

The forest indicator species were first published in the following report:

## Review of grassland habitats and development of distribution maps of heathland, scrub and tundra habitats of EUNIS habitats classification

*Report EEA/NSV/15/005*

This is the relevant sections extracted from the report:

4.3 Update of indicator species of the revised EUNIS woodland habitat types

**Appendix D:** Lists of indicator species of the revised woodland habitat types

### **4.3 Update of indicator species of the revised EUNIS woodland habitat types**

The new approach developed to define indicator species of heathland, scrub and tundra habitats was also applied to woodlands. The expert system for EUNIS woodland habitats developed in a previous report (Schaminée et al. 2014) was refined, using the updated species groups and new software functions developed for the work on heathlands/scrub/tundra. Based on this, refined classification of woodlands was prepared and diagnostic, constant and dominant species were also computed for woodlands. This new species list represents a substantial improvement of the species list for woodlands developed by Schaminée et al. (2013) and can replace it.

The stratified dataset for woodland habitat types contained 37,988 plots belonging to the types of group G and 253,405 plots belonging to other habitat types. The startifed dataset for coastal woodlands contained 559 plots belonging to these habitat types and 242,571 plots belonging to other types.

The resulting lists of indicator species for EUNIS woodland habitat types, including diagnostic, constant and dominant species, are presented in Appendix D. After excluding a few habitat types for which no or less than 10 vegetation plots were available, indicator species were defined for the following 40 woodland habitat types:

B1.7a	Atlantic and Baltic broad-leaved coastal dune woodland
B1.7c	Baltic coniferous coastal dune woodland
B1.7d	Mediterranean coniferous coastal dune woodland
G1.1	Temperate and boreal softwood riparian woodland
G1.2a	Alnus woodland on riparian and mineral soils
G1.2b	Temperate and boreal hardwood riparian woodland
G1.3	Mediterranean and Macaronesian riparian woodland
G1.4	Broadleaved swamp woodland on non-acid peat
G1.5	Broadleaved bog woodland on acid peat
G1.6a	Fagus woodland on non-acid soils
G1.6b	Fagus woodland on acid soils
G1.7a	Temperate and submediterranean thermophilous deciduous woodland
G1.7b	Mediterranean thermophilous deciduous woodland
G1.8	Acidophilous Quercus woodland
G1.9a	Boreal-nemoral mountain Betula and Populus tremula woodland on mineral soils
G1.9b	Mediterranean mountain Betula and Populus tremula woodland on mineral soils
G1.Aa	Carpinus and Quercus mesic deciduous woodland
G1.Ab	Ravine woodland
G1.Ba	Alnus cordata woodland

G2.1	Mediterranean evergreen Quercus woodland
G2.2	Mainland laurophylloous woodland
G2.3	Macaronesian laurophylloous woodland
G2.5a	South-Aegean Phoenix grove
G2.6	<i>Ilex aquifolium</i> woodland
G3.1a	Temperate mountain <i>Picea</i> woodland
G3.1b	Temperate mountain <i>Abies</i> woodland
G3.1c	Mediterranean mountain <i>Abies</i> woodland
G3.2-3	Temperate subalpine <i>Larix</i> , <i>Pinus cembra</i> and <i>Pinus uncinata</i> woodland
G3.4a	Temperate and continental <i>Pinus sylvestris</i> woodland
G3.4b	Temperate and submediterranean montane <i>Pinus sylvestris-nigra</i> woodland
G3.4c	Mediterranean montane <i>Pinus sylvestris-nigra</i> woodland
G3.6	Mediterranean and Balkan subalpine <i>Pinus heldreichii-peuce</i> woodland
G3.7	Mediterranean lowland to submontane <i>Pinus</i> woodland
G3.9a	<i>Taxus baccata</i> woodland
G3.9b	Mediterranean Cupressaceae woodland
G3.A	<i>Picea taiga</i> woodland
G3.B	<i>Pinus sylvestris</i> taiga woodland
G3.C	<i>Larix sibirica</i> taiga woodland
G3.Da	<i>Pinus</i> bog woodland
G3.Db	<i>Picea</i> bog woodland

In contrast, due to lack of data, indicator species could not be defined for the following 13 habitat types:

B1.7b	Black Sea broad-leaved coastal dune woodland
G1.C	Highly artificial broadleaved deciduous forestry plantations
G1.D	Fruit and nut tree orchards
G2.4	<i>Olea europaea-Ceratonia siliqua</i> woodland
G2.5b	Canarian Phoenix grove
G2.7	Macaronesian heathy woodland
G2.8	Highly artificial broadleaved evergreen forestry plantations
G2.9	Evergreen orchards and groves
G3.4d	Mediterranean montane <i>Cedrus</i> woodland
G3.8	<i>Pinus canariensis</i> woodland
G3.9c	Macaronesian <i>Juniperus</i> woodland
G3.Dc	<i>Larix sibirica</i> bog woodland
G3.F	Highly artificial coniferous plantations

## **Appendix D: Revised lists of indicator species of the revised EUNIS woodland habitat types**

### **B1.7a - Atlantic and Baltic broad-leaved coastal dune woodland**

*Diagnostic species (phi coefficient \* 100)*

<i>Cynoglossum officinale</i>	48.0	<i>Senecio sylvaticus</i>	38.0
<i>Lonicera periclymenum</i>	37.6	<i>Aulacomnium androgynum</i>	37.6
<i>Moehringia trinervia</i>	37.0	<i>Carex arenaria</i>	36.1
<i>Rubus caesius</i>	36.0	<i>Calamagrostis epigejos</i>	33.4
<i>Bryonia cretica</i>	32.0	<i>Brachythecium rutabulum</i>	31.5
<i>Kindbergia praelonga</i>	30.9	<i>Quercus robur</i>	29.0
<i>Lophocolea heterophylla</i>	28.9	<i>Rosa rubiginosa</i>	27.6
<i>Crataegus monogyna</i>	27.0	<i>Ligustrum vulgare</i>	26.8
<i>Rhynchosstegium megapolitanum</i>	21.9	<i>Euonymus europaeus</i>	21.6
<i>Plagiomnium affine</i>	21.2	<i>Pinus pinaster</i>	21.0
<i>Urtica dioica</i>	20.8	<i>Rosa canina agg.</i>	20.6
<i>Rosa pimpinellifolia</i>	20.3	<i>Bryum capillare</i>	20.2
<i>Cardamine hirsuta</i>	19.7	<i>Dicranum scoparium</i>	19.6
<i>Mnium hornum</i>	19.5	<i>Sambucus nigra</i>	19.3
<i>Hippophae rhamnoides</i>	18.6	<i>Prunus serotina</i>	18.1
<i>Ribes rubrum</i>	17.9	<i>Festuca filiformis</i>	17.9
<i>Geum urbanum</i>	17.8	<i>Hypnum cupressiforme</i>	17.2
<i>Hypnum jutlandicum</i>	17.0	<i>Rhamnus catharticus</i>	16.4
<i>Populus alba</i>	16.4	<i>Polypodium vulgare</i>	16.2
<i>Stellaria pallida</i>	16.0	<i>Senecio jacobaea</i>	15.8
<i>Veronica officinalis</i>	15.5	<i>Pseudoscleropodium purum</i>	15.5
<i>Polygonatum odoratum</i>	15.4	<i>Teucrium scorodonia</i>	15.2
<i>Arctium minus s.l.</i>	15.2		

*Constant species (occurrence frequencies)*

<i>Crataegus monogyna</i>	72.0	<i>Quercus robur</i>	70.0
<i>Urtica dioica</i>	67.0	<i>Rubus caesius</i>	67.0
<i>Lonicera periclymenum</i>	66.0	<i>Calamagrostis epigejos</i>	64.0
<i>Brachythecium rutabulum</i>	60.0	<i>Moehringia trinervia</i>	54.0
<i>Carex arenaria</i>	50.0	<i>Ligustrum vulgare</i>	48.0
<i>Poa pratensis</i>	45.0	<i>Kindbergia praelonga</i>	43.0
<i>Geum urbanum</i>	40.0	<i>Cynoglossum officinale</i>	39.0
<i>Dicranum scoparium</i>	38.0	<i>Rosa canina agg.</i>	37.0
<i>Hypnum cupressiforme</i>	36.0	<i>Euonymus europaeus</i>	36.0
<i>Sorbus aucuparia</i>	33.0	<i>Sambucus nigra</i>	32.0
<i>Galium aparine</i>	32.0	<i>Senecio jacobaea</i>	31.0
<i>Veronica officinalis</i>	29.0	<i>Senecio sylvaticus</i>	28.0
<i>Pseudoscleropodium purum</i>	28.0	<i>Plagiomnium affine</i>	28.0
<i>Luzula campestris</i>	28.0	<i>Geranium robertianum</i>	28.0
<i>Glechoma hederacea</i>	24.0	<i>Teucrium scorodonia</i>	23.0

Polygonatum odoratum	23.0	Festuca rubra	23.0
Poa trivialis	22.0	Mnium hornum	22.0
Acer pseudoplatanus	22.0	Bryonia cretica	20.0
Agrostis capillaris	20.0	Polypodium vulgare	19.0
Lophocolea heterophylla	19.0	Aulacomnium androgynum	19.0
Solanum dulcamara	18.0	Rhamnus catharticus	18.0
Rosa rubiginosa	17.0	Hypnum jutlandicum	17.0
Holcus lanatus	17.0	Galium verum	16.0
Stellaria media	15.0	Silene dioica	15.0
Rosa pimpinellifolia	15.0	Hedera helix	15.0
Prunus serotina	14.0	Festuca filiformis	14.0
Cirsium vulgare	14.0	Betula pendula	14.0
Ajuga reptans	14.0	Viburnum opulus	13.0
Rubia peregrina	13.0	Pinus pinaster	13.0
Lophocolea bidentata	13.0	Dryopteris dilatata	13.0
Betula pubescens	13.0	Cardamine hirsuta	12.0
Bryum capillare	12.0	Taraxacum sect. Ruderalia	11.0
Ribes rubrum	11.0	Populus nigra	11.0
Polytrichastrum formosum	11.0	Hippophae rhamnoides	11.0
Galium mollugo	11.0	Berberis vulgaris	11.0
Alliaria petiolata	11.0	Ulex europaeus	10.0
Rubus fruticosus agg.	10.0	Fallopia convolvulus	10.0
Eupatorium cannabinum	10.0	Dryopteris filix-mas	10.0
Atrichum undulatum	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Quercus robur	51.0	Crataegus monogyna	15.0
Populus nigra	10.0	Quercus ilex	7.0
Calamagrostis epigejos	7.0	Quercus suber	6.0
Populus alba	6.0		

**B1.7c - Baltic coniferous coastal dune woodland**

*Diagnostic species (phi coefficient \* 100)*

Dicranum undulatum	74.6	Empetrum nigrum	64.5
Goodyera repens	61.8	Carex arenaria	54.7
Listera cordata	51.4	Pleurozium schreberi	48.9
Pseudoscleropodium purum	47.0	Pinus sylvestris	42.8
Hylocomium splendens	42.5	Moneses uniflora	42.3
Vaccinium vitis-idaea	41.5	Melampyrum pratense	35.5
Dicranum scoparium	31.8	Deschampsia flexuosa	31.4
Cladonia chlorophaea	31.0	Cladonia portentosa	29.1
Cladonia arbuscula	27.9	Salix repens	27.8
Calluna vulgaris	27.8	Cladonia ciliata	27.4
Polypodium vulgare	27.3	Dicranum polysetum	26.6
Cladonia rangiferina	26.6	Ptilium crista-castrensis	25.7
Hypnum jutlandicum	25.4	Linnaea borealis	23.4

Betula pendula	23.0	Luzula pilosa	22.9
Trientalis europaea	22.6	Monotropa hypopitys	21.8
Peltigera polydactyla	21.4	Pyrola chlorantha	20.9
Luzula multiflora	20.6	Cladonia gracilis	20.5
Cladonia glauca	20.2	Hieracium umbellatum	19.7
Lycopodium annotinum	19.1	Brachythecium starkei	18.8
Viola tricolor subsp. maritima	18.5	Cladonia mitis	18.4
Quercus robur	17.9	Cladonia furcata	17.8
Lycopodium clavatum	17.6	Juncus balticus	17.6
Vaccinium myrtillus	17.5	Juniperus communis subsp. communis	17.5
Vaccinium uliginosum	16.2	Chimaphila umbellata	15.9
Sorbus aucuparia	15.4		

*Constant species (occurrence frequencies)*

Pinus sylvestris	100.0	Pleurozium schreberi	93.0
Pseudoscleropodium purum	87.0	Empetrum nigrum	81.0
Carex arenaria	81.0	Deschampsia flexuosa	80.0
Vaccinium vitis-idaea	74.0	Hylocomium splendens	72.0
Calluna vulgaris	71.0	Dicranum undulatum	65.0
Dicranum scoparium	61.0	Melampyrum pratense	56.0
Betula pendula	52.0	Goodyera repens	48.0
Vaccinium myrtillus	46.0	Quercus robur	45.0
Sorbus aucuparia	40.0	Luzula multiflora	36.0
Luzula pilosa	35.0	Polypodium vulgare	33.0
Listera cordata	32.0	Juniperus communis subsp. communis	32.0
Salix repens	30.0	Hieracium umbellatum	28.0
Hypnum jutlandicum	27.0	Cladonia arbuscula	27.0
Cladonia portentosa	25.0	Trientalis europaea	24.0
Frangula alnus	24.0	Anthoxanthum odoratum	24.0
Moneses uniflora	23.0	Maianthemum bifolium	23.0
Cladonia chlorophaea	23.0	Cladonia rangiferina	22.0
Dryopteris carthusiana	21.0	Vaccinium uliginosum	20.0
Dicranum polysetum	18.0	Picea abies	17.0
Rhytidadelphus triquetrus	16.0	Ptilium crista-castrensis	15.0
Cladonia furcata	15.0	Cladonia gracilis	14.0
Linnaea borealis	13.0	Populus tremula	11.0
Orthilia secunda	11.0	Monotropa hypopitys	11.0
Lycopodium annotinum	11.0	Cladonia ciliata	11.0
Pohlia nutans	10.0	Erica tetralix	10.0
Cladonia mitis	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Pinus sylvestris	99.0	Pseudoscleropodium purum	58.0
Pleurozium schreberi	51.0	Empetrum nigrum	30.0
Deschampsia flexuosa	27.0	Calluna vulgaris	24.0
Vaccinium vitis-idaea	18.0	Hylocomium splendens	15.0

Vaccinium myrtillus	8.0	Carex arenaria	8.0
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#### B1.7d - Mediterranean coniferous coastal dune woodland

##### Diagnostic species (phi coefficient \* 100)

Pinus halepensis	78.9	Asparagus acutifolius	57.9
Rosmarinus officinalis	57.1	Quercus coccifera	51.6
Rubia peregrina	49.8	Juniperus oxycedrus	49.3
Phillyrea angustifolia	48.9	Staehelina dubia	48.8
Polygala rupestris	43.1	Daphne gnidium	42.9
Juniperus phoenicea	42.0	Carex hallerana	40.9
Cneorum tricoccon	40.0	Rhamnus alaternus	39.9
Brachypodium retusum	39.7	Smilax aspera	34.9
Lonicera implexa	34.4	Leuzea conifera	33.7
Ononis minutissima	33.4	Pistacia lentiscus	32.5
Fumana ericophylla	32.0	Cistus monspeliensis	31.7
Thymus vulgaris	29.9	Piptatherum miliaceum	29.7
Clematis flammula	29.4	Genista scorpius	29.1
Phillyrea latifolia	28.6	Bupleurum fruticosum	27.1
Prasium majus	26.0	Avenula bromoides	24.9
Aphyllanthes monspeliensis	24.6	Cistus incanus	23.7
Tamarix gallica	23.5	Aethorhiza bulbosa	23.5
Pinus pinea	22.3	Argyrolobium zanonii	22.1
Ulex parviflorus	22.0	Asphodelus cerasiferus	21.4
Quercus ilex	20.2	Myoporum tenuifolium	20.1
Lavandula latifolia	20.0	Centranthus calcitrapae	19.8
Acacia cyanophylla	19.7	Myrtus communis	19.3
Helianthemum sessiliflorum	19.2	Acacia saligna	19.0
Ranunculus macrophyllus	18.4	Astragalus massiliensis	18.4
Quercus suber	18.1	Cistus salvifolius	16.7
Lavandula stoechas	16.6	Helianthemum guttatum	16.6
Helianthemum pilosum	16.4	Erica multiflora	16.3
Serapias vomeracea	15.6	Erica arborea	15.5
Globularia alypum	15.3	Geranium rotundifolium	15.1

##### Constant species (occurrence frequencies)

Pinus halepensis	88.0	Rubia peregrina	78.0
Asparagus acutifolius	76.0	Rosmarinus officinalis	59.0
Quercus coccifera	57.0	Juniperus oxycedrus	57.0
Brachypodium retusum	49.0	Phillyrea angustifolia	45.0
Carex hallerana	43.0	Staehelina dubia	37.0
Smilax aspera	37.0	Daphne gnidium	37.0
Rhamnus alaternus	35.0	Pistacia lentiscus	35.0
Juniperus phoenicea	35.0	Thymus vulgaris	33.0
Lonicera implexa	29.0	Phillyrea latifolia	27.0
Cistus monspeliensis	24.0	Quercus ilex	22.0
Ononis minutissima	22.0	Hieracium pilosella	22.0

Genista scorpius	22.0	Fumana ericophylla	22.0
Clematis flammula	22.0	Polygala rupestris	20.0
Leuzea conifera	20.0	Aphyllanthes monspeliensis	20.0
Piptatherum miliaceum	18.0	Cneorum tricoccon	18.0
Cistus incanus	18.0	Avenula bromoides	18.0
Teucrium polium	16.0	Prasium majus	16.0
Eryngium campestre	16.0	Sanguisorba minor	14.0
Erica arborea	14.0	Cistus salvifolius	14.0
Argyrolobium zanonii	14.0	Aethorhiza bulbosa	14.0
Ruscus aculeatus	12.0	Myrtus communis	12.0
Lavandula latifolia	12.0	Dorycnium pentaphyllum	12.0
Ulex parviflorus	10.0	Quercus suber	10.0
Lavandula stoechas	10.0	Festuca ovina	10.0
Bupleurum fruticosum	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Pinus halepensis	82.0	Juniperus oxycedrus	20.0
Brachypodium retusum	14.0	Rosmarinus officinalis	12.0
Staehelina dubia	10.0	Pinus pinea	8.0
Erica multiflora	8.0	Erica arborea	8.0
Asparagus acutifolius	8.0	Pistacia lentiscus	6.0

**G1.1 - Temperate and boreal softwood riparian woodland**

*Diagnostic species (phi coefficient \* 100)*

Salix alba	53.1	Salix fragilis	37.5
Populus nigra	36.1	Populus alba	30.6
Rubus caesius	22.8	Humulus lupulus	22.3
Salix purpurea	20.5	Urtica dioica	20.1
Calystegia sepium	19.4	Salix triandra	19.1
Impatiens glandulifera	16.9	Symphytum officinale	16.7
Solanum dulcamara	16.5	Phalaris arundinacea	16.3
Salix viminalis	16.2	Galium aparine	16.1
Salix x rubens	15.1		

*Constant species (occurrence frequencies)*

Urtica dioica	69.0	Salix alba	57.0
Rubus caesius	44.0	Galium aparine	44.0
Phalaris arundinacea	34.0	Populus nigra	32.0
Glechoma hederacea	32.0	Poa trivialis	31.0
Calystegia sepium	31.0	Salix fragilis	30.0
Sambucus nigra	27.0	Humulus lupulus	27.0
Solanum dulcamara	26.0	Ranunculus repens	26.0
Cornus sanguinea	25.0	Symphytum officinale	24.0
Crataegus monogyna	22.0	Alnus glutinosa	22.0
Populus alba	21.0	Lycopus europaeus	20.0
Brachypodium sylvaticum	20.0	Aegopodium podagraria	20.0

Phragmites australis	18.0	Lythrum salicaria	18.0
Lysimachia vulgaris	18.0	Iris pseudacorus	18.0
Fraxinus excelsior	18.0	Salix purpurea	17.0
Geum urbanum	17.0	Angelica sylvestris	17.0
Agrostis stolonifera	17.0	Ulmus minor	15.0
Hedera helix	15.0	Filipendula ulmaria	15.0
Dactylis glomerata	15.0	Lysimachia nummularia	14.0
Lamium maculatum	14.0	Heracleum sphondylium	14.0
Euonymus europaeus	14.0	Anthriscus sylvestris	14.0
Alliaria petiolata	14.0	Rumex obtusifolius	13.0
Clematis vitalba	13.0	Salix triandra	12.0
Impatiens noli-tangere	12.0	Festuca gigantea	12.0
Stachys palustris	11.0	Ranunculus ficaria	11.0
Ligustrum vulgare	11.0	Galium palustre	11.0
Fraxinus angustifolia	11.0	Equisetum arvense	11.0
Stellaria media	10.0	Stachys sylvatica	10.0
Poa palustris	10.0	Myosoton aquaticum	10.0
Mentha aquatica	10.0	Impatiens glandulifera	10.0
Cirsium arvense	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Salix alba	45.0	Urtica dioica	23.0
Salix fragilis	21.0	Populus nigra	18.0
Populus alba	13.0	Rubus caesius	9.0
Phalaris arundinacea	6.0		

**G1.2a - Alnus woodland on riparian and mineral soils**

*Diagnostic species (phi coefficient \* 100)*

Alnus glutinosa	42.9	Alnus incana	24.6
Carex remota	19.5	Stachys sylvatica	18.2
Impatiens noli-tangere	17.9	Festuca gigantea	16.8
Urtica dioica	16.5	Chrysosplenium alternifolium	16.4
Chaerophyllum hirsutum	15.9	Athyrium filix-femina	15.8
Cardamine amara	15.5	Fraxinus excelsior	15.1

*Constant species (occurrence frequencies)*

Alnus glutinosa	85.0	Urtica dioica	58.0
Fraxinus excelsior	47.0	Filipendula ulmaria	41.0
Athyrium filix-femina	40.0	Ranunculus repens	35.0
Deschampsia cespitosa	35.0	Geum urbanum	34.0
Stachys sylvatica	32.0	Galium aparine	30.0
Aegopodium podagraria	30.0	Lamiastrum galeobdolon	29.0
Brachypodium sylvaticum	29.0	Sambucus nigra	28.0
Oxalis acetosella	28.0	Angelica sylvestris	28.0
Impatiens noli-tangere	27.0	Corylus avellana	26.0
Caltha palustris	26.0	Rubus idaeus	25.0

Poa trivialis	25.0	Geranium robertianum	24.0
Carex remota	24.0	Acer pseudoplatanus	24.0
Rubus fruticosus agg.	23.0	Plagiomnium undulatum	23.0
Glechoma hederacea	23.0	Circaeа lutetiana	23.0
Festuca gigantea	22.0	Anemone nemorosa	22.0
Alnus incana	22.0	Ajuga reptans	22.0
Ranunculus ficaria	21.0	Lysimachia vulgaris	21.0
Chaerophyllum hirsutum	20.0	Crepis paludosa	19.0
Stellaria nemorum	18.0	Rubus caesius	18.0
Hedera helix	18.0	Cirsium oleraceum	18.0
Carex sylvatica	18.0	Galium palustre	17.0
Euonymus europaeus	17.0	Sorbus aucuparia	16.0
Senecio nemorensis	16.0	Prunus padus	16.0
Primula elatior	16.0	Dryopteris dilatata	16.0
Crataegus monogyna	16.0	Viburnum opulus	15.0
Solanum dulcamara	15.0	Poa nemoralis	15.0
Lycopus europaeus	15.0	Juncus effusus	15.0
Chrysosplenium alternifolium	15.0	Humulus lupulus	15.0
Equisetum arvense	15.0	Cornus sanguinea	15.0
Cardamine amara	15.0	Picea abies	14.0
Viola reichenbachiana	13.0	Silene dioica	13.0
Phalaris arundinacea	13.0	Lysimachia nummularia	13.0
Dryopteris filix-mas	13.0	Dryopteris carthusiana	13.0
Brachythecium rutabulum	13.0	Lysimachia nemorum	12.0
Lamium maculatum	12.0	Heracleum sphondylium	11.0
Geum rivale	11.0	Cirsium palustre	11.0
Asarum europaeum	11.0	Alliaria petiolata	11.0
Valeriana officinalis	10.0	Stellaria holostea	10.0
Scrophularia nodosa	10.0	Quercus robur	10.0
Moehringia trinervia	10.0	Milium effusum	10.0
Mercurialis perennis	10.0	Kindbergia praelonga	10.0
Iris pseudacorus	10.0	Galeopsis tetrahit	10.0
Fragaria vesca	10.0	Eupatorium cannabinum	10.0
Atrichum undulatum	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Alnus glutinosa	82.0	Alnus incana	17.0
Urtica dioica	9.0	Fraxinus excelsior	6.0
Ranunculus ficaria	5.0		

