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**STATISTICAL DETERMINATION OF DIAGNOSTIC,
CONSTANT AND DOMINANT SPECIES
OF THE HIGHER VEGETATION UNITS OF POLAND**

ZYGMUNT KAÇKI, MARTA CZARNIECKA and GRZEGORZ SWACHA

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and GRZEGORZ SWACHA

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*This work is dedicated to the memory of
Professor Władysław Matuszkiewicz
scientist extraordinaire
who contributed greatly
to the knowledge of vegetation diversity of Poland*

CONTENTS

1. Introduction	7
2. Material and methods	9
3. Results	16
4. Discussion	24
5. Conclusions	26
6. References	26
7. Statystyczne zdefiniowanie gatunków diagnostycznych, stałych i dominujących w wyższych jednostkach roślinności Polski (streszczenie)	32
Appendix 1. A synopsis of vegetation units of Poland	35
Appendix 2. Diagnostic, constant and dominant species in vegetation units of Poland	43
Appendix 3. Alphabetical index of diagnostic, constant and dominant species of vegetation units of Poland	209
Professor Krzysztof Rostański (1930–2012)	269

ABSTRACT

Zygmunt KACKI, Marta CZARNIECKA & Grzegorz SWACHA. *Statistical determination of diagnostic, constant and dominant species of the higher vegetation units of Poland*. Monogr. Bot., Vol. 103, pp. 267, 2013.
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This paper presents a syntaxonomical revision and statistical determination of diagnostic, constant and dominant species of higher syntaxa of Poland based on relevés stored in the *Polish Vegetation Database*. All the analyses were performed on a data set consisting of 43,686 relevés containing 2,853 species of vascular plants, bryophytes, algae and lichenized fungi. The data set was subjected to formalized and hierarchical classification, which revealed 44 classes and 153 alliances. The vegetation of Poland is divided into the classes: *Zosteretea marinae*, *Charetea*, *Elyno-Seslerietea*, *Violetea calaminariae*, *Stellarietea mediae*, *Cakiletea maritimae*, *Salicetea herbaceae*, *Isoëto-Nano-Juncetea*, *Oxycocco-Sphagnetetea*, *Ammophiletea arenariae*, *Potametea*, *Thero-Salicornietea*, *Carici-Kobresietea*, *Festuco-Puccinellietea*, *Erico-Pinetea*, *Juncetea trifidi*, *Loiseleurio-Vaccinietea*, *Lemnietea*, *Quercetea pubescentis*, *Littorelletea uniflorae*, *Koelerio-Corynephoretea*, *Roso pendulinae-Pinetea mugo*, *Cymbalario-Parietarietea*, *Bidentetea tripartitae*, *Alnetae glutinosae*, *Scheuchzerio-Caricetea*, *Robinietea*, *Montio-Cardaminetea*, *Thlaspietea rotundifolii*, *Festuco-Brometea*, *Salicetea purpureae*, *Molinio-Arrhenatheretea*, *Mulgedio-Aconitetea*, *Carpino-Fagetea*, *Calluno-Ulicetea*, *Quercetea robori-petraeae*, *Vaccinio-Piceetea*, *Polygono arenastri-Poëtea*, *Asplenietea trichomanis*, *Phragmito-Magno-Caricetea*, *Artemisietea vulgaris*, *Epilobietea angustifolii*, *Galio-Urticetea*, *Rhamno-Prunetea*. In order to determine a diagnostic species for alliances and classes, statistical measures of fidelity were used. A revised list of vegetation units of Poland is presented.

Key words: Braun-Blanquet approach, JUICE, plant communities, syntaxonomy, TURBOVEG, Polish Vegetation Database, vegetation survey, expert system, Cocktail method.

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1. INTRODUCTION

A unique floristic composition which is formed under a certain environmental conditions is fundamental element of determination and identification of plant communities. Classification of vegetation is based on species occurrence in particular plant communities (phytocoenoses). The beginnings of phytosociology and some of the concepts explaining the phenomenon of species association into plant communities have partially originated in Poland (PACZOSKI 1896, 1925). However, principles of classification and phytosociological methods have been developed according to the Central European School (BRAUN-BLANQUET 1925). Furthermore, they have hardly changed over the last century. Presence of particular species in a plant community strongly determines the community's position in the classification system. This refers especially to character species, defined as species appearing only in a particular type of vegetation (BROCKMANN-JEROSCH 1907). Determination of indicative value of some species in classification of vegetation has been the subject of discussions since the first phytosociological papers appeared. KOCH (1926) proposes the term "differential species" for a species that is used to distinguish one type of vegetation from another, although this species occurs in numerous vegetation units. The term combining functions of both differential and character species is a diagnostic species, i.e. a species which prefers a single or a few vegetation units and allows for delimitation of plant communities (WHITTAKER 1962). According to this approach, a diagnostic species creates specific and repeatable co-occurring species composition associated with historical background, as well as with environmental and geographical conditions under which plant communities develop. A significant contribution to the development of the principles of classification of vegetation was made by many Polish phytosociologists (SZAFAER *et al.* 1923, 1927; PAWŁOWSKI 1926, 1935; PAWŁOWSKI & STECKI 1927; PAWŁOWSKI *et al.* 1928). The repeatability of species combinations and the diagnostic role of some species are related to species fidelity. Initially, species fidelity was determined intuitively using a five-point scale (SZAFAER & PAWŁOWSKI 1927; BRAUN-BLANQUET 1964; PAWŁOWSKI 1972). Over time, the significance of character species and their subjective fidelity, based on data from relatively small geobotanical units, became less important (ELLENBERG 1954). The concept of diagnostic species became more favoured in geobotanical literature when statistical methods with objective measures of fidelity were implemented (GOODALL 1953; BOTTA-DUKÁT & BORHIDI 1999; BRUELHEIDE 2000; CHYTRÝ *et al.* 2002, DE CÁCERES & LEGENDRE 2009). Currently, vegetation units are identified according to diagnostic species which include both character and differential species. In order to determine diagnostic species, the Phi coefficient is often used, which measures statistical concentration of occurrences of given species in particular vegetation unit (CHYTRÝ & TICHÝ 2003; JAROLÍMEK & ŠIBÍK 2008).

In Poland, as in many other European countries, phytosociological studies have a long tradition. This can be seen in subsequent editions of Polish phytosociological bibliography (TRACZYK 1960; MATUSZKIEWICZ A. & FALIŃSKI 1964; MATUSZKIEWICZ A. 1967, 1972, 1981, 1990, 2004; LATOWSKI & JACKOWIAK 2001, 2006). The papers listed above show the dynamic development of knowledge about diversity of vegetation in Poland, especially when compared with the first comprehensive surveys of plant communities (MEDWECKA-KORNAŚ *et al.*

1959; MATUSZKIEWICZ W. 1967). For many years, plant communities have been identified and described mostly in accordance with the identification key to plant communities in Poland published by Professor W. MATUSZKIEWICZ (1981). This handbook is recognized as one of the most important syntaxonomical syntheses and it is the main reference in Polish phytosociological surveys. Its hierarchical system shows character and differential species for vegetation units found in Poland. Subsequent editions of the handbook indicate new plant communities in which differential species occurring in several syntaxa gain increasing significance (MATUSZKIEWICZ W. 2001, 2008). Despite many systematical revisions of plant associations and higher vegetation units, the list of Polish plant communities has never been critically assessed with respect to broad-scale vegetation surveys. By contrast, a large-scale syntaxonomic reviews have appeared in neighbouring countries, including the Czech Republic, Germany and Slovakia (VALACHOVIČ *et al.* 1995, 2001; JAROLÍMEK *et al.* 1997; BERG *et al.* 2001, 2004; CHYTRÝ 2007, 2009, 2011, 2012, 2013; JANIŠOVÁ *et al.* 2007; KLIMENT *et al.* 2007; JAROLÍMEK & ŠIBÍK 2008). A critical look at the classification of Polish vegetation presented by MATUSZKIEWICZ W. (1981, 2008) is emphasized in numerous papers where many different views on syntaxonomical affinities of some syntaxa and new combinations of indicator species are proposed (BRZEG & WOJTERSKA 1996, 2001; RATYŃSKA *et al.* 2010). Furthermore, Polish vegetation scientists constantly discover formerly unknown plant communities or new species combinations (e.g., FIJAŁKOWSKI & CHOJNACKA-FIJAŁKOWSKA 1990; PENDER 1997; POPIELA 1997; SZCZEŚNIAK 1998; KAČKI *et al.* 1999; KUCHARSKI 1999; KRYSZAK 2001; KWIATKOWSKI 2001; RATYŃSKA 2001; BABCZYŃSKA-SENDEK 2005; NOBIS *et al.* 2006; ZARZYCKI 2008; BABCZYŃSKA-SENDEK & BARĆ 2009; SPAŁEK & HORSKA-SCHWARZ 2009; TOWPASZ & STACHURSKA-SWAKOŃ 2009; RATYŃSKA *et al.* 2011). In addition, several comprehensive studies are devoted to large vegetation units, including the alliances *Corynephorion* (CZYŻEWSKA 1992), *Cnidion* (ZAŁUSKI 1995) and *Tilio-Acerion* (BODZIARCZYK 2002), or classes *Artemisietea*, *Trifolio-Geranietaea* and *Asplenietea trichomanis* (BRZEG 1989, 2005; ŚWIERKOSZ 2004; BRZEG & WIKI 2011). All of these elaborations are consistent with traditional phytosociological classification, where character species are selected on the basis of expert knowledge. A different approach was adopted for the syntaxonomical revision of *Molinia* meadows, for which diagnostic species were determined using statistical methods applied to a large set of relevés from Poland (KAČKI 2007, 2012). This approach is currently used in numerous syntaxonomical revisions in many European countries (CHYTRÝ 2007, 2009, 2011; ROLEČEK 2007; SIMONOVÁ 2008; JANIŠOVÁ & DŮBRAVKOVÁ 2010; ROZBROJOVÁ *et al.* 2012).

Analyses across broad environmental gradients, based on large sets of relevés, have been made possible by the dynamic development of vegetation databases in recent times (EWALD 2001; SCHAMINÉE *et al.* 2009; DENGLER *et al.* 2011; JANSEN *et al.* 2011). Poland is following this trend, and the idea of establishing of a database has been discussed (ZAŁUSKI 2001; DZWONKO 2007). Until now, numerous relevés made in Poland have been collected and entered into the *Polish Vegetation Database*, which is a fundamental resource for the analysis of the present study (KAČKI & ŚLIWIŃSKI 2012a, b). The authors of the present paper were inspired by a study on diagnostic, constant and dominant species of vegetation classes and alliances in the Czech Republic. We used the methodological achievements presented by CHYTRÝ & TICHÝ (2003), and extended the analyses to the Cocktail method (BRUELHEIDE 2000) and the expert system (KOČÍ *et al.* 2003).

The purpose of the present study was to revise the classification of vegetation in Poland and to conduct the statistical determination of diagnostic, constant and dominant species of higher syntaxonomical units. A large data set was analyzed, by which subjective

determination of indicator species for each vegetation unit was avoided. For practical purposes, we focused only on diagnostic, constant and dominant species for classes and alliances. The idea of determination of diagnostic species for the orders was abandoned, as they are of low importance in plant community characterization. Many alliances within one class belong only to a single order. In this case, diagnostic species for class and order are equally significant. Therefore, the present revision does not include diagnostic species for orders, similarly to the previous syntaxonomical revision for the Czech Republic (CHYTRÝ & TICHÝ 2003).

The authors of this paper are aware of provisional nature of the present classification, which is caused by lack of phytosociological data from some regions of Poland.

The main aim of the study was achieved in a stepwise process of data analysis: (1) carrying out a syntaxonomical review of vegetation classification in Poland using statistically determined groups of co-occurring species and formal definitions, (2) determination of diagnostic species of higher syntaxonomical units, (3) determination of floristic distinctiveness of some syntaxa, especially poorly delimited ones, aiming at critical assessment of their validity in the present classification system.

Acknowledgements. The authors would like to express their gratitude to those who contributed to this work. In particular, we are grateful to our friends from many research centers in Poland for providing phytosociological data to the *Polish Vegetation Database*, and to all volunteers and apprentices who helped develop our database. Special thanks to Michał Śliwiński, former deputy custodian and honorary member of the *Polish Vegetation Database*, for contributing greatly to the database in the first years of its activity.

We are especially thankful to Milan Chytrý and the scientific research team of the Vegetation Science Group from Masaryk University for invaluable help and training in the Cocktail method and the use of the expert system.

2. MATERIAL AND METHODS

Data set and data stratification. The present study includes procedures and methods used in similar recent studies from the Czech Republic and Slovakia (CHYTRÝ & TICHÝ 2003; JAROLÍMEK & ŠIBÍK 2008). The main source of information for analyses were phytosociological relevés contained in the *Polish Vegetation Database* (KAČKI & ŚLIWIŃSKI 2012a, b). The database gathers phytosociological relevés from the territory of Poland and stores them in the database program TURBOVEG (HENNEKENS & SCHAMINÉE 2001). The database contains 54,982 relevés (state on September, 2013) [<http://synbiot.uni.wroc.pl/>] (Fig. 1).

These resources represent most, if not all, plant communities identified hitherto in Poland. There are 10 906 unpublished relevés without assignment to any syntaxonomic unit. Selection of the relevés for the analysis was performed on the entire data set applying the following procedures: (1) relevés without geographical coordinates were deleted, (2) plots with an area of 50 to 2,000 m² for scrub and forest vegetation and 5 to 500 m² for herbaceous vegetation were selected (an exceptions are *Ruppietea*, *Zosteretea* and *Isoëto-Nano-Juncetea*, where minimal plot size was set at 0.1 m²). A total of 43,686 relevés were used, including 2,853 species of plants and fungi. Data were analysed using the JUICE software package (TICHÝ 2002).

