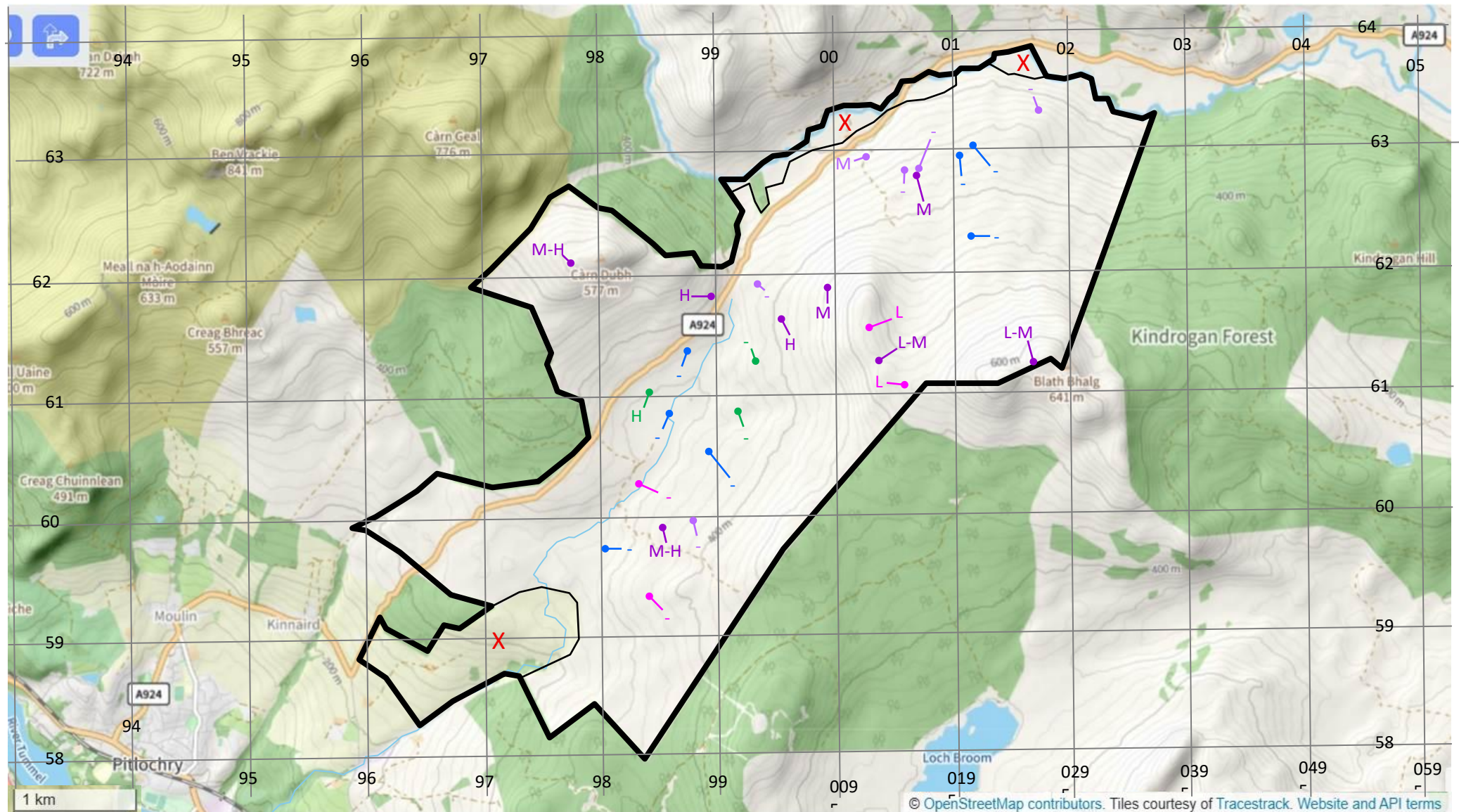
Codes: R = rare; O = occasional; F = frequent; A = abundant; - = no *Calluna* in quadrats. Habitat colours: dark purple = dry heath; pale purple = wet heath; pink = bog; blue = flush; green = grassland.



X (in large upper case red font) = inbye and conifer plantation; these areas excluded from monitoring baseline work.