**G1.2b - Temperate and boreal hardwood riparian woodland**

*Diagnostic species (phi coefficient \* 100)*

Ranunculus ficaria	33.0	Circaeа lutetiana	33.0
Fraxinus excelsior	29.2	Geum urbanum	27.5
Stachys sylvatica	27.0	Prunus padus	26.3
Festuca gigantea	22.4	Euonymus europaeus	22.0

<i>Carex sylvatica</i>	20.2	<i>Adoxa moschatellina</i>	19.8
<i>Rubus caesius</i>	18.7	<i>Rumex sanguineus</i>	18.6
<i>Plagiomnium undulatum</i>	18.5	<i>Glechoma hederacea</i>	18.3
<i>Anemone nemorosa</i>	17.8	<i>Carex remota</i>	17.7
<i>Ulmus minor</i>	17.3	<i>Alnus glutinosa</i>	17.2
<i>Quercus robur</i>	17.1	<i>Corylus avellana</i>	17.0
<i>Viburnum opulus</i>	16.8	<i>Paris quadrifolia</i>	16.8
<i>Eurhynchium striatum</i>	16.8	<i>Brachypodium sylvaticum</i>	16.6
<i>Urtica dioica</i>	16.5	<i>Deschampsia cespitosa</i>	16.4
<i>Aegopodium podagraria</i>	16.4	<i>Primula elatior</i>	16.1
<i>Ribes rubrum</i>	15.8	<i>Sambucus nigra</i>	15.6
<i>Arum maculatum</i>	15.6	<i>Milium effusum</i>	15.5
<i>Polygonatum multiflorum</i>	15.4	<i>Galium aparine</i>	15.0

*Constant species (occurrence frequencies)*

<i>Fraxinus excelsior</i>	86.0	<i>Geum urbanum</i>	67.0
<i>Urtica dioica</i>	58.0	<i>Circaeaa lutetiana</i>	57.0
<i>Corylus avellana</i>	56.0	<i>Ranunculus ficaria</i>	55.0
<i>Deschampsia cespitosa</i>	54.0	<i>Quercus robur</i>	49.0
<i>Stachys sylvatica</i>	48.0	<i>Glechoma hederacea</i>	45.0
<i>Brachypodium sylvaticum</i>	45.0	<i>Anemone nemorosa</i>	45.0
<i>Euonymus europaeus</i>	43.0	<i>Carex sylvatica</i>	43.0
<i>Hedera helix</i>	42.0	<i>Galium aparine</i>	42.0
<i>Lamiastrum galeobdolon</i>	38.0	<i>Aegopodium podagraria</i>	38.0
<i>Rubus caesius</i>	37.0	<i>Crataegus monogyna</i>	37.0
<i>Alnus glutinosa</i>	37.0	<i>Filipendula ulmaria</i>	36.0
<i>Acer pseudoplatanus</i>	36.0	<i>Viola reichenbachiana</i>	33.0
<i>Sambucus nigra</i>	32.0	<i>Polygonatum multiflorum</i>	32.0
<i>Prunus padus</i>	31.0	<i>Plagiomnium undulatum</i>	31.0
<i>Geranium robertianum</i>	31.0	<i>Festuca gigantea</i>	31.0
<i>Cornus sanguinea</i>	31.0	<i>Milium effusum</i>	30.0
<i>Carpinus betulus</i>	30.0	<i>Paris quadrifolia</i>	29.0
<i>Viburnum opulus</i>	28.0	<i>Rubus fruticosus agg.</i>	28.0
<i>Oxalis acetosella</i>	27.0	<i>Athyrium filix-femina</i>	27.0
<i>Acer campestre</i>	27.0	<i>Stellaria holostea</i>	25.0
<i>Primula elatior</i>	25.0	<i>Ajuga reptans</i>	25.0
<i>Ulmus minor</i>	24.0	<i>Fagus sylvatica</i>	24.0
<i>Eurhynchium striatum</i>	24.0	<i>Poa trivialis</i>	23.0
<i>Carex remota</i>	23.0	<i>Kindbergia praelonga</i>	22.0
<i>Arum maculatum</i>	22.0	<i>Adoxa moschatellina</i>	22.0
<i>Poa nemoralis</i>	21.0	<i>Crataegus laevigata</i>	21.0
<i>Moehringia trinervia</i>	20.0	<i>Brachythecium rutabulum</i>	19.0
<i>Alliaria petiolata</i>	19.0	<i>Scrophularia nodosa</i>	18.0
<i>Rumex sanguineus</i>	18.0	<i>Ranunculus auricomus agg.</i>	18.0
<i>Galium odoratum</i>	18.0	<i>Dryopteris filix-mas</i>	18.0
<i>Atrichum undulatum</i>	18.0	<i>Rubus idaeus</i>	17.0
<i>Mercurialis perennis</i>	17.0	<i>Impatiens noli-tangere</i>	17.0
<i>Angelica sylvestris</i>	17.0	<i>Sorbus aucuparia</i>	16.0

Ranunculus repens	16.0	Lonicera periclymenum	16.0
Lysimachia nummularia	15.0	Fissidens taxifolius	15.0
Veronica chamaedrys	14.0	Tilia cordata	13.0
Quercus petraea	13.0	Prunus spinosa	13.0
Prunus avium	13.0	Mnium hornum	13.0
Ligustrum vulgare	13.0	Heracleum sphondylium	13.0
Veronica montana	12.0	Thuidium tamariscinum	12.0
Pulmonaria officinalis	12.0	Humulus lupulus	12.0
Fragaria vesca	12.0	Dactylis glomerata	12.0
Cardamine pratensis	12.0	Valeriana officinalis	11.0
Ribes rubrum	11.0	Pulmonaria obscura	11.0
Lonicera xylosteum	11.0	Dryopteris dilatata	11.0
Crepis paludosa	11.0	Anemone ranunculoides	11.0
Acer platanoides	11.0	Viola riviniana	10.0
Ulmus glabra	10.0	Listera ovata	10.0
Lamium maculatum	10.0	Impatiens parviflora	10.0
Galeopsis tetrahit	10.0	Dryopteris carthusiana	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Fraxinus excelsior	71.0	Quercus robur	30.0
Ranunculus ficaria	22.0	Corylus avellana	15.0
Anemone nemorosa	13.0	Aegopodium podagraria	9.0
Hedera helix	8.0	Prunus padus	7.0
Lamiastrum galeobdolon	7.0	Carpinus betulus	7.0
Urtica dioica	6.0	Ulmus minor	6.0
Rubus caesius	6.0	Mercurialis perennis	6.0
Alnus glutinosa	6.0	Acer pseudoplatanus	6.0

**G1.3 - Mediterranean and Macaronesian riparian woodland**

*Diagnostic species (phi coefficient \* 100)*

Platanus orientalis	70.0	Rubus sanctus	34.2
Populus alba	34.2	Salix alba	31.4
Rubus ulmifolius	31.3	Populus nigra	29.1
Nerium oleander	26.5	Ficus carica	25.8
Arum italicum	25.8	Carex pendula	24.2
Vitex agnus-castus	21.4	Melissa officinalis	21.2
Clematis vitalba	21.1	Piptatherum miliaceum	20.4
Symphytum bulbosum	19.4	Dracunculus vulgaris	19.3
Scirpoides holoschoenus	19.2	Cirsium creticum subsp. creticum	18.7
Cercis siliquastrum	18.5	Brachypodium sylvaticum	18.5
Arundo donax	18.1	Salix amplexicaulis	17.8
Juglans regia	17.6	Ulmus minor	16.5
Fraxinus angustifolia	16.5	Cardamine graeca	16.0
Vitis vinifera subsp. sylvestris	15.8	Equisetum ramosissimum	15.1

*Constant species (occurrence frequencies)*

Platanus orientalis	52.0	Rubus ulmifolius	51.0
Brachypodium sylvaticum	50.0	Hedera helix	44.0
Clematis vitalba	36.0	Salix alba	33.0
Populus nigra	26.0	Populus alba	26.0
Galium aparine	26.0	Urtica dioica	24.0
Dactylis glomerata	24.0	Crataegus monogyna	24.0
Ulmus minor	23.0	Arum italicum	22.0
Cornus sanguinea	21.0	Carex pendula	20.0
Rubia peregrina	17.0	Alnus glutinosa	17.0
Pteridium aquilinum	16.0	Tamus communis	15.0
Scirpoides holoschoenus	15.0	Phragmites australis	15.0
Rubus sanctus	14.0	Prunella vulgaris	14.0
Poa trivialis	14.0	Sambucus nigra	13.0
Rubus caesius	13.0	Piptatherum miliaceum	13.0
Mycelis muralis	13.0	Humulus lupulus	13.0
Fraxinus angustifolia	13.0	Asparagus acutifolius	13.0
Rumex conglomeratus	12.0	Smilax aspera	11.0
Origanum vulgare	11.0	Nerium oleander	11.0
Ligustrum vulgare	11.0	Juglans regia	11.0
Geranium robertianum	11.0	Ficus carica	11.0
Equisetum telmateia	11.0	Equisetum arvense	11.0
Calystegia sepium	11.0	Rosa canina agg.	10.0
Quercus coccifera	10.0	Prunus spinosa	10.0
Clinopodium vulgare	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Platanus orientalis	48.0	Rubus ulmifolius	16.0
Populus alba	15.0	Salix alba	11.0
Populus nigra	9.0	Hedera helix	7.0

**G1.4 - Broadleaved swamp woodland on non-acid peat**

*Diagnostic species (phi coefficient \* 100)*

Carex elongata	47.3	Alnus glutinosa	47.3
Solanum dulcamara	34.5	Thelypteris palustris	28.3
Carex acutiformis	28.0	Peucedanum palustre	27.7
Calamagrostis canescens	26.8	Lysimachia vulgaris	26.7
Lycopus europaeus	25.6	Iris pseudacorus	24.7
Ribes nigrum	24.3	Dryopteris carthusiana	23.6
Galium palustre	20.6	Mnium hornum	20.1
Carex paniculata	19.7	Scutellaria galericulata	19.6
Frangula alnus	19.5	Humulus lupulus	19.2
Carex pseudocyperus	17.4	Salix cinerea	16.8
Carex remota	16.8	Filipendula ulmaria	15.1

*Constant species (occurrence frequencies)*

Alnus glutinosa	100.0	Lysimachia vulgaris	65.0
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<i>Solanum dulcamara</i>	55.0	<i>Galium palustre</i>	53.0
<i>Lycopus europaeus</i>	49.0	<i>Dryopteris carthusiana</i>	48.0
<i>Frangula alnus</i>	45.0	<i>Urtica dioica</i>	43.0
<i>Iris pseudacorus</i>	42.0	<i>Filipendula ulmaria</i>	42.0
<i>Carex acutiformis</i>	41.0	<i>Deschampsia cespitosa</i>	40.0
<i>Carex elongata</i>	38.0	<i>Athyrium filix-femina</i>	37.0
<i>Juncus effusus</i>	34.0	<i>Peucedanum palustre</i>	33.0
<i>Lythrum salicaria</i>	32.0	<i>Caltha palustris</i>	32.0
<i>Fraxinus excelsior</i>	31.0	<i>Calamagrostis canescens</i>	31.0
<i>Ranunculus repens</i>	29.0	<i>Sorbus aucuparia</i>	28.0
<i>Rubus fruticosus agg.</i>	28.0	<i>Scutellaria galericulata</i>	27.0
<i>Salix cinerea</i>	27.0	<i>Mnium hornum</i>	27.0
<i>Cirsium palustre</i>	27.0	<i>Rubus idaeus</i>	26.0
<i>Poa trivialis</i>	26.0	<i>Betula pubescens</i>	26.0
<i>Thelypteris palustris</i>	25.0	<i>Calliergonella cuspidata</i>	25.0
<i>Dryopteris dilatata</i>	24.0	<i>Phragmites australis</i>	23.0
<i>Humulus lupulus</i>	23.0	<i>Angelica sylvestris</i>	23.0
<i>Viburnum opulus</i>	22.0	<i>Carex remota</i>	21.0
<i>Brachythecium rutabulum</i>	21.0	<i>Plagiomnium undulatum</i>	20.0
<i>Mentha aquatica</i>	20.0	<i>Eupatorium cannabinum</i>	20.0
<i>Quercus robur</i>	19.0	<i>Galium aparine</i>	19.0
<i>Carex paniculata</i>	19.0	<i>Impatiens noli-tangere</i>	18.0
<i>Viola palustris</i>	17.0	<i>Prunus padus</i>	17.0
<i>Plagiomnium affine</i>	16.0	<i>Oxalis acetosella</i>	16.0
<i>Lonicera periclymenum</i>	16.0	<i>Kindbergia praelonga</i>	16.0
<i>Circaea lutetiana</i>	16.0	<i>Scirpus sylvaticus</i>	15.0
<i>Ribes nigrum</i>	15.0	<i>Myosotis scorpioides</i>	15.0
<i>Equisetum fluviatile</i>	15.0	<i>Cirsium oleraceum</i>	15.0
<i>Rubus caesius</i>	14.0	<i>Phalaris arundinacea</i>	14.0
<i>Crepis paludosa</i>	14.0	<i>Cardamine amara</i>	14.0
<i>Carex pseudocyperus</i>	13.0	<i>Carex elata</i>	13.0
<i>Cardamine pratensis</i>	13.0	<i>Glyceria fluitans</i>	12.0
<i>Geranium robertianum</i>	12.0	<i>Festuca gigantea</i>	12.0
<i>Equisetum palustre</i>	12.0	<i>Ajuga reptans</i>	12.0
<i>Valeriana officinalis</i>	11.0	<i>Lysimachia nummularia</i>	11.0
<i>Glechoma hederacea</i>	11.0	<i>Geum urbanum</i>	11.0
<i>Euonymus europaeus</i>	11.0	<i>Corylus avellana</i>	11.0
<i>Anemone nemorosa</i>	11.0	<i>Salix aurita</i>	10.0
<i>Molinia caerulea agg.</i>	10.0	<i>Climaciumpenduloides</i>	10.0
<i>Calystegia sepium</i>	10.0	<i>Agrostis stolonifera</i>	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Alnus glutinosa</i>	100.0	<i>Carex acutiformis</i>	17.0
<i>Carex elongata</i>	7.0	<i>Thelypteris palustris</i>	6.0
<i>Fraxinus excelsior</i>	5.0	<i>Carex paniculata</i>	5.0

**G1.5 - Broadleaved bog woodland on acid peat**

*Diagnostic species (phi coefficient \* 100)*

<i>Betula pubescens</i>	42.5	<i>Sphagnum palustre</i>	30.4
<i>Sphagnum fimbriatum</i>	28.4	<i>Molinia caerulea agg.</i>	24.6
<i>Polytrichum commune</i>	20.9	<i>Frangula alnus</i>	20.0
<i>Sphagnum squarrosum</i>	17.7	<i>Betula pendula</i>	17.4
<i>Salix aurita</i>	16.5	<i>Aulacomnium palustre</i>	15.8

*Constant species (occurrence frequencies)*

<i>Betula pubescens</i>	78.0	<i>Molinia caerulea agg.</i>	73.0
<i>Frangula alnus</i>	46.0	<i>Betula pendula</i>	44.0
<i>Sorbus aucuparia</i>	35.0	<i>Quercus robur</i>	33.0
<i>Dryopteris carthusiana</i>	31.0	<i>Vaccinium myrtillus</i>	30.0
<i>Sphagnum palustre</i>	30.0	<i>Rubus fruticosus agg.</i>	30.0
<i>Pinus sylvestris</i>	30.0	<i>Polytrichum commune</i>	27.0
<i>Deschampsia flexuosa</i>	25.0	<i>Calluna vulgaris</i>	25.0
<i>Juncus effusus</i>	24.0	<i>Salix cinerea</i>	23.0
<i>Aulacomnium palustre</i>	22.0	<i>Lonicera periclymenum</i>	20.0
<i>Dryopteris dilatata</i>	20.0	<i>Potentilla erecta</i>	19.0
<i>Pleurozium schreberi</i>	19.0	<i>Lysimachia vulgaris</i>	19.0
<i>Alnus glutinosa</i>	19.0	<i>Eriophorum vaginatum</i>	18.0
<i>Dicranum scoparium</i>	17.0	<i>Agrostis canina</i>	17.0
<i>Sphagnum fimbriatum</i>	16.0	<i>Carex nigra</i>	16.0
<i>Vaccinium oxycoccus</i>	15.0	<i>Salix aurita</i>	15.0
<i>Picea abies</i>	15.0	<i>Mnium hornum</i>	15.0
<i>Hypnum cupressiforme</i>	15.0	<i>Polytrichastrum formosum</i>	14.0
<i>Sphagnum fallax</i>	13.0	<i>Pseudoscleropodium purum</i>	13.0
<i>Phragmites australis</i>	13.0	<i>Carex rostrata</i>	13.0
<i>Kindbergia praelonga</i>	12.0	<i>Holcus lanatus</i>	12.0
<i>Calamagrostis canescens</i>	12.0	<i>Vaccinium uliginosum</i>	11.0
<i>Sphagnum squarrosum</i>	11.0	<i>Quercus petraea</i>	11.0
<i>Pteridium aquilinum</i>	11.0	<i>Potentilla palustris</i>	11.0
<i>Hypnum jutlandicum</i>	11.0	<i>Galium palustre</i>	11.0
<i>Eriophorum angustifolium</i>	11.0	<i>Vaccinium vitis-idaea</i>	10.0
<i>Erica tetralix</i>	10.0	<i>Carex curta</i>	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Betula pubescens</i>	55.0	<i>Molinia caerulea agg.</i>	42.0
<i>Betula pendula</i>	26.0	<i>Sphagnum palustre</i>	11.0
<i>Sphagnum fallax</i>	8.0	<i>Eriophorum vaginatum</i>	6.0

**G1.6a - Fagus woodland on non-acid soils**

*Diagnostic species (phi coefficient \* 100)*

<i>Fagus sylvatica</i>	30.2	<i>Galium odoratum</i>	25.9
<i>Viola reichenbachiana</i>	19.0	<i>Lamiastrum galeobdolon</i>	17.9
<i>Mycelis muralis</i>	16.9	<i>Mercurialis perennis</i>	16.9

<i>Cardamine bulbifera</i>	16.2	<i>Prenanthes purpurea</i>	15.8
<i>Acer pseudoplatanus</i>	15.7	<i>Oxalis acetosella</i>	15.0

*Constant species (occurrence frequencies)*

<i>Fagus sylvatica</i>	99.0	<i>Galium odoratum</i>	56.0
<i>Viola reichenbachiana</i>	48.0	<i>Oxalis acetosella</i>	43.0
<i>Lamiastrum galeobdolon</i>	43.0	<i>Acer pseudoplatanus</i>	43.0
<i>Dryopteris filix-mas</i>	38.0	<i>Mercurialis perennis</i>	37.0
<i>Mycelis muralis</i>	34.0	<i>Fraxinus excelsior</i>	34.0
<i>Hedera helix</i>	33.0	<i>Athyrium filix-femina</i>	30.0
<i>Anemone nemorosa</i>	30.0	<i>Poa nemoralis</i>	28.0
<i>Carex sylvatica</i>	27.0	<i>Rubus fruticosus agg.</i>	26.0
<i>Prenanthes purpurea</i>	26.0	<i>Picea abies</i>	26.0
<i>Euphorbia amygdaloides</i>	26.0	<i>Abies alba</i>	24.0
<i>Sanicula europaea</i>	23.0	<i>Hieracium murorum</i>	23.0
<i>Fragaria vesca</i>	23.0	<i>Corylus avellana</i>	23.0
<i>Melica uniflora</i>	22.0	<i>Geranium robertianum</i>	22.0
<i>Sorbus aucuparia</i>	21.0	<i>Polygonatum multiflorum</i>	20.0
<i>Milium effusum</i>	20.0	<i>Senecio nemorensis</i>	19.0
<i>Hepatica nobilis</i>	19.0	<i>Carpinus betulus</i>	19.0
<i>Carex digitata</i>	19.0	<i>Cardamine bulbifera</i>	19.0
<i>Brachypodium sylvaticum</i>	19.0	<i>Paris quadrifolia</i>	18.0
<i>Solidago virgaurea</i>	17.0	<i>Quercus petraea</i>	17.0
<i>Lonicera xylosteum</i>	17.0	<i>Lathyrus vernus</i>	17.0
<i>Daphne mezereum</i>	17.0	<i>Rubus idaeus</i>	16.0
<i>Phyteuma spicatum</i>	15.0	<i>Crataegus monogyna</i>	15.0
<i>Ajuga reptans</i>	15.0	<i>Acer platanoides</i>	15.0
<i>Acer campestre</i>	15.0	<i>Prunus avium</i>	14.0
<i>Polygonatum verticillatum</i>	14.0	<i>Neottia nidus-avis</i>	14.0
<i>Epilobium montanum</i>	14.0	<i>Actaea spicata</i>	14.0
<i>Sorbus aria agg.</i>	13.0	<i>Luzula luzuloides</i>	13.0
<i>Melica nutans</i>	12.0	<i>Maianthemum bifolium</i>	12.0
<i>Circaeaa lutetiana</i>	12.0	<i>Asarum europaeum</i>	12.0
<i>Urtica dioica</i>	11.0	<i>Ulmus glabra</i>	11.0
<i>Sambucus nigra</i>	11.0	<i>Rosa arvensis</i>	11.0
<i>Polystichum aculeatum</i>	11.0	<i>Moehringia trinervia</i>	11.0
<i>Ilex aquifolium</i>	11.0	<i>Campanula trachelium</i>	11.0
<i>Vicia sepium</i>	10.0	<i>Viburnum lantana</i>	10.0
<i>Veronica chamaedrys</i>	10.0	<i>Stellaria holostea</i>	10.0
<i>Pulmonaria officinalis</i>	10.0	<i>Lilium martagon</i>	10.0
<i>Dryopteris dilatata</i>	10.0	<i>Daphne laureola</i>	10.0
<i>Convallaria majalis</i>	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Fagus sylvatica</i>	99.0	<i>Galium odoratum</i>	6.0
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**G1.6b - Fagus woodland on acid soils**

*Diagnostic species (phi coefficient \* 100)*

<i>Fagus sylvatica</i>	29.1	<i>Polytrichastrum formosum</i>	19.1
<i>Luzula luzuloides</i>	17.7	<i>Deschampsia flexuosa</i>	16.8
<i>Dicranella heteromalla</i>	16.0	<i>Vaccinium myrtillus</i>	15.8

*Constant species (occurrence frequencies)*

<i>Fagus sylvatica</i>	99.0	<i>Deschampsia flexuosa</i>	50.0
<i>Vaccinium myrtillus</i>	49.0	<i>Polytrichastrum formosum</i>	39.0
<i>Sorbus aucuparia</i>	38.0	<i>Pteridium aquilinum</i>	34.0
<i>Oxalis acetosella</i>	34.0	<i>Luzula luzuloides</i>	33.0
<i>Quercus petraea</i>	30.0	<i>Picea abies</i>	30.0
<i>Hieracium murorum</i>	27.0	<i>Ilex aquifolium</i>	25.0
<i>Prenanthes purpurea</i>	24.0	<i>Athyrium filix-femina</i>	23.0
<i>Abies alba</i>	23.0	<i>Dicranum scoparium</i>	22.0
<i>Rubus fruticosus agg.</i>	21.0	<i>Poa nemoralis</i>	20.0
<i>Hedera helix</i>	20.0	<i>Acer pseudoplatanus</i>	20.0
<i>Hypnum cupressiforme</i>	19.0	<i>Dryopteris dilatata</i>	19.0
<i>Maianthemum bifolium</i>	18.0	<i>Luzula sylvatica</i>	18.0
<i>Veronica officinalis</i>	17.0	<i>Solidago virgaurea</i>	17.0
<i>Lonicera periclymenum</i>	17.0	<i>Dryopteris filix-mas</i>	17.0
<i>Dicranella heteromalla</i>	17.0	<i>Luzula pilosa</i>	16.0
<i>Carex pilulifera</i>	16.0	<i>Rubus idaeus</i>	14.0
<i>Blechnum spicant</i>	14.0	<i>Mycelis muralis</i>	13.0
<i>Corylus avellana</i>	13.0	<i>Quercus robur</i>	12.0
<i>Pinus sylvestris</i>	11.0	<i>Mnium hornum</i>	11.0
<i>Fraxinus excelsior</i>	11.0	<i>Dryopteris carthusiana</i>	11.0
<i>Calamagrostis arundinacea</i>	11.0	<i>Betula pendula</i>	11.0
<i>Astragalus undulatum</i>	11.0	<i>Anemone nemorosa</i>	11.0
<i>Melampyrum pratense</i>	10.0	<i>Leucobryum glaucum</i>	10.0
<i>Castanea sativa</i>	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Fagus sylvatica</i>	99.0	<i>Vaccinium myrtillus</i>	9.0
<i>Deschampsia flexuosa</i>	7.0		