Within this data set, all records of juvenile trees and shrubs occurring in the herb layer were deleted. In addition, tree-layer and shrub-layer records were merged for every species, so that each species occurred only once in the entire data set (CHYTRÝ 2003, 2007; ROLEČEK 2007). Species determined only to the genus level were also excluded.

The next step was to unify nomenclature of species in order to equate different taxonomic concepts of species, subspecies and lower taxonomic units often named differently by different authors.

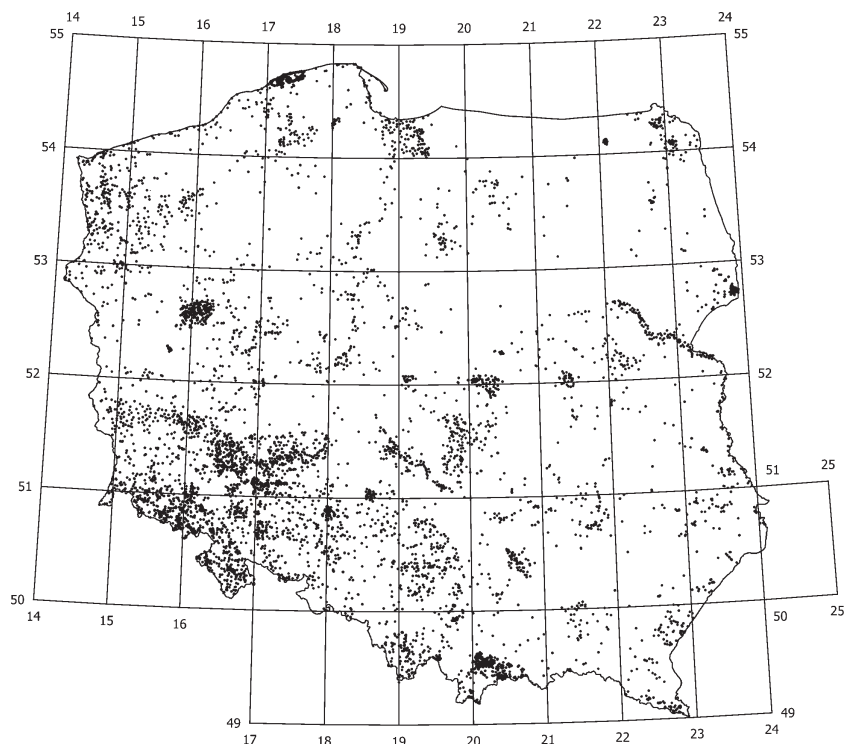


Fig. 1. Distribution of phytosociological relevés stored in PVD (state on September, 2013).

This procedure limits species diversity within the whole data set, and excludes diagnostic species for some syntaxa. On the other hand, it eliminates or reduces incorrect interpretation of the results. However, this procedure was crucial for analysis because the relevés used were collected over a long period of time, during which taxonomic nomenclature changed, with taxa described either *sensu lato* or *sensu stricto*. These different taxonomic concepts could possibly lead to the incorrect interpretation of some taxa and affect the final classification (JANSEN & DENGLER 2010).

The nomenclature for vascular plants used in the present study follows MIREK *et al.* (2002). Species not included there follows the *Flora Europaea* (TUTIN *et al.* 1964-1980). The nomenclature used for mosses follows OCHYRA *et al.* (2003), for liverworts and hornworts follows SZWEJKOWSKI (2006), for lichens [lichenized fungi] follows FAŁTYNOWICZ (2003) and PIERCEY-NORMORE *et al.* (2010) and for algae follows GUIRY & GUIRY (2013).

Narrowly defined species or some other lower taxonomic units were merged into a broader concept. Species defined by KUBÁT *et al.* (2002) as aggregates were given the abbreviation *agg.* Other species described as *sensu lato* were marked with abbreviation *s. l.* Broadly-defined taxa are listed below:

***Achillea millefolium* agg.** – *Achillea millefolium* L., *Achillea millefolium* subsp. *millefolium* L., *Achillea millefolium* L. subsp. *sudetica* (Opiz) Weiss, *Achillea collina* Becker ex Rchb.

***Aethusa cynapium* s. l.** – *Aethusa cynapium* L. var. *domestica* Wallr., *Aethusa cynapium* L. subsp. *agrestis* (Wallr.) Dostál, *Aethusa cynapium* L. subsp. *cynapioides* (M. Bieb.) Nyman, *Aethusa* sp.

***Alchemilla vulgaris* s. l.** – all species excluding *Alchemilla glaucescens* Wallr.

Angelica archangelica s. l. – *Angelica archangelica* subsp. *archangelica* L., *Angelica archangelica* L. subsp. *litoralis* (Fr.) Thell.

Anthoxanthum odoratum s. l. – *Anthoxanthum odoratum* L., *Anthoxanthum alpinum* Á. Löve & D. Löve

Anthyllis vulneraria s. l. – *Anthyllis vulneraria* L. subsp. *polyphylla* (DC.) Nyman, *Anthyllis vulneraria* subsp. *vulneraria* L., *Anthyllis vulneraria* L., *Anthyllis alpestris* (Kit.) Rchb.

Arenaria serpyllifolia agg. – *Arenaria serpyllifolia* L., *Arenaria leptoclados* Guss.

Aster novi-belgii s. l. – *Aster lanceolatus* Willd., *Aster novi-belgii* L.

Atriplex prostrata s. l. – *Atriplex latifolia* Wahlenb., *Atriplex hastata* subsp. *hastata* DC., *Atriplex hastata* DC. subsp. *polonicum* (Zap.) Aellen, *Atriplex hastata* DC. subsp. *salina* Wallr., *Atriplex prostrata* subsp. *latifolia* (Lindm.) Rauschert

Batrachium aquatile s. l. – *Batrachium aquatile* (L.) Dumort., *Batrachium peltatum* Schrank

Beta vulgaris s. l. – *Beta vulgaris* L. subsp. *maritima* (L.) Arcang., *Beta vulgaris* L. var. *crassa* Mansf., *Beta vulgaris* L. var. *esculenta* L.

Bryum capillare s. l. – *Bryum capillare* Hedw., *Bryum elegans* Nees, *Bryum subelegans* Kindb.

Calamagrostis varia (Schrad.) Host – *Calamagrostis varia* (Schrad.) Host, *Calamagrostis* sp. cf. *varia*

Callitriche palustris s. l. – *Callitriche palustris* L. emend. Loennr., *Callitriche cophocarpa* Sendtn., *Callitriche platycarpa* Kütz., *Callitriche stagnalis* Scop.

Carex flava agg. – *Carex demissa* Hornem., *Carex flava* L., *Carex serotina* Mérat, *Carex oederi* Retz. s. str.

Carex contigua s. l. – *Carex muricata* F.W. Schultz, *Carex divulsa* Stokes, *Carex spicata* Huds., *Carex muricata* L. subsp. *lamprocarpa* Čelak

Centaurea jacea s. l. – *Centaurea jacea* L. subsp. *oxylepis* (Wimm. & Grab.) Hayek, *Centaurea jacea* L., *Centaurea jacea* L. var. *oxylepis*

Cerastium pumilum s. l. – *Cerastium glutinosum* F.W. Schultz, *Cerastium pumilum* Curtis s. str.

Chenopodium album agg. – *Chenopodium album* L. subsp. *striatum* (Krašan) Murr, *Chenopodium album* L. subsp. *viride* (L.) S. & M., *Chenopodium opulifolium* Schrad. ex W.D.J. Koch & Ziz., *Chenopodium strictum* Roth, *Chenopodium suecicum* Murr

Cladonia arbuscula s. l. – *Cladonia arbuscula* (Wallr.) Flot. subsp. *beringiana* Ahti, *Cladonia arbuscula* (Wallr.) Flot. subsp. *mitis* (Sandst.) Ruoss

Cladonia macilenta s. l. – *Cladonia macilenta* Hoffm., *Cladonia floerkeana* (Fr.) Flörke

Cladonia pleurota s. l. – *Cladonia coccifera* (L.) Willd., *Cladonia pleurota* (Flörke) Schaer.

Crataegus monogyna s. l. – *Crataegus monogyna* Jacq., *Crataegus* × *calycina* Peterm., *Crataegus macrocarpa* Hegetschw.

Dactylorhiza maculata s. l. – *Dactylorhiza maculata* (L.) Soó s. str., *Dactylorhiza fuchsii* (Druce) Soó

Dactylorhiza majalis s. l. – *Dactylorhiza majalis* (Rchb.) P.F. Hunt & Summerh. subsp. *brevifolia* (Bisse) Sengh., *Dactylorhiza russowii* (Klinge) Holub, *Dactylorhiza traunsteineri* (Saut.) Soó

Dryopteris carthusiana s. l. – *Dryopteris carthusiana* (Vill.) H.P. Fuchs, *Dryopteris dilatata* (Hoffm.) A. Gray s. str., *Dryopteris expansa* (C. Presl) Fraser-Jenk. & Jermy

Dryopteris filix-mas s. l. – *Dryopteris affinis* s. str. (Lowe) Fraser-Jenk., *Dryopteris filix-mas* (L.) Schott

Eleocharis palustris agg. – *Eleocharis palustris* (L.) Roem. & Schult., *Eleocharis mamillata* (H. Lindb.) H. Lindb. ex Dörfel. s. str., *Eleocharis uniglumis* (Link) Schult.

Elymus intermedius s. l. – *Elytrigia intermedia* (Host) Nevski subsp. *barbulata* (Schur), *Elytrigia intermedia* (Host) Nevski subsp. *trichophora* (Link) Löve & D. Löve

Empetrum nigrum s. l. – *Empetrum hermaphroditum* Hagerup, *Empetrum nigrum* L. s. str., *Empetrum* sp.

Epilobium tetragonum agg. – *Epilobium tetragonum* L. subsp. *lamyi* (F.W. Schulz) Nyman, *Epilobium tetragonum* subsp. *tetragonum* L.

Epipactis helleborine s. l. – *Epipactis helleborine* (L.) Crantz s. str., *Epipactis leptochila* (Godfery) Godfery, *Epipactis greuteri* H. Baumann & Künkele, *Epipactis albensis* Nováková & Rydlo, *Epipactis muelleri* Godfery

Festuca ovina s. l. – *Festuca duvalii* (St. Yves) Stohr, *Festuca ovina* L. s. str., *Festuca guestfalica* Boenn. ex Rchb., *Festuca tenuifolia* Sibth.

Festuca rubra agg. – *Festuca nigrescens* Lam., *Festuca rubra* L. s. str., *Festuca rubra* L. subsp. *arenaria* (Osbeck) Syme

Festuca trachyphylla s. l. – *Festuca duriuscula* L. sensu auct. polon., *Festuca trachyphylla* (Hack.) Krajina

Galeobdolon luteum s. l. – *Galeobdolon luteum* Huds. subsp. *montanum* Pers., *Galeobdolon luteum* Huds.

Galeopsis tetrahit s. l. – *Galeopsis bifida* Boenn., *Galeopsis tetrahit* L.

Galium mollugo agg. – *Galium album* Mill., *Galium album* L. var. *dumetorum* (Jord.) Rouy, *Galium mollugo* L. subsp. *elatum* (Thuill.) Syme, *Galium mollugo* L. subsp. *erectum* Syme

Galium palustre agg. – *Galium elongatum* C. Presl, *Galium palustre* L. subsp. *caespitosum* (G. Mey.) Oberd.

Gentianella germanica s. l. – *Gentianella amarella* (L.) Börner, *Gentianella amarella* subsp. *amarella* (L.) Börner, *Gentianella praecox* (A. & J. Kern.) Dostál, *Gentianella bohémica* Skalický, *Gentianella germanica* (Willd.) Börner, *Gentianella lutescens* (Velen.) Holub

Geum urbanum s. l. – *Geum aleppicum* Jacq., *Geum urbanum* L.

Glechoma hederacea s. l. – *Glechoma hederacea* L., *Glechoma hirsuta* Waldst. & Kit.

Heracleum sphondylium s. l. – *Heracleum sphondylium* L. subsp. *sibiricum* (L.) Simonk., *Heracleum sphondylium* L. subsp. *transsilvanicum* Schur, *Heracleum sphondylium* L. s. str.

Hieracium alpinum agg. – *Hieracium alpinum* L. s. l., *Hieracium tubulosum* Tausch, *Hieracium schusteri* Zlatník, *Hieracium melanocephalum* Tausch

Hieracium pilosella s. l. – *Hieracium pilosella* L., *Hieracium bauhinii* Schult., *Hieracium flagellare* Willd., *Hieracium lactucella* Wallr., *Hieracium piloselloides* Vill.

Hieracium sabaudum s. l. – *Hieracium sabaudum* Schult., *Hieracium racemosum* (Waldst. & Kit.) Willd.

Hieracium lachenalii s. l. – *Hieracium argillaceum* Jord., *Hieracium caesium* (Fr.) Fr. (*bifidum* > *lachenalii*), *Hieracium lachenalii* C.C. Gmel., *Hieracium vulgatum* Fr. p.p.

Hypnum cupressiforme agg. – *Hypnum cupressiforme* Hedw., *Hypnum lacunosum* (Brid.) Hoffm. ex Brid., *Hypnum mamillatum* (Brid.) Loeske

Knautia arvensis agg. – *Knautia arvensis* (L.) Coult., *Knautia arvensis* subsp. *arvensis* (L.) Coult., *Knautia kitaibelii* (Schult.) Borbás, *Knautia* sp.