Map 6 – Knockbarrie, Perthshire: browsing of *Vaccinium myrtillus* recorded in quadrats in July 2025

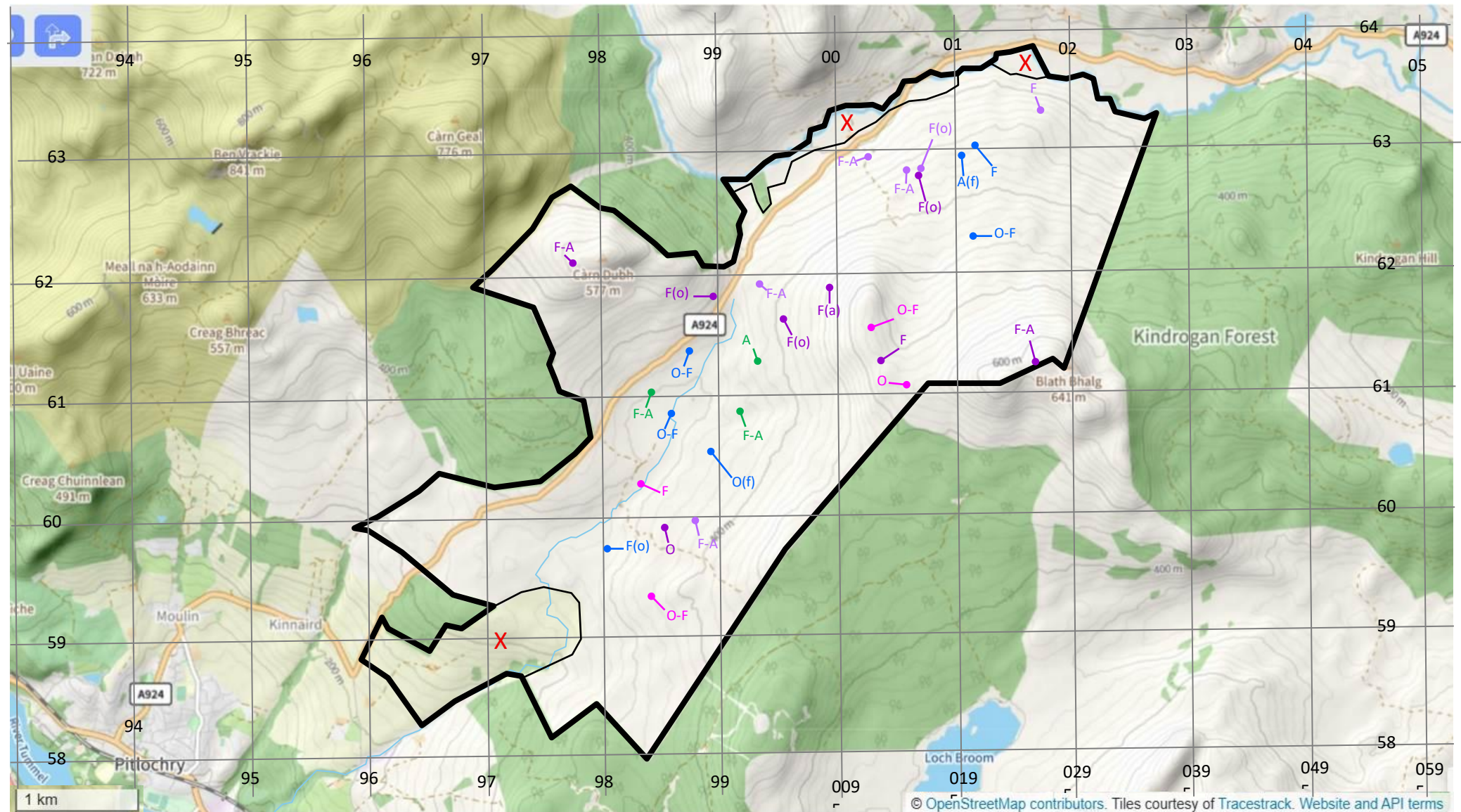
Intensity codes: L = low; M = medium; H = high; - = no *V. myrtillus* in quadrats. Habitat colours: dark purple = dry heath; pale purple = wet heath; pink = bog; blue = flush; green = grassland.



X (in large upper case red font) = inbye and conifer plantation; these areas excluded from monitoring baseline work.