**G1.7a - Temperate and submediterranean thermophilous deciduous woodland**

*Diagnostic species (phi coefficient \* 100)*

<i>Quercus pubescens</i>	30.5	<i>Quercus cerris</i>	26.6
<i>Fraxinus ornus</i>	24.6	<i>Buglossoides purpurocaerulea</i>	21.0
<i>Cornus mas</i>	20.0	<i>Carpinus orientalis</i>	19.7
<i>Quercus frainetto</i>	19.4	<i>Crataegus monogyna</i>	19.0
<i>Ostrya carpinifolia</i>	17.6	<i>Ligustrum vulgare</i>	16.6
<i>Acer monspessulanum</i>	16.2	<i>Sorbus domestica</i>	16.1
<i>Tamus communis</i>	15.6	<i>Sorbus torminalis</i>	15.4
<i>Lathyrus niger</i>	15.3	<i>Viola alba</i>	15.2

*Tanacetum corymbosum* 15.1

*Constant species (occurrence frequencies)*

<i>Crataegus monogyna</i>	58.0	<i>Quercus pubescens</i>	47.0
<i>Hedera helix</i>	35.0	<i>Fraxinus ornus</i>	34.0
<i>Ligustrum vulgare</i>	33.0	<i>Acer campestre</i>	33.0
<i>Brachypodium pinnatum</i>	31.0	<i>Brachypodium sylvaticum</i>	30.0
<i>Teucrium chamaedrys</i>	29.0	<i>Prunus spinosa</i>	29.0
<i>Quercus cerris</i>	28.0	<i>Cornus sanguinea</i>	28.0
<i>Rubia peregrina</i>	26.0	<i>Clinopodium vulgare</i>	26.0
<i>Quercus petraea</i>	25.0	<i>Dactylis glomerata</i>	25.0
<i>Cornus mas</i>	25.0	<i>Tamus communis</i>	24.0
<i>Viburnum lantana</i>	23.0	<i>Fragaria vesca</i>	23.0
<i>Vincetoxicum hirundinaria</i>	22.0	<i>Rosa canina agg.</i>	22.0
<i>Sorbus torminalis</i>	21.0	<i>Ruscus aculeatus</i>	21.0
<i>Juniperus communis</i> subsp. <i>communis</i>	21.0	<i>Corylus avellana</i>	21.0
<i>Poa nemoralis</i>	20.0	<i>Tanacetum corymbosum</i>	18.0
<i>Stachys officinalis</i>	18.0	<i>Melittis melissophyllum</i>	18.0
<i>Veronica chamaedrys</i>	17.0	<i>Rubus ulmifolius</i>	17.0
<i>Ostrya carpinifolia</i>	17.0	<i>Clematis vitalba</i>	17.0
<i>Buglossoides purpurocaerulea</i>	17.0	<i>Viola hirta</i>	16.0
<i>Lathyrus niger</i>	16.0	<i>Hippocrepis emerus</i>	16.0
<i>Festuca heterophylla</i>	16.0	<i>Euphorbia cyparissias</i>	16.0
<i>Carex flacca</i>	16.0	<i>Viola alba</i>	15.0
<i>Sorbus aria</i> agg.	15.0	<i>Carpinus betulus</i>	15.0
<i>Asparagus acutifolius</i>	15.0	<i>Rubus fruticosus</i> agg.	14.0
<i>Pyrus communis</i> agg.	14.0	<i>Prunus avium</i>	14.0
<i>Melica uniflora</i>	14.0	<i>Hieracium murorum</i>	14.0
<i>Geum urbanum</i>	14.0	<i>Euonymus europaeus</i>	14.0
<i>Cruciata glabra</i>	14.0	<i>Viola reichenbachiana</i>	13.0
<i>Quercus ilex</i>	13.0	<i>Polygonatum odoratum</i>	13.0
<i>Euphorbia amygdaloides</i>	13.0	<i>Carpinus orientalis</i>	13.0
<i>Rosa arvensis</i>	12.0	<i>Rhamnus catharticus</i>	12.0
<i>Pteridium aquilinum</i>	12.0	<i>Lonicera xylosteum</i>	12.0
<i>Campanula persicifolia</i>	12.0	<i>Quercus frainetto</i>	11.0
<i>Luzula forsteri</i>	11.0	<i>Lonicera etrusca</i>	11.0
<i>Hypericum perforatum</i>	11.0	<i>Geranium sanguineum</i>	11.0
<i>Genista tinctoria</i>	11.0	<i>Galium mollugo</i> agg.	11.0
<i>Fagus sylvatica</i>	11.0	<i>Acer monspessulanum</i>	11.0
<i>Sorbus domestica</i>	10.0	<i>Silene nutans</i>	10.0
<i>Primula veris</i>	10.0	<i>Helleborus foetidus</i>	10.0
<i>Acer opalus</i>	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Quercus pubescens</i>	29.0	<i>Quercus cerris</i>	14.0
<i>Quercus petraea</i>	13.0	<i>Ostrya carpinifolia</i>	8.0
<i>Quercus frainetto</i>	6.0	<i>Quercus faginea</i>	6.0

<i>Quercus robur</i>	5.0	<i>Hedera helix</i>	5.0
<i>Carpinus orientalis</i>	5.0	<i>Buxus sempervirens</i>	5.0
<i>Brachypodium pinnatum</i>	5.0		

### **G1.7b - Mediterranean thermophilous deciduous woodland**

*Diagnostic species (phi coefficient \* 100)*

<i>Quercus ithaburensis</i>	99.4	<i>Asphodelus ramosus</i>	55.7
<i>Sarcopoterium spinosum</i>	53.3	<i>Rumex tuberosus</i>	51.3
<i>Theligonum cynocrambe</i>	51.0	<i>Briza maxima</i>	50.7
<i>Veronica cymbalaria</i>	47.8	<i>Hymenocarpos circinnatus</i>	47.6
<i>Tordylium apulum</i>	46.5	<i>Urospermum picroides</i>	46.2
<i>Lagoecia cuminoides</i>	46.0	<i>Trifolium uniflorum</i>	42.8
<i>Anthemis chia</i>	41.9	<i>Leontodon tuberosus</i>	41.1
<i>Trifolium stellatum</i>	40.0	<i>Avena barbata</i>	40.0
<i>Urginea maritima</i>	39.4	<i>Gagea graeca</i>	38.7
<i>Carduus pycnocephalus</i>	37.9	<i>Galium murale</i>	37.7
<i>Biscutella didyma</i>	37.1	<i>Origanum onites</i>	35.4
<i>Ornithopus compressus</i>	34.8	<i>Cynosurus echinatus</i>	34.7
<i>Geranium lucidum</i>	33.9	<i>Euphorbia peplus</i>	33.9
<i>Petrerhagia dubia</i>	33.8	<i>Pyrus amygdaliformis</i>	33.5
<i>Bromus madritensis</i>	33.3	<i>Hordeum bulbosum</i>	33.1
<i>Aethorhiza bulbosa</i>	33.0	<i>Aira elegantissima</i>	32.8
<i>Parentucellia latifolia</i>	32.6	<i>Cistus incanus</i>	32.6
<i>Sherardia arvensis</i>	32.3	<i>Torilis humilis</i>	32.1
<i>Cerastium comatum</i>	31.8	<i>Anemone pavonina</i>	31.1
<i>Phlomis fruticosa</i>	30.7	<i>Calicotome villosa</i>	30.5
<i>Anagyris foetida</i>	30.3	<i>Picnomon acarna</i>	29.5
<i>Ballota acetabulosa</i>	29.1	<i>Trifolium clypeatum</i>	28.9
<i>Trifolium angustifolium</i>	28.9	<i>Trifolium physodes</i>	28.8
<i>Oxalis pes-caprae</i>	28.8	<i>Hypochaeris achyrophorus</i>	28.4
<i>Brachypodium distachyon</i>	28.4	<i>Muscari comosum</i>	27.6
<i>Trifolium grandiflorum</i>	27.3	<i>Scaligeria napiformis</i>	27.2
<i>Medicago disciformis</i>	26.7	<i>Geranium molle</i>	26.7
<i>Tuberaria guttata</i>	26.6	<i>Lagurus ovatus</i>	26.6
<i>Quercus trojana</i>	26.5	<i>Trifolium scabrum</i>	26.4
<i>Quercus coccifera</i>	26.4	<i>Myosotis incrassata</i>	26.4
<i>Scandix pecten-veneris</i>	26.3	<i>Umbilicus horizontalis</i>	26.2
<i>Asparagus acutifolius</i>	26.0	<i>Piptatherum miliaceum</i>	25.9
<i>Lupinus angustifolius</i>	25.8	<i>Rubia tenuifolia</i>	25.7
<i>Trifolium campestre</i>	25.6	<i>Knautia integrifolia</i>	25.0
<i>Trifolium tomentosum</i>	24.8	<i>Fumana arabica</i>	24.6
<i>Selaginella denticulata</i>	24.5	<i>Rhagadiolus stellatus</i>	23.9
<i>Carlina corymbosa</i>	23.8	<i>Hirschfeldia incana</i>	23.7
<i>Rumex bucephalophorus</i>	23.6	<i>Vicia articulata</i>	23.3
<i>Bromus intermedius</i>	23.3	<i>Fumaria judaica</i>	23.2
<i>Arisarum vulgare</i>	23.0	<i>Hypericum triquetrifolium</i>	22.9

<i>Psoralea bituminosa</i>	22.7	<i>Desmazeria rigida</i>	22.6
<i>Silene cretica</i>	22.5	<i>Crepis hellenica</i>	22.5
<i>Cotoneaster nummularius</i>	22.4	<i>Trifolium infamia-ponertii</i>	22.3
<i>Centaurea raphanina</i>	22.3	<i>Asparagus aphyllus</i>	22.3
<i>Crepis multiflora</i>	21.9	<i>Hordeum murinum</i>	21.8
<i>Anthemis rigida</i>	21.8	<i>Phagnalon graecum</i>	21.7
<i>Crepis commutata</i>	21.7	<i>Anemone coronaria</i>	21.5
<i>Vulpia ciliata</i>	21.4	<i>Ferula communis</i>	21.3
<i>Crepis foetida</i>	21.2	<i>Cyclamen creticum</i>	20.8
<i>Bromus sterilis</i>	20.6	<i>Anagallis arvensis</i>	20.4
<i>Olea europaea</i> var. <i>sylvestris</i>	20.0	<i>Hypericum empetrifolium</i>	20.0
<i>Arabis verna</i>	20.0	<i>Pistacia terebinthus</i>	19.9
<i>Salvia tomentosa</i>	19.7	<i>Cyclamen graecum</i>	19.7
<i>Spartium junceum</i>	19.4	<i>Cerastium glomeratum</i>	19.4
<i>Euphorbia rigida</i>	19.3	<i>Campanula spatulata</i>	19.2
<i>Vicia hybrida</i>	18.8	<i>Dracunculus vulgaris</i>	18.8
<i>Satureja thymbra</i>	18.5	<i>Medicago polymorpha</i>	18.3
<i>Medicago arabica</i>	18.2	<i>Ziziphora capitata</i>	17.8
<i>Prasium majus</i>	17.8	<i>Viola sieheana</i>	17.7
<i>Asterolinon linum-stellatum</i>	17.7	<i>Salvia aethiopis</i>	17.5
<i>Plantago bellardii</i>	17.5	<i>Phleum subulatum</i>	17.4
<i>Lolium rigidum</i>	17.3	<i>Hedypnois cretica</i>	17.3
<i>Hieracium cymosum</i>	16.9	<i>Phleum boissieri</i>	16.8
<i>Orchis sancta</i>	16.8	<i>Lupinus albus</i>	16.8
<i>Cyclamen hederifolium</i>	16.7	<i>Anthemis wernerii</i>	16.7
<i>Bunium microcarpum</i> subsp. <i>microcarpum</i>	16.6	<i>Veronica bozakmanii</i>	16.5
<i>Gypsophila tubulosa</i>	16.5	<i>Globularia orientalis</i>	16.5
<i>Taeniatherum asperum</i>	16.4	<i>Salvia triloba</i>	16.4
<i>Galium aparine</i>	16.4	<i>Aegilops speltoides</i>	16.4
<i>Rostraria cristata</i>	16.3	<i>Cistus laurifolius</i>	16.3
<i>Verbascum lasianthum</i>	16.2	<i>Fumaria macrocarpa</i>	16.2
<i>Silene bellidifolia</i>	16.1	<i>Silene behen</i>	16.1
<i>Muscari weissii</i>	16.1	<i>Allium neapolitanum</i>	16.1
<i>Umbilicus rupestris</i>	16.0	<i>Genista acanthoclada</i>	15.9
<i>Geranium rotundifolium</i>	15.7	<i>Paliurus spina-christi</i>	15.5
<i>Micromeria crenophila</i>	15.5	<i>Dianthus lydus</i>	15.5
<i>Ornithogalum nutans</i>	15.2	<i>Lathyrus laxiflorus</i>	15.2
<i>Dactylis glomerata</i> subsp. <i>glomerata</i>	15.2	<i>Crepis dioscoridis</i>	15.2
<i>Trifolium affine</i>	15.1	<i>Poa bulbosa</i>	15.1
<i>Piptatherum coerulescens</i>	15.1		

*Constant species (occurrence frequencies)*

<i>Quercus ithaburensis</i>	100.0	<i>Dactylis glomerata</i>	57.0
<i>Asphodelus ramosus</i>	54.0	<i>Galium aparine</i>	46.0
<i>Briza maxima</i>	46.0	<i>Trifolium campestre</i>	43.0
<i>Sarcopoterium spinosum</i>	37.0	<i>Asparagus acutifolius</i>	37.0

<i>Sherardia arvensis</i>	34.0	<i>Avena barbata</i>	34.0
<i>Theligonum cynocrambe</i>	31.0	<i>Cynosurus echinatus</i>	31.0
<i>Urospermum picroides</i>	29.0	<i>Urginea maritima</i>	29.0
<i>Trifolium stellatum</i>	29.0	<i>Tordylium apulum</i>	29.0
<i>Rumex tuberosus</i>	29.0	<i>Quercus coccifera</i>	29.0
<i>Cistus incanus</i>	29.0	<i>Veronica cymbalaria</i>	26.0
<i>Leontodon tuberosus</i>	26.0	<i>Lagoecia cuminoides</i>	26.0
<i>Hymenocarpos circinnatus</i>	26.0	<i>Anagallis arvensis</i>	26.0
<i>Trifolium scabrum</i>	23.0	<i>Trifolium angustifolium</i>	23.0
<i>Teucrium chamaedrys</i>	23.0	<i>Poa bulbosa</i>	23.0
<i>Ornithopus compressus</i>	23.0	<i>Muscari comosum</i>	23.0
<i>Geranium molle</i>	23.0	<i>Calicotome villosa</i>	23.0
<i>Bromus madritensis</i>	23.0	<i>Brachypodium distachyon</i>	23.0
<i>Aira elegantissima</i>	23.0	<i>Aethorhiza bulbosa</i>	23.0
<i>Trifolium uniflorum</i>	20.0	<i>Pyrus amygdaliformis</i>	20.0
<i>Lagurus ovatus</i>	20.0	<i>Geranium lucidum</i>	20.0
<i>Galium murale</i>	20.0	<i>Euphorbia peplus</i>	20.0
<i>Desmazeria rigida</i>	20.0	<i>Carlina corymbosa</i>	20.0
<i>Carduus pycnocephalus</i>	20.0	<i>Bromus sterilis</i>	20.0
<i>Anthemis chia</i>	20.0	<i>Tuberaria guttata</i>	17.0
<i>Teucrium polium</i>	17.0	<i>Quercus pubescens</i>	17.0
<i>Pteridium aquilinum</i>	17.0	<i>Pistacia terebinthus</i>	17.0
<i>Piptatherum miliaceum</i>	17.0	<i>Phlomis fruticosa</i>	17.0
<i>Parentucellia latifolia</i>	17.0	<i>Hypochaeris achyrophorus</i>	17.0
<i>Hordeum murinum</i>	17.0	<i>Hordeum bulbosum</i>	17.0
<i>Gagea graeca</i>	17.0	<i>Dactylis glomerata subsp. glomerata</i>	17.0
<i>Biscutella didyma</i>	17.0	<i>Arisarum vulgare</i>	17.0
<i>Vulpia ciliata</i>	14.0	<i>Spartium junceum</i>	14.0
<i>Rumex bucephalophorus</i>	14.0	<i>Quercus cerris</i>	14.0
<i>Psoralea bituminosa</i>	14.0	<i>Petrorrhiza dubia</i>	14.0
<i>Origanum onites</i>	14.0	<i>Juniperus oxycedrus</i>	14.0
<i>Crepis foetida</i>	14.0	<i>Cerastium glomeratum</i>	14.0
<i>Trifolium physodes</i>	11.0	<i>Torilis humilis</i>	11.0
<i>Tamus communis</i>	11.0	<i>Senecio vulgaris</i>	11.0
<i>Selaginella denticulata</i>	11.0	<i>Scandix pecten-veneris</i>	11.0
<i>Scaligeria napiformis</i>	11.0	<i>Rumex conglomeratus</i>	11.0
<i>Prasium majus</i>	11.0	<i>Pistacia lentiscus</i>	11.0
<i>Picnomon acarna</i>	11.0	<i>Oxalis pes-caprae</i>	11.0
<i>Olea europaea var. sylvestris</i>	11.0	<i>Hypericum perforatum</i>	11.0
<i>Fraxinus ornus</i>	11.0	<i>Falcaria vulgaris</i>	11.0
<i>Cyclamen hederifolium</i>	11.0	<i>Cerastium comatum</i>	11.0
<i>Brachypodium sylvaticum</i>	11.0	<i>Ballota acetabulosa</i>	11.0
<i>Asterolinon linum-stellatum</i>	11.0	<i>Asparagus aphyllus</i>	11.0
<i>Anemone pavonina</i>	11.0	<i>Anagyris foetida</i>	11.0
<i>Acer campestre</i>	11.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Quercus ithaburensis</i>	94.0	<i>Phlomis fruticosa</i>	11.0
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<i>Sarcopoterium spinosum</i>	9.0	<i>Asphodelus ramosus</i>	9.0
<i>Cistus incanus</i>	6.0		

### G1.8 - Acidophilous *Quercus* woodland

*Diagnostic species (phi coefficient \* 100)*

<i>Lonicera periclymenum</i>	24.3	<i>Quercus petraea</i>	21.9
<i>Pteridium aquilinum</i>	18.8	<i>Teucrium scorodonia</i>	18.6
<i>Deschampsia flexuosa</i>	18.2	<i>Melampyrum pratense</i>	17.6
<i>Polytrichastrum formosum</i>	17.1	<i>Castanea sativa</i>	16.8
<i>Ilex aquifolium</i>	16.4	<i>Frangula alnus</i>	15.6
<i>Holcus mollis</i>	15.1		

*Constant species (occurrence frequencies)*

<i>Quercus petraea</i>	62.0	<i>Deschampsia flexuosa</i>	54.0
<i>Pteridium aquilinum</i>	49.0	<i>Lonicera periclymenum</i>	47.0
<i>Sorbus aucuparia</i>	41.0	<i>Fagus sylvatica</i>	38.0
<i>Quercus robur</i>	37.0	<i>Vaccinium myrtillus</i>	35.0
<i>Polytrichastrum formosum</i>	35.0	<i>Frangula alnus</i>	35.0
<i>Rubus fruticosus agg.</i>	31.0	<i>Teucrium scorodonia</i>	30.0
<i>Melampyrum pratense</i>	30.0	<i>Hedera helix</i>	30.0
<i>Corylus avellana</i>	29.0	<i>Betula pendula</i>	29.0
<i>Ilex aquifolium</i>	28.0	<i>Holcus mollis</i>	26.0
<i>Hypnum cupressiforme</i>	24.0	<i>Dicranum scoparium</i>	23.0
<i>Castanea sativa</i>	23.0	<i>Molinia caerulea agg.</i>	22.0
<i>Calluna vulgaris</i>	21.0	<i>Luzula luzuloides</i>	18.0
<i>Carpinus betulus</i>	18.0	<i>Agrostis capillaris</i>	18.0
<i>Solidago virgaurea</i>	16.0	<i>Hieracium murorum</i>	16.0
<i>Dryopteris dilatata</i>	16.0	<i>Crataegus monogyna</i>	16.0
<i>Carex pilulifera</i>	16.0	<i>Betula pubescens</i>	16.0
<i>Veronica officinalis</i>	15.0	<i>Poa nemoralis</i>	15.0
<i>Pinus sylvestris</i>	15.0	<i>Mnium hornum</i>	15.0
<i>Thuidium tamariscinum</i>	14.0	<i>Anthoxanthum odoratum</i>	14.0
<i>Oxalis acetosella</i>	12.0	<i>Luzula pilosa</i>	12.0
<i>Leucobryum glaucum</i>	12.0	<i>Festuca ovina</i>	12.0
<i>Polypodium vulgare</i>	11.0	<i>Pleurozium schreberi</i>	11.0
<i>Maianthemum bifolium</i>	11.0	<i>Dryopteris carthusiana</i>	11.0
<i>Dicranella heteromalla</i>	11.0	<i>Cytisus scoparius</i>	11.0
<i>Blechnum spicant</i>	11.0	<i>Prunus avium</i>	10.0
<i>Fraxinus excelsior</i>	10.0	<i>Convallaria majalis</i>	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Quercus petraea</i>	56.0	<i>Quercus robur</i>	33.0
<i>Deschampsia flexuosa</i>	13.0	<i>Vaccinium myrtillus</i>	11.0
<i>Pteridium aquilinum</i>	10.0	<i>Castanea sativa</i>	10.0

**G1.9a - Boreal-nemoral mountain Betula and *Populus tremula* woodland on mineral soils**

*Diagnostic species (phi coefficient \* 100)*

<i>Betula pubescens</i> subsp. <i>carpatica</i>	92.5	<i>Dicranum majus</i>	33.3
<i>Rhytidadelphus</i> <i>loreus</i>	31.9	<i>Vaccinium myrtillus</i>	31.0
<i>Betula pubescens</i> subsp. <i>tortuosa</i>	28.6	<i>Plagiothecium undulatum</i>	26.8
<i>Melampyrum pratense</i>	25.2	<i>Prunus padus</i> subsp. <i>borealis</i>	24.8
<i>Vaccinium vitis-idaea</i>	24.7	<i>Pleurozium schreberi</i>	24.7
<i>Agrostis vinealis</i>	24.7	<i>Hylocomium splendens</i>	24.2
<i>Sphagnum robustum</i>	23.9	<i>Salix silesiaca</i>	23.5
<i>Oreopteris limbosperma</i>	23.3	<i>Galium saxatile</i>	23.1
<i>Deschampsia flexuosa</i>	22.6	<i>Poa pratensis</i> subsp. <i>alpigena</i>	22.0
<i>Calamagrostis villosa</i>	21.9	<i>Pinus mugo</i>	21.1
<i>Blechnum spicant</i>	21.1	<i>Rumex alpestris</i>	21.0
<i>Calypogeia neesiana</i>	20.6	<i>Sorbus aucuparia</i>	19.5
<i>Ptilium crista-castrensis</i>	19.1	<i>Luzula sylvatica</i>	18.9
<i>Cerastium alpinum</i>	18.5	<i>Thuidium tamariscinum</i>	18.4
<i>Linnaea borealis</i>	18.4	<i>Dicranum fuscescens</i>	18.4
<i>Athyrium distentifolium</i>	18.0	<i>Dryopteris Xmantoniae</i>	17.9
<i>Umbilicaria hyperborea</i>	17.5	<i>Ptilidium pulcherrimum</i>	17.3
<i>Trientalis europaea</i>	17.2	<i>Umbilicaria hirsuta</i>	16.8
<i>Polytrichastrum alpinum</i>	16.8	<i>Laserpitium archangelica</i>	16.8
<i>Racomitrium microcarpon</i>	16.7	<i>Polytrichastrum formosum</i>	16.5
<i>Myosotis decumbens</i>	16.4	<i>Mnium hornum</i>	16.4
<i>Ribes petraeum</i>	16.3	<i>Cornus suecica</i>	16.2
<i>Sphagnum girgensohnii</i>	16.1	<i>Dryopteris oreades</i>	15.7
<i>Carex binervis</i>	15.0		

*Constant species (occurrence frequencies)*

<i>Vaccinium myrtillus</i>	94.0	<i>Betula pubescens</i> subsp. <i>carpatica</i>	90.0
<i>Deschampsia flexuosa</i>	68.0	<i>Sorbus aucuparia</i>	61.0
<i>Pleurozium schreberi</i>	52.0	<i>Vaccinium vitis-idaea</i>	48.0
<i>Melampyrum pratense</i>	45.0	<i>Hylocomium splendens</i>	45.0
<i>Picea abies</i>	39.0	<i>Oxalis acetosella</i>	39.0
<i>Rhytidadelphus</i> <i>loreus</i>	35.0	<i>Polytrichastrum formosum</i>	35.0
<i>Galium saxatile</i>	35.0	<i>Thuidium tamariscinum</i>	29.0
<i>Luzula sylvatica</i>	29.0	<i>Dicranum scoparium</i>	29.0
<i>Calluna vulgaris</i>	29.0	<i>Anthoxanthum odoratum</i>	29.0
<i>Potentilla erecta</i>	26.0	<i>Blechnum spicant</i>	26.0
<i>Plagiothecium undulatum</i>	23.0	<i>Mnium hornum</i>	23.0
<i>Dicranum majus</i>	23.0	<i>Calamagrostis villosa</i>	23.0
<i>Agrostis vinealis</i>	23.0	<i>Trientalis europaea</i>	19.0
<i>Dryopteris dilatata</i>	19.0	<i>Solidago virgaurea</i>	16.0
<i>Rumex alpestris</i>	16.0	<i>Polytrichum commune</i>	16.0
<i>Pinus mugo</i>	16.0	<i>Oreopteris limbosperma</i>	16.0
<i>Luzula pilosa</i>	16.0	<i>Luzula multiflora</i>	16.0
<i>Luzula luzuloides</i>	16.0	<i>Gymnocarpium dryopteris</i>	16.0