Limprichtia revolvens s. l. – *Limprichtia revolvens* (Sw.) Loeske, *Limprichtia cossonii* (Schimp.) L.E. Anderson, H.A. Crum & W.R. Buck

Luzula campestris agg. – *Luzula campestris* (L.) DC., *Luzula multiflora* (Retz.) Lej., *Luzula pallescens* Sw., *Luzula sudetica* (Willd.) DC.

Mentha arvensis s. l. – *Mentha arvensis* L. subsp. *austriaca* (Jacq.) Briq., *Mentha arvensis* L.

Molinia caerulea s. l. – *Molinia caerulea* (L.) Moench subsp. *arundinacea* (Schrank) H.K.G. Paul, *Molinia caerulea* (L.) Moench

Monotropa hypopitys s. l. – *Monotropa hypophegea* Wallr., *Monotropa hypopitys* L. s. str.

Montia fontana s. l. – *Montia fontana* L. subsp. *amporitana* Sennen, *Montia fontana* L.

Myosotis palustris agg. – *Myosotis laxa* Lehm. subsp. *caespitosa* (C.F. Schultz) Hyl., *Myosotis nemorosa* Besser, *Myosotis palustris* (L.) Hill

***Odontites verna* s. l.** – *Odontites verna* (Bellardi) Dumort. subsp. *serotina* (Dumort.) Corb., *Odontites verna* subsp. *verna* (Bellardi) Dumort.

***Oenothera biennis* s. l.** – *Oenothera ammophila* Focke, *Oenothera biennis* L., *Oenothera* sp., *Oenothera fallax* Renner emend. Rostański, *Oenothera depressa* Greene, *Oenothera acutifolia* Rostański, *Oenothera rubricaulis* Kleb.

***Oxalis fontana* s. l.** – *Oxalis stricta* L. nom. ambig., *Oxalis europaea* Jord., *Oxalis corniculata* L.

***Oxycoccus palustris* s. l.** – *Oxycoccus palustris* Pers., *Oxycoccus microcarpus* Turcz. ex Rupr., *Oxycoccus* sp.

***Plagiomnium affine* s. l.** – *Plagiomnium rostratum* (Schrad.) T.J. Kop., *Plagiomnium medium* (Bruch & Schimp.) T.J. Kop., *Plagiomnium ellipticum* (Brid.) T.J. Kop., *Plagiomnium elatum* (Bruch & Schimp.) T.J. Kop., *Plagiomnium affine* (Blandow ex Funck) T.J. Kop.

***Plantago major* s. l.** – *Plantago major* var. *microstachya* Hayne, *Plantago major* L. s. str., *Plantago winteri* Wirtg.

***Poa annua* s. l.** – *Poa annua* var. *aquatica* Asch., *Poa annua* var. *pauciflora* Fiek, *Poa annua* var. *reptans* Hausskn., *Poa supina* Schrad.

***Poa bulbosa* s. l.** – *Poa bulbosa* var. *vivipara* (Koeler) Arcang., *Poa bulbosa* L.

***Poa pratensis* s. l.** – *Poa angustifolia* L., *Poa pratensis* L. s. str.

***Polygala vulgaris* s. l.** – *Polygala oxyptera* Rchb., *Polygala vulgaris* L. s. str.

***Polygonum amphibium* s. l.** – *Polygonum amphibium* f. *terrestre* (Leers) S.F. Blake., *Polygonum amphibium* L., *Polygonum amphibium* f. *natans* Leyss

***Polygonum aviculare* agg.** – *Polygonum aviculare* L., *Polygonum arenastrum* Boreau, *Polygonum neglectum* Besser

***Polygonum lapathifolium* s. l.** – *Polygonum nodosum* Pers., *Polygonum lapathifolium* L. var. *incanum* Koch, *Polygonum brittingeri* Opiz, *Polygonum lapathifolium* L. subsp. *pallidum* (With.) Fr., *Polygonum lapathifolium* subsp. *lapathifolium* L.

***Polytrichastrum formosum* s. l.** – *Polytrichastrum longisetum* (Brid.) G.L. Smith, *Polytrichastrum pallidisetum* (Funck) G.L. Sm., *Polytrichastrum formosum* (Hedw.) G.L. Sm.

***Potamogeton pusillus* agg.** – *Potamogeton pusillus* L., *Potamogeton bertholdii* Fieber

***Pulmonaria officinalis* s. l.** – *Pulmonaria obscura* Dumort., *Pulmonaria officinalis* L. s. str.

***Pulsatilla pratensis* s. l.** – *Pulsatilla pratensis* (L.) Mill. subsp. *nigricans* (Störck) Zämelis, *Pulsatilla pratensis* (L.) Mill.

***Ranunculus auricomus* agg.** – all species within *Ranunculus cassubicus* L. s. l.

***Ranunculus polyanthemus* s. l.** – *Ranunculus nemorosus* DC., *Ranunculus polyanthemus* L.

***Rhizomnium punctatum* s. l.** – *Rhizomnium pseudopunctatum* (Bruch & Schimp.) T.J. Kop., *Rhizomnium magnifolium* (Horik) T.J. Kop., *Rhizomnium punctatum* (Hedw.) T.J. Kop.

***Ribes spicatum* s. l.** – *Ribes rubrum* L., *Ribes spicatum* E. Robson

***Rosa rubiginosa* s. l.** – *Rosa agrestis* Savi, *Rosa elliptica* Tausch, *Rosa micrantha* Borrer ex Sm., *Rosa rubiginosa* L.

***Rubus fruticosus* agg.** – *Rubus candicans* auct. non Weihe ex Rchb., *Rubus cordifolius* Waldst. & Kit., *Rubus thyranthus* Focke, *Rubus crassus* Holuby, *Rubus divaricatus* P.J. Müll., *Rubus glaucellus* Sudre, *Rubus glivicensis* Sprib., *Rubus gothicus* Frid. & Gelert ex E.H.L. Krause, *Rubus graecensis* W. Maurer, *Rubus hercynicus* G. Braun, *Rubus infestus* Weihe, *Rubus lentiginosus* Lees, *Rubus macrophyllus* Weihe & Ness, *Rubus nemoralis* P.J. Müll., *Rubus nemorosus* Hayne, *Rubus oboranus* (Sprib.) Sprib., *Rubus opacus* Focke, *Rubus rhombifolius* auct. non Weihe & Ness, *Rubus scissus* W.C.R. Watson, *Rubus serpens* auct. non Weihe, *Rubus siemianicensis* Sprib., *Rubus sylvaticus* Weihe & Ness, *Rubus wimmerianus* (Sprib. ex Sudre) Sprib.

***Rumex acetosella* s. l.** – *Rumex acetosella* L., *Rumex tenuifolius* (Wallr.) Á. Löve

***Salix repens* s. l.** – *Salix rosmarinifolia* (L.), *Salix arenaria* L.

Senecio nemorensis agg. – *Senecio nemorensis* L. subsp. *nemorensis* sensu auct. polon. p.p., *Senecio nemorensis* L. subsp. *fuchsii* (C. Gmelin) Čelak

Silene otites s. l. – *Silene otites* (L.) Wibel, *Silene borysthena* (Gruner) Walters

Solidago canadensis s. l. – *Solidago altissima* L., *Solidago canadensis* L.

Sphagnum capillifolium s. l. – *Sphagnum capillifolium* (Ehrh.) Hedw., *Sphagnum rubellum* Wilson, *Sphagnum nemoreum* Scop.

Sphagnum palustre s. l. – *Sphagnum palustre* L., *Sphagnum centrale* (C.E.O. Jensen) A. Eddy

Sphagnum recurvum agg. – *Sphagnum angustifolium* (C.E.O. Jensen ex Russow) C.E.O. Jensen, *Sphagnum fallax* (Klinggr.) Klinggr., *Sphagnum flexuosum* Dozy & Molk.

Stellaria media agg. – *Stellaria media* (L.) Vill., *Stellaria neglecta* Weihe, *Stellaria pallida* (Dumort.) Piré

Taraxacum sect. *Ruderalia* – *Taraxacum officinale* F.H. Wigg., *Taraxacum officinale* agg., *Taraxacum* sp., *Taraxacum* sect. *Ruderalia*

Trifolium pratense s. l. – *Trifolium pratense* L., *Trifolium pratense* subsp. *maritimum* (Zabel) Rothm.

Trollius europaeus s. l. – *Trollius altissimus* Crantz, *Trollius europaeus* L. s. str.

Vaccinium uliginosum s. l. – *Vaccinium uliginosum* L., *Vaccinium gaultherioides* Bigelow

Viola tricolor s. l. – *Viola tricolor* L. subsp. *curtisii* (E. Forst.) Syme, *Viola tricolor* L. subsp. *maritima* (Schweigg.) Hyl., *Viola tricolor* L. subsp. *subalpina* Gaudin

Data analysis. The final set of relevés was analyzed using the Cocktail method (BRUELHEIDE 2000) included in the JUICE program (TICHÝ 2002). Vegetation classification starts with combining species into species groups. A single group consists of species that occupy similar ecological niches. The tendency of species to co-occur is determined using the Phi coefficient, which is the measure of fidelity (SOKAL & ROHLF 1995; CHYTRÝ *et al.* 2002). To create a species group, a single species is selected. The next step is to analyze the data set in order to find the species with the highest fidelity to the selected species. This species becomes a member of the group as long as it is not an element of any other species group. Otherwise, the species with lower ranking fidelity values are assigned to the target group. The last stage is to create formal definition of particular vegetation unit. This is done by combining species groups using the logical operators AND, OR and NOT.

An example:

***Juncus acutiflorus* species group:** *Juncus acutiflorus*, *Achillea ptarmica*, *Lotus uliginosus*.

***Caltha palustris* species group:** *Myosotis palustris* agg., *Caltha palustris*, *Galium uliginosum*, *Scirpus sylvaticus*, *Crepis paludosa*, *Equisetum palustre*.

***Cirsium oleraceum* species group:** *Geum rivale*, *Angelica sylvestris*, *Cirsium oleraceum*, *Filipendula ulmaria*.

Formal definition of *Crepido paludosae-Juncetum acutiflori* *Juncus acutiflorus* > 5% AND group *Juncus acutiflorus* OR group *Caltha palustris* NOT group *Cirsium oleraceum* OR *Molinia caerulea* s. l. > 5%.

According to this definition, a relevé is assigned to the association *Crepido paludosae-Juncetum acutiflori*, belonging to the alliance *Calthion*, when it contains *Juncus acutiflorus* with a cover of more than 5% and at least the threshold number of species from the groups *Juncus acutiflorus* and/or *Caltha palustris*, and when it contains less than the threshold number of species from the group *Cirsium oleraceum* or the species *Molinia caerulea* s. l. with a cover of more than 5%. The threshold number was established as a half of the members of particular species group.

The species groups and formal definitions used in the present study come from the expert system, which was developed in the project of vegetation classification of the Czech Republic (KOČÍ *et al.* 2003; CHYTRÝ 2007, 2009, 2011, 2013).

Direct application of the Czech expert system did not, however, yield satisfactory results. The results obtained did not reflect the diversity of Polish vegetation. Moreover, many relevés were assigned incorrectly. This resulted mainly from regional differences and the phytosociological and geographical distinctness of

vegetation types in Poland as compared to their counterparts in the Czech Republic. Where necessary, species groups were carefully examined and modified. This was done for the alliances *Molinion caeruleae*, *Calamagrostion arundinaceae* and *Caucalidion*. Additionally, new species groups and formal definitions were developed for syntaxa not found in the Czech vegetation. It was done for associations from *Ammophiletea*, *Cakiletea*, *Violetea calaminariae*, *Zosteretea*, *Charetea* (partially), *Koelerion albescentis*, *Salicion arenariae*, *Trisetion fusci*, *Calamagrostion variae*, *Melampyrion pratensis* and *Lolio-Linion*.

Using the formalized classification approach made it possible to distinguish vegetation units to the level of associations, which were subsequently grouped into alliances and classes. Vegetation units were designated with codes compatible with those given in the classification of the Czech vegetation (CHYTRÝ 2012). For the vegetation units not reported from the Czech Republic, but recognized in the Polish classification, new compatible codes were given. All vegetation units were established as core groups. In order to check whether all relevés within one core group were correctly assigned using formal definitions, hierarchical classification was performed using the TWINSpan (HILL 1979). If some relevés were not consistent with other relevés from the same core group, formal definitions were modified or relevés were simply moved to the closest corresponding groups. This procedure made it possible to distinguish the class *Carici-Kobresietea*. If neither of these strategies did not yield usable results, the relevés were excluded.

The relevés stored in the *Polish Vegetation Database* are unevenly distributed across Poland. Taking into account that some of the areas are over-sampled, whereas others lack phytosociological data, the relevés had to be geographically stratified to improve representativeness (KNOLLOVÁ *et al.* 2005). For this purpose, we applied a grid used in floristic mapping in Central Europe, which is included in the JUICE software package (TICHÝ 2002). From the data set, only three relevés of each syntaxon per grid square of 1.25 longitudinal \times 0.75 latitudinal minute (ca. 1.5 \times 1.4 km) were selected. Geographical stratification reduced the number of relevés to 30,476 with defined syntaxonomical membership.

Diagnostic species were determined using the Phi coefficient, which reflects the relation between species and vegetation units and shows the diagnostic value of the species in a particular vegetation unit (CHYTRÝ *et al.* 2002; CHYTRÝ 2007). Phi coefficient values range from -1 to 1 , but in the output, they were multiplied by 100 . The higher the Phi coefficient value for a given species, the more specific the respective species is for given vegetation unit. Diagnostic species were determined using equal numbers of relevés for each group. This eliminated the dependency between the Phi coefficient and the size of the relevé group (TICHÝ & CHYTRÝ 2006).