Map 7 – Knockbarrie, Perthshire: overall flowering of vascular plants in quadrats at botanical monitoring locations recorded in July 2025

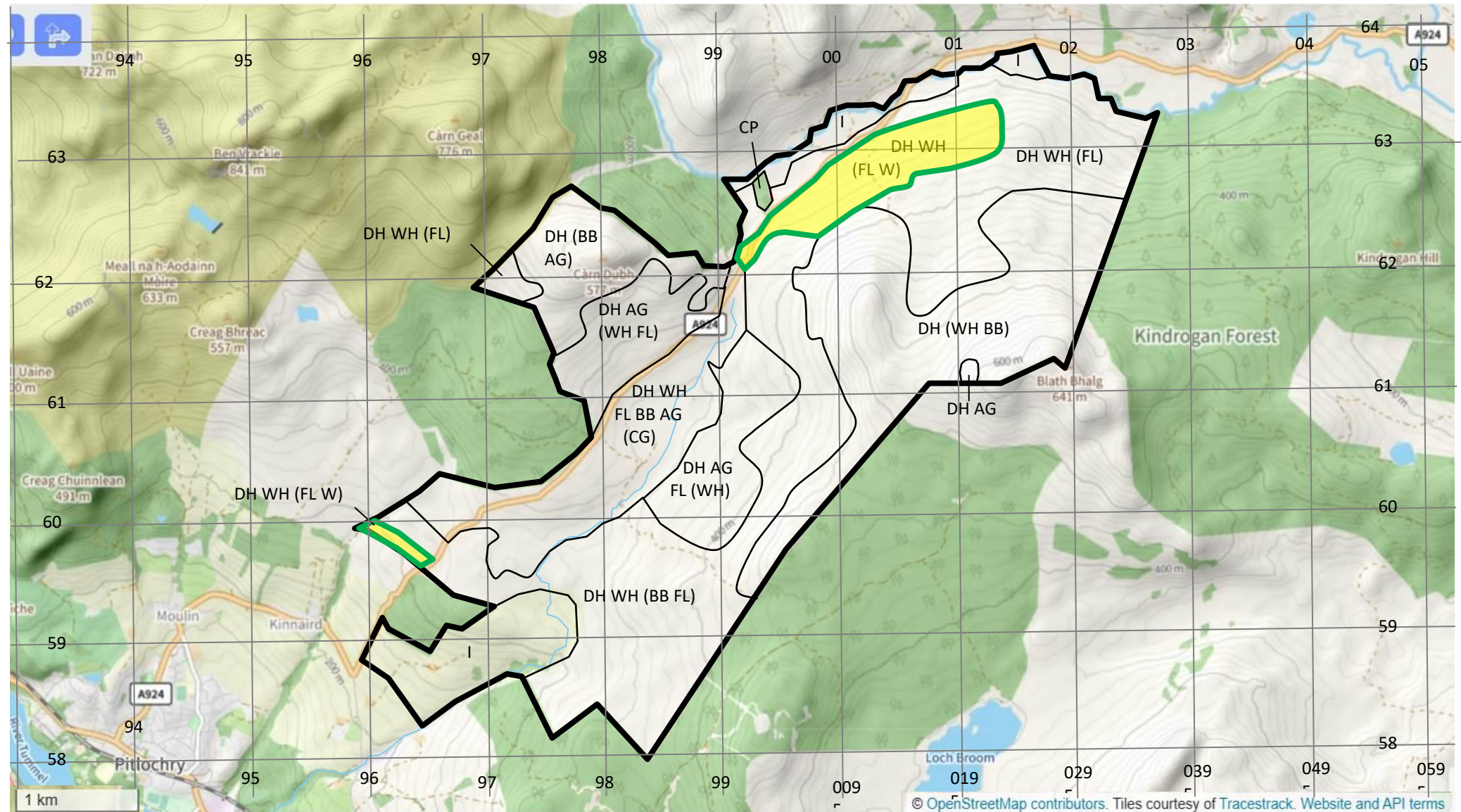
Colours: dark purple = dry heath; pale purple = wet heath; pink = bog; blue = flush; green = grassland.



X (in large upper case red font) = inbye and conifer plantation; these areas excluded from monitoring baseline work.