Viola biflora	13.0	Sphagnum capillifolium	13.0
Silene dioica	13.0	Senecio nemorensis	13.0
Rubus idaeus	13.0	Rhytidadelphus triquetrus	13.0
Ptilium crista-castrensis	13.0	Pseudoscleropodium purum	13.0
Fagus sylvatica	13.0	Epilobium angustifolium	13.0
Dryopteris filix-mas	13.0	Calamagrostis arundinacea	13.0
Agrostis capillaris	13.0	Acer pseudoplatanus	13.0
Abies alba	13.0	Viola riviniana	10.0
Valeriana montana	10.0	Vaccinium uliginosum	10.0
Sphagnum girgensohnii	10.0	Salix silesiaca	10.0
Rosa pendulina	10.0	Rhytidadelphus squarrosus	10.0
Pteridium aquilinum	10.0	Prenanthes purpurea	10.0
Polytrichastrum alpinum	10.0	Polygonatum verticillatum	10.0
Pinus sylvestris	10.0	Orthilia secunda	10.0
Lycopodium annotinum	10.0	Linnaea borealis	10.0
Lamiastrum galeobdolon	10.0	Hypnum jutlandicum	10.0
Hypnum cupressiforme	10.0	Fragaria vesca	10.0
Dryopteris carthusiana	10.0	Dicranum fuscescens	10.0
Deschampsia cespitosa	10.0	Carex binervis	10.0
Carex bigelowii	10.0	Betula pubescens subsp. tortuosa	10.0
Athyrium filix-femina	10.0	Athyrium distentifolium	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Betula pubescens subsp. carpatica	84.0	Vaccinium myrtillus	35.0
Hylocomium splendens	26.0	Deschampsia flexuosa	10.0
Calamagrostis villosa	10.0	Vaccinium vitis-idaea	6.0
Rhododendron hirsutum	6.0		

**G1.9b - Mediterranean mountain Betula and Populus tremula woodland on mineral soils**

*Diagnostic species (phi coefficient \* 100)*

Betula pubescens subsp. celtiberica	87.6	Erica arborea	42.1
Saxifraga spathularis	40.9	Crepis lampsanoides	35.6
Genista florida	30.8	Blechnum spicant	28.9
Salix atrocinerea	27.8	Daboecia cantabrica	25.4
Cytisus balansae	24.3	Dryopteris affinis	23.4
Teucrium scorodonia	22.7	Omphalodes nitida	21.1
Betula pendula subsp. fontqueri	19.8	Quercus pyrenaica	18.5
Stellaria holostea	18.3	Luzula sylvatica	18.3
Vaccinium myrtillus	18.2	Ilex aquifolium	17.2
Sorbus aucuparia	17.0	Pteridium aquilinum	16.7
Ulex gallii	15.9	Lonicera periclymenum	15.9
Euphorbia hyberna	15.7	Digitalis purpurea	15.7
Festuca elegans	15.1		

*Constant species (occurrence frequencies)*

Betula pubescens subsp. celtiberica	82.0	Vaccinium myrtillus	57.0
Erica arborea	55.0	Sorbus aucuparia	54.0
Pteridium aquilinum	46.0	Stellaria holostea	40.0
Deschampsia flexuosa	40.0	Teucrium scorodonia	39.0
Blechnum spicant	36.0	Lonicera periclymenum	34.0
Corylus avellana	34.0	Ilex aquifolium	31.0
Frangula alnus	30.0	Poa nemoralis	29.0
Luzula sylvatica	28.0	Quercus robur	27.0
Rubus fruticosus agg.	26.0	Melampyrum pratense	26.0
Athyrium filix-femina	26.0	Saxifraga spathularis	25.0
Holcus mollis	25.0	Hedera helix	25.0
Dryopteris filix-mas	25.0	Salix atrocinerea	24.0
Oxalis acetosella	24.0	Rubus ulmifolius	23.0
Anemone nemorosa	23.0	Crepis lampsanoides	22.0
Agrostis capillaris	21.0	Dryopteris affinis	20.0
Veronica officinalis	19.0	Fagus sylvatica	18.0
Calluna vulgaris	17.0	Sorbus aria agg.	16.0
Genista florida	16.0	Solidago virgaurea	15.0
Dryopteris dilatata	15.0	Daboecia cantabrica	15.0
Potentilla erecta	14.0	Digitalis purpurea	14.0
Castanea sativa	14.0	Betula pendula	14.0
Quercus pyrenaica	13.0	Cytisus balansae	13.0
Quercus petraea	12.0	Euphorbia dulcis	12.0
Anthoxanthum odoratum	12.0	Salix caprea	10.0
Ranunculus serpens subsp. nemorosus	10.0	Festuca rubra	10.0
Erica vagans	10.0	Acer pseudoplatanus	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Betula pubescens subsp. celtiberica	82.0	Vaccinium myrtillus	17.0
Betula pendula	13.0	Pteridium aquilinum	8.0
Rubus ulmifolius	7.0	Luzula sylvatica	6.0
Erica arborea	6.0		

**G1.Aa - Carpinus and Quercus mesic deciduous woodland**

*Diagnostic species (phi coefficient \* 100)*

Carpinus betulus	31.2	Quercus petraea	21.0
Acer campestre	19.1	Polygonatum multiflorum	18.6
Viola reichenbachiana	17.5	Stellaria holostea	17.0
Anemone nemorosa	16.1	Poa nemoralis	15.8
Lamiastrum galeobdolon	15.8	Prunus avium	15.3

*Constant species (occurrence frequencies)*

Carpinus betulus	78.0	Quercus petraea	60.0
Corylus avellana	47.0	Viola reichenbachiana	46.0
Acer campestre	43.0	Poa nemoralis	41.0

Lamiastrum galeobdolon	40.0	Anemone nemorosa	40.0
Hedera helix	39.0	Fagus sylvatica	38.0
Polygonatum multiflorum	37.0	Crataegus monogyna	37.0
Stellaria holostea	36.0	Quercus robur	35.0
Prunus avium	32.0	Fraxinus excelsior	32.0
Galium odoratum	30.0	Fragaria vesca	29.0
Brachypodium sylvaticum	29.0	Geum urbanum	28.0
Rubus fruticosus agg.	25.0	Melica uniflora	25.0
Lathyrus vernus	25.0	Cornus sanguinea	25.0
Convallaria majalis	25.0	Ajuga reptans	25.0
Ligustrum vulgare	24.0	Carex sylvatica	24.0
Milium effusum	23.0	Acer pseudoplatanus	23.0
Euphorbia amygdaloides	22.0	Euonymus europaeus	22.0
Veronica chamaedrys	21.0	Tilia cordata	21.0
Mercurialis perennis	21.0	Dryopteris filix-mas	21.0
Asarum europaeum	21.0	Mycelis muralis	20.0
Melica nutans	20.0	Crataegus laevigata	20.0
Pulmonaria officinalis	19.0	Oxalis acetosella	19.0
Moehringia trinervia	18.0	Hieracium murorum	17.0
Geranium robertianum	17.0	Carex pilosa	17.0
Campanula trachelium	17.0	Aegopodium podagraria	17.0
Sorbus aucuparia	16.0	Maianthemum bifolium	16.0
Luzula luzuloides	16.0	Carex digitata	16.0
Glechoma hederacea	15.0	Atrichum undulatum	15.0
Acer platanoides	15.0	Urtica dioica	14.0
Sympytum tuberosum	14.0	Sorbus torminalis	14.0
Scrophularia nodosa	14.0	Sanicula europaea	14.0
Rosa arvensis	14.0	Lonicera xylosteum	14.0
Lathyrus niger	14.0	Galium schultesii	14.0
Galium aparine	14.0	Dactylis glomerata	14.0
Vicia sepium	13.0	Viburnum opulus	13.0
Sambucus nigra	13.0	Luzula pilosa	13.0
Hepatica nobilis	13.0	Galium sylvaticum	13.0
Cruciata glabra	13.0	Campanula persicifolia	13.0
Athyrium filix-femina	13.0	Melittis melissophyllum	12.0
Festuca heterophylla	12.0	Deschampsia cespitosa	12.0
Arum maculatum	12.0	Viola riviniana	11.0
Rosa canina agg.	11.0	Ranunculus auricomus agg.	11.0
Prunus spinosa	11.0	Lonicera periclymenum	11.0
Cardamine bulbifera	11.0	Campanula rapunculoides	11.0
Solidago virgaurea	10.0	Ranunculus ficaria	10.0
Pulmonaria obscura	10.0	Polytrichastrum formosum	10.0
Dactylis glomerata subsp. aschersoniana	10.0	Clinopodium vulgare	10.0
Alliaria petiolata	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Carpinus betulus	56.0	Quercus petraea	40.0
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Quercus robur	23.0	Hedera helix	8.0
Anemone nemorosa	8.0	Corylus avellana	7.0

### G1.Ab - Ravine woodland

*Diagnostic species (phi coefficient \* 100)*

Acer pseudoplatanus	25.6	Fraxinus excelsior	25.4
Ulmus glabra	23.4	Lamiastrum galeobdolon	23.1
Mercurialis perennis	23.0	Dryopteris filix-mas	18.5
Tilia platyphyllos	17.7	Lunaria rediviva	16.9
Asplenium scolopendrium	16.3	Galium odoratum	16.0
Corylus avellana	15.9	Geranium robertianum	15.7
Actaea spicata	15.4	Sambucus nigra	15.2
Acer platanoides	15.1		

*Constant species (occurrence frequencies)*

Fraxinus excelsior	73.0	Acer pseudoplatanus	68.0
Lamiastrum galeobdolon	56.0	Corylus avellana	52.0
Mercurialis perennis	51.0	Dryopteris filix-mas	47.0
Fagus sylvatica	45.0	Urtica dioica	40.0
Galium odoratum	38.0	Geranium robertianum	36.0
Oxalis acetosella	35.0	Hedera helix	34.0
Ulmus glabra	33.0	Sambucus nigra	31.0
Viola reichenbachiana	30.0	Polygonatum multiflorum	29.0
Athyrium filix-femina	28.0	Aegopodium podagraria	28.0
Poa nemoralis	27.0	Geum urbanum	27.0
Carpinus betulus	27.0	Acer platanoides	27.0
Senecio nemorensis	26.0	Brachypodium sylvaticum	26.0
Tilia cordata	24.0	Anemone nemorosa	24.0
Rubus fruticosus agg.	23.0	Paris quadrifolia	23.0
Lonicera xylosteum	23.0	Asarum europaeum	22.0
Acer campestre	22.0	Picea abies	21.0
Impatiens noli-tangere	21.0	Crataegus monogyna	21.0
Carex sylvatica	21.0	Tilia platyphyllos	19.0
Mycelis muralis	19.0	Milium effusum	19.0
Sorbus aucuparia	18.0	Galium aparine	18.0
Arum maculatum	18.0	Actaea spicata	18.0
Quercus robur	17.0	Euonymus europaeus	17.0
Stellaria holostea	16.0	Stachys sylvatica	16.0
Plagiomnium undulatum	16.0	Fragaria vesca	16.0
Campanula trachelium	16.0	Rubus idaeus	15.0
Quercus petraea	15.0	Melica nutans	15.0
Cornus sanguinea	15.0	Prunus avium	14.0
Primula elatior	14.0	Polystichum aculeatum	14.0
Moehringia trinervia	14.0	Lathyrus vernus	14.0
Ajuga reptans	14.0	Abies alba	14.0
Pulmonaria officinalis	13.0	Melica uniflora	13.0

<i>Circaea lutetiana</i>	13.0	<i>Asplenium scolopendrium</i>	13.0
<i>Pulmonaria obscura</i>	12.0	<i>Hepatica nobilis</i>	12.0
<i>Glechoma hederacea</i>	12.0	<i>Epilobium montanum</i>	12.0
<i>Daphne mezereum</i>	12.0	<i>Alliaria petiolata</i>	12.0
<i>Sanicula europaea</i>	11.0	<i>Prenanthes purpurea</i>	11.0
<i>Heracleum sphondylium</i>	11.0	<i>Eurhynchium striatum</i>	11.0
<i>Dryopteris dilatata</i>	11.0	<i>Carex digitata</i>	11.0
<i>Viburnum opulus</i>	10.0	<i>Stellaria nemorum</i>	10.0
<i>Salvia glutinosa</i>	10.0	<i>Phyteuma spicatum</i>	10.0
<i>Petasites albus</i>	10.0	<i>Lilium martagon</i>	10.0
<i>Ligustrum vulgare</i>	10.0	<i>Euphorbia amygdaloides</i>	10.0
<i>Convallaria majalis</i>	10.0	<i>Cardamine bulbifera</i>	10.0
<i>Adoxa moschatellina</i>	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Fraxinus excelsior</i>	41.0	<i>Acer pseudoplatanus</i>	35.0
<i>Mercurialis perennis</i>	14.0	<i>Tilia cordata</i>	13.0
<i>Corylus avellana</i>	11.0	<i>Tilia platyphyllos</i>	8.0
<i>Ulmus glabra</i>	7.0	<i>Hedera helix</i>	7.0
<i>Lamiastrum galeobdolon</i>	6.0	<i>Fagus sylvatica</i>	6.0

**G1.Ba - *Alnus cordata* woodland**

*Diagnostic species (phi coefficient \* 100)*

<i>Alnus cordata</i>	98.1	<i>Polystichum setiferum</i>	48.9
<i>Cyclamen repandum</i>	41.9	<i>Chaerophyllum temulum</i>	41.5
<i>Helleborus lividus</i> subsp. <i>corsicus</i>	41.4	<i>Ranunculus lanuginosus</i>	41.3
<i>Bryonia cretica</i>	36.3	<i>Lathyrus venetus</i>	34.8
<i>Potentilla micrantha</i>	34.5	<i>Pteridium aquilinum</i>	33.4
<i>Geranium versicolor</i>	32.7	<i>Castanea sativa</i>	32.7
<i>Anemone apennina</i>	29.7	<i>Acer cappadocicum</i>	29.0
<i>Digitalis lutea</i>	28.9	<i>Calystegia silvatica</i>	28.4
<i>Hypericum hircinum</i>	28.3	<i>Daphne laureola</i>	27.7
<i>Rumex sanguineus</i>	27.0	<i>Oenanthe pimpinelloides</i>	26.9
<i>Aremonia agrimonoides</i>	26.4	<i>Geranium robertianum</i>	26.2
<i>Festuca heterophylla</i>	26.1	<i>Lamium flexuosum</i>	26.0
<i>Allium triquetrum</i>	25.7	<i>Clematis vitalba</i>	25.5
<i>Viola alba</i>	25.1	<i>Brachypodium sylvaticum</i>	25.0
<i>Luzula forsteri</i>	24.6	<i>Geranium nodosum</i>	24.4
<i>Rubus ulmifolius</i>	24.0	<i>Crocus imperati</i>	23.4
<i>Dittrichia viscosa</i>	22.9	<i>Galium rotundifolium</i>	22.5
<i>Senecio stabianus</i>	22.4	<i>Crocus corsicus</i>	22.2
<i>Asperula taurina</i>	22.0	<i>Lamium bifidum</i>	21.8
<i>Cymbalaria hepaticifolia</i>	21.6	<i>Colchicum neapolitanum</i>	21.6
<i>Arisarum proboscideum</i>	20.3	<i>Lilium bulbiferum</i>	19.2
<i>Quercus ilex</i>	19.1	<i>Asperula laevigata</i>	18.8
<i>Carex microcarpa</i>	18.6	<i>Ilex aquifolium</i>	18.5

<i>Stachys sylvatica</i>	18.2	<i>Fraxinus ornus</i>	17.9
<i>Mycelis muralis</i>	17.8	<i>Clinopodium vulgare</i>	17.5
<i>Hedera helix</i>	17.4	<i>Primula vulgaris</i>	17.3
<i>Parentucellia viscosa</i>	17.2	<i>Lathyrus clymenum</i>	17.2
<i>Allium pendulinum</i>	16.8	<i>Juglans regia</i>	16.7
<i>Epipactis microphylla</i>	16.3	<i>Sanicula europaea</i>	16.2
<i>Bellium bellidiooides</i>	15.8	<i>Helleborus bocconei</i>	15.6
<i>Narcissus poeticus</i>	15.5	<i>Briza minor</i>	15.4
<i>Crataegus monogyna</i>	15.2	<i>Bellis sylvestris</i>	15.1

*Constant species (occurrence frequencies)*

<i>Alnus cordata</i>	100.0	<i>Pteridium aquilinum</i>	89.0
<i>Brachypodium sylvaticum</i>	67.0	<i>Geranium robertianum</i>	61.0
<i>Polystichum setiferum</i>	56.0	<i>Hedera helix</i>	56.0
<i>Ranunculus lanuginosus</i>	50.0	<i>Crataegus monogyna</i>	50.0
<i>Castanea sativa</i>	50.0	<i>Clematis vitalba</i>	44.0
<i>Rubus ulmifolius</i>	39.0	<i>Rubus fruticosus agg.</i>	39.0
<i>Mycelis muralis</i>	39.0	<i>Chaerophyllum temulum</i>	39.0
<i>Fragaria vesca</i>	39.0	<i>Festuca heterophylla</i>	39.0
<i>Stachys sylvatica</i>	33.0	<i>Potentilla micrantha</i>	33.0
<i>Poa trivialis</i>	33.0	<i>Lathyrus venetus</i>	33.0
<i>Ilex aquifolium</i>	33.0	<i>Geum urbanum</i>	33.0
<i>Daphne laureola</i>	33.0	<i>Cyclamen repandum</i>	33.0
<i>Clinopodium vulgare</i>	33.0	<i>Viola reichenbachiana</i>	28.0
<i>Viola alba</i>	28.0	<i>Stellaria media</i>	28.0
<i>Sanicula europaea</i>	28.0	<i>Rumex sanguineus</i>	28.0
<i>Quercus ilex</i>	28.0	<i>Melica uniflora</i>	28.0
<i>Luzula forsteri</i>	28.0	<i>Fraxinus ornus</i>	28.0
<i>Bryonia cretica</i>	28.0	<i>Arenaria agrimonoides</i>	28.0
<i>Urtica dioica</i>	22.0	<i>Tamus communis</i>	22.0
<i>Primula vulgaris</i>	22.0	<i>Helleborus lividus subsp. corsicus</i>	22.0
<i>Galium rotundifolium</i>	22.0	<i>Galium aparine</i>	22.0
<i>Digitalis lutea</i>	22.0	<i>Circaeae lutetiana</i>	22.0
<i>Ajuga reptans</i>	22.0	<i>Viola riviniana</i>	17.0
<i>Teucrium scorodonia</i>	17.0	<i>Sambucus nigra</i>	17.0
<i>Rosa canina agg.</i>	17.0	<i>Quercus pubescens</i>	17.0
<i>Prunus spinosa</i>	17.0	<i>Oenanthe pimpinelloides</i>	17.0
<i>Geranium versicolor</i>	17.0	<i>Geranium nodosum</i>	17.0
<i>Euphorbia amygdaloides</i>	17.0	<i>Dittrichia viscosa</i>	17.0
<i>Dactylis glomerata</i>	17.0	<i>Anemone apennina</i>	17.0
<i>Vinca minor</i>	11.0	<i>Veronica montana</i>	11.0
<i>Sympytum tuberosum</i>	11.0	<i>Salvia glutinosa</i>	11.0
<i>Ruscus aculeatus</i>	11.0	<i>Rubia peregrina</i>	11.0
<i>Rosa arvensis</i>	11.0	<i>Quercus cerris</i>	11.0
<i>Pyrus communis agg.</i>	11.0	<i>Prunus avium</i>	11.0
<i>Prunella vulgaris</i>	11.0	<i>Ostrya carpinifolia</i>	11.0
<i>Muscaris comosum</i>	11.0	<i>Moehringia trinervia</i>	11.0
<i>Mercurialis perennis</i>	11.0	<i>Lilium bulbiferum</i>	11.0

Lathyrus niger	11.0	Lamium flexuosum	11.0
Juglans regia	11.0	Hypericum montanum	11.0
Hypericum hircinum	11.0	Digitalis purpurea	11.0
Carex flacca	11.0	Calystegia silvatica	11.0
Asplenium onopteris	11.0	Asperula taurina	11.0
Arum italicum	11.0	Aquilegia vulgaris	11.0
Allium triquetrum	11.0	Acer cappadocicum	11.0
Acer campestre	11.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Alnus cordata	100.0	Pteridium aquilinum	28.0
Sanicula europaea	11.0	Rubus fruticosus agg.	11.0
Ranunculus lanuginosus	11.0	Brachypodium sylvaticum	11.0
Viola alba	6.0	Senecio stibianus	6.0
Rubus ulmifolius	6.0	Hedera helix	6.0
Dittrichia viscosa	6.0	Daphne laureola	6.0
Anemone apennina	6.0		

**G2.1 - Mediterranean evergreen Quercus woodland**

*Diagnostic species (phi coefficient \* 100)*

Quercus rotundifolia	42.7	Rubia peregrina	41.6
Quercus ilex	41.0	Smilax aspera	33.8
Asplenium onopteris	31.2	Arbutus unedo	31.1
Quercus suber	30.8	Asparagus acutifolius	30.5
Phillyrea latifolia	30.2	Carex distachya	28.9
Ruscus aculeatus	28.6	Daphne gnidium	28.0
Lonicera implexa	25.4	Rhamnus alaternus	24.8
Viburnum tinus	24.7	Erica arborea	24.3
Pistacia lentiscus	21.7	Rosa sempervirens	19.9
Pistacia terebinthus	19.2	Osyris alba	19.2
Lonicera etrusca	18.8	Cistus salvifolius	18.8
Phillyrea angustifolia	18.5	Juniperus oxycedrus	18.4
Clematis flammula	18.3	Quercus coccifera	17.2
Euphorbia characias	16.9	Myrtus communis	16.7
Carex hallerana	16.7	Viola alba	16.6
Rubus ulmifolius	16.5	Brachypodium retusum	16.4
Olea europaea var. europaea	16.3	Lavandula stoechas	16.3
Cyclamen repandum	16.2	Quercus faginea	15.9
Ulex parviflorus	15.5		

*Constant species (occurrence frequencies)*

Rubia peregrina	72.0	Quercus ilex	56.0
Smilax aspera	41.0	Ruscus aculeatus	41.0
Asparagus acutifolius	40.0	Hedera helix	35.0
Quercus rotundifolia	32.0	Phillyrea latifolia	31.0
Arbutus unedo	31.0	Crataegus monogyna	30.0

Erica arborea	27.0	Rubus ulmifolius	26.0
Pistacia lentiscus	25.0	Asplenium onopteris	25.0
Tamus communis	23.0	Quercus pubescens	23.0
Daphne gnidium	23.0	Rhamnus alaternus	22.0
Lonicera implexa	22.0	Quercus suber	21.0
Juniperus oxycedrus	21.0	Teucrium chamaedrys	20.0
Brachypodium retusum	20.0	Cistus salvifolius	18.0
Carex distachya	18.0	Viola alba	17.0
Quercus coccifera	17.0	Carex hallerana	17.0
Brachypodium sylvaticum	17.0	Viburnum tinus	16.0
Fraxinus ornus	16.0	Rosa sempervirens	15.0
Pistacia terebinthus	15.0	Phillyrea angustifolia	15.0
Lonicera etrusca	15.0	Clematis flammula	15.0
Dactylis glomerata	14.0	Osyris alba	13.0
Myrtus communis	12.0	Pteridium aquilinum	11.0
Prunus spinosa	11.0	Lavandula stoechas	11.0
Euphorbia characias	11.0	Olea europaea var. europaea	10.0
Luzula forsteri	10.0	Hippocrepis emerus	10.0
Geranium purpureum	10.0	Buxus sempervirens	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Quercus ilex	51.0	Quercus rotundifolia	30.0
Quercus suber	18.0	Hedera helix	5.0