Statistically determined diagnostic species played an important role in quantifying the quality of syntaxa delimitation. For this evaluation the Sharpness Index (Eq. 1), the Asymmetric Similarity Index (Eq. 2) and the Uniqueness Index (Eq. 3) were used (CHYTRÝ & TICHÝ 2003). Statistical significance of affinity of diagnostic species to vegetation units was tested using Fisher's exact test (CHYTRÝ *et al.* 2002). Significance level was set at $p < 0.01$. This high threshold of significance was established to reduce the influence of small groups with a greater homogeneity and a greater number of diagnostic species. High thresholds of significance prevented overestimation of diagnostic species for vegetation units represented by small numbers of relevés (CHYTRÝ *et al.* 2006; CHYTRÝ 2007).

Sharpness shows the relation between the number or quality of diagnostic species and average species richness of its stands. A vegetation unit is considered well delimited (sharp) if a large proportion of its species is specific to this unit, while being absent or rare in other vegetation units. The higher the number of species with high values for the Phi coefficient, higher the Sharpness Index for the vegetation unit. The Sharpness Index (S) for a particular vegetation unit j was calculated using the following formula:

$$S_j = \frac{1 + \sum_i \Phi_{ij} \cdot 100}{R_j} \quad (\text{Eq. 1})$$

where Φ_{ij} is the fidelity of species i to vegetation unit j and R_j is the mean number of species in relevés of vegetation unit j .

Uniqueness expresses the distinctness of a given vegetation unit from other units of the same rank, such as class or alliance. A vegetation unit is considered well delimited (unique), if it includes diagnostic species that are exclusively diagnostic for this vegetation unit. The Uniqueness Index for a particular vegetation unit decreases with the increasing number of diagnostic species shared with other vegetation units. The Uniqueness Index is closely related to the Asymmetric Similarity Index (CHYTRÝ & TICHÝ 2003; TICHÝ *et al.* 2011).

In order to calculate the Uniqueness Index, the Asymmetric Similarity Index between every pair of vegetation units j and k was computed (CHYTRÝ & TICHÝ 2003; TICHÝ *et al.* 2011). The Asymmetric Similarity Index (T) was calculated using the following formula:

$$T_{jk} = \frac{\sum_i \Phi_{ij} \Phi_{ik}}{\sum_i \Phi_{ij}^2} \quad (\text{Eq. 2})$$

where Φ_{ij} is the fidelity of species i to vegetation unit j and Φ_{ik} is the fidelity of species i to vegetation unit k . The Asymmetric Similarity Index ranges from 0 to ∞ and is high if a large proportion of diagnostic species of a given vegetation unit are also diagnostic for other vegetation units. The Asymmetric Similarity Index was calculated for every pair of classes and for every pair of alliances. Its values show to what extent the syntaxa compared are similar.

Calculating the Asymmetric Similarity Index made it possible to compute the Uniqueness Index for a particular vegetation unit (j). The Uniqueness Index (U) was calculated using the following formula:

$$U_j = \frac{1}{\sum_k T_{jk}} \quad (\text{Eq. 3})$$

Using the Sharpness Index and the Uniqueness Index made it possible to detect well delimited vegetation units or indicate those for which delimitation is uncertain.

Species with a fidelity exceeding 18 ($\Phi > 0.18$) were considered diagnostic. Constant species were defined as those with a high frequency in the given vegetation unit. The threshold frequency values for constant species were set arbitrarily at 40% for both classes and alliances. Dominant species were defined as those having a cover of more than 50% in at least 3% of the relevés for the given vegetation unit. In this fashion, all species with sporadically high cover in a particular vegetation type were excluded.

Diagnostic, constant and dominant species are presented in the form of lists for each vegetation unit with decreasing values of indices in particular categories.

3. RESULTS

The vegetation of Poland is represented by 44 classes comprising 153 alliances (Appendix 1). The new classification of Polish vegetation was developed by analyzing large set of relevés collected from all over Poland (Fig. 1).

The vegetation units delimited using the Cocktail method are well defined and clearly distinct from each other. Most of them are characterized by unique composition of diagnostic, constant and dominant species (Appendix 2). However, syntaxa distinguished on the basis of a small number of relevés should be interpreted with caution because their diagnostic, constant and dominant species may not be reliable.

The sharpest classes mainly include natural vegetation, in particular non-forest plant communities. The Sharpness Index is highest for classes of specialized plant communities

of limited extent and for classes with strict habitat requirements, such as *Zosteretea marinae*, *Charetea*, *Elyno-Seslerietea*, *Violetea calaminariae*, *Cakiletea maritimae* and *Salicetea herbaceae* (Tab. 1). Among the anthropogenic vegetation, the Sharpness Index is the highest for the class *Stellarietea mediae*, which includes a great number of diagnostic species. Surprisingly, the Sharpness Index is relatively low for classes of forest vegetation such as *Carpino-Fagetea*, *Quercetea robori-petraeae* and *Vaccinio-Piceetea*, even though these are among the most important and differentiated natural vegetation types in Poland. The Sharpness Index is also low for classes of anthropogenic vegetation, such as *Artemisietea vulgaris*, *Epilobietea angustifolii* and *Galio-Urticetea*. The least sharp and least distinct class in terms of floristic composition is *Rhamno-Prunetea*.

Classes also differed in terms of the Uniqueness Index. Certain classes have a high Sharpness Index, but a low Uniqueness Index. These include *Salicetea herbaceae* and *Potametea*. On the other hand, there are classes with both a high Sharpness Index and a high Uniqueness Index (Tab. 1). These include plant communities associated with a specific type of habitat, belonging to the classes *Isoëto-Nano-Juncetea*, *Oxycocco-Sphagnetes*, *Thero-Salicornietea* and *Charetea* (Appendix 2). These classes are characterized by high floristic distinctiveness but relatively low species richness (Tab. 1). Conversely, the classes *Polygono arenastri-Poëtea annuae* and *Asplenieta trichomanis* are represented by small number of exclusive diagnostic species. They consist of a narrow group of specialist species that are rarely found in other vegetation types.

On the basis of the Asymmetric Similarity Index, all classes distinguished have a relatively distinct floristic composition (Tab. 2). Among all pairs of classes compared, the highest similarity is indicated for the classes *Quercetea robori-petraeae* and *Quercetea pubescentis*. A special attention should be paid to the pairs of classes that are similar in terms of floristic composition, but different in the structure. Examples of such pairs are *Phragmito-Magno-Caricetea* and *Alnetea glutinosae*, *Galio-Urticetea* and *Salicetea purpureae*, *Epilobietea angustifolii* and *Quercetea robori-petraeae*. Similarly, alpine plant communities of limited extent, often found in a mosaic of extreme habitats are also very similar to each other. Anthropogenic plant communities from the classes *Artemisietea vulgaris* and *Stellarietea mediae* are closely related. Even though they are similar in terms of floristic composition, it is not appropriate to merge these classes because they occupy different habitat types.

Alliances are differentiated in the same way as classes are. The Sharpness Index is high for vegetation with specific habitat requirements, such as marsh, aquatic and alpine communities belonging to the alliances *Zosterion marinae*, *Charion canescentis*, *Caricion firmae* and *Seslerion tatrae*. They are very specialized plant communities characterized by sharp ecological boundaries and large proportion of specialists species (Appendix 2). Additionally, these vegetation units are characterized by high values for the Uniqueness Index (Tab. 3). Anthropogenic plant communities from the alliances *Caucalidion*, *Arnosericidion* and *Lolio-Linion*, which are almost extinct in the agricultural landscape of Poland, are also the most unique vegetation units. The alliances *Sorbo-Fagion*, *Salicion elaeagno-daphnoidis*, *Quercion petraeae* and *Pulsatillo-Pinion* represent the most unique alliance among forest and scrub vegetation. By contrast, alliances representing semi-natural vegetation including meadows and dry grasslands were poorly delimited. Only few of these alliances have high values for the Uniqueness Index, such as *Cnidion venosi*, *Cynosurion cristati* and *Molinion caeruleae* (Tab. 3). Reed communities and some forest-edge plant communities are poorly represented by diagnostic species, but are unique in terms of species composition.

Table 1

Sharpness Index (*S*) and Uniqueness Index (*U*) of phytosociological classes of Poland

Syntaxa are ranked by decreasing values of the Sharpness Index. Explanations: Abb. – abbreviation of class name, N_1 – total number of relevés of particular syntaxa in the data set, N_2 – number of relevés used after stratification, *A* – average number of taxa rounded to the whole number.

No.	Class	Code	Abb.	N_1	N_2	A	<i>S</i>	<i>U</i>
1.	<i>Zosteretea marinae</i>	VE	ZOS MAR	48	26	35	215.33	1.000
2.	<i>Charetea</i>	VC	CHARET	187	116	5	119.42	0.874
3.	<i>Elyno-Seslerietea</i>	AC	ELY-SES	24	18	32	119.13	0.834
4.	<i>Violetea calaminariae</i>	TI	VIO CAL	18	12	26	96.63	0.887
5.	<i>Stellarietea mediae</i>	XB	STE MED	6485	4874	20	87.06	0.881
6.	<i>Cakiletea maritima</i>	DB	CAK MAR	23	10	8	82.36	0.833
7.	<i>Salicetea herbaceae</i>	AE	SAL HER	38	19	16	76.76	0.656
8.	<i>Isoëto-Nano-Juncetea</i>	MA	ISO-JUN	237	190	15	74.87	0.767
9.	<i>Oxycocco-Sphagnetea</i>	RC	OXY-SPH	434	306	14	71.18	0.765
10.	<i>Ammophiletea arenariae</i>	DA	AMM ARE	345	186	12	69.90	0.713
11.	<i>Potametea</i>	VB	POTAME	855	557	7	69.50	0.599
12.	<i>Thero-Salicornietea</i>	TB	THE-SAL	22	15	6	69.48	0.772
13.	<i>Carici-Kobresietea</i>	AF	CAR-KOB	16	8	30	68.78	0.640
14.	<i>Festuco-Puccinellietea</i>	TC	FES-PUC	192	136	14	66.84	0.797
15.	<i>Erico-Pinetea</i>	LE	ERI-PIN	13	8	42	66.80	0.730
16.	<i>Juncetea trifidi</i>	AB	JUN TRI	48	27	13	64.49	0.517
17.	<i>Loiseleurio-Vaccinieta</i>	AA	LOI-VAC	20	17	16	57.83	0.379
18.	<i>Lemnetea</i>	VA	LEMNET	1050	755	8	57.26	0.723
19.	<i>Quercetea pubescentis</i>	LC	QUE PUB	120	98	49	55.20	0.720
20.	<i>Littorelletea uniflorae</i>	VD	LIT UNI	231	164	10	52.94	0.872
21.	<i>Koelerio-Corynephoretea</i>	TF	KOE-COR	1571	1131	20	51.95	0.821
22.	<i>Roso pendulinae-Pinetea mugo</i>	KC	ROS-PIN	20	16	15	50.76	0.554
23.	<i>Cymbalario-Parietarietea</i>	SB	CYM-PAR	47	18	10	48.37	0.743
24.	<i>Bidentetea tripartitae</i>	MB	BID TRI	209	169	14	46.73	0.689
25.	<i>Alnetea glutinosae</i>	LA	ALN GLU	410	312	35	46.49	0.779
26.	<i>Scheuchzerio-Caricetea</i>	RB	SCH-CAR	1457	1063	23	41.72	0.653
27.	<i>Robinieta</i>	KD	ROBINI	79	63	23	40.30	0.802
28.	<i>Montio-Cardaminetea</i>	RA	MON-CAR	378	279	23	37.22	0.772
29.	<i>Thlaspietea rotundifolii</i>	SC	THL ROT	39	25	25	37.19	0.765
30.	<i>Festuco-Brometea</i>	TH	FES-BRO	1491	1193	32	35.05	0.680
31.	<i>Salicetea purpureae</i>	KA	SAL PUR	128	95	25	34.11	0.851
32.	<i>Molinio-Arrhenatheretea</i>	TD	MOL-ARR	7844	5863	29	28.26	0.694
33.	<i>Mulgedio-Aconitetea</i>	AD	MUL-ACO	198	127	21	26.67	0.623
34.	<i>Carpino-Fagetea</i>	LB	CAR-FAG	5030	3210	29	24.17	0.632
35.	<i>Calluno-Ulicetea</i>	TE	CAL-ULI	991	698	26	22.69	0.540
36.	<i>Quercetea robori-petraeae</i>	LD	QUE ROB	814	604	27	21.40	0.420
37.	<i>Vaccinio-Piceetea</i>	LF	VAC-PIC	2136	1134	24	19.63	0.441
38.	<i>Polygono arenastris-Poëtea annuae</i>	XA	POL-POË	567	352	15	19.25	0.829
39.	<i>Asplenieta trichomanis</i>	SA	ASP TRI	396	279	17	17.11	0.697
40.	<i>Phragmito-Magno-Caricetea</i>	MC	PHR-CAR	5093	3395	15	16.75	0.537
41.	<i>Artemisietea vulgaris</i>	XC	ART VUL	1430	814	18	9.97	0.548
42.	<i>Epilobietea angustifolii</i>	XE	EPI ANG	188	137	22	7.73	0.505
43.	<i>Galio-Urticetea</i>	XD	GAL-URT	1827	1219	18	7.30	0.437
44.	<i>Rhamno-Prunetea</i>	KB	RHA-PRU	914	717	24	3.79	0.649

Table 2

Similarity of classes

Similarity of classes in the left column to the classes in the right column ordered according to decreasing values of the Asymmetric Similarity Index (T). Only 25 pairs of classes with the highest Similarity Index are shown.