Map 8 – Knockbarrie, Perthshire: areas with abundant willows

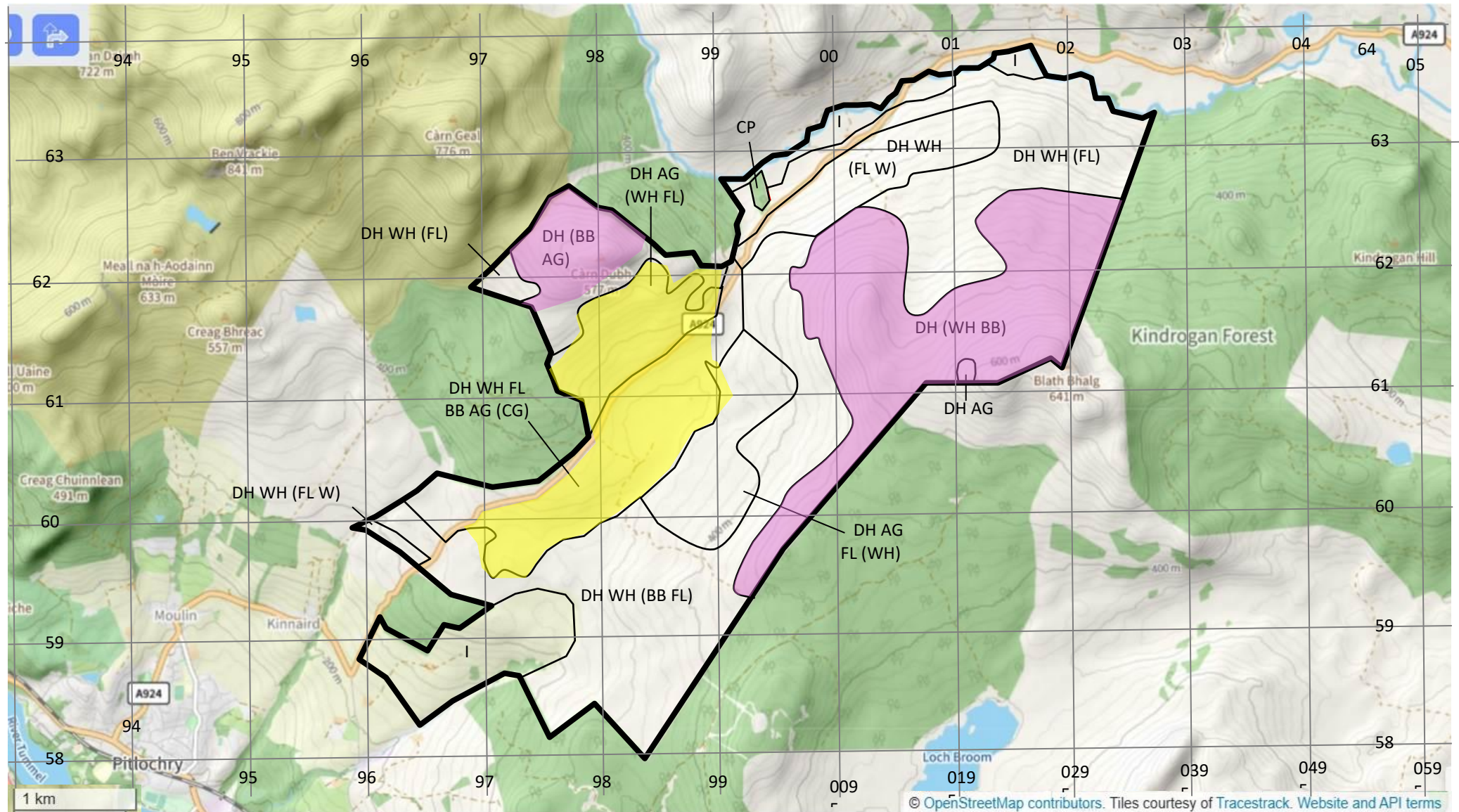
Habitat codes: DH = dry heath; WH = wet heath; BB = blanket bog; FL = flushes; AG = acid grassland; CG = calcareous grassland; W = willow woodland/scrub; I = inbye farmland; CP = conifer plantation. Codes in brackets = minor components of mosaics. NVC communities: DH = H12b/c + some H10a/d, H12a and H21a; WH = M15a/b; BB = M17 + M19a/c; FL = M4/5/6/8/10/11; AG = U4a(b)/U5/U6. CG = CG10; W = W7; I = mainly U4/MG6.



NVC communities: DH = H12b/c + some H10a/d, H12a and H21a; WH = M15a/b; BB = M17 + M19a/c; FL = M4/5/6/8/10/11; AG = U4a(b)/U5/U6. CG = CG10; W = W7; I = mainly U4/MG6.

Map 10 – Knockbarrie, Perthshire: broad habitat map + colours to show approximate areas appearing from this survey to be most and least heavily grazed

Purple = appears least heavily grazed: mainly dry heath with tall, dense heather. **Yellow** = appears most heavily grazed: vegetation acid grassland, flush and heavily-grazed heath.



Habitat codes: DH = dry heath; WH = wet heath; BB = blanket bog; FL = flushes; AG = acid grassland; CG = calcareous grassland; W = willow woodland/scrub; I = inbye farmland; CP = conifer plantation. Codes in brackets = minor components of mosaics. NVC communities: DH = H12b/c + some H10a/d, H12a and H21a; WH = M15a/b; BB = M17 + M19a/c; FL = M4/5/6/8/10/11; AG = U4a(b)/U5/U6. CG = CG10; W = W7; I = mainly U4/MG6.