## G2.2 - Mainland laurophylloous woodland

*Diagnostic species (phi coefficient \* 100)*

Laurus nobilis	90.4	Celtis australis	50.1
Ruscus aculeatus	49.1	Rhamnus alaternus	48.3
Smilax aspera	44.0	Quercus ilex	38.1
Rubus ulmifolius	37.1	Orobanche hederae	34.8
Rosa sempervirens	33.8	Acanthus mollis	33.1
Rubia peregrina	32.9	Hedera helix	28.9
Asplenium onopteris	28.8	Tamus communis	27.5
Viburnum tinus	25.5	Prunus x fruticans	24.5
Chamaerops humilis	22.6	Arum italicum	22.3
Phillyrea latifolia	20.4	Trachycarpus excelsa	19.3
Elaeagnus pungens	19.3	Asparagus acutifolius	19.1
Ligustrum japonicum	18.7	Urtica rupestris	18.6
Ficus carica	18.4	Clematis vitalba	17.6
Hypericum androsaemum	17.5	Vinca major	17.1
Lonicera japonica	16.8	Platanus x hispanica	16.4
Osmunda regalis	16.4	Dryopteris pallida	16.4
Polystichum setiferum	15.8		

*Constant species (occurrence frequencies)*

Laurus nobilis	100.0	Hedera helix	88.0
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Ruscus aculeatus	81.0	Smilax aspera	62.0
Rubus ulmifolius	62.0	Rubia peregrina	62.0
Quercus ilex	58.0	Rhamnus alaternus	54.0
Tamus communis	46.0	Rosa sempervirens	31.0
Clematis vitalba	31.0	Celtis australis	31.0
Corylus avellana	27.0	Asplenium onopteris	27.0
Asparagus acutifolius	27.0	Phillyrea latifolia	23.0
Lonicera periclymenum	23.0	Viburnum tinus	19.0
Ulmus minor	19.0	Sambucus nigra	19.0
Quercus pubescens	19.0	Pteridium aquilinum	19.0
Prunus avium	19.0	Crataegus monogyna	19.0
Cornus sanguinea	19.0	Brachypodium sylvaticum	19.0
Arum italicum	19.0	Polystichum setiferum	15.0
Orobanche hederae	15.0	Melica uniflora	15.0
Fraxinus ornus	15.0	Asplenium trichomanes	15.0
Acanthus mollis	15.0	Pistacia terebinthus	12.0
Chamaerops humilis	12.0	Hypericum androsaemum	12.0
Hippocrepis emerus	12.0	Fraxinus angustifolia	12.0
Carex sylvatica	12.0		

Dominant species (percentage frequencies of occurrences with cover > 25%)

Laurus nobilis	100.0	Hedera helix	27.0
Smilax aspera	12.0	Ruscus aculeatus	12.0
Rubus ulmifolius	8.0	Rhamnus alaternus	8.0
Clematis vitalba	8.0		

### G2.3 - Macaronesian laurophyllous woodland

Diagnostic species (phi coefficient \* 100)

Laurus azorica	100.0	Ilex canariensis	100.0
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Constant species (occurrence frequencies)

Laurus azorica	100.0	Ilex canariensis	100.0
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Dominant species (percentage frequencies of occurrences with cover > 25%)

### G2.6 - Ilex aquifolium woodland

Diagnostic species (phi coefficient \* 100)

Ilex aquifolium	53.0	Lonicera periclymenum	19.6
Rosa gr. canina	18.1	Hedera helix	17.0

Constant species (occurrence frequencies)

Ilex aquifolium	100.0	Hedera helix	54.0
Lonicera periclymenum	41.0	Pteridium aquilinum	40.0
Rubus fruticosus agg.	31.0	Crataegus monogyna	31.0

<i>Fagus sylvatica</i>	30.0	<i>Corylus avellana</i>	26.0
<i>Vaccinium myrtillus</i>	21.0	<i>Sorbus aucuparia</i>	21.0
<i>Quercus petraea</i>	21.0	<i>Deschampsia flexuosa</i>	20.0
<i>Oxalis acetosella</i>	19.0	<i>Sanicula europaea</i>	17.0
<i>Rubus ulmifolius</i>	17.0	<i>Polytrichastrum formosum</i>	17.0
<i>Hypnum cupressiforme</i>	17.0	<i>Tamus communis</i>	16.0
<i>Melica uniflora</i>	16.0	<i>Geranium robertianum</i>	16.0
<i>Frangula alnus</i>	16.0	<i>Dryopteris filix-mas</i>	16.0
<i>Blechnum spicant</i>	16.0	<i>Rosa canina</i> agg.	14.0
<i>Prunus spinosa</i>	14.0	<i>Poa nemoralis</i>	14.0
<i>Ruscus aculeatus</i>	13.0	<i>Rosa arvensis</i>	13.0
<i>Fraxinus excelsior</i>	13.0	<i>Dryopteris dilatata</i>	13.0
<i>Viola reichenbachiana</i>	11.0	<i>Urtica dioica</i>	11.0
<i>Stellaria holostea</i>	11.0	<i>Quercus robur</i>	11.0
<i>Mnium hornum</i>	11.0	<i>Leucobryum glaucum</i>	11.0
<i>Euphorbia amygdaloides</i>	11.0	<i>Carpinus betulus</i>	11.0
<i>Calluna vulgaris</i>	11.0	<i>Thuidium tamariscinum</i>	10.0
<i>Sambucus nigra</i>	10.0	<i>Holcus mollis</i>	10.0
<i>Daphne laureola</i>	10.0	<i>Anemone nemorosa</i>	10.0
<i>Acer campestre</i>	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Ilex aquifolium</i>	100.0	<i>Pteridium aquilinum</i>	9.0
<i>Hedera helix</i>	7.0	<i>Vaccinium myrtillus</i>	6.0

**G3.1a - Temperate mountain Picea woodland**

*Diagnostic species (phi coefficient \* 100)*

<i>Melampyrum sylvaticum</i>	39.1	<i>Picea abies</i>	37.0
<i>Homogyne alpina</i>	35.5	<i>Luzula luzulina</i>	30.6
<i>Calamagrostis villosa</i>	28.5	<i>Hieracium murorum</i>	27.1
<i>Veronica urticifolia</i>	26.7	<i>Vaccinium myrtillus</i>	26.1
<i>Gymnocarpium dryopteris</i>	25.7	<i>Oxalis acetosella</i>	25.4
<i>Luzula sylvatica</i>	25.4	<i>Lycopodium annotinum</i>	24.5
<i>Prenanthes purpurea</i>	24.2	<i>Hylocomium splendens</i>	24.2
<i>Dicranum scoparium</i>	23.4	<i>Rhytidadelphus triquetrus</i>	23.3
<i>Lonicera nigra</i>	23.2	<i>Larix decidua</i>	23.0
<i>Viola biflora</i>	22.7	<i>Valeriana tripteris</i>	22.7
<i>Sorbus aucuparia</i>	22.5	<i>Adenostyles alliariae</i>	22.3
<i>Mnium spinosum</i>	21.0	<i>Vaccinium vitis-idaea</i>	20.8
<i>Dryopteris carthusiana</i> agg.	20.4	<i>Polygonatum verticillatum</i>	18.7
<i>Listera cordata</i>	18.7	<i>Huperzia selago</i>	18.5
<i>Luzula nivea</i>	18.1	<i>Solidago virgaurea</i>	17.9
<i>Plagiochila asplenoides</i>	17.9	<i>Abies alba</i>	17.9
<i>Rosa pendulina</i>	17.3	<i>Maianthemum bifolium</i>	17.3
<i>Moneses uniflora</i>	16.8	<i>Adenostyles alpina</i>	16.7
<i>Gentiana asclepiadea</i>	15.9	<i>Cicerbita alpina</i>	15.9

<i>Polystichum lonchitis</i>	15.7	<i>Polytrichastrum formosum</i>	15.6
<i>Lonicera alpigena</i>	15.5	<i>Asplenium viride</i>	15.4
<i>Athyrium filix-femina</i>	15.1	<i>Knautia dipsacifolia</i>	15.0

*Constant species (occurrence frequencies)*

<i>Picea abies</i>	100.0	<i>Vaccinium myrtillus</i>	78.0
<i>Oxalis acetosella</i>	71.0	<i>Sorbus aucuparia</i>	69.0
<i>Hieracium murorum</i>	64.0	<i>Dicranum scoparium</i>	52.0
<i>Solidago virgaurea</i>	45.0	<i>Homogyne alpina</i>	45.0
<i>Hylocomium splendens</i>	44.0	<i>Prenanthes purpurea</i>	42.0
<i>Deschampsia flexuosa</i>	41.0	<i>Vaccinium vitis-idaea</i>	40.0
<i>Athyrium filix-femina</i>	39.0	<i>Melampyrum sylvaticum</i>	38.0
<i>Luzula sylvatica</i>	38.0	<i>Abies alba</i>	37.0
<i>Rhytidadelphus triquetrus</i>	35.0	<i>Maianthemum bifolium</i>	34.0
<i>Fragaria vesca</i>	34.0	<i>Polytrichastrum formosum</i>	33.0
<i>Fagus sylvatica</i>	32.0	<i>Rubus idaeus</i>	30.0
<i>Gymnocarpium dryopteris</i>	29.0	<i>Dryopteris dilatata</i>	29.0
<i>Dryopteris filix-mas</i>	28.0	<i>Calamagrostis villosa</i>	28.0
<i>Veronica urticifolia</i>	27.0	<i>Pleurozium schreberi</i>	27.0
<i>Polygonatum verticillatum</i>	25.0	<i>Acer pseudoplatanus</i>	25.0
<i>Larix decidua</i>	24.0	<i>Viola biflora</i>	22.0
<i>Senecio nemorensis</i>	22.0	<i>Luzula luzuloides</i>	22.0
<i>Valeriana tripteris</i>	21.0	<i>Lonicera nigra</i>	21.0
<i>Phyteuma spicatum</i>	19.0	<i>Luzula luzulina</i>	19.0
<i>Lamiastrum galeobdolon</i>	19.0	<i>Adenostyles alliariae</i>	19.0
<i>Veronica officinalis</i>	18.0	<i>Paris quadrifolia</i>	18.0
<i>Mycelis muralis</i>	18.0	<i>Melica nutans</i>	18.0
<i>Lycopodium annotinum</i>	18.0	<i>Daphne mezereum</i>	18.0
<i>Viola reichenbachiana</i>	17.0	<i>Rosa pendulina</i>	17.0
<i>Luzula nivea</i>	17.0	<i>Gentiana asclepiadea</i>	17.0
<i>Rubus saxatilis</i>	16.0	<i>Plagiochila asplenoides</i>	16.0
<i>Orthilia secunda</i>	16.0	<i>Calamagrostis varia</i>	16.0
<i>Huperzia selago</i>	15.0	<i>Carex digitata</i>	15.0
<i>Veratrum album</i>	14.0	<i>Ranunculus serpens subsp. nemorosus</i>	14.0
<i>Petasites albus</i>	14.0	<i>Hypnum cupressiforme</i>	14.0
<i>Epilobium montanum</i>	14.0	<i>Adenostyles alpina</i>	14.0
<i>Rhytidadelphus loreus</i>	13.0	<i>Luzula pilosa</i>	13.0
<i>Lonicera alpigena</i>	13.0	<i>Ctenidium molluscum</i>	13.0
<i>Calamagrostis arundinacea</i>	13.0	<i>Ajuga reptans</i>	13.0
<i>Phegopteris connectilis</i>	12.0	<i>Knautia dipsacifolia</i>	12.0
<i>Hepatica nobilis</i>	12.0	<i>Geranium sylvaticum</i>	12.0
<i>Carex alba</i>	12.0	<i>Sorbus aria agg.</i>	11.0
<i>Potentilla erecta</i>	11.0	<i>Polygala chamaebuxus</i>	11.0
<i>Poa nemoralis</i>	11.0	<i>Mercurialis perennis</i>	11.0
<i>Deschampsia cespitosa</i>	11.0	<i>Blechnum spicant</i>	11.0
<i>Aster bellidiastrum</i>	11.0	<i>Asplenium viride</i>	11.0
<i>Tortella tortuosa</i>	10.0	<i>Saxifraga rotundifolia</i>	10.0

<i>Sanicula europaea</i>	10.0	<i>Primula elatior</i>	10.0
<i>Polystichum lonchitis</i>	10.0	<i>Chaerophyllum hirsutum</i>	10.0
<i>Corylus avellana</i>	10.0	<i>Aposeris foetida</i>	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Picea abies</i>	100.0	<i>Vaccinium myrtillus</i>	22.0
<i>Hylocomium splendens</i>	12.0	<i>Oxalis acetosella</i>	6.0
<i>Rhytidadelphus triquetrus</i>	5.0	<i>Calamagrostis villosa</i>	5.0

**G3.1b - Temperate mountain Abies woodland**

*Diagnostic species (phi coefficient \* 100)*

<i>Abies alba</i>	48.5	<i>Prenanthes purpurea</i>	30.3
<i>Lonicera nigra</i>	29.2	<i>Oxalis acetosella</i>	26.4
<i>Picea abies</i>	21.7	<i>Galium rotundifolium</i>	21.0
<i>Festuca altissima</i>	20.0	<i>Dryopteris filix-mas</i>	20.0
<i>Fagus sylvatica</i>	19.4	<i>Hieracium murorum</i>	19.0
<i>Sorbus aucuparia</i>	18.9	<i>Polygonatum verticillatum</i>	18.9
<i>Athyrium filix-femina</i>	18.9	<i>Luzula nivea</i>	18.5
<i>Senecio nemorensis</i>	18.0	<i>Rubus idaeus</i>	18.0
<i>Mycelis muralis</i>	16.8	<i>Dryopteris dilatata</i>	16.7
<i>Galium odoratum</i>	15.5	<i>Epilobium montanum</i>	15.5
<i>Sambucus racemosa</i>	15.4	<i>Veronica urticifolia</i>	15.1
<i>Rosa pendulina</i>	15.0		

*Constant species (occurrence frequencies)*

<i>Abies alba</i>	96.0	<i>Oxalis acetosella</i>	73.0
<i>Fagus sylvatica</i>	70.0	<i>Picea abies</i>	60.0
<i>Sorbus aucuparia</i>	58.0	<i>Prenanthes purpurea</i>	51.0
<i>Dryopteris filix-mas</i>	51.0	<i>Athyrium filix-femina</i>	47.0
<i>Hieracium murorum</i>	45.0	<i>Vaccinium myrtillus</i>	43.0
<i>Rubus idaeus</i>	43.0	<i>Viola reichenbachiana</i>	41.0
<i>Fragaria vesca</i>	41.0	<i>Acer pseudoplatanus</i>	38.0
<i>Galium odoratum</i>	37.0	<i>Mycelis muralis</i>	36.0
<i>Senecio nemorensis</i>	33.0	<i>Rubus fruticosus agg.</i>	32.0
<i>Lamiastrum galeobdolon</i>	32.0	<i>Dryopteris dilatata</i>	32.0
<i>Corylus avellana</i>	32.0	<i>Solidago virgaurea</i>	29.0
<i>Polytrichastrum formosum</i>	29.0	<i>Maianthemum bifolium</i>	27.0
<i>Lonicera nigra</i>	26.0	<i>Geranium robertianum</i>	25.0
<i>Deschampsia flexuosa</i>	25.0	<i>Polygonatum verticillatum</i>	24.0
<i>Epilobium montanum</i>	24.0	<i>Dicranum scoparium</i>	24.0
<i>Carex sylvatica</i>	23.0	<i>Paris quadrifolia</i>	22.0
<i>Mercurialis perennis</i>	22.0	<i>Hylocomium splendens</i>	22.0
<i>Carex digitata</i>	22.0	<i>Sanicula europaea</i>	21.0
<i>Lonicera xylosteum</i>	20.0	<i>Festuca altissima</i>	20.0
<i>Galium rotundifolium</i>	19.0	<i>Dryopteris carthusiana</i>	19.0
<i>Veronica officinalis</i>	18.0	<i>Phyteuma spicatum</i>	18.0

Luzula luzuloides	18.0	Fraxinus excelsior	18.0
Ajuga reptans	18.0	Sorbus aria agg.	17.0
Sambucus racemosa	17.0	Luzula pilosa	17.0
Luzula nivea	17.0	Thuidium tamariscinum	16.0
Rhytidadelphus triquetrus	16.0	Luzula sylvatica	16.0
Gymnocarpium dryopteris	16.0	Rosa pendulina	15.0
Hypnum cupressiforme	15.0	Hepatica nobilis	15.0
Actaea spicata	15.0	Veronica urticifolia	14.0
Poa nemoralis	14.0	Melica nutans	14.0
Lathyrus vernus	14.0	Hedera helix	14.0
Eurhynchium striatum	13.0	Daphne mezereum	13.0
Calamagrostis arundinacea	13.0	Petasites albus	12.0
Moehringia trinervia	12.0	Euphorbia amygdaloides	12.0
Quercus petraea	11.0	Pteridium aquilinum	11.0
Polystichum aculeatum	11.0	Plagiomnium undulatum	11.0
Orthilia secunda	11.0	Neottia nidus-avis	11.0
Milium effusum	11.0	Impatiens noli-tangere	11.0
Brachypodium sylvaticum	11.0	Astrichum undulatum	11.0
Anemone nemorosa	11.0	Sambucus nigra	10.0
Salvia glutinosa	10.0	Rhytidadelphus loreus	10.0
Plagiomnium affine	10.0	Plagiochila asplenoides	10.0
Melica uniflora	10.0	Melampyrum sylvaticum	10.0
Lonicera alpigena	10.0	Hordelymus europaeus	10.0
Gentiana asclepiadea	10.0	Asarum europaeum	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Abies alba	96.0	Oxalis acetosella	11.0
Vaccinium myrtillus	8.0	Fagus sylvatica	8.0
Picea abies	7.0	Hylocomium splendens	5.0

**G3.1c - Mediterranean mountain Abies woodland**

*Diagnostic species (phi coefficient \* 100)*

Abies pinsapo	79.5	Daphne latifolia	66.6
Abies cephalonica	49.3	Ononis reuteri	42.5
Geranium purpureum	42.0	Cerastium gibraltaricum	41.4
Rosa sicula	41.3	Carum graecum	41.0
Hyacinthoides hispanica	39.8	Doronicum plantagineum	39.5
Hieracium pannosum	38.9	Piptatherum paradoxum	37.3
Paeonia broteroi	37.0	Berberis vulgaris	34.1
Rosa micrantha	33.0	Daphne oleoides	32.6
Helleborus foetidus	31.6	Hieracium cymosum	30.7
Quercus Xmarianica	30.0	Jurinea boconii	30.0
Genista cupanii	30.0	Galium peloponnesiacum	30.0
Bupleurum spinosum	30.0	Atropa baetica	30.0
Amelanchier chelmea	30.0	Plantago humilis	29.9
Abies nebrodensis	29.9	Odontites bocconeii	29.7

<i>Conopodium thalictrifolium</i>	29.7	<i>Asperula chlorantha</i>	29.7
<i>Lilium heldreichii</i>	29.6	<i>Juniperus drupacea</i>	29.6
<i>Armeria villosa</i>	29.6	<i>Danthoniastrum compactum</i>	29.5
<i>Armeria nebrodensis</i>	29.5	<i>Pinus nigra</i>	29.4
<i>Staehelina uniflosculosa</i>	29.3	<i>Scabiosa taygetea</i>	29.3
<i>Hedera helix</i> subsp. <i>canariensis</i>	29.2	<i>Euphorbia deflexa</i>	29.2
<i>Paeonia coriacea</i>	29.1	<i>Lonicera arborea</i>	29.1
<i>Leontodon graecus</i>	29.0	<i>Dianthus arrostii</i>	29.0
<i>Ulex baeticus</i>	28.9	<i>Sorbus umbellata</i>	28.8
<i>Ferulago nodosa</i>	28.8	<i>Crataegus pycnoloba</i>	28.6
<i>Lomelosia crenata</i>	28.5	<i>Cirsium hypolepis</i>	28.4
<i>Rosa pulverulenta</i>	28.1	<i>Ranunculus sprunerianus</i>	28.1
<i>Achillea holosericea</i>	27.9	<i>Quercus faginea</i>	26.7
<i>Thapsia garganica</i>	26.3	<i>Lamium garganicum</i>	26.0
<i>Erinacea anthyllis</i>	26.0	<i>Aremonia agrimonoides</i>	25.9
<i>Picnomon acarna</i>	25.5	<i>Santolina rosmarinifolia</i>	25.1
<i>Festuca jeanpertii</i>	25.0	<i>Bunium alpinum</i>	25.0
<i>Cistus populifolius</i>	24.6	<i>Cnidium silaifolium</i>	24.2
<i>Centaurea raphanina</i>	23.2	<i>Asyneuma limonifolium</i>	23.1
<i>Crepis fraasii</i>	22.6	<i>Asphodelus cerasiferus</i>	22.5
<i>Arabis collina</i>	22.2	<i>Silene italica</i>	22.0
<i>Bellis sylvestris</i>	22.0	<i>Quercus rotundifolia</i>	21.7
<i>Marrubium vulgare</i>	21.6	<i>Hypericum empetrifolium</i>	20.9
<i>Campanula spatulata</i>	20.0	<i>Rubia peregrina</i>	19.5
<i>Polygala nicaeensis</i>	19.5	<i>Geranium rotundifolium</i>	16.5
<i>Pulicaria odora</i>	15.8	<i>Hippocrepis emerus</i>	15.4
<i>Eryngium amethystinum</i>	15.4	<i>Cotoneaster tomentosus</i>	15.4
<i>Juniperus oxycedrus</i>	15.3		

*Constant species (occurrence frequencies)*

<i>Abies pinsapo</i>	64.0	<i>Daphne latifolia</i>	45.0
<i>Rubia peregrina</i>	36.0	<i>Helleborus foetidus</i>	36.0
<i>Geranium purpureum</i>	36.0	<i>Berberis vulgaris</i>	36.0
<i>Pinus nigra</i>	27.0	<i>Crataegus monogyna</i>	27.0
<i>Aremonia agrimonoides</i>	27.0	<i>Abies cephalonica</i>	27.0
<i>Silene italica</i>	18.0	<i>Ruscus aculeatus</i>	18.0
<i>Rosa sicula</i>	18.0	<i>Rosa micrantha</i>	18.0
<i>Quercus rotundifolia</i>	18.0	<i>Quercus faginea</i>	18.0
<i>Pteridium aquilinum</i>	18.0	<i>Piptatherum paradoxum</i>	18.0
<i>Paeonia broteroii</i>	18.0	<i>Ononis reuteri</i>	18.0
<i>Juniperus oxycedrus</i>	18.0	<i>Juniperus communis</i> subsp. <i>communis</i>	18.0
<i>Hyacinthoides hispanica</i>	18.0	<i>Hippocrepis emerus</i>	18.0
<i>Hieracium pannosum</i>	18.0	<i>Hieracium cymosum</i>	18.0
<i>Hedera helix</i>	18.0	<i>Doronicum plantagineum</i>	18.0
<i>Daphne oleoides</i>	18.0	<i>Cerastium gibraltaricum</i>	18.0
<i>Carum graecum</i>	18.0	<i>Brachypodium sylvaticum</i>	18.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Abies pinsapo	64.0	Abies cephalonica	27.0
Pinus nigra	9.0	Juniperus communis subsp. communis	9.0
Brachypodium sylvaticum	9.0	Abies nebrodensis	9.0

**G3.2 - Temperate subalpine Larix, Pinus cembra and Pinus uncinata woodland**

*Diagnostic species (phi coefficient \* 100)*

Larix decidua	56.3	Rhododendron ferrugineum	52.4
Pinus cembra	48.1	Pinus uncinata	41.7
Homogyne alpina	37.6	Festuca flavescent	31.9
Calamagrostis villosa	31.4	Sorbus chamaemespilus	31.3
Melampyrum sylvaticum	30.6	Lonicera caerulea	30.6
Vaccinium vitis-idaea	28.6	Juniperus communis subsp. alpina	27.4
Valeriana tripteris	27.0	Rhododendron hirsutum	25.4
Alnus viridis	23.8	Vaccinium myrtillus	22.6
Rosa pendulina	22.6	Campanula scheuchzeri	22.6
Geranium sylvaticum	22.5	Hieracium prenanthoides	21.6
Polystichum lonchitis	21.5	Clematis alpina	21.5
Salix appendiculata	21.3	Luzula sieberi	21.1
Saxifraga cuneifolia	20.7	Rhytidadelphus triquetrus	19.9
Hylocomium splendens	19.1	Soldanella alpina	19.0
Viola biflora	18.7	Aster bellidiastrium	18.6
Peucedanum ostruthium	18.4	Luzula nivea	18.2
Gentiana purpurea	17.8	Picea abies	17.6
Luzula sylvatica	17.5	Paederota lutea	17.4
Astrantia minor	17.4	Rhodothamnus chamaecistus	17.3
Ranunculus oreophilus	17.1	Lycopodium annotinum	17.1
Pinus mugo	16.9	Laserpitium peucedanoides	16.6
Erica herbacea	16.4	Hieracium murorum	16.1
Dicranum scoparium	15.7	Pulsatilla alpina	15.6
Gentiana punctata	15.4	Calamagrostis varia	15.2