Class 1	Class 2	T
<i>Quercetea robori-petraeae</i>	<i>Quercetea pubescentis</i>	68.5
<i>Phragmito-Magno-Caricetea</i>	<i>Alnetea glutinosae</i>	65.1
<i>Galio-Urticetea</i>	<i>Salicetea purpureae</i>	63.6
<i>Loiseleurio-Vaccinietea</i>	<i>Carici rupestris-Kobresietea</i>	56.9
<i>Potametea</i>	<i>Lemnetea</i>	52.5
<i>Galio-Urticetea</i>	<i>Robinietea</i>	48.5
<i>Artemisietea vulgaris</i>	<i>Stellarietea mediae</i>	46.6
<i>Juncetea trifidi</i>	<i>Loiseleurio-Vaccinietea</i>	43.5
<i>Loiseleurio-Vaccinietea</i>	<i>Juncetea trifidi</i>	40.6
<i>Rhamno-Prunetea</i>	<i>Robinietea</i>	36.1
<i>Lemnetea</i>	<i>Potametea</i>	36.0
<i>Bidentetea tripartitae</i>	<i>Isoëto-Nano-Juncetea</i>	32.5
<i>Vaccinio-Piceetea</i>	<i>Quercetea robori-petraeae</i>	30.3
<i>Scheuchzerio-Caricetea</i>	<i>Oxycocco-Sphagnetea</i>	29.1
<i>Mulgedio-Aconitetea</i>	<i>Roso pendulinae-Pinetea mugo</i>	29.0
<i>Epilobietea angustifolii</i>	<i>Quercetea robori-petraeae</i>	28.8
<i>Mulgedio-Aconitetea</i>	<i>Salicetea herbaceae</i>	27.1
<i>Loiseleurio-Vaccinietea</i>	<i>Salicetea herbaceae</i>	25.8
<i>Epilobietea angustifolii</i>	<i>Roso pendulinae-Pinetea mugo</i>	25.3
<i>Thero-Salicornietea</i>	<i>Festuco-Puccinellietea</i>	25.2
<i>Ammophiletea arenariae</i>	<i>Cakiletea maritimae</i>	24.2
<i>Quercetea robori-petraeae</i>	<i>Vaccinio-Piceetea</i>	24.2
<i>Carpino-Fagetea</i>	<i>Montio-Cardaminetea</i>	19.7
<i>Epilobietea angustifolii</i>	<i>Calluno-Ulicetea</i>	19.4
<i>Isoëto-Nano-Juncetea</i>	<i>Bidentetea tripartitae</i>	19.0

Table 3

Sharpness Index (S) and Uniqueness Index (U) of phytosociological alliances of Poland

Syntaxa are ranked by decreasing values of the Sharpness Index. Explanations: Code – alliance code, Abb. – abbreviation of alliance name, N – number of relevés, A – average number of taxa rounded to the whole number.

No.	Alliance	Code	Abb.	N	A	S	U
1.	<i>Zosterion marinae</i>	VEA	<i>Zos mar</i>	26	6	184.55	0.846
2.	<i>Charion canescens</i>	VCC	<i>Cha can</i>	6	5	149.01	0.783
3.	<i>Littorellion uniflorae</i>	VDA	<i>Lit uni</i>	11	5	101.54	0.921
4.	<i>Caricion firmae</i>	ACB	<i>Car fir</i>	7	31	84.00	0.602
5.	<i>Nitellion flexilis</i>	VCA	<i>Nit fle</i>	10	6	80.06	0.783
6.	<i>Seslerion tatrae</i>	ACA	<i>Ses tat</i>	11	32	78.03	0.609
7.	<i>Juncion trifidi</i>	ABA	<i>Jun tri</i>	9	17	74.86	0.649
8.	<i>Batrachion fluitantis</i>	VBC	<i>Bat flu</i>	23	6	70.19	0.749
9.	<i>Charion globularis</i>	VCB	<i>Cha glo</i>	101	5	69.38	0.857
10.	<i>Armerion halleri</i>	TIA	<i>Arm hal</i>	12	26	68.16	0.868
11.	<i>Salicion herbaceae</i>	AEA	<i>Sal her</i>	8	15	68.01	0.825
12.	<i>Atriplicion littoralis</i>	XBG	<i>Atr lit</i>	10	8	57.89	0.564
13.	<i>Radiolion linoidis</i>	MAB	<i>Rad lin</i>	68	16	57.87	0.867
14.	<i>Swertio-Dichodontion</i>	RAD	<i>Swe-Dic</i>	19	20	54.41	0.873

Tab. 3 continued

15. <i>Festucion versicoloris</i>	AFA	<i>Fes ver</i>	8	30	52.83	0.504
16. <i>Juncion baltici</i>	DAC	<i>Jun bal</i>	47	13	47.41	0.663
17. <i>Agropyro-Minuartion</i>	DAB	<i>Agr-Min</i>	12	8	46.13	0.474
18. <i>Lolio-Linion</i>	XBL	<i>Lol-Lin</i>	6	24	45.76	0.664
19. <i>Nymphaeion albae</i>	VBA	<i>Nym alb</i>	172	7	45.34	0.466
20. <i>Salicornion prostratae</i>	TBA	<i>Sal pro</i>	17	6	44.71	0.604
21. <i>Caucalidion</i>	XBA	<i>Caucal</i>	266	25	44.68	0.667
22. <i>Oxycocco-Ericion</i>	RCB	<i>Oxy-Eri</i>	39	16	44.19	0.438
23. <i>Ammophilion arenariae</i>	DAA	<i>Amm are</i>	127	12	42.23	0.430
24. <i>Festucion picturatae</i>	AEB	<i>Fes pic</i>	11	28	40.78	0.454
25. <i>Bromo pannonici-Festucion</i>	THB	<i>Bro-Fes</i>	8	35	40.20	0.463
26. <i>Puccinellion limosae</i>	TCA	<i>Puc lim</i>	48	10	40.16	0.536
27. <i>Hydrocharitton morsus-ranae</i>	VCA	<i>Hyd mor</i>	211	7	38.57	0.482
28. <i>Eleocharitton ovatae</i>	MAA	<i>Ele ova</i>	110	14	38.39	0.576
29. <i>Salicion silesiacaе</i>	ADC	<i>Sal sil</i>	12	24	36.98	0.435
30. <i>Koelerion glaucae</i>	TGA	<i>Koe gla</i>	21	27	36.51	0.565
31. <i>Diantho lumnitzeri-Seslerion</i>	THC	<i>Dia-Ses</i>	23	34	35.33	0.442
32. <i>Loiseleurio-Vaccinion</i>	AAA	<i>Loi-Vac</i>	17	16	33.60	0.336
33. <i>Verbenion supinae</i>	MAC	<i>Ver sup</i>	12	14	33.41	0.710
34. <i>Sorbo-Fagion</i>	LBD	<i>Sor-Fag</i>	35	38	33.35	0.616
35. <i>Epilobio-Montion</i>	RAC	<i>Epi-Mon</i>	2	18	33.25	0.891
36. <i>Pulsatillo slavicae-Pinion</i>	LEA	<i>Pul-Pin</i>	8	43	32.85	0.408
37. <i>Dryopterido-Athyron</i>	ADE	<i>Dry-Ath</i>	15	13	32.33	0.336
38. <i>Potamion</i>	VBB	<i>Potami</i>	328	6	31.12	0.463
39. <i>Malvion neglectae</i>	XBI	<i>Mal neg</i>	60	13	30.84	0.761
40. <i>Sphagno-Tomentypnion</i>	RBB	<i>Sph-Tom</i>	37	38	30.52	0.675
41. <i>Asplenion cuneifolii</i>	SAB	<i>Asp cun</i>	13	10	29.91	0.726
42. <i>Oxycocco-Empetron</i>	RCC	<i>Oxy-Emp</i>	73	13	29.10	0.283
43. <i>Arabidopsion thalianae</i>	TFE	<i>Ara tha</i>	13	20	29.10	0.648
44. <i>Sphagno-Utricularion</i>	VAB	<i>Sph-Utr</i>	40	11	27.25	0.816
45. <i>Lemnion minoris</i>	VAA	<i>Lem min</i>	497	8	26.85	0.530
46. <i>Quercion pubescenti-petraeae</i>	LCA	<i>Que pub</i>	8	44	26.79	0.589
47. <i>Calamagrostion variaе</i>	ADF	<i>Cal var</i>	11	47	26.68	0.476
48. <i>Juncion gerardii</i>	TCB	<i>Jun ger</i>	88	17	26.51	0.666
49. <i>Arnoserdion minimaе</i>	XBD	<i>Arn min</i>	439	14	25.42	0.404
50. <i>Eleocharitton acicularis</i>	VDB	<i>Ele aci</i>	112	10	25.22	0.562
51. <i>Calamagrostion arundinaceae</i>	ADB	<i>Cal aru</i>	8	23	24.61	0.511
52. <i>Sphagnion cuspidati</i>	RBE	<i>Sph cus</i>	162	12	24.42	0.401
53. <i>Salicion elaeagno-daphnoidis</i>	KAB	<i>Sal ela</i>	9	38	23.96	0.895
54. <i>Adenostyilion alliariae</i>	ADD	<i>Ade all</i>	15	17	23.44	0.463
55. <i>Quercion petraeae</i>	LCC	<i>Que pet</i>	90	49	23.16	0.585
56. <i>Nardo-Caricion bigelowii</i>	ABB	<i>Nar-Car</i>	18	11	22.30	0.572
57. <i>Pinion mugo</i>	KCA	<i>Pin mug</i>	16	15	22.26	0.367
58. <i>Lycopodo-Cratoneurion</i>	RAB	<i>Lyc-Cra</i>	12	22	22.09	0.643
59. <i>Salicion triandrae</i>	KAA	<i>Sal tri</i>	32	20	21.81	0.641
60. <i>Sphagnion magellanici</i>	RCA	<i>Sph mag</i>	194	15	21.59	0.263
61. <i>Caricion davallianae</i>	RBA	<i>Car dav</i>	217	34	21.36	0.516
62. <i>Bidention tripartitae</i>	MBA	<i>Bid tri</i>	118	14	21.18	0.544
63. <i>Veronico-Lysimachion</i>	TDJ	<i>Ver-Lys</i>	15	17	21.07	0.808
64. <i>Veronico-Euphorbion</i>	XBB	<i>Ver-Eup</i>	495	22	20.80	0.431
65. <i>Festucion valesiacaе</i>	THD	<i>Fes val</i>	199	29	20.78	0.448