*Constant species (occurrence frequencies)*

Vaccinium myrtillus	69.0	Larix decidua	69.0
Vaccinium vitis-idaea	55.0	Rhododendron ferrugineum	50.0
Picea abies	50.0	Homogyne alpina	49.0
Sorbus aucuparia	48.0	Deschampsia flexuosa	42.0
Hieracium murorum	40.0	Dicranum scoparium	36.0
Hylocomium splendens	35.0	Solidago virgaurea	34.0
Calamagrostis villosa	33.0	Pinus cembra	32.0
Oxalis acetosella	32.0	Rhytidadelphus triquetrus	31.0
Melampyrum sylvaticum	31.0	Geranium sylvaticum	30.0
Pinus uncinata	29.0	Luzula sylvatica	27.0
Valeriana tripteris	26.0	Pleurozium schreberi	26.0
Juniperus communis subsp. alpina	26.0	Rosa pendulina	24.0

<i>Campanula scheuchzeri</i>	23.0	<i>Sesleria caerulea</i>	21.0
<i>Juniperus communis</i> subsp. <i>communis</i>	21.0	<i>Vaccinium uliginosum</i>	20.0
<i>Aster bellidiastrum</i>	19.0	<i>Anthoxanthum odoratum</i>	19.0
<i>Viola biflora</i>	18.0	<i>Sorbus chamaemespilus</i>	18.0
<i>Luzula nivea</i>	17.0	<i>Lotus corniculatus</i>	17.0
<i>Calamagrostis varia</i>	17.0	<i>Rubus saxatilis</i>	16.0
<i>Rhododendron hirsutum</i>	16.0	<i>Lonicera caerulea</i>	16.0
<i>Rubus idaeus</i>	15.0	<i>Erica herbacea</i>	15.0
<i>Abies alba</i>	15.0	<i>Veratrum album</i>	14.0
<i>Polytrichastrum formosum</i>	14.0	<i>Polystichum lonchitis</i>	14.0
<i>Polygala chamaebuxus</i>	14.0	<i>Fragaria vesca</i>	14.0
<i>Clematis alpina</i>	14.0	<i>Sorbus aria agg.</i>	13.0
<i>Soldanella alpina</i>	13.0	<i>Salix appendiculata</i>	13.0
<i>Potentilla erecta</i>	13.0	<i>Lycopodium annotinum</i>	13.0
<i>Hepatica nobilis</i>	13.0	<i>Festuca flavescent</i>	13.0
<i>Daphne mezereum</i>	13.0	<i>Carex sempervirens</i>	13.0
<i>Alnus viridis</i>	13.0	<i>Tortella tortuosa</i>	12.0
<i>Pulsatilla alpina</i>	12.0	<i>Prenanthes purpurea</i>	12.0
<i>Poa nemoralis</i>	12.0	<i>Poa alpina</i>	12.0
<i>Pinus mugo</i>	12.0	<i>Chaerophyllum hirsutum</i>	12.0
<i>Huperzia selago</i>	12.0	<i>Gymnocarpium dryopteris</i>	12.0
<i>Saxifraga cuneifolia</i>	11.0	<i>Phyteuma orbiculare</i>	11.0
<i>Melica nutans</i>	11.0	<i>Maianthemum bifolium</i>	11.0
<i>Lonicera alpigena</i>	11.0	<i>Festuca rubra</i>	11.0
<i>Dryopteris dilatata</i>	11.0	<i>Valeriana montana</i>	10.0
<i>Peucedanum ostruthium</i>	10.0	<i>Orthilia secunda</i>	10.0
<i>Luzula sieberi</i>	10.0	<i>Hieracium prenanthoides</i>	10.0
<i>Helianthemum nummularium</i>	10.0	<i>Galium pumilum</i>	10.0
<i>Asplenium viride</i>	10.0	<i>Amelanchier ovalis</i>	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Larix decidua</i>	51.0	<i>Vaccinium myrtillus</i>	31.0
<i>Pinus uncinata</i>	24.0	<i>Rhododendron ferrugineum</i>	23.0
<i>Pinus cembra</i>	17.0	<i>Hylocomium splendens</i>	10.0
<i>Calamagrostis villosa</i>	6.0	<i>Vaccinium vitis-idaea</i>	5.0
<i>Rhododendron hirsutum</i>	5.0		

**G3.4a - Temperate and continental *Pinus sylvestris* woodland**

*Diagnostic species (phi coefficient \* 100)*

<i>Pinus sylvestris</i>	40.2	<i>Pleurozium schreberi</i>	24.9
<i>Dicranum polysetum</i>	24.6	<i>Betula pendula</i>	18.6
<i>Deschampsia flexuosa</i>	17.6	<i>Quercus robur</i>	15.9
<i>Dicranum scoparium</i>	15.7	<i>Vaccinium myrtillus</i>	15.3
<i>Frangula alnus</i>	15.2		

*Constant species (occurrence frequencies)*

<i>Pinus sylvestris</i>	100.0	<i>Deschampsia flexuosa</i>	53.0
<i>Pleurozium schreberi</i>	50.0	<i>Vaccinium myrtillus</i>	48.0
<i>Sorbus aucuparia</i>	46.0	<i>Betula pendula</i>	46.0
<i>Quercus robur</i>	45.0	<i>Calluna vulgaris</i>	37.0
<i>Frangula alnus</i>	35.0	<i>Dicranum scoparium</i>	35.0
<i>Vaccinium vitis-idaea</i>	27.0	<i>Picea abies</i>	27.0
<i>Rubus fruticosus agg.</i>	23.0	<i>Molinia caerulea agg.</i>	23.0
<i>Festuca ovina</i>	23.0	<i>Hypnum cupressiforme</i>	22.0
<i>Quercus petraea</i>	21.0	<i>Polytrichastrum formosum</i>	20.0
<i>Juniperus communis subsp.  communis</i>	19.0	<i>Hylocomium splendens</i>	19.0
<i>Fagus sylvatica</i>	19.0	<i>Dryopteris carthusiana</i>	19.0
<i>Dicranum polysetum</i>	19.0	<i>Melampyrum pratense</i>	18.0
<i>Agrostis capillaris</i>	18.0	<i>Pteridium aquilinum</i>	17.0
<i>Pseudoscleropodium purum</i>	16.0	<i>Luzula pilosa</i>	15.0
<i>Fragaria vesca</i>	15.0	<i>Rumex acetosella</i>	14.0
<i>Rubus idaeus</i>	14.0	<i>Dryopteris dilatata</i>	14.0
<i>Hieracium pilosella</i>	13.0	<i>Hieracium murorum</i>	13.0
<i>Prunus serotina</i>	12.0	<i>Pohlia nutans</i>	12.0
<i>Veronica officinalis</i>	11.0	<i>Solidago virgaurea</i>	11.0
<i>Leucobryum glaucum</i>	11.0	<i>Hypnum jutlandicum</i>	11.0
<i>Betula pubescens</i>	11.0	<i>Anthoxanthum odoratum</i>	11.0
<i>Calamagrostis epigejos</i>	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Pinus sylvestris</i>	96.0	<i>Pleurozium schreberi</i>	21.0
<i>Vaccinium myrtillus</i>	19.0	<i>Deschampsia flexuosa</i>	15.0
<i>Molinia caerulea agg.</i>	7.0	<i>Hylocomium splendens</i>	5.0

**G3.4b - Temperate and submediterranean montane *Pinus sylvestris-nigra* woodland**

*Diagnostic species (phi coefficient \* 100)*

<i>Amelanchier ovalis</i>	47.7	<i>Polygala chamaebuxus</i>	45.8
<i>Epipactis atrorubens</i>	42.0	<i>Sorbus aria agg.</i>	35.7
<i>Calamagrostis varia</i>	34.9	<i>Erica herbacea</i>	34.2
<i>Berberis vulgaris</i>	33.8	<i>Pinus sylvestris</i>	32.6
<i>Juniperus communis subsp.  communis</i>	29.6	<i>Cotoneaster tomentosus</i>	29.6
<i>Goodyera repens</i>	29.2	<i>Carex humilis</i>	28.3
<i>Buphthalmum salicifolium</i>	26.4	<i>Chamaecytisus purpureus</i>	24.7
<i>Arctostaphylos uva-ursi</i>	24.2	<i>Pinus nigra</i>	24.1
<i>Viscum album</i>	23.9	<i>Globularia cordifolia</i>	23.8
<i>Viburnum lantana</i>	23.5	<i>Anthericum ramosum</i>	21.3
<i>Sesleria caerulea</i>	21.2	<i>Lavandula angustifolia</i>	21.0
<i>Carduus defloratus agg.</i>	21.0	<i>Ononis rotundifolia</i>	20.7
<i>Teucrium chamaedrys</i>	20.5	<i>Hieracium murorum</i>	20.5

Carex alba	20.5	Achnatherum calamagrostis	19.8
Cytisus sessilifolius	19.3	Orthilia secunda	19.2
Leontodon incanus	19.2	Pyrola chlorantha	18.5
Hieracium pictum	18.5	Gymnadenia odoratissima	18.5
Rhamnus saxatilis	18.0	Teucrium montanum	17.5
Laserpitium siler	17.0	Cyclamen purpurascens	16.8
Saponaria ocymoides	16.0	Astragalus monspessulanus	15.8
Quercus pubescens	15.7	Peucedanum oreoselinum	15.7
Daphne cneorum	15.7	Galium lucidum	15.5
Brachypodium pinnatum	15.5	Teucrium lucidum	15.3
Vincetoxicum hirundinaria	15.2		

*Constant species (occurrence frequencies)*

Pinus sylvestris	85.0	Sorbus aria agg.	61.0
Juniperus communis subsp. communis	60.0	Amelanchier ovalis	59.0
Polygala chamaebuxus	50.0	Hieracium murorum	49.0
Teucrium chamaedrys	48.0	Brachypodium pinnatum	44.0
Carex humilis	43.0	Epipactis atrorubens	41.0
Viburnum lantana	40.0	Calamagrostis varia	40.0
Lotus corniculatus	37.0	Picea abies	36.0
Berberis vulgaris	35.0	Erica herbacea	33.0
Euphorbia cyparissias	32.0	Sesleria caerulea	31.0
Campanula rotundifolia	30.0	Quercus pubescens	27.0
Corylus avellana	27.0	Vincetoxicum hirundinaria	26.0
Pimpinella saxifraga	26.0	Fragaria vesca	26.0
Fagus sylvatica	26.0	Buphthalmum salicifolium	26.0
Anthericum ramosum	26.0	Hippocrepis comosa	25.0
Solidago virgaurea	24.0	Teucrium montanum	23.0
Orthilia secunda	22.0	Lonicera xylosteum	22.0
Pinus nigra	21.0	Crataegus monogyna	21.0
Carex flacca	21.0	Carduus defloratus agg.	21.0
Sanguisorba minor	19.0	Globularia cordifolia	19.0
Cotoneaster tomentosus	19.0	Carex alba	19.0
Arctostaphylos uva-ursi	19.0	Hieracium pilosella	18.0
Goodyera repens	18.0	Sorbus aucuparia	17.0
Ligustrum vulgare	17.0	Hippocrepis emerus	17.0
Hepatica nobilis	17.0	Cornus sanguinea	17.0
Bromus erectus	17.0	Acer pseudoplatanus	17.0
Prunella grandiflora	16.0	Peucedanum oreoselinum	16.0
Molinia caerulea agg.	16.0	Lavandula angustifolia	16.0
Cyclamen purpurascens	16.0	Viola hirta	15.0
Galium lucidum	15.0	Fraxinus excelsior	15.0
Cytisus sessilifolius	15.0	Carlina acaulis	15.0
Helianthemum nummularium	14.0	Buxus sempervirens	14.0
Anthyllis vulneraria	14.0	Scabiosa columbaria	13.0
Polygonatum odoratum	13.0	Laserpitium latifolium	13.0
Genista pilosa	13.0	Fraxinus ornus	13.0

Festuca ovina	13.0	Asperula cynanchica	13.0
Abies alba	13.0	Tortella tortuosa	12.0
Quercus petraea	12.0	Phyteuma orbiculare	12.0
Ostrya carpinifolia	12.0	Melica nutans	12.0
Leucanthemum vulgare agg.	12.0	Cirsium acaule	12.0
Carlina vulgaris	12.0	Astragalus monspessulanus	12.0
Sesleria coerulans	11.0	Rubus saxatilis	11.0
Rhamnus saxatilis	11.0	Potentilla erecta	11.0
Platanthera bifolia	11.0	Frangula alnus	11.0
Epipactis helleborine	11.0	Cephalanthera longifolia	11.0
Carex ornithopoda	11.0	Brachypodium sylvaticum	11.0
Aster bellidiastrium	11.0	Acer opalus	11.0
Viscum album	10.0	Valeriana tripteris	10.0
Prunus mahaleb	10.0	Prunus avium	10.0
Primula veris	10.0	Potentilla tabernaemontani	10.0
Ononis spinosa	10.0	Leontodon incanus	10.0
Leontodon hispidus	10.0	Laserpitium siler	10.0
Hylocomium splendens	10.0	Centaurea scabiosa	10.0
Achnatherum calamagrostis	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Pinus sylvestris	80.0	Pinus nigra	19.0
Erica herbacea	18.0	Sesleria caerulea	9.0
Buxus sempervirens	8.0	Carex humilis	6.0
Calamagrostis varia	6.0	Brachypodium pinnatum	6.0
Arctostaphylos uva-ursi	5.0		

**G3.4c - Mediterranean montane *Pinus sylvestris-nigra* woodland**

*Diagnostic species (phi coefficient \* 100)*

Festuca iberica	60.9	Pinus sylvestris	35.1
Avenula marginata	35.1	Buxus sempervirens	31.0
Cruciata glabra	28.4	Juniperus communis subsp. communis	27.1
Hepatica nobilis	26.7	Polygala calcarea	26.5
Cytisus balansae	26.4	Luzula lactea	23.4
Quercus cerrioides	21.9	Berberis aetnensis	21.8
Vicia pyrenaica	20.8	Arctostaphylos uva-ursi	19.9
Amelanchier ovalis	19.3	Viola willkommii	18.2
Veronica officinalis	18.2	Galium rotundifolium	17.7
Ononis aragonensis	17.3	Vicia incana	16.9
Pinus nigra	16.7	Hieracium murorum	16.5
Erica vagans	16.2	Pyrola chlorantha	16.1
Sorbus aria agg.	15.9	Viola canina	15.6
Lathyrus montanus	15.6	Avenula requienii	15.6
Arenaria montana	15.5		

*Constant species (occurrence frequencies)*

<i>Pinus sylvestris</i>	92.0	<i>Juniperus communis</i> subsp. <i>communis</i>	55.0
<i>Cruciata glabra</i>	50.0	<i>Festuca iberica</i>	47.0
<i>Hepatica nobilis</i>	46.0	<i>Deschampsia flexuosa</i>	45.0
<i>Hieracium murorum</i>	41.0	<i>Buxus sempervirens</i>	39.0
<i>Veronica officinalis</i>	37.0	<i>Fragaria vesca</i>	33.0
<i>Calluna vulgaris</i>	30.0	<i>Vaccinium myrtillus</i>	29.0
<i>Fagus sylvatica</i>	29.0	<i>Sorbus aria</i> agg.	28.0
<i>Pteridium aquilinum</i>	26.0	<i>Hylocomium splendens</i>	26.0
<i>Sorbus aucuparia</i>	25.0	<i>Viola canina</i>	22.0
<i>Avenula marginata</i>	22.0	<i>Amelanchier ovalis</i>	22.0
<i>Ilex aquifolium</i>	21.0	<i>Stachys officinalis</i>	20.0
<i>Polygala calcarea</i>	20.0	<i>Silene nutans</i>	18.0
<i>Prunella grandiflora</i>	18.0	<i>Lathyrus montanus</i>	18.0
<i>Dicranum scoparium</i>	18.0	<i>Anthoxanthum odoratum</i>	18.0
<i>Teucrium scorodonia</i>	17.0	<i>Poa nemoralis</i>	17.0
<i>Galium rotundifolium</i>	17.0	<i>Galium pumilum</i>	17.0
<i>Quercus pubescens</i>	16.0	<i>Primula veris</i>	16.0
<i>Helleborus foetidus</i>	16.0	<i>Festuca rubra</i>	16.0
<i>Brachypodium pinnatum</i>	16.0	<i>Avenula pratensis</i>	16.0
<i>Arctostaphylos uva-ursi</i>	16.0	<i>Abies alba</i>	16.0
<i>Viola riviniana</i>	14.0	<i>Pinus nigra</i>	14.0
<i>Daphne laureola</i>	14.0	<i>Cytisus balansae</i>	14.0
<i>Carex flacca</i>	14.0	<i>Bromus erectus</i>	14.0
<i>Acer opalus</i>	14.0	<i>Solidago virgaurea</i>	13.0
<i>Rubus idaeus</i>	13.0	<i>Rosa canina</i> agg.	13.0
<i>Rhytidadelphus triquetrus</i>	13.0	<i>Hieracium pilosella</i>	13.0
<i>Erica vagans</i>	13.0	<i>Rubus ulmifolius</i>	12.0
<i>Ranunculus serpens</i> subsp. <i>nemorosus</i>	12.0	<i>Polypodium vulgare</i>	12.0
<i>Melampyrum pratense</i>	12.0	<i>Lotus corniculatus</i>	12.0
<i>Lonicera xylosteum</i>	12.0	<i>Juniperus communis</i> subsp. <i>alpina</i>	12.0
<i>Galium verum</i>	12.0	<i>Viola reichenbachiana</i>	11.0
<i>Vincetoxicum hirundinaria</i>	11.0	<i>Vicia sepium</i>	11.0
<i>Viburnum lantana</i>	11.0	<i>Valeriana montana</i>	11.0
<i>Stellaria holostea</i>	11.0	<i>Pimpinella saxifraga</i>	11.0
<i>Euphorbia amygdaloides</i>	11.0	<i>Crataegus monogyna</i>	11.0
<i>Carex humilis</i>	11.0	<i>Campanula rotundifolia</i>	11.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Pinus sylvestris</i>	89.0	<i>Buxus sempervirens</i>	28.0
<i>Festuca iberica</i>	16.0	<i>Deschampsia flexuosa</i>	12.0
<i>Pinus nigra</i>	9.0	<i>Brachypodium pinnatum</i>	8.0
<i>Hylocomium splendens</i>	7.0	<i>Cytisus balansae</i>	5.0

**G3.6 - Mediterranean and Balkan subalpine *Pinus heldreichii-peuce* woodland**

*Diagnostic species (phi coefficient \* 100)*

<i>Pinus heldreichii</i>	79.8	<i>Pinus peuce</i>	64.9
<i>Daphne blagayana</i>	41.0	<i>Minuartia baldaccii</i>	40.1
<i>Daphne oleoides</i>	40.0	<i>Moehringia pendula</i>	37.1
<i>Sesleria robusta</i>	33.5	<i>Hieracium pannosum</i>	32.7
<i>Juniperus communis</i> subsp. <i>alpina</i>	32.3	<i>Bornmuellera tymphaea</i>	32.3
<i>Wulfenia carinthiaca</i>	28.2	<i>Thymus rechingeri</i>	28.1
<i>Aremonia agrimonoides</i>	28.1	<i>Asperula aristata</i>	27.3
<i>Crocus veluchensis</i>	26.4	<i>Lerchenfeldia flexuosa</i>	25.9
<i>Festuca valida</i>	25.9	<i>Luzula luzulina</i>	25.1
<i>Acinos alpinus</i>	24.1	<i>Geranium macrorrhizum</i>	23.3
<i>Verbascum nikolai</i>	23.1	<i>Polygala nicaeensis</i>	22.4
<i>Trinia frigida</i>	22.0	<i>Rosa myriacantha</i>	22.0
<i>Festuca koritnicensis</i>	21.3	<i>Hieracium cymosum</i>	20.5
<i>Chamaecytisus absinthioides</i>	20.0	<i>Euphorbia amygdaloides</i>	20.0
<i>Linum capitatum</i>	19.8	<i>Calamagrostis arundinacea</i>	19.8
<i>Luzula sylvatica</i>	19.4	<i>Scabiosa cinerea</i>	19.1
<i>Hieracium hoppeanum</i>	18.3	<i>Poa thessala</i>	18.1
<i>Bromus cappadocicus</i>	17.9	<i>Poa media</i>	16.8
<i>Potentilla ternata</i>	16.7	<i>Veratrum album</i>	16.5
<i>Thesium auriculatum</i>	16.4	<i>Pulsatilla halleri</i> subsp. <i>rhodopaea</i>	16.4
<i>Primula kitaibeliana</i>	16.4	<i>Iberis sempervirens</i>	16.4
<i>Festuca hercegovina</i>	16.4	<i>Centaurea lacerata</i>	16.4
<i>Bromus pindicus</i>	16.4	<i>Arenaria gracilis</i>	16.4
<i>Leotodon incanus</i>	16.3	<i>Cytisus agnipilus</i>	16.3
<i>Senecio thapsoides</i>	16.2	<i>Festuca pirinensis</i>	16.2
<i>Carum rigidulum</i>	16.2	<i>Amphoricarpus neumayeri</i>	16.2
<i>Edrianthus tenuifolius</i>	16.1	<i>Gentianella crispata</i>	15.9
<i>Daphne mezereum</i>	15.7	<i>Carum appuanum</i>	15.7
<i>Saxifraga scardica</i>	15.5	<i>Ferulago sylvatica</i>	15.5
<i>Aubrieta gracilis</i>	15.5	<i>Alyssum scardicum</i>	15.5
<i>Potentilla micrantha</i>	15.4	<i>Oxytropis urumovii</i>	15.4
<i>Dianthus integer</i>	15.4	<i>Knautia ambigua</i>	15.3
<i>Genista carinalis</i>	15.3	<i>Buxus sempervirens</i>	15.3
<i>Bornmuellera baldaccii</i>	15.2	<i>Staehelina uniflosculosa</i>	15.1

*Constant species (occurrence frequencies)*

<i>Pinus heldreichii</i>	65.0	<i>Vaccinium myrtillus</i>	46.0
<i>Fagus sylvatica</i>	46.0	<i>Pinus peuce</i>	43.0
<i>Fragaria vesca</i>	43.0	<i>Euphorbia amygdaloides</i>	41.0
<i>Juniperus communis</i> subsp. <i>alpina</i>	32.0	<i>Calamagrostis arundinacea</i>	32.0
<i>Veronica chamaedrys</i>	30.0	<i>Picea abies</i>	30.0
<i>Luzula sylvatica</i>	30.0	<i>Aremonia agrimonoides</i>	30.0
<i>Abies alba</i>	27.0	<i>Juniperus communis</i> subsp. <i>communis</i>	24.0
<i>Hieracium murorum</i>	24.0	<i>Dryopteris filix-mas</i>	24.0
<i>Daphne oleoides</i>	24.0	<i>Daphne mezereum</i>	24.0

<i>Acinos alpinus</i>	24.0	<i>Festuca heterophylla</i>	22.0
<i>Anemone nemorosa</i>	22.0	<i>Thymus praecox</i>	19.0
<i>Oxalis acetosella</i>	19.0	<i>Luzula luzuloides</i>	19.0
<i>Daphne blagayana</i>	19.0	<i>Buxus sempervirens</i>	19.0
<i>Asperula aristata</i>	19.0	<i>Ajuga reptans</i>	19.0
<i>Veronica officinalis</i>	16.0	<i>Veratrum album</i>	16.0
<i>Rubus idaeus</i>	16.0	<i>Primula veris</i>	16.0
<i>Moehringia pendula</i>	16.0	<i>Minuartia baldaccii</i>	16.0
<i>Luzula luzulina</i>	16.0	<i>Homogyne alpina</i>	16.0
<i>Brachypodium pinnatum</i>	16.0	<i>Trifolium alpestre</i>	14.0
<i>Solidago virgaurea</i>	14.0	<i>Sesleria robusta</i>	14.0
<i>Rosa pendulina</i>	14.0	<i>Potentilla micrantha</i>	14.0
<i>Mycelis muralis</i>	14.0	<i>Lerchenfeldia flexuosa</i>	14.0
<i>Hieracium pannosum</i>	14.0	<i>Hieracium hoppeanum</i>	14.0
<i>Helianthemum nummularium</i>	14.0	<i>Galium rotundifolium</i>	14.0
<i>Dactylis glomerata</i>	14.0	<i>Cruciata glabra</i>	14.0
<i>Rubus fruticosus agg.</i>	11.0	<i>Polystichum aculeatum</i>	11.0
<i>Polygala nicaeensis</i>	11.0	<i>Poa nemoralis</i>	11.0
<i>Pinus sylvestris</i>	11.0	<i>Pinus nigra</i>	11.0
<i>Ostrya carpinifolia</i>	11.0	<i>Melampyrum sylvaticum</i>	11.0
<i>Lotus corniculatus</i>	11.0	<i>Lonicera xylosteum</i>	11.0
<i>Hypericum maculatum</i>	11.0	<i>Hieracium cymosum</i>	11.0
<i>Geranium sylvaticum</i>	11.0	<i>Geranium macrorrhizum</i>	11.0
<i>Gentiana asclepiadea</i>	11.0	<i>Galium lucidum</i>	11.0
<i>Euphorbia cyparissias</i>	11.0	<i>Crocus veluchensis</i>	11.0
<i>Clinopodium vulgare</i>	11.0	<i>Campanula glomerata</i>	11.0
<i>Brachypodium sylvaticum</i>	11.0	<i>Bornmuellera tymphaea</i>	11.0
<i>Asplenium trichomanes</i>	11.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Pinus heldreichii</i>	65.0	<i>Pinus peuce</i>	35.0
<i>Vaccinium myrtillus</i>	22.0	<i>Buxus sempervirens</i>	11.0
<i>Thymus praecox</i>	8.0	<i>Juniperus communis subsp. <i>alpina</i></i>	8.0
<i>Calamagrostis arundinacea</i>	8.0	<i>Brachypodium sylvaticum</i>	8.0
<i>Brachypodium pinnatum</i>	5.0		