Tab. 3 continued

66. <i>Chelidonio-Robinion</i>	KDA	<i>Che-Rob</i>	63	23	20.43	0.826
67. <i>Salsolion ruthenicae</i>	XBJ	<i>Sal rut</i>	43	17	20.41	0.553
68. <i>Nardo strictae-Agrostion</i>	TEB	<i>Nar-Agr</i>	17	26	19.53	0.362
69. <i>Meliloto-Bolboschoenion</i>	MCB	<i>Mel-Bol</i>	51	14	19.37	0.882
70. <i>Vaccinio uliginosi-Pinion</i>	LFD	<i>Vac-Pin</i>	162	21	19.11	0.292
71. <i>Salicion cinereae</i>	LAB	<i>Sal cin</i>	89	27	18.65	0.521
72. <i>Tilio platyphylli-Acerion</i>	LBF	<i>Til-Ace</i>	366	29	18.43	0.499
73. <i>Corynephorion canescentis</i>	TFA	<i>Cor can</i>	645	17	18.18	0.464
74. <i>Thero-Airion</i>	TFB	<i>The-Air</i>	59	14	18.09	0.767
75. <i>Koelerion albescentis</i>	TFG	<i>Koe alb</i>	38	30	18.03	0.608
76. <i>Ranunculion aquatilis</i>	VBD	<i>Ran aqu</i>	34	11	18.02	0.774
77. <i>Onopordion acanthi</i>	XCA	<i>Ono aca</i>	16	15	17.04	0.843
78. <i>Trisetion fusci</i>	ADG	<i>Tri fus</i>	12	23	16.97	0.465
79. <i>Chenopodion rubri</i>	MBB	<i>Che rub</i>	51	14	16.44	0.572
80. <i>Piceion abietis</i>	LFC	<i>Pic abi</i>	283	19	16.07	0.571
81. <i>Melampyrrion pratensis</i>	THJ	<i>Mel pra</i>	18	37	15.57	0.503
82. <i>Spergulo-Erodion</i>	XBF	<i>Spe-Ero</i>	431	17	15.37	0.413
83. <i>Alnion glutinosae</i>	LAA	<i>Aln glu</i>	223	38	14.86	0.539
84. <i>Salicion arenariae</i>	KBH	<i>Sal are</i>	42	40	14.54	0.510
85. <i>Scleranthion annui</i>	XBC	<i>Scl ann</i>	2331	21	14.54	0.269
86. <i>Fragarion vescae</i>	XEB	<i>Fra ves</i>	3	14	14.39	0.947
87. <i>Oxalidion fontanae</i>	XBE	<i>Oxa fon</i>	357	21	14.31	0.358
88. <i>Bromion erecti</i>	THF	<i>Bro ere</i>	195	35	13.56	0.446
89. <i>Prunion fruticosae</i>	KBA	<i>Pru fru</i>	59	27	13.50	0.585
90. <i>Cnidion venosi</i>	TDI	<i>Cni ven</i>	208	28	13.24	0.717
91. <i>Cirsio-Brachypodion</i>	THE	<i>Cir-Bra</i>	186	32	12.77	0.407
92. <i>Alysso-Festucion pallentis</i>	THA	<i>Aly-Fes</i>	91	34	12.44	0.312
93. <i>Alysso-Sedion</i>	TFF	<i>Aly-Sed</i>	65	24	12.42	0.494
94. <i>Utricularion vulgaris</i>	VAB	<i>Utr vul</i>	47	15	12.42	0.615
95. <i>Fagion sylvaticae</i>	LBC	<i>Fag syl</i>	727	27	12.29	0.378
96. <i>Eragrostion cilianensi-minoris</i>	XBK	<i>Era cil</i>	80	13	12.25	0.694
97. <i>Nardion strictae</i>	TEA	<i>Nar str</i>	56	19	12.19	0.293
98. <i>Molinion caeruleae</i>	TDD	<i>Mol cae</i>	731	33	11.61	0.570
99. <i>Arction lappae</i>	XCE	<i>Acr lap</i>	100	15	11.58	0.703
100. <i>Caricion remotae</i>	RAA	<i>Car rem</i>	246	23	11.27	0.552
101. <i>Salicion albae</i>	KAC	<i>Sal alb</i>	54	26	11.21	0.567
102. <i>Rumicion alpini</i>	XDF	<i>Rum alp</i>	39	21	11.02	0.732
103. <i>Cymbalarion-Asplenion</i>	SBA	<i>Cym-Asp</i>	18	10	10.83	0.775
104. <i>Carpinion betuli</i>	LBB	<i>Car bet</i>	341	30	10.43	0.445
105. <i>Polygono-Trisetion</i>	TDB	<i>Pol-Tri</i>	395	30	10.02	0.435
106. <i>Violion caninae</i>	TEC	<i>Vio can</i>	304	34	9.51	0.410
107. <i>Eleocharito-Sagittarion</i>	MCC	<i>Ele-Sag</i>	223	12	9.26	0.800
108. <i>Geranion sanguinei</i>	THH	<i>Ger san</i>	128	32	9.17	0.438
109. <i>Nardo-Juncion squarrosi</i>	TED	<i>Nar-Jun</i>	69	18	8.70	0.595
110. <i>Koelerio-Phleion phleoidis</i>	THG	<i>Koe-Phl</i>	96	30	8.56	0.359
111. <i>Carici-Rumicion hydrolapathi</i>	MCF	<i>Car-Rum</i>	112	14	8.44	0.566
112. <i>Stipion calamagrostis</i>	SCA	<i>Sti cal</i>	25	25	8.28	0.605
113. <i>Coronopodo-Polygonion</i>	XAA	<i>Cor-Pol</i>	142	16	7.96	0.436
114. <i>Sisymbrium officinalis</i>	XBH	<i>Sis off</i>	59	16	7.55	0.721
115. <i>Senecion fluviatilis</i>	XDA	<i>Sen flu</i>	216	14	7.32	0.541
116. <i>Glycerio-Sparganion</i>	MCE	<i>Gly-Spa</i>	178	16	7.22	0.715

Tab. 3 continued

117. <i>Cystopteridion</i>	SAA	<i>Cystop</i>	124	16	6.72	0.543
118. <i>Petasition hybridi</i>	XDB	<i>Pet hyb</i>	117	21	6.59	0.695
119. <i>Armerion elongatae</i>	TFC	<i>Arm elo</i>	89	23	6.36	0.345
120. <i>Quercion roboris</i>	LDB	<i>Que rob</i>	262	28	6.32	0.386
121. <i>Phalaridion arundinaceae</i>	MCD	<i>Pha aru</i>	68	15	6.29	0.596
122. <i>Genisto germanicae-Quercion</i>	LDA	<i>Gen-Que</i>	342	27	6.28	0.321
123. <i>Cynosurion cristati</i>	TDC	<i>Cyn cri</i>	537	24	6.16	0.688
124. <i>Juncion effusi</i>	TDG	<i>Jun eff</i>	71	23	5.84	0.485
125. <i>Luzulo-Fagion</i>	LBE	<i>Luz-Fag</i>	719	23	5.61	0.324
126. <i>Alnion incanae</i>	LBA	<i>Aln inc</i>	1022	32	5.57	0.530
127. <i>Aegopodio-Sambucion nigrae</i>	KBD	<i>Aeg-Sam</i>	103	16	5.56	0.695
128. <i>Asplenion septentrionalis</i>	SAC	<i>Asp sep</i>	142	19	5.41	0.458
129. <i>Dicrano-Pinion</i>	LFB	<i>Dic-Pin</i>	689	26	5.14	0.302
130. <i>Saginion procumbentis</i>	XAB	<i>Sag pro</i>	210	15	5.14	0.433
131. <i>Alopecurion pratensis</i>	TDH	<i>Alo pra</i>	541	27	5.11	0.551
132. <i>Euphorbio-Callunion</i>	TEE	<i>Eup-Cal</i>	44	28	4.88	0.525
133. <i>Sphagno-Caricion canescentis</i>	RBD	<i>Sph-Car</i>	317	18	4.75	0.234
134. <i>Geo urbani-Alliarion</i>	XDD	<i>Geo-All</i>	227	24	4.51	0.724
135. <i>Magno-Caricion elatae</i>	MCG	<i>Car ela</i>	509	21	4.28	0.708
136. <i>Potentillion anserinae</i>	TDK	<i>Pot ans</i>	60	18	4.07	0.462
137. <i>Calthion palustris</i>	TDF	<i>Cal pal</i>	2153	28	3.85	0.400
138. <i>Phragmition australis</i>	MCA	<i>Phr aus</i>	1089	12	3.79	1.000
139. <i>Hyperico-Scleranthion</i>	TFD	<i>Hyp-Scl</i>	222	22	3.53	0.311
140. <i>Atriplicion</i>	XBG	<i>Atrip l</i>	307	17	2.98	0.251
141. <i>Arrhenatherion elatioris</i>	TDA	<i>Arr ela</i>	1152	32	2.91	0.420
142. <i>Magno-Caricion gracilis</i>	MCH	<i>Car gra</i>	1165	17	2.66	0.515
143. <i>Calamagrostion villosae</i>	ADA	<i>Cal vil</i>	54	18	2.43	0.211
144. <i>Genisto pilosae-Vaccinion</i>	TEF	<i>Gen-Vac</i>	208	20	2.35	0.464
145. <i>Berberidion vulgaris</i>	KBB	<i>Ber vul</i>	229	24	2.34	0.558
146. <i>Epilobion angustifolii</i>	XEA	<i>Epi ang</i>	134	22	2.29	0.506
147. <i>Convolvulo-Elytrigion</i>	XCC	<i>Con-Ely</i>	328	19	2.26	0.475
148. <i>Caricion canescenti-nigrae</i>	RBC	<i>Car can</i>	330	23	1.97	0.499
149. <i>Trifolion medii</i>	THI	<i>Tri med</i>	249	30	1.78	0.567
150. <i>Impatienti-Stachyion</i>	XDC	<i>Imp-Sta</i>	93	22	1.09	1.000
151. <i>Dauco-Melilotion</i>	XCB	<i>Dau-Mel</i>	624	21	0.05	1.000
152. <i>Aegopodion podagrariae</i>	XDE	<i>Aeg pod</i>	749	20	0.05	1.000
153. <i>Sambuco-Salicion capreae</i>	KBC	<i>Sam-Sal</i>	284	26	0.04	-

Most of the vegetation units compared using the Asymmetric Similarity Index are well defined (Tab. 4). Only some pairs of alliances, such as *Genisto pilosae-Vaccinion* and *Nardo strictae-Agrostion*, *Calamagrostion villosae* and *Salicion silesiacae* or *Calamagrostion villosae* and *Dryopterido-Athyron* are very similar. However, the high similarity of the alliance *Salicion silesiacae* to the other vegetation units may result from a low number of the relevés representing this alliance in the data set or from the fact it is fragmentarily developed in Poland (Tab. 4).

The Asymmetric Similarity Index is high for pairs of alliances having similar origins and habitat requirements, but different geographical ranges or vegetation structures. This is true for pairs of alliances such as *Sphagnion magellanici* and *Oxycocco-Empetrium* or *Oxycocco-Ericion* and *Oxycocco-Empetrium*, as well as for other peat bog vegetation types such as *Sphagnion magellanici* and *Vaccinio uliginosi-Pinion*.

Table 4
Similarity of alliances

Similarity of alliances in the left column to the alliances in the right column ordered according to decreasing values of the Asymmetric Similarity Index (*T*). Only 50 pairs of alliances with the highest Asymmetric Similarity Index are shown.

Alliance 1	Alliance 2	<i>T</i>
<i>Genisto pilosae-Vaccinion</i>	<i>Nardo strictae-Agrostion</i>	146.7
<i>Calamagrostion villosae</i>	<i>Salicion silesiacae</i>	138.2
<i>Calamagrostion villosae</i>	<i>Dryopterido-Athyron</i>	109.1
<i>Sphagnion magellanici</i>	<i>Oxycocco-Empetron</i>	95.1
<i>Scleranthion annui</i>	<i>Lolio-Linion</i>	93.4
<i>Saginion procumbentis</i>	<i>Coronopodo-Polygonion</i>	87.2
<i>Oxycocco-Empetron</i>	<i>Oxycocco-Ericion</i>	80.2
<i>Agropyro-Minuartion</i>	<i>Atriplicion littoralis</i>	79.9
<i>Berberidion vulgaris</i>	<i>Quercion pubescenti-petraeae</i>	79.3
<i>Calamagrostion villosae</i>	<i>Calamagrostion arundinaceae</i>	78.0
<i>Sphagno-Caricion canescentis</i>	<i>Sphagnion cuspidati</i>	77.8
<i>Oxycocco-Empetron</i>	<i>Sphagnion magellanici</i>	77.0
<i>Armerion elongatae</i>	<i>Koelerion glaucae</i>	74.8
<i>Genisto germanicae-Quercion</i>	<i>Quercion petraeae</i>	73.9
<i>Sphagnion magellanici</i>	<i>Vaccinio uliginosi-Pinion</i>	73.6
<i>Koelerio-Phleion phleoidis</i>	<i>Koelerion glaucae</i>	71.9
<i>Atriplicion</i>	<i>Malvion neglectae</i>	71.9
<i>Juncion effusi</i>	<i>Epilobio-Montion</i>	69.5
<i>Arnoserdion minimae</i>	<i>Lolio-Linion</i>	69.4
<i>Asplenion septentrionalis</i>	<i>Asplenion cuneifolii</i>	69.0
<i>Scleranthion annui</i>	<i>Arnoserdion minimae</i>	69.0
<i>Arrhenatherion elatioris</i>	<i>Polygono-Trisetion</i>	67.9
<i>Loiseleurio-Vaccinion</i>	<i>Juncion trifidi</i>	66.7
<i>Alysso-Festucion pallentis</i>	<i>Bromo pannonicum-Festucion</i>	64.1
<i>Sphagnion magellanici</i>	<i>Oxycocco-Ericion</i>	63.2
<i>Lemnion minoris</i>	<i>Hydrocharition morsus-ranae</i>	63.1
<i>Vaccinio uliginosi-Pinion</i>	<i>Sphagnion magellanici</i>	62.6
<i>Loiseleurio-Vaccinion</i>	<i>Festucion versicoloris</i>	62.5
<i>Dryopterido-Athyron</i>	<i>Salicion silesiacae</i>	62.1
<i>Fagion sylvaticae</i>	<i>Tilio platyphylli-Acerion</i>	61.9
<i>Nardion strictae</i>	<i>Festucion picturatae</i>	60.4
<i>Atriplicion</i>	<i>Veronico-Euphorbion</i>	60.2
<i>Convolvulo-Elytrigion</i>	<i>Lolio-Linion</i>	59.6
<i>Atriplicion</i>	<i>Spergulo-Erodion</i>	59.4
<i>Alysso-Festucion pallentis</i>	<i>Diantho lummitzeri-Seslerion</i>	59.3
<i>Pinion mugo</i>	<i>Salicion silesiacae</i>	59.0
<i>Sphagno-Caricion canescentis</i>	<i>Oxycocco-Ericion</i>	58.4
<i>Atriplicion</i>	<i>Oxalidion fontanae</i>	57.6
<i>Vaccinio uliginosi-Pinion</i>	<i>Oxycocco-Empetron</i>	57.1
<i>Oxalidion fontanae</i>	<i>Veronico-Euphorbion</i>	56.4
<i>Puccinellion limosae</i>	<i>Salicornion prostratae</i>	56.2
<i>Veronico-Euphorbion</i>	<i>Caucalidion</i>	56.0
<i>Oxycocco-Empetron</i>	<i>Vaccinio uliginosi-Pinion</i>	54.3
<i>Coronopodo-Polygonion</i>	<i>Saginion procumbentis</i>	54.3
<i>Caricion davallianae</i>	<i>Sphagno-Tomentypnion</i>	54.2
<i>Salicornion prostratae</i>	<i>Puccinellion limosae</i>	53.9
<i>Polygono-Trisetion</i>	<i>Nardo strictae-Agrostion</i>	53.9
<i>Atriplicion littoralis</i>	<i>Agropyro-Minuartion</i>	53.5
<i>Potamion</i>	<i>Nymphaeion albae</i>	52.1
<i>Caricion canescenti-nigrae</i>	<i>Sphagno-Tomentypnion</i>	51.0

4. DISCUSSION

The establishment and development of the *Polish Vegetation Database* has opened new possibilities for advanced phytosociological research (KĄCKI & ŚLIWIŃSKI 2012a, b). The Polish database is a part of a rapidly evolving network of phytosociological databases around the world (DENGLER *et al.* 2011). Availability of large data sets provides a great opportunity to learn about diversity of vegetation across large geographical areas. It also helps in creating a coherent classification system (BRUELHEIDE & CHYTRÝ 2000; DENGLER *et al.* 2012). The analyses carried out in this study are the first step in a comprehensive and nation-wide survey of vegetation in Poland. They reflect changes made in classification systems based on numerous syntaxonomical revisions and rely on the proper use of the *International Code of Phytosociological Nomenclature* (GRABHERR & MUCINA 1993; MUCINA, GRABHERR & ELLMAUER 1993; MUCINA, GRABHERR & WALLNÖFER 1993; BARKMAN *et al.* 1995; BERG *et al.* 2004; CHYTRÝ 2007, 2009, 2011, 2012, 2013; LANDUCCI *et al.* 2013; ŠUMBEROVÁ & HRIVNÁK 2013).