**G3.7 - Mediterranean lowland to submontane *Pinus* woodland**

*Diagnostic species (phi coefficient \* 100)*

<i>Pinus halepensis</i>	53.7	<i>Pinus pinaster</i>	44.1
<i>Cistus salvifolius</i>	30.3	<i>Pistacia lentiscus</i>	29.6
<i>Pinus brutia</i>	28.5	<i>Juniperus oxycedrus</i>	26.2
<i>Quercus ilex</i>	25.2	<i>Phillyrea angustifolia</i>	24.7
<i>Arbutus unedo</i>	24.3	<i>Brachypodium retusum</i>	24.1
<i>Lonicera implexa</i>	23.7	<i>Smilax aspera</i>	23.5
<i>Quercus coccifera</i>	23.2	<i>Rubia peregrina</i>	22.6
<i>Rosmarinus officinalis</i>	22.5	<i>Asparagus acutifolius</i>	21.8

<i>Phillyrea latifolia</i>	19.3	<i>Myrtus communis</i>	18.9
<i>Pinus pinea</i>	18.8	<i>Cistus incanus</i>	18.8
<i>Dorycnium pentaphyllum</i>	18.7	<i>Cistus monspeliensis</i>	18.7
<i>Calicotome spinosa</i>	18.3	<i>Cistus albidus</i>	17.9
<i>Thymus vulgaris</i>	17.8	<i>Erica arborea</i>	17.8
<i>Staehelina dubia</i>	17.7	<i>Clematis flammula</i>	17.0
<i>Helichrysum stoechas</i>	16.3	<i>Avenula bromoides</i>	16.3
<i>Erica manipuliflora</i>	16.2	<i>Daphne gnidium</i>	15.6
<i>Erica scoparia</i>	15.5	<i>Ononis minutissima</i>	15.2

*Constant species (occurrence frequencies)*

<i>Pinus halepensis</i>	53.0	<i>Rubia peregrina</i>	41.0
<i>Pistacia lentiscus</i>	37.0	<i>Quercus ilex</i>	36.0
<i>Pinus pinaster</i>	36.0	<i>Cistus salvifolius</i>	32.0
<i>Juniperus oxycedrus</i>	31.0	<i>Brachypodium retusum</i>	31.0
<i>Smilax aspera</i>	30.0	<i>Asparagus acutifolius</i>	30.0
<i>Arbutus unedo</i>	26.0	<i>Quercus coccifera</i>	24.0
<i>Quercus pubescens</i>	22.0	<i>Phillyrea angustifolia</i>	22.0
<i>Lonicera implexa</i>	22.0	<i>Dactylis glomerata</i>	22.0
<i>Phillyrea latifolia</i>	21.0	<i>Erica arborea</i>	21.0
<i>Thymus vulgaris</i>	20.0	<i>Rosmarinus officinalis</i>	20.0
<i>Calluna vulgaris</i>	19.0	<i>Dorycnium pentaphyllum</i>	17.0
<i>Myrtus communis</i>	15.0	<i>Hedera helix</i>	15.0
<i>Clematis flammula</i>	15.0	<i>Cistus monspeliensis</i>	15.0
<i>Cistus incanus</i>	15.0	<i>Teucrium chamaedrys</i>	14.0
<i>Rhamnus alaternus</i>	14.0	<i>Pteridium aquilinum</i>	14.0
<i>Helichrysum stoechas</i>	14.0	<i>Daphne gnidium</i>	14.0
<i>Brachypodium phoenicoides</i>	14.0	<i>Teucrium polium</i>	12.0
<i>Ruscus aculeatus</i>	12.0	<i>Avenula bromoides</i>	12.0
<i>Sanguisorba minor</i>	11.0	<i>Juniperus phoenicea</i>	11.0
<i>Erica scoparia</i>	11.0	<i>Erica cinerea</i>	11.0
<i>Crataegus monogyna</i>	11.0	<i>Cistus albidus</i>	11.0
<i>Aphyllanthes monspeliensis</i>	11.0	<i>Staehelina dubia</i>	10.0
<i>Rubus ulmifolius</i>	10.0	<i>Quercus suber</i>	10.0
<i>Pinus brutia</i>	10.0	<i>Olea europaea var. europaea</i>	10.0
<i>Lavandula stoechas</i>	10.0	<i>Genista pilosa</i>	10.0
<i>Carex hallerana</i>	10.0	<i>Calicotome spinosa</i>	10.0
<i>Brachypodium pinnatum</i>	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Pinus halepensis</i>	49.0	<i>Pinus pinaster</i>	31.0
<i>Pinus brutia</i>	10.0	<i>Calluna vulgaris</i>	7.0
<i>Brachypodium retusum</i>	7.0	<i>Pistacia lentiscus</i>	6.0
<i>Pinus pinea</i>	6.0	<i>Rosmarinus officinalis</i>	5.0
<i>Pteridium aquilinum</i>	5.0	<i>Erica arborea</i>	5.0

**G3.9a - *Taxus baccata* woodland**

*Diagnostic species (phi coefficient \* 100)*

<i>Taxus baccata</i>	85.0	<i>Arenaria balearica</i>	25.5
<i>Cymbalaria aequitriloba</i>	25.1	<i>Cyclamen repandum</i>	23.8
<i>Ilex aquifolium</i>	21.9	<i>Stachys corsica</i>	20.2
<i>Glechoma sardoa</i>	19.5	<i>Hedera helix</i>	18.4
<i>Daphne laureola</i>	17.3	<i>Geranium lucidum</i>	16.8
<i>Acer monspessulanum</i>	15.5	<i>Ribes multiflorum</i>	15.4
<i>Geranium lanuginosum</i>	15.4	<i>Asplenium onopteris</i>	15.4
<i>Hypochaeris robertia</i>	15.3	<i>Rhamnus alpinus</i>	15.1

*Constant species (occurrence frequencies)*

<i>Taxus baccata</i>	100.0	<i>Hedera helix</i>	58.0
<i>Ilex aquifolium</i>	39.0	<i>Fagus sylvatica</i>	35.0
<i>Viola reichenbachiana</i>	32.0	<i>Mercurialis perennis</i>	31.0
<i>Corylus avellana</i>	24.0	<i>Sorbus aria agg.</i>	23.0
<i>Fraxinus excelsior</i>	23.0	<i>Quercus ilex</i>	22.0
<i>Mycelis muralis</i>	20.0	<i>Daphne laureola</i>	20.0
<i>Crataegus monogyna</i>	20.0	<i>Tamus communis</i>	19.0
<i>Sambucus nigra</i>	19.0	<i>Hepatica nobilis</i>	16.0
<i>Cyclamen repandum</i>	16.0	<i>Acer pseudoplatanus</i>	16.0
<i>Rubus fruticosus agg.</i>	15.0	<i>Hieracium murorum</i>	15.0
<i>Fragaria vesca</i>	15.0	<i>Euphorbia amygdaloides</i>	15.0
<i>Ruscus aculeatus</i>	14.0	<i>Dryopteris filix-mas</i>	14.0
<i>Brachypodium sylvaticum</i>	14.0	<i>Asplenium onopteris</i>	14.0
<i>Acer opalus</i>	14.0	<i>Sanicula europaea</i>	12.0
<i>Rubia peregrina</i>	12.0	<i>Poa nemoralis</i>	12.0
<i>Melica uniflora</i>	12.0	<i>Clematis vitalba</i>	12.0
<i>Asplenium trichomanes</i>	12.0	<i>Arum maculatum</i>	12.0
<i>Acer monspessulanum</i>	12.0	<i>Solidago virgaurea</i>	11.0
<i>Rubus ulmifolius</i>	11.0	<i>Pteridium aquilinum</i>	11.0
<i>Eurhynchium striatum</i>	11.0	<i>Cornus sanguinea</i>	11.0
<i>Carpinus betulus</i>	11.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Taxus baccata</i>	97.0	<i>Fagus sylvatica</i>	9.0
<i>Hedera helix</i>	8.0		

**G3.9b - Mediterranean Cupressaceae woodland**

*Diagnostic species (phi coefficient \* 100)*

<i>Cupressus sempervirens</i>	63.4	<i>Juniperus foetidissima</i>	49.4
<i>Juniperus thurifera</i>	43.2	<i>Quercus coccifera</i>	36.2
<i>Centaurea raphanina</i>	35.1	<i>Festuca jeanpertii</i>	30.3
<i>Pinus brutia</i>	29.8	<i>Juniperus excelsa</i>	28.7
<i>Astragalus creticus</i>	28.6	<i>Hypericum empetrifolium</i>	28.4
<i>Urginea maritima</i>	27.9	<i>Daphne oleoides</i>	26.5

<i>Salvia triloba</i>	25.8	<i>Stipa bromoides</i>	25.6
<i>Crepis fraasii</i>	25.4	<i>Ballota acetabulosa</i>	25.2
<i>Campanula spatulata</i>	25.1	<i>Juniperus drupacea</i>	24.2
<i>Juniperus oxycedrus</i>	23.8	<i>Phlomis fruticosa</i>	23.7
<i>Abies cephalonica</i>	23.1	<i>Micromeria juliana</i>	23.0
<i>Pterocephalus perennis</i>	22.7	<i>Trifolium physodes</i>	22.0
<i>Cerastium brachypetalum</i>	21.9	<i>Lagoecia cuminoides</i>	20.8
<i>Lactuca viminea</i>	20.7	<i>Bellis longifolia</i>	20.6
<i>Marrubium velutinum</i>	20.3	<i>Aethionema saxatile</i>	20.3
<i>Helleborus cyclophyllus</i>	20.2	<i>Centaurea idaea</i>	20.2
<i>Cerastium candidissimum</i>	20.1	<i>Erysimum cephalonicum</i>	19.9
<i>Rhamnus lycioides</i>	19.8	<i>Melica ciliata</i>	19.3
<i>Ceterach officinarum</i>	19.1	<i>Leontodon tuberosus</i>	19.0
<i>Sideritis curvidens</i>	18.8	<i>Rosa pulverulenta</i>	18.8
<i>Olea europaea var. sylvestris</i>	18.8	<i>Prasium majus</i>	18.7
<i>Galium thymifolium</i>	18.6	<i>Asparagus aphyllus</i>	18.6
<i>Scandix australis</i>	18.4	<i>Koeleria lobata</i>	18.4
<i>Phleum montanum</i>	18.3	<i>Helictotrichon convolutum</i>	18.0
<i>Nepeta spruneri</i>	17.3	<i>Teucrium microphyllum</i>	17.2
<i>Arabis verna</i>	17.2	<i>Acer monspessulanum</i>	17.2
<i>Rubia tenuifolia</i>	17.1	<i>Phlomis lanata</i>	17.1
<i>Onobrychis ebenoides</i>	17.1	<i>Crepis cretica</i>	17.1
<i>Geranium purpureum</i>	16.7	<i>Medicago coronata</i>	16.6
<i>Orchis anatolica</i>	16.5	<i>Galium taygeteum</i>	16.4
<i>Lamyropsis cynaroides</i>	16.3	<i>Crupina crupinastrum</i>	16.3
<i>Teucrium polium</i>	16.2	<i>Euphorbia myrsinites</i>	16.2
<i>Erysimum pectinatum</i>	16.2	<i>Trifolium stellatum</i>	16.0
<i>Teucrium divaricatum</i>	16.0	<i>Galium murale</i>	16.0
<i>Polystichum woronowii</i>	15.9	<i>Euphorbia apios</i>	15.9
<i>Stipa holosericea</i>	15.8	<i>Scutellaria rupestris</i>	15.8
<i>Leontodon graecus</i>	15.8	<i>Calicotome villosa</i>	15.8
<i>Astragalus depressus</i>	15.8	<i>Salvia pomifera</i>	15.7
<i>Centaurea affinis</i>	15.7	<i>Hippocrepis bourgaei</i>	15.6
<i>Sedum amplexicaule</i>	15.5	<i>Eryngium amethystinum</i>	15.4
<i>Scorzonera cretica</i>	15.3	<i>Orlaya kochii</i>	15.3
<i>Lithodora hispidula</i>	15.3	<i>Galium monachinii</i>	15.3
<i>Biscutella didyma</i>	15.3	<i>Bupleurum glumaceum</i>	15.1

*Constant species (occurrence frequencies)*

<i>Dactylis glomerata</i>	42.0	<i>Cupressus sempervirens</i>	42.0
<i>Quercus coccifera</i>	41.0	<i>Juniperus oxycedrus</i>	29.0
<i>Juniperus foetidissima</i>	26.0	<i>Melica ciliata</i>	23.0
<i>Juniperus thurifera</i>	21.0	<i>Teucrium polium</i>	20.0
<i>Teucrium chamaedrys</i>	20.0	<i>Poa bulbosa</i>	20.0
<i>Urginea maritima</i>	18.0	<i>Centaurea raphanina</i>	17.0
<i>Brachypodium retusum</i>	17.0	<i>Asparagus acutifolius</i>	17.0
<i>Stipa bromoides</i>	15.0	<i>Pistacia lentiscus</i>	15.0
<i>Eryngium campestre</i>	15.0	<i>Cerastium brachypetalum</i>	15.0

Trifolium campestre	14.0	Hypericum empetrifolium	14.0
Daphne oleoides	14.0	Acer monspessulanum	14.0
Prasium majus	12.0	Pinus brutia	12.0
Phlomis fruticosa	12.0	Geranium purpureum	12.0
Festuca jeanpertii	12.0	Cistus salvifolius	12.0
Ceterach officinarum	12.0	Campanula spatulata	12.0
Thymus longicaulis	11.0	Stipa pennata	11.0
Salvia triloba	11.0	Rhamnus lycioides	11.0
Quercus pubescens	11.0	Olea europaea var. sylvestris	11.0
Micromeria juliana	11.0	Koeleria vallesiana	11.0
Crepis fraasii	11.0	Carlina corymbosa	11.0
Calicotome villosa	11.0	Astragalus creticus	11.0
Asphodelus ramosus	11.0	Aethionema saxatile	11.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Cupressus sempervirens	41.0	Juniperus foetidissima	23.0
Juniperus thurifera	20.0	Pinus brutia	9.0
Juniperus oxycedrus	9.0	Juniperus excelsa	8.0
Juniperus drupacea	6.0		

### G3.A - Picea taiga woodland

*Diagnostic species (phi coefficient \* 100)*

Brachythecium oedipodium	72.5	Trientalis europaea	54.6
Plagiothecium curvifolium	50.2	Dicranum polysetum	46.7
Euryhynchium angustirete	44.2	Pleurozium schreberi	39.7
Hylocomium splendens	39.6	Ptilium crista-castrensis	39.3
Maianthemum bifolium	38.8	Luzula pilosa	38.7
Lycopodium annotinum	36.3	Plagiomnium affine	35.5
Lophocolea heterophylla	34.2	Tetraphis pellucida	34.1
Rubus saxatilis	32.9	Picea abies	31.5
Calamagrostis arundinacea	30.3	Dicranum majus	30.0
Picea obovata	29.1	Goodyera repens	29.0
Sorbus aucuparia	28.6	Vaccinium myrtillus	28.0
Sphagnum girgensohnii	27.7	Dryopteris carthusiana	27.1
Herzogiella seligeri	26.9	Abies sibirica	26.8
Dryopteris expansa	26.7	Vaccinium vitis-idaea	26.5
Plagiothecium laetum	26.4	Betula pubescens	25.6
Oxalis acetosella	25.4	Frangula alnus	24.9
Pinus sylvestris	24.7	Dicranum fuscescens	24.5
Aconitum septentrionale	24.4	Dicranum scoparium	23.7
Viola epipsila	23.6	Rubus idaeus	22.9
Cirriphyllum piliferum	22.9	Parmeliopsis hyperopta	22.1
Brachythecium reflexum	21.7	Usnea subfloridana	20.8
Hypogymnia tubulosa	20.4	Rhytidadelphus triquetrus	20.2
Equisetum sylvaticum	20.1	Linnaea borealis	20.0
Vulpicidia pinastri	19.7	Rhytidadelphus subpinnatus	19.6

<i>Quercus robur</i>	19.5	<i>Pseudevernia furfuracea</i>	19.4
<i>Melampyrum pratense</i>	19.4	<i>Gymnocarpium dryopteris</i>	18.8
<i>Bryoria capillaris</i>	18.7	<i>Rhodobryum roseum</i>	18.7
<i>Circaea alpina</i>	18.7	<i>Hieracium pseuderectum</i>	18.6
<i>Hypogymnia bitteri</i>	18.2	<i>Dicranum montanum</i>	17.6
<i>Brachythecium starkei</i>	17.5	<i>Populus tremula</i>	17.4
<i>Diplazium sibiricum</i>	17.2	<i>Sanionia uncinata</i>	17.1
<i>Viola selkirkii</i>	16.8	<i>Orthodicranum montanum</i>	16.7
<i>Parmelia sulcata</i>	16.5	<i>Evernia mesomorpha</i>	16.5
<i>Solidago virgaurea</i>	16.4	<i>Carex digitata</i>	16.4
<i>Calamagrostis purpurea</i>	16.4	<i>Mycelis muralis</i>	16.1
<i>Cacalia hastata</i>	16.1	<i>Melica nutans</i>	15.9
<i>Betula pendula</i>	15.4	<i>Parmelia saxatilis</i>	15.3
<i>Lepidozia reptans</i>	15.3	<i>Hieracium jaccardi</i>	15.3
<i>Phegopteris connectilis</i>	15.2		

*Constant species (occurrence frequencies)*

<i>Sorbus aucuparia</i>	87.0	<i>Picea abies</i>	87.0
<i>Vaccinium myrtillus</i>	85.0	<i>Pleurozium schreberi</i>	84.0
<i>Maianthemum bifolium</i>	76.0	<i>Hylocomium splendens</i>	75.0
<i>Oxalis acetosella</i>	72.0	<i>Luzula pilosa</i>	71.0
<i>Trientalis europaea</i>	70.0	<i>Pinus sylvestris</i>	65.0
<i>Brachythecium oedipodium</i>	64.0	<i>Frangula alnus</i>	58.0
<i>Rubus idaeus</i>	56.0	<i>Dryopteris carthusiana</i>	56.0
<i>Quercus robur</i>	55.0	<i>Dicranum scoparium</i>	54.0
<i>Vaccinium vitis-idaea</i>	52.0	<i>Plagiomnium affine</i>	51.0
<i>Calamagrostis arundinacea</i>	50.0	<i>Betula pubescens</i>	48.0
<i>Rubus saxatilis</i>	46.0	<i>Dicranum polysetum</i>	46.0
<i>Solidago virgaurea</i>	42.0	<i>Corylus avellana</i>	41.0
<i>Betula pendula</i>	39.0	<i>Plagiothecium curvifolium</i>	35.0
<i>Mycelis muralis</i>	35.0	<i>Melampyrum pratense</i>	35.0
<i>Eurhynchium angustirete</i>	34.0	<i>Rhytidadelphus triquetrus</i>	31.0
<i>Ptilium crista-castrensis</i>	31.0	<i>Lycopodium annotinum</i>	31.0
<i>Populus tremula</i>	30.0	<i>Fragaria vesca</i>	30.0
<i>Melica nutans</i>	29.0	<i>Polytrichastrum formosum</i>	28.0
<i>Lophocolea heterophylla</i>	28.0	<i>Carex digitata</i>	28.0
<i>Athyrium filix-femina</i>	27.0	<i>Pteridium aquilinum</i>	26.0
<i>Deschampsia flexuosa</i>	24.0	<i>Viola riviniana</i>	23.0
<i>Equisetum sylvaticum</i>	23.0	<i>Dryopteris dilatata</i>	23.0
<i>Gymnocarpium dryopteris</i>	22.0	<i>Tetraphis pellucida</i>	21.0
<i>Paris quadrifolia</i>	19.0	<i>Goodyera repens</i>	19.0
<i>Dicranum majus</i>	19.0	<i>Convallaria majalis</i>	19.0
<i>Cirriphyllum piliferum</i>	19.0	<i>Sphagnum girgensohnii</i>	18.0
<i>Orthilia secunda</i>	17.0	<i>Milium effusum</i>	17.0
<i>Plagiothecium laetum</i>	16.0	<i>Moehringia trinervia</i>	16.0
<i>Lysimachia vulgaris</i>	16.0	<i>Hypnum cupressiforme</i>	16.0
<i>Stellaria holostea</i>	15.0	<i>Lonicera xylosteum</i>	15.0
<i>Dryopteris filix-mas</i>	15.0	<i>Daphne mezereum</i>	15.0

Stellaria nemorum	14.0	Sphagnum capillifolium	14.0
Equisetum pratense	14.0	Epilobium angustifolium	14.0
Dryopteris expansa	14.0	Dicranum fuscescens	14.0
Acer platanoides	14.0	Plagiochila asplenoides	13.0
Molinia caerulea agg.	13.0	Lamiastrum galeobdolon	13.0
Deschampsia cespitosa	13.0	Anemone nemorosa	13.0
Alnus glutinosa	13.0	Viburnum opulus	12.0
Picea obovata	12.0	Phegopteris connectilis	12.0
Lathyrus vernus	12.0	Herzogiella seligeri	12.0
Crepis paludosa	12.0	Aegopodium podagraria	12.0
Abies sibirica	12.0	Veronica officinalis	11.0
Polytrichum commune	11.0	Linnaea borealis	11.0
Geum rivale	11.0	Circaeа alpina	11.0
Actaea spicata	11.0	Aconitum septentrionale	11.0
Viola epipsila	10.0	Juniperus communis subsp. communis	10.0
Carex curta	10.0	Agrostis capillaris	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Picea abies	87.0	Hylocomium splendens	26.0
Vaccinium myrtillus	25.0	Pinus sylvestris	25.0
Pleurozium schreberi	23.0	Oxalis acetosella	20.0
Picea obovata	12.0	Maianthemum bifolium	5.0

### G3.B - *Pinus sylvestris* taiga woodland

*Diagnostic species (phi coefficient \* 100)*

Empetrum nigrum subsp. hermaphroditum	51.7	Vulpicidia pinastri	46.5
Ptilidium pulcherrimum	45.4	Picea obovata	43.5
Orthodicranum montanum	43.2	Parmelia sulcata	42.9
Evernia mesomorpha	41.6	Abies sibirica	41.4
Vaccinium vitis-idaea	39.6	Hypnum pallescens	38.5
Pinus sylvestris	38.1	Hypogymnia physodes	37.5
Pseudevernia furfuracea	36.6	Seseli krylovii	34.3
Parmeliopsis hyperopta	34.0	Hypocenomyce scalaris	33.4
Betula pubescens	32.9	Ptilium crista-castrensis	31.9
Usnea subfloridana	30.4	Sanionia uncinata	29.7
Carex pediformis	29.6	Adenophora liliifolia	29.6
Cerastium pauciflorum	29.4	Imshaugia aleurites	29.0
Linnaea borealis	28.5	Rosa majalis	27.9
Parmeliopsis ambigua	27.8	Orthodicranum flagellare	27.7
Callicladium haldanianum	27.3	Hieracium onegense	26.4
Euphorbia subcordata	26.4	Usnea hirta	26.3
Pleurospermum uralense	25.2	Viola collina	24.8
Paraleucobryum longifolium	24.8	Dicranum polysetum	24.6
Lecanora allophana	24.0	Platygyrium repens	23.2