The Cocktail method and expert system make it possible to maintain coherence of classification of vegetation across the Europe. The basic element of the classification approach used in this study is determination of species with a strong tendency to co-occur in vegetation units. This approach is based on the concept of sociological species groups (PASSARGE 1964; DOING 1969). The methods rely on recent achievements in phytosociology, and are designed to provide reproducible results for various biogeographical regions.

Species groups and formal definitions are valuable and useful tools that can be used to classify vegetation of Poland, although they sometimes have to be adapted to regional conditions. In order to create definitions of vegetation units, new combinations of species should be recognized. Diagnostic species determined in this study often correspond to indicator species (character and differential) indicated on the basis of traditional approach (MATUSZKIEWICZ W. 2008).

In contrast to the classical phytosociology, vegetation units distinguished using formalized classification are characterized by more diverse species composition including diagnostic, constant and dominant species.

The results of this study provide a way to critically examine the classification system in Poland. However, the interpretation of the results is not as reliable as can be desired, mainly because the phytosociological data stored in the *Polish Vegetation Database* are still incomplete. Therefore, some syntaxa are poorly represented by relevés, which results in less reliable determination of diagnostic species for delimited syntaxa. This also might affect the final classification. Nevertheless, the present study raises many questions about classification of vegetation in Poland.

Until now, the vegetation of Poland has been divided into 41 classes comprising 108 alliances (MATUSZKIEWICZ W. 1981). Even though the vegetation of Poland is highly diverse, almost no attempts have been made to characterize vegetation on a wide spatial scale on the basis of large sets of relevés. Forest plant communities are an exception (MATUSZKIEWICZ W. & MATUSZKIEWICZ A. 1973; MATUSZKIEWICZ W. & MATUSZKIEWICZ J.M. 1973; MATUSZKIEWICZ J.M. 1976, 1977, 1988, 2001; DZWONKO 1986; JAKUBOWSKA-GABARA 1993, 1996). Unfortunately, many other types of vegetation have been studied only in regional surveys. These regional studies, however, greatly increase the knowledge of the diversity of vegetation in the country. Since the first edition of the identification key to plant

communities in Poland appeared, the number of plant associations has increased from 355 to 487, and the number of alliances from 108 to 114, whereas the number of classes has remained unchanged (MATUSZKIEWICZ W. 1981, 2008).

The present classification and diagnostic species determined for each vegetation unit confirm high diversity of vegetation in Poland. This classification relies on the Polish database resources, which for some regions may not be complete and representative. Some of the syntaxa distinguished will probably be supplemented with new data and undergo subsequent revisions. There is no doubt that the class *Thlaspietea rotundifoliae* needs to be re-assessed. Within that class, data analysis revealed only one alliance *Stipion calamagrostis*. The data set did not contain information on other vegetation types found on mobile screes in Poland, as described by KOSIŃSKI (1999).

The classification of vegetation found on heavy metal soil is problematic and has been subjected to many syntaxonomical discussions (e.g., ERNST 1974, 1976; PUNZ & MUCINA 1997; BECKER *et al.* 2007; DIERSCHKE & BECKER 2008). In Poland, grasslands occurring on zinc-lead post-mining wastes were described comprehensively by GRODZIŃSKA & SZAREK-ŁUKASZEWSKA (2009). According to this study, the class *Violetea calaminariae* in Poland is characterized mainly by *Biscutella laevigata* and many other differential species, including lichens with different substrate preferences. In the present study, the class *Violetea calaminariae* is also well represented by diagnostic species of lichens. However, only terricolous lichens were included in the analyses (BIELCZYK *et al.* 2009).

The present classification revealed the presence of the relevés in the data set that can be assigned to the class *Carici-Kobresietea*, which has not been reported hitherto from Poland. These relevés were collected from the alpine zones of Babia Góra and were originally assigned to the alliances *Seslerion tatrae* and *Juncion trifidi* (WALAS 1933). Classification of the class *Mulgedio-Aconitetea* follows the most recent syntaxonomical revisions of this syntaxon in Europe (KLIMENT *et al.* 2010; MICHL *et al.* 2010). Within the subalpine tall forb and deciduous scrub vegetation, the least represented by relevés and hence the least distinct syntaxon is the alliance *Salicion silesiaca*, which was recently reported from Poland (PARUSEL 2010). This vegetation unit is closely related to the alliance *Calamagrostion villosae* in terms of species composition, but on the other hand they are structurally distinct. Generally, alpine vegetation is represented by a small number of relevés in the *Polish Vegetation Database*. Some of the vegetation units might therefore be poorly delimited. It is necessary to collect more comprehensive data on alpine vegetation in order to extend our knowledge about its manifold diversity.

The class *Molinio-Arrhenatheretea* is one of the classes that is best represented by relevés in the *Polish Vegetation Database*. Formalized classification brought only slight changes that confirm the current state of knowledge about the diversity of plant communities within this class (KUCHARSKI & MICHALSKA-HEJDUK 1994; ZAŁUSKI 1995; KUCHARSKI 1999; BRZEG & WOJTERSKA 2001; TRĄBA & WOLAŃSKI 2011, 2012; KAĆKI 2012). The only essential changes were with regard to wet meadows from the alliance *Calthion*. Data analysis indicated that the alliances *Calthion* and *Filipendulion* were very similar, and were therefore merged into a single alliance. The same solution was accepted in the Czech Republic (CHYTRÝ & TICHÝ 2003). In the present classification, alluvial vegetation was divided into the alliances *Cnidion*, *Alopecurion* and *Veronico-Lysimachion*, similarly to other studies in Poland (BORYSIAK 1994; ZAŁUSKI 1995). A different view was adopted in other European countries, where the alliances *Cnidion*, *Alopecurion* and *Veronico-Lysimachion* were merged into the alliance *Deschampsion caespitosae* (BOTTA-DUKAT *et al.* 2005; CHYTRÝ 2007).

In the data set analyzed, these alliances are well delimited, both floristically and structurally (Tab. 3). Dry grasslands of the classes *Trifolio-Geranietea* and *Festuco-Brometea* generate a lot of interest because of their high diversity and variability (DENGLER 2004a, b; BRZEG 2005; JANIŠOVÁ *et al.* 2007; JAROLÍMEK & ŠIBÍK 2008; JANIŠOVÁ & DÚBRAVKOVÁ 2010). Based on a solution proposed by CHYTRÝ (2007), the alliances usually classified under the class *Trifolio-Geranietea* were assigned to the class *Festuco-Brometea*.

The results of this study demonstrate the high value of the phytosociological data stored in the *Polish Vegetation Database*. However, there are still plant communities which have not been included in this paper, primarily due to insufficient data from some regions of Poland. The changes implemented to the classification system are a general proposal, the details of which require further discussion and refinement.

5. CONCLUSIONS

The results of the present study confirm that formalized classification can be successfully used to precisely delimit vegetation units. Most of the units delimited are well represented by diagnostic species. In addition, this method yield reproducible classification results regardless of the origin of the relevés. Direct application of formal definitions created for different biogeographic regions may result in incorrect classification due to many regional differences in the structure and diversity of vegetation. The final results of the present study suggest that the vegetation of Poland can be divided into 44 classes and 153 alliances. Using a large set of relevés provides comprehensive insight into variability of vegetation over large habitat and geographical gradients. However, the present classification of vegetation with statistically determined diagnostic, constant and dominant species requires further discussion and refinement.

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7. SATYSTYCZNE ZDEFINIOWANIE GATUNKÓW DIAGNOSTYCZNYCH, STAŁYCH I DOMINUJĄCYCH W WYŻSZYCH JEDNOSTKACH ROŚLINNOŚCI POLSKI (streszczenie)

Praca ta prezentuje rewizję syntakonomiczną oraz statystyczne wyznaczenie gatunków diagnostycznych, stałych i dominujących dla wyższych jednostek syntaksonomicznych Polski. Dotychczas jedynym kompleksowym opracowaniem stanowiącym źródło informacji o zróżnicowaniu roślinności Polski był *Przewodnik do oznaczania zbiorowisk roślinnych Polski* autorstwa Profesora W. Matuszkiewicza. Pierwsze wydanie tego podręcznika ukazało się ponad 30 lat temu. Wykaz zespołów oraz innych jednostek syntaksonomicznych zawarty w kolejnych wydaniach tego przewodnika, choć uzupełniany o nowe dane nigdy nie został poddany weryfikacji w szerszym aspekcie zmienności roślinności odzwierciedlonej w rewizjach powstających w innych krajach europejskich.

Analizy w szerokich gradientach siedliskowych wykonane na podstawie dużych zbiorów zdjęć stają się możliwe dzięki elektronicznym bazom danych fitosocjologicznych, dynamicznie powstających na przełomie wieków. W Polsce od roku 2007 funkcjonuje baza danych o roślinności Polski *Polish Vegetation Database*, której zasoby obejmują 54 982 zdjęcia fitosocjologiczne wykonane na obszarze całego kraju.

Celem niniejszej pracy jest dokonanie przeglądu zróżnicowania roślinności Polski na poziomie wyższych jednostek syntaksonomicznych wraz ze statystycznym określeniem gatunków diagnostycznych, stałych i dominujących poszczególnych syntaksonów. Główny cel badań realizowano poprzez: (1) dokonanie przeglądu zróżnicowania roślinności Polski z wykorzystaniem statystycznie określonych grup gatunków współwystępujących

i sformalizowanego opisu zespołów; (2) określenie gatunków diagnostycznych, stałych i dominujących dla wyższych jednostek fitosocjologicznych; (3) dokonanie oceny odrębności florystycznej niektórych syntaksonów, zwłaszcza słabo scharakteryzowanych w celu krytycznego spojrzenia na zasadność utrzymania ich w obecnym systemie klasyfikacyjnym.

Wszystkie analizy wykonano na podstawie statystycznych analiz dużego zbioru zdjęć, z pominięciem subiektywnego i lokalnego wpływu tzw. wiedzy eksperckiej na dobór gatunków charakteryzujących poszczególne syntaksy. Zawartość bazy poddano wstępnej stratyfikacji wykluczając z analiz wszystkie zdjęcia fitosocjologiczne wykonane na nietypowych powierzchniach oraz te bez przypisanych lokalizacji i współrzędnych geograficznych. Ostateczny zbiór danych wykorzystany w analizach obejmował 43 686 zdjęć fitosocjologicznych. Ponadto ujednolicono i uzgodniono nazewnictwo stosowane przez różnych autorów dla gatunków, ich podgatunków lub innych, niższych jednostek taksonomicznych. Z powodu nierównomiernego zgromadzenia zdjęć w bazie przeprowadzono geograficzną stratyfikację materiału. W tym celu przyjęto siatkę kwadratów stosowaną w kartowaniu flory i fauny Europy. Z całości sklasyfikowanego zbioru wylosowano maksymalnie po trzy zdjęcia reprezentujące dany syntakson w kwadracie wyznaczonym przez 1,25 długości geograficznej oraz 0,75 szerokości geograficznej (czyli w przybliżeniu 1,5×1,4 km). W rezultacie otrzymano zbiór 30 476 zdjęć fitosocjologicznych. W obrębie przygotowanego zbioru wszystkie gatunki drzew i krzewów występujące w różnych warstwach połączono w jedną, tak by gatunek występował tylko raz w tabeli. Z bazy usunięto także wszystkie gatunki juwenilne. Materiał ten został poddany sformalizowanej i hierarchicznej klasyfikacji, której wyniki przedstawiono na poziomie klas i związków roślinnych.

Wszystkie analizy przeprowadzono w programie JUICE. Całość zbioru poddano klasyfikacji metodą Cocktail. Procedura klasyfikacji roślinności za pomocą tej metody polega na tworzeniu grup gatunków współwystępujących w zbiorowiskach roślinnych. Tworzenie definicji asocjacji możliwe jest poprzez łączenie ze sobą grup gatunków za pomocą operatorów logicznych AND, OR oraz NOT.

Gatunki diagnostyczne zdefiniowano za pomocą współczynnika wierności phi coefficient, który określa relację pomiędzy gatunkami i jednostkami fitosocjologicznymi oraz ukazuje wierność gatunków dla danej jednostki roślinności. Za gatunek diagnostyczny uznano ten, którego wartość phi coefficient wynosiła co najmniej 18. Wartość progową dla gatunków stałych określono arbitralnie na poziomie 40% zarówno dla klas i związków. Natomiast za gatunek dominujący uznano takson, który osiągnął pokrycie powyżej 50% i występował w przynajmniej 3% zdjęć z danej jednostki roślinności. Wyodrębnione syntaksy scharakteryzowano wskaźnikami Sharpness i Uniqueness. Wysokie wartości obu tych wskaźników dla poszczególnych jednostek świadczą o ich znacznej odrębności syntaksonomicznej.