<i>Buellia punctata</i>	23.1	<i>Cladonia cenotea</i>	22.9
<i>Rubus saxatilis</i>	22.4	<i>Bupleurum longifolium</i>	21.7
<i>Digitalis grandiflora</i>	21.1	<i>Graphis scripta</i>	20.9
<i>Hylotelephium triphyllum</i>	20.7	<i>Orthilia secunda</i>	20.5
<i>Hieracium subpellucidum</i>	20.5	<i>Cladonia coniocraea</i>	20.3
<i>Physconia detersa</i>	20.2	<i>Vaccinium uliginosum</i>	19.6
<i>Lathyrus pisiformis</i>	19.6	<i>Hypogymnia bitteri</i>	19.5
<i>Pleurozium schreberi</i>	19.2	<i>Geranium sylvaticum</i>	19.2
<i>Lecanora symmicta</i>	19.1	<i>Pylaisiella polyantha</i>	19.1
<i>Trientalis europaea</i>	19.0	<i>Vicia sylvatica</i>	18.9
<i>Calamagrostis lapponica</i>	18.9	<i>Cladonia fimbriata</i>	18.7
<i>Vaccinium myrtillus</i>	18.3	<i>Brachythecium reflexum</i>	18.3
<i>Dicranum fuscescens</i>	18.2	<i>Cladonia amaurocraea</i>	18.0
<i>Pulmonaria mollis</i>	17.9	<i>Calamagrostis arundinacea</i>	17.4
<i>Galium boreale</i>	17.2	<i>Hylocomium splendens</i>	16.5
<i>Melanelia olivacea</i>	16.2	<i>Cirsium helenioides</i>	16.1
<i>Pyrola rotundifolia</i>	15.9	<i>Hieracium umbellatum</i>	15.4
<i>Dichelyma falcatum</i>	15.4	<i>Bryoria furcellata</i>	15.4
<i>Clematis alpina</i>	15.3	<i>Pyrola grandiflora</i>	15.2
<i>Flavoparmelia soredians</i>	15.2	<i>Atrichum flavisetum</i>	15.1
<i>Caloplaca cerina</i>	15.0	<i>Bryoria simplicior</i>	15.0

*Constant species (occurrence frequencies)*

<i>Pinus sylvestris</i>	100.0	<i>Vaccinium vitis-idaea</i>	79.0
<i>Betula pubescens</i>	62.0	<i>Vaccinium myrtillus</i>	57.0
<i>Empetrum nigrum</i> subsp. <i>hermaphroditum</i>	48.0	<i>Pleurozium schreberi</i>	40.0
<i>Solidago virgaurea</i>	36.0	<i>Deschampsia flexuosa</i>	36.0
<i>Rubus saxatilis</i>	31.0	<i>Hylocomium splendens</i>	31.0
<i>Vulpicidia pinastri</i>	29.0	<i>Hypogymnia physodes</i>	29.0
<i>Sorbus aucuparia</i>	29.0	<i>Calamagrostis arundinacea</i>	29.0
<i>Parmelia sulcata</i>	26.0	<i>Vaccinium uliginosum</i>	26.0
<i>Ptilidium pulcherrimum</i>	26.0	<i>Orthodicranum montanum</i>	26.0
<i>Melica nutans</i>	26.0	<i>Luzula pilosa</i>	26.0
<i>Geranium sylvaticum</i>	26.0	<i>Fragaria vesca</i>	26.0
<i>Ptilium crista-castrensis</i>	24.0	<i>Picea obovata</i>	24.0
<i>Orthilia secunda</i>	24.0	<i>Melampyrum pratense</i>	24.0
<i>Galium boreale</i>	24.0	<i>Evernia mesomorpha</i>	24.0
<i>Brachypodium pinnatum</i>	24.0	<i>Abies sibirica</i>	24.0
<i>Trientalis europaea</i>	21.0	<i>Lathyrus vernus</i>	21.0
<i>Hieracium umbellatum</i>	21.0	<i>Dicranum polysetum</i>	21.0
<i>Pseudevernia furfuracea</i>	19.0	<i>Viola collina</i>	19.0
<i>Viola canina</i>	19.0	<i>Succisa pratensis</i>	19.0
<i>Maianthemum bifolium</i>	19.0	<i>Hypnum pallescens</i>	19.0
<i>Digitalis grandiflora</i>	19.0	<i>Dicranum scoparium</i>	19.0
<i>Carex pediformis</i>	19.0	<i>Stellaria holostea</i>	17.0
<i>Stachys officinalis</i>	17.0	<i>Sanionia uncinata</i>	17.0
<i>Rosa majalis</i>	17.0	<i>Quercus robur</i>	17.0

<i>Linnaea borealis</i>	17.0	<i>Juniperus communis</i> subsp. <i>communis</i>	17.0
<i>Parmeliopsis hyperopta</i>	14.0	<i>Tilia cordata</i>	14.0
<i>Seseli krylovii</i>	14.0	<i>Potentilla erecta</i>	14.0
<i>Polygonatum odoratum</i>	14.0	<i>Aegopodium podagraria</i>	14.0
<i>Adenophora liliifolia</i>	14.0	<i>Usnea subfloridana</i>	12.0
<i>Parmeliopsis ambigua</i>	12.0	<i>Hypocenomyce scalaris</i>	12.0
<i>Vicia sylvatica</i>	12.0	<i>Veronica chamaedrys</i>	12.0
<i>Pulmonaria mollis</i>	12.0	<i>Picea abies</i>	12.0
<i>Paraleucobryum longifolium</i>	12.0	<i>Cladonia fimbriata</i>	12.0
<i>Cerastium pauciflorum</i>	12.0	<i>Usnea hirta</i>	10.0
<i>Imshaugia aleurites</i>	10.0	<i>Viola mirabilis</i>	10.0
<i>Pyrola rotundifolia</i>	10.0	<i>Poa nemoralis</i>	10.0
<i>Pleurospermum uralense</i>	10.0	<i>Orthodicranum flagellare</i>	10.0
<i>Lathyrus pisiformis</i>	10.0	<i>Chamaecytisus ruthenicus</i>	10.0
<i>Hylotelephium triphyllum</i>	10.0	<i>Festuca ovina</i>	10.0
<i>Euphorbia subcordata</i>	10.0	<i>Empetrum nigrum</i>	10.0
<i>Dicranum fuscescens</i>	10.0	<i>Clematis alpina</i>	10.0
<i>Cladonia coniocraea</i>	10.0	<i>Cladonia arbuscula</i>	10.0
<i>Cirsium helenioides</i>	10.0	<i>Callicladium haldanianum</i>	10.0
<i>Bupleurum longifolium</i>	10.0	<i>Betula pendula</i>	10.0
<i>Antennaria dioica</i>	10.0	<i>Achillea millefolium</i>	10.0
<i>Acer platanoides</i>	10.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

<i>Pinus sylvestris</i>	67.0	<i>Empetrum nigrum</i> subsp. <i>hermaphroditum</i>	19.0
<i>Vaccinium vitis-idaea</i>	17.0	<i>Pleurozium schreberi</i>	17.0
<i>Vaccinium myrtillus</i>	10.0		

### G3.C - *Larix sibirica* taiga woodland

*Diagnostic species (phi coefficient \* 100)*

<i>Hypocenomyce scalaris</i>	99.6	<i>Stellaria bungeana</i>	99.2
<i>Larix sibirica</i>	98.5	<i>Valeriana wolgensis</i>	98.2
<i>Hieracium pseuderectum</i>	98.0	<i>Cladonia digitata</i>	98.0
<i>Cicerbita uralensis</i>	97.8	<i>Cacalia hastata</i>	97.4
<i>Hypogymnia tubulosa</i>	96.9	<i>Pseudevernia furfuracea</i>	96.3
<i>Brachythecium reflexum</i>	96.3	<i>Evernia mesomorpha</i>	95.9
<i>Vulpicidia pinastri</i>	95.7	<i>Abies sibirica</i>	95.7
<i>Orthodicranum montanum</i>	95.1	<i>Parmelia sulcata</i>	95.0
<i>Aconogonon alpinum</i>	94.1	<i>Sanionia uncinata</i>	93.5
<i>Hypogymnia physodes</i>	88.1	<i>Veratrum lobelianum</i>	87.4
<i>Mnium laevinerve</i>	81.4	<i>Usnea glabrata</i>	81.3
<i>Lecanora symmicta</i>	80.7	<i>Lecanora allophana</i>	80.5
<i>Buellia punctata</i>	80.1	<i>Cladonia cenotea</i>	80.0
<i>Hylocomiastrum pyrenaicum</i>	79.8	<i>Parmeliopsis hyperopta</i>	79.5

<i>Lathyrus gmelinii</i>	79.5	<i>Usnea hirta</i>	79.4
<i>Picea obovata</i>	78.0	<i>Ptilidium pulcherrimum</i>	77.5
<i>Aconitum septentrionale</i>	76.8	<i>Myosotis sylvatica</i>	75.7
<i>Crepis sibirica</i>	75.6	<i>Dryopteris expansa</i>	74.8
<i>Campanula latifolia</i>	74.2	<i>Brachythecium oedipodium</i>	72.9
<i>Plagiothecium laetum</i>	70.5	<i>Cirsium helenioides</i>	69.9
<i>Clematis alpina</i>	68.7	<i>Pulmonaria mollis</i>	67.5
<i>Lophocolea heterophylla</i>	65.0	<i>Geranium sylvaticum</i>	63.9
<i>Rubus saxatilis</i>	63.4	<i>Plagiothecium denticulatum</i>	63.2
<i>Cirriphyllum piliferum</i>	62.4	<i>Ochrolechia pallescens</i>	57.5
<i>Chaenotheca chrysoccephala</i>	57.5	<i>Calicium viride</i>	57.5
<i>Bryoria bicolor</i>	57.5	<i>Cladonia corallifera</i>	57.5
<i>Bryoria kuemmerleana</i>	57.5	<i>Usnea barbata</i>	57.4
<i>Pertusaria amara</i>	57.4	<i>Buellia disciformis</i>	57.4
<i>Melanelia subaurifera</i>	57.4	<i>Cladonia bacilliformis</i>	57.4
<i>Physcia aipolia</i>	57.3	<i>Melanelia septentrionalis</i>	57.3
<i>Sorbus sibirica</i>	57.1	<i>Usnea filipendula</i>	57.0
<i>Melanelia exasperatula</i>	57.0	<i>Bryoria fuscescens</i>	56.8
<i>Bryoria capillaris</i>	56.8	<i>Calamagrostis obtusata</i>	56.7
<i>Calamagrostis arundinacea</i>	56.5	<i>Pylaisiella polyantha</i>	56.4
<i>Ochrolechia tartarea</i>	56.2	<i>Cladonia humilis</i>	56.2
<i>Rhytidadelphus subpinnatus</i>	55.7	<i>Lophocolea minor</i>	55.7
<i>Usnea subfloridana</i>	54.8	<i>Conioselinum tataricum</i>	54.8
<i>Viola mirabilis</i>	54.6	<i>Lathyrus vernus</i>	54.5
<i>Brachythecium starkei</i>	54.4	<i>Paris quadrifolia</i>	54.2
<i>Cerastium pauciflorum</i>	54.1	<i>Hypnum pallescens</i>	53.3
<i>Trientalis europaea</i>	51.9	<i>Cladonia cornuta</i>	51.6
<i>Betula pubescens</i>	51.3	<i>Bupleurum longifolium</i>	50.8
<i>Paraleucobryum longifolium</i>	50.0	<i>Milium effusum</i>	49.8
<i>Primula macrocalyx</i>	49.2	<i>Cladonia coniocraea</i>	49.2
<i>Pyrola minor</i>	46.2	<i>Brachythecium salebrosum</i>	45.5
<i>Stellaria holostea</i>	45.4	<i>Epilobium angustifolium</i>	44.8
<i>Circaea alpina</i>	43.8	<i>Dicranum scoparium</i>	43.7
<i>Aegopodium podagraria</i>	43.1	<i>Cladonia fimbriata</i>	42.6
<i>Hypericum maculatum</i>	42.0	<i>Bistorta officinalis</i>	41.8
<i>Ptilium crista-castrensis</i>	41.3	<i>Rubus idaeus</i>	40.9
<i>Plagiomnium cuspidatum</i>	40.5	<i>Epilobium montanum</i>	39.8
<i>Brachytheciastrum velutinum</i>	38.8	<i>Dryopteris filix-mas</i>	38.5
<i>Filipendula ulmaria</i>	37.0	<i>Brachypodium pinnatum</i>	36.9
<i>Melica nutans</i>	36.3	<i>Cladonia pyxidata</i>	36.0
<i>Oxalis acetosella</i>	35.3	<i>Senecio nemorensis</i>	35.1
<i>Galeopsis bifida</i>	32.7	<i>Angelica sylvestris</i>	29.0
<i>Campanula glomerata</i>	27.6	<i>Solidago virgaurea</i>	26.8
<i>Athyrium filix-femina</i>	26.3	<i>Carex pilosa</i>	25.9
<i>Actaea spicata</i>	25.9	<i>Sorbus aucuparia</i>	21.4
<i>Ranunculus acris</i>	19.0	<i>Dactylis glomerata</i>	15.9

*Constant species (occurrence frequencies)*

<i>Vulpicidia pinastri</i>	100.0	<i>Pseudevernia furfuracea</i>	100.0
<i>Parmelia sulcata</i>	100.0	<i>Hypogymnia tubulosa</i>	100.0
<i>Hypogymnia physodes</i>	100.0	<i>Hypocenomyce scalaris</i>	100.0
<i>Veratrum lobelianum</i>	100.0	<i>Valeriana wolgensis</i>	100.0
<i>Stellaria holostea</i>	100.0	<i>Stellaria bungeana</i>	100.0
<i>Sanionia uncinata</i>	100.0	<i>Rubus saxatilis</i>	100.0
<i>Rubus idaeus</i>	100.0	<i>Paris quadrifolia</i>	100.0
<i>Oxalis acetosella</i>	100.0	<i>Orthodicranum montanum</i>	100.0
<i>Myosotis sylvatica</i>	100.0	<i>Milium effusum</i>	100.0
<i>Lathyrus vernus</i>	100.0	<i>Larix sibirica</i>	100.0
<i>Hieracium pseuderectum</i>	100.0	<i>Geranium sylvaticum</i>	100.0
<i>Filipendula ulmaria</i>	100.0	<i>Evernia mesomorpha</i>	100.0
<i>Dryopteris filix-mas</i>	100.0	<i>Dicranum scoparium</i>	100.0
<i>Cladonia digitata</i>	100.0	<i>Cicerbita uralensis</i>	100.0
<i>Calamagrostis arundinacea</i>	100.0	<i>Cacalia hastata</i>	100.0
<i>Brachythecium reflexum</i>	100.0	<i>Brachypodium pinnatum</i>	100.0
<i>Betula pubescens</i>	100.0	<i>Aegopodium podagraria</i>	100.0
<i>Aconogonon alpinum</i>	100.0	<i>Abies sibirica</i>	100.0
<i>Usnea hirta</i>	67.0	<i>Usnea glabrata</i>	67.0
<i>Parmeliopsis hyperopta</i>	67.0	<i>Lecanora symmicta</i>	67.0
<i>Lecanora allophana</i>	67.0	<i>Viola mirabilis</i>	67.0
<i>Trientalis europaea</i>	67.0	<i>Sorbus aucuparia</i>	67.0
<i>Solidago virgaurea</i>	67.0	<i>Senecio nemorensis</i>	67.0
<i>Ranunculus acris</i>	67.0	<i>Pulmonaria mollis</i>	67.0
<i>Ptilidium pulcherrimum</i>	67.0	<i>Plagiothecium laetum</i>	67.0
<i>Plagiothecium denticulatum</i>	67.0	<i>Picea obovata</i>	67.0
<i>Mnium laevigatum</i>	67.0	<i>Melica nutans</i>	67.0
<i>Lophocolea heterophylla</i>	67.0	<i>Lathyrus gmelinii</i>	67.0
<i>Hypericum maculatum</i>	67.0	<i>Hylocomiastrum pyrenaicum</i>	67.0
<i>Epilobium montanum</i>	67.0	<i>Epilobium angustifolium</i>	67.0
<i>Dryopteris expansa</i>	67.0	<i>Dactylis glomerata</i>	67.0
<i>Crepis sibirica</i>	67.0	<i>Clematis alpina</i>	67.0
<i>Cladonia cenotea</i>	67.0	<i>Cirsium helenioides</i>	67.0
<i>Cirriphyllum piliferum</i>	67.0	<i>Campanula latifolia</i>	67.0
<i>Buellia punctata</i>	67.0	<i>Brachythecium oedipodium</i>	67.0
<i>Bistorta officinalis</i>	67.0	<i>Athyrium filix-femina</i>	67.0
<i>Angelica sylvestris</i>	67.0	<i>Aconitum septentrionale</i>	67.0
<i>Usnea subfloridana</i>	33.0	<i>Usnea filipendula</i>	33.0
<i>Usnea barbata</i>	33.0	<i>Physcia aipolia</i>	33.0
<i>Pertusaria amara</i>	33.0	<i>Ochrolechia tartarea</i>	33.0
<i>Ochrolechia pallescens</i>	33.0	<i>Chaenotheca chrysoccephala</i>	33.0
<i>Calicium viride</i>	33.0	<i>Buellia disciformis</i>	33.0
<i>Bryoria fuscescens</i>	33.0	<i>Bryoria capillaris</i>	33.0
<i>Bryoria bicolor</i>	33.0	<i>Stachys sylvatica</i>	33.0
<i>Sorbus sibirica</i>	33.0	<i>Rhytidiodelphus triquetrus</i>	33.0
<i>Rhytidiodelphus subpinnatus</i>	33.0	<i>Pyrola minor</i>	33.0
<i>Pylaisiella polyantha</i>	33.0	<i>Ptilium crista-castrensis</i>	33.0
<i>Primula macrocalyx</i>	33.0	<i>Pleurozium schreberi</i>	33.0

Plagiomnium cuspidatum	33.0	Paraleucobryum longifolium	33.0
Melanelia subaurifera	33.0	Melanelia septentrionalis	33.0
Melanelia exasperatula	33.0	Maianthemum bifolium	33.0
Luzula pilosa	33.0	Lophocolea minor	33.0
Hypnum pallescens	33.0	Geum rivale	33.0
Galeopsis bifida	33.0	Conioselinum tataricum	33.0
Cladonia pyxidata	33.0	Cladonia humilis	33.0
Cladonia fimbriata	33.0	Cladonia cornuta	33.0
Cladonia corallifera	33.0	Cladonia coniocraea	33.0
Cladonia bacilliformis	33.0	Circaeа alpina	33.0
Cerastium pauciflorum	33.0	Carex pilosa	33.0
Campanula glomerata	33.0	Calamagrostis obtusata	33.0
Bupleurum longifolium	33.0	Bryoria kuemmerleana	33.0
Brachythecium starkei	33.0	Brachythecium salebrosum	33.0
Brachytheciastrum velutinum	33.0	Anthriscus sylvestris	33.0
Actaea spicata	33.0		

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Larix sibirica	100.0	Oxalis acetosella	67.0
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### G3.Da - Pinus bog woodland

*Diagnostic species (phi coefficient \* 100)*

Eriophorum vaginatum	42.2	Ledum palustre	41.9
Vaccinium oxycoccus	39.5	Sphagnum magellanicum	39.4
Vaccinium uliginosum	38.2	Polytrichum strictum	36.1
Sphagnum fallax	30.2	Pinus mugo	30.2
Andromeda polifolia	29.0	Sphagnum capillifolium	28.4
Pinus sylvestris	28.0	Vaccinium vitis-idaea	24.6
Pleurozium schreberi	23.6	Aulacomnium palustre	23.4
Pinus uncinata var. rotundata	22.9	Sphagnum fuscum	21.9
Betula pubescens	21.5	Vaccinium myrtillus	20.7
Sphagnum angustifolium	20.2	Drosera rotundifolia	19.5
Calluna vulgaris	18.6	Dicranum polysetum	17.5
Sphagnum russowii	17.1	Polytrichum commune	16.7
Empetrum nigrum	16.6	Vaccinium microcarpum	15.8
Sphagnum girgensohnii	15.8	Sphagnum rubellum	15.5
Chamaedaphne calyculata	15.1		

*Constant species (occurrence frequencies)*

Pinus sylvestris	73.0	Vaccinium myrtillus	64.0
Eriophorum vaginatum	61.0	Vaccinium oxycoccus	54.0
Vaccinium uliginosum	52.0	Calluna vulgaris	52.0
Pleurozium schreberi	49.0	Vaccinium vitis-idaea	48.0
Sphagnum magellanicum	42.0	Molinia caerulea agg.	40.0
Betula pubescens	40.0	Picea abies	36.0
Polytrichum strictum	35.0	Andromeda polifolia	35.0

Aulacomnium palustre	33.0	Ledum palustre	32.0
Sphagnum capillifolium	29.0	Sphagnum fallax	28.0
Drosera rotundifolia	26.0	Pinus mugo	24.0
Hylocomium splendens	24.0	Betula pendula	23.0
Polytrichum commune	22.0	Frangula alnus	22.0
Dicranum scoparium	21.0	Deschampsia flexuosa	17.0
Carex nigra	17.0	Sorbus aucuparia	16.0
Melampyrum pratense	16.0	Sphagnum angustifolium	15.0
Potentilla erecta	15.0	Eriophorum angustifolium	15.0
Empetrum nigrum	15.0	Dicranum polysetum	14.0
Sphagnum fuscum	13.0	Quercus robur	12.0
Sphagnum palustre	11.0	Sphagnum rubellum	10.0
Rubus chamaemorus	10.0	Polytrichastrum formosum	10.0
Dryopteris carthusiana	10.0	Carex rostrata	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Pinus sylvestris	46.0	Vaccinium myrtillus	24.0
Pinus mugo	20.0	Sphagnum fallax	14.0
Eriophorum vaginatum	14.0	Sphagnum capillifolium	13.0
Sphagnum magellanicum	12.0	Pleurozium schreberi	10.0
Calluna vulgaris	10.0	Vaccinium uliginosum	9.0
Molinia caerulea agg.	7.0	Ledum palustre	7.0
Vaccinium oxycoccus	5.0		

### G3.Db - Picea bog woodland

*Diagnostic species (phi coefficient \* 100)*

Sphagnum girgensohnii	52.5	Picea abies	35.9
Bazzania trilobata	35.9	Polytrichum commune	32.9
Calamagrostis villosa	31.9	Vaccinium vitis-idaea	31.2
Vaccinium myrtillus	30.4	Lycopodium annotinum	26.1
Sphagnum magellanicum	24.3	Lepidozia reptans	23.7
Sphagnum capillifolium	23.5	Plagiothecium undulatum	22.5
Listera cordata	22.1	Sphagnum russowii	21.8
Pleurozium schreberi	21.7	Dicranodontium denudatum	21.2
Tetraphis pellucida	19.8	Eriophorum vaginatum	19.7
Dicranum scoparium	19.7	Calypogeia azurea	19.5
Calypogeia integriflaga	19.1	Hylocomium splendens	19.0
Tridentalis europaea	17.6	Equisetum sylvaticum	16.7
Vaccinium uliginosum	16.6	Ptilium crista-castrensis	16.5
Rhytidiodelphus loreus	15.3	Homogyne alpina	15.1
Polytrichastrum formosum	15.0		

*Constant species (occurrence frequencies)*

Picea abies	98.0	Vaccinium myrtillus	91.0
Vaccinium vitis-idaea	61.0	Sorbus aucuparia	45.0
Polytrichum commune	45.0	Pleurozium schreberi	45.0

Dicranum scoparium	45.0	Sphagnum girgensohnii	41.0
Deschampsia flexuosa	36.0	Hylocomium splendens	35.0
Calamagrostis villosa	33.0	Polytrichastrum formosum	32.0
Oxalis acetosella	30.0	Eriophorum vaginatum	28.0
Dryopteris dilatata	28.0	Maianthemum bifolium	26.0
Sphagnum magellanicum	24.0	Sphagnum capillifolium	24.0
Molinia caerulea agg.	24.0	Betula pubescens	24.0
Bazzania trilobata	24.0	Vaccinium uliginosum	22.0
Carex nigra	22.0	Lycopodium annotinum	21.0
Trientalis europaea	19.0	Pinus sylvestris	19.0
Homogyne alpina	19.0	Equisetum sylvaticum	19.0
Carex echinata	19.0	Abies alba	19.0
Plagiothecium undulatum	18.0	Dryopteris carthusiana	18.0
Calluna vulgaris	18.0	Vaccinium oxycoccus	16.0
Rhytidadelphus loreus	16.0	Potentilla erecta	16.0
Luzula pilosa	16.0	Frangula alnus	16.0
Carex curta	15.0	Athyrium filix-femina	15.0
Deschampsia cespitosa	14.0	Aulacomnium palustre	14.0
Sphagnum palustre	13.0	Rhytidadelphus triquetrus	13.0
Melampyrum pratense	13.0	Lepidozia reptans	13.0
Sphagnum russowii	12.0	Sphagnum fallax	12.0
Ptilium crista-castrensis	11.0	Luzula sylvatica	11.0
Listera cordata	11.0	Tetraphis pellucida	10.0
Rubus idaeus	10.0	Polytrichum strictum	10.0
Pohlia nutans	10.0	Plagiochila asplenoides	10.0
Melampyrum sylvaticum	10.0	Fagus sylvatica	10.0
Dicranum polysetum	10.0	Dicranodontium denudatum	10.0
Blechnum spicant	10.0	Betula pendula	10.0

*Dominant species (percentage frequencies of occurrences with cover > 25%)*

Picea abies	81.0	Vaccinium myrtillus	39.0
Sphagnum girgensohnii	26.0	Sphagnum capillifolium	13.0
Sphagnum magellanicum	10.0	Calamagrostis villosa	9.0
Polytrichum commune	7.0	Sphagnum fallax	6.0
Eriophorum vaginatum	6.0		