Roślinność Polski charakteryzują 44 klasy łączące 153 związki roślinne. Jest to obraz ukazujący duże zróżnicowanie roślinności kraju oraz reprezentatywność materiałów zgromadzonych w *Polish Vegetation Database*. Wydzielone syntaksy w przeważającej części są dobrze wyodrębnione dzięki gatunkom diagnostycznym. Zastosowanie metody Cocktail i sformalizowanej klasyfikacji roślinności przyczynia się do dobrego zdefiniowania syntaksonów przez gatunki diagnostyczne, a także daje możliwość uzyskiwania powtarzalnego rezultatu bez względu na pochodzenie materiału fitosocjologicznego.

Appendix 1

A synopsis of vegetation units of Poland

The nomenclature of syntaxa follows several syntaxonomical reviews (MATUSZKIEWICZ W. 1981; CHYTRÝ 2007, 2009, 2011, 2012, 2013; JAROLÍMEK & ŠIBÍK 2008; LANDUCCI *et al.* 2013; ŠUMBEROVÁ & HRIVNÁK 2013).

Aquatic vegetation

VA Lemnetea de Bolós et Masclans 1955

Lemnetalia minoris Tüxen 1955

VAA *Lemnion minoris* de Bolós et Masclans 1955

VAB *Utricularion vulgaris* Passarge 1964

VAC *Hydrocharition morsus-ranae* (Passarge 1964) Westhoff et den Held 1969

VB Potametea Klika in Klika et Novák 1941

Potametalia Koch 1926

VBA *Nymphaeion albae* Oberdorfer 1957

VBB *Potamion* Miljan 1933

Callitricho-Batrachetalia Passarge 1978

VBC *Batrachion fluitantis* Neuhäusl 1959

VBD *Ranunculion aquatilis* Passarge 1964

VC Charetea Fukarek ex Krausch 1964

Nitelletalia flexilis Krause 1969

VCA *Nitellion flexilis* Krause 1969

Charetalia hispidae Sauer ex Krausch 1964

VCB *Charion globularis* Krausch 1964

VCC *Charion canescentis* Krausch 1964

VD Littorelletea uniflorae Br.-Bl. et Tüxen ex Westhoff et al. 1946

Littorelletalia Koch ex Tüxen 1937

VDA *Littorellion uniflorae* Koch ex Tüxen 1937

VDB *Eleocharition acicularis* Pietsch ex Dierßen 1975

Utricularietalia intermedio-minoris Pietsch 1965

VDC *Sphagno-Utricularion* Müller et Görs 1960

VE Zosteretea marine Pignatti 1953

Zosteretalia marinae Béguinot 1941

VEA *Zosterion marine* Christiansen 1934

Wetland vegetation

MA Isoëto-Nano-Juncetea Br.-Bl. et Tüxen ex Br.-Bl. et al. 1952

Nanocyperetalia Klika 1935

MAA *Eleocharition ovatae* Philippi 1968

MAB *Radiolion linoidis* Pietsch 1973

MAC *Verbenion supinae* Slavić 1951

MB Bidentetea tripartitae Tüxen et al. ex von Rochow 1951

Bidentetalia tripartitae Br.-Bl. et Tüxen ex Klika et Hadač 1944

- MBA *Bidention tripartitae* Nordhagen ex Klika et Hadač 1944
 MBB *Chenopodium rubri* (Tüxen 1960) Hilbig et Jage 1972
MC Phragmito-Magno-Caricetea Klika in Klika et Novák 1941
Phragmitetalia Koch 1926
 MCA *Phragmition australis* Koch 1926
 MCB *Meliloto dentati-Bolboschoenion maritimi* Hroudová et al. 2009
Oenanthetalia aquaticae Hejný ex Balátová-Tuláčková et al. in Grabherr et Mucina 1993
 MCC *Eleocharito palustris-Sagittarion sagittifoliae* Passarge 1964
Nasturtio-Glycerietalia Pignatti 1953
 MCD *Phalaridion arundinaceae* Kopecký 1961
 MCE *Glycerio-Sparganion* Br.-Bl. et Sissingh in Boer 1942
Magno-Caricetalia Pignatti 1954
 MCF *Carici-Rumicion hydrolapathi* Passarge 1964
 MCG *Magno-Caricion elatae* Koch 1926
 MCH *Magno-Caricion gracilis* Géhu 1961

Springs, fens and bogs vegetation

- RA Montio-Cardaminetea** Br.-Bl. et Tüxen ex Klika et Hadač 1944
Cardamino-Chrysosplenietalia Hinterlang 1992
 RAA *Caricion remotae* Kästner 1941
 RAB *Lycopodo europaei-Cratoneurion commutati* Hadač 1983
Montio-Cardaminetalia Pawłowski et al. 1928
 RAC *Epilobio nutantis-Montion fontanae* Zechmeister in Zechmeister et Mucina 1994
 RAD *Swertio perennis-Dichodontion palustris* Hadač 1983
RB Scheuchzerio palustris-Caricetea fuscae Tüxen 1937
Caricetalia davallianae Br.-Bl. 1949
 RBA *Caricion davallianae* Klika 1934
 RBB *Sphagno warnstorffii-Tomentypnion nitentis* Dahl 1956
Caricetalia fuscae (W. Koch 1926) Nordhagen 1936
 RBC *Caricion canescenti-nigrae* Nordhagen 1937
 RBD *Sphagno-Caricion canescentis* Passarge (1964) 1978
Scheuchzerietalia palustris Nordhagen 1936
 RBE *Sphagnion cuspidati* Krajina 1933
RC Oxycocco-Sphagnetetea Br.-Bl. et Tüxen ex Westhoff et al. 1946
Sphagnetalia magellanici (Pawłowski et al. 1928) Kästner et Flössner 1933
 RCA *Sphagnion magellanici* Kästner et Flössner 1933
 RCB *Oxycocco palustris-Ericion tetralicis* Nordhagen ex Tüxen 1937
 RCC *Oxycocco microcarpi-Empetrium hermaphroditi* Nordhagen ex Du Rietz 1954

Rock and scree vegetation

- SA Asplenietea trichomanis** (Br.-Bl. in Meier et Br.-Bl. 1934) Oberdorfer 1977
Potentilletalia caulescentis Br.-Bl. in Br.-Bl. et Jenny 1926
 SAA *Cystopteridion* Richard 1972
Androsacetalia vandeli Br.-Bl. in Meier et Br.-Bl. 1934 corr. Br.-Bl. 1948
 SAB *Asplenion cuneifolii* Br.-Bl. ex Eggler 1955
 SAC *Asplenion septentrionalis* Gams ex Oberdorfer 1938
SB Cymbalario muralis-Parietarietea judaicae Oberdorfer 1969
Tortulo-Cymbalarietalia Segal 1969
 SBA *Cymbalario muralis-Asplenion* Segal 1969

SC Thlaspietea rotundifolii Br.-Bl. 1948
Galio-Parietarietalia officinalis Boşcaiu et al. 1966
SCA Stipion calamagrostis Br.-Bl. et al. 1952

Alpine and subalpine vegetation

AA Loiseleurio-Vaccinietea Eggler ex Schubert 1960
Rhododendro-Vaccinietalia Br.-Bl. in Br.-Bl. et Jenny 1926
AAA Loiseleurio precumbentis-Vaccinion Br.-Bl. in Br.-Bl. et Jenny 1926

AB Juncetea trifidi Hadač in Klika et Hadač 1944
Caricetea curvulae Br.-Bl. in Br.-Bl. et Jenny 1926
ABA Juncion trifidi Krajina 1933
ABB Nardo strictae-Caricion bigelowii Nordhagen 1943

AC Elyno-Seslerietea Br.-Bl. 1948
Seslerietalia Br.-Bl. in Br.-Bl. et Jenny 1926
ACA Seslerion tatrae Pawłowski 1935 corr. Klika 1955
ACB Caricion firmae Gams 1936

AD Mulgedio-Aconitetea Hadač et Klika in Klika et Hadač 1944
Calamagrostietalia villosae Pawłowski et al. 1928
ADA Calamagrostion villosae Pawłowski et al. 1928
ADB Calamagrostion arundinaceae (Luquet 1926) Oberdorfer 1957
ADF Calamagrostion variae Sillinger 1932
ADG Trisetion fusci Krajina 1933
Alnetalia viridis Růbel ex Rejmánek in Huml et al. 1979
ADC Salicion silesiaca Rejmánek et al. 1971
Adenostyletalia alliariae Br.-Bl. 1930
ADD Adenostylon alliariae Br.-Bl. 1926
ADE Dryopterido filicis-maris-Athyron distentifolii (Holub ex Sýkora et Štursa 1973)
Jeník et al. 1980

AE Salicetea herbaceae Br.-Bl. 1948
Salicetalia herbaceae Br.-Bl. in Br.-Bl. et Jenny 1926
AEA Salicion herbaceae Br.-Bl. in Br.-Bl. et Jenny 1926
AEB Festucion picturatae Krajina 1933 corr. Dúbravcová 2007

AF Carici rupestris-Kobresietea bellardii Ohba 1974
Oxytropido-Elynetalia Oberdorfer ex Albrecht 1969
AFA Festucion versicoloris Krajina 1933

Dune vegetation

DA Ammophiletea arenariae Br.-Bl. et Tüxen ex Westhoff et al. 1946
Ammophiletalia arenariae Br.-Bl. 1933
DAA Ammophilion arenariae Br.-Bl. 1933
DAB Agropyro-Minuartion peploidis Tüxen ex Br.-Bl. et Tüxen 1952
DAC Juncion baltici (Piotrowska 2002) Kački et al. alliance nova propos. hoc. loco.

DB Cakiletea maritimae Tüxen et Preising ex Br.-Bl. et Tüxen 1952
Cakiletalia maritimae R. Tx. apud Oberdorfer (1949) 1950
DBA Atriplicion littoralis Nordhagen 1940

Grasslands, subhalophilous, heathlands and fringe vegetation

TB Thero-Salicornietea strictae Tüxen in Tüxen et Oberdorfer 1958

- Thero-Salicornietalia* Pignatti et Tüxen in Tüxen et Oberdorfer 1958
TBA *Salicornion prostratae* Géhu 1992
- TC Festuco-Puccinellietea** Soó 1968 ex Vicherek 1973
Puccinellietalia Soó 1947
TCA *Puccinellion limosae* Soó 1933
Scorzonero-Juncetalia gerardii Vicherek 1973
TCB *Juncion gerardii* Wendelberger 1943
- TD Molinio-Arrhenatheretea** Tüxen 1937
Arrhenatheretalia Tüxen 1931
TDA *Arrhenatherion elatioris* Luquet 1926
TDB *Polygono bistortae-Trisetion flavescens* Br.-Bl. et Tüxen ex Marschall 1947
TDC *Cynosurion cristati* Tüxen 1947
Molinietalia Koch 1926
TDD *Molinion caeruleae* Koch 1926
TDH *Alopecurion pratensis* Passarge 1964
TDI *Cnidion venosi* Balátová-Tuláčeková 1965
TDJ *Veronico longifoliae-Lysimachion vulgaris* (Passarge 1977) Balátová-Tuláčeková 1981
TDF *Calthion palustris* Tüxen 1937
Potentillo-Polygonetalia Tüxen 1947
TDG *Juncion effusi* Westhoff et van Leeuwen ex Hejný et al. 1979
TDK *Potentillion anserinae* Tüxen 1947
- TE Calluno-Ulicetetea** Br.-Bl. et Tüxen ex Klika et Hadač 1944
Nardetalia strictae Oberdorfer ex Preising 1949
TEA *Nardion strictae* Br.-Bl. 1926
TEB *Nardo strictae-Agrostion tenuis* Sillinger 1933
TEC *Violion caninae* Schwickerath 1944
TED *Nardo strictae-Juncion squarrosi* (Oberdorfer 1957) Passarge 1964
Ulicetalia Quantin 1935
TEE *Euphorbio cyparissiae-Callunion vulgaris* Schubert ex Passarge in Scamoni 1963
TEF *Genisto pilosae-Vaccinion* Br.-Bl. 1926
- TF Koelerio-Corynephoretea** Klika in Klika et Novák 1941
Corynephorotalia Klika 1934
TFA *Corynephorion canescentis* Klika 1931
TFB *Thero-Airion* Tüxen ex Oberdorfer 1957
TFC *Armerion elongatae* Pötsch 1962
TFD *Hyperico perforati-Scleranthion perennis* Moravec 1967
Sedo-Scleranthetalia Br.-Bl. 1955
TFE *Arabidopsion thalianae* Passarge 1964
TFF *Alyso alyssoidis-Sedion* Oberdorfer et Müller in Müller 1961
TFG *Koelerion albescens* Tüxen 1937
TGA *Koelerion glaucae* Volk 1931
- TH Festuco-Brometea** Br.-Bl. et Tüxen ex Soó 1947
Festucetalia valesiaca Br.-Bl. et Tüxen ex Br.-Bl. 1949
THA *Alyso-Festucion pallentis* Moravec in Holub et al. 1967
THB *Bromo pannonici-Festucion pallentis* Zólyomi 1966
THC *Diantho lumnitzeri-Seslerion* (Soó 1971) Chytrý et Mucina in Mucina et al. 1993
THD *Festucion valesiaca* Klika 1931
THG *Koelerio-Phleion phleoidis* Korneck 1974
Brometalia erecti Koch 1926
THE *Cirsio-Brachypodion pinnati* Hadač et Klika ex Klika 1951

THF *Bromion erecti* Koch 1926
Origanetalia *vulgaris* Müller 1962
THH *Geranion sanguinei* Tüxen in Müller 1962
THI *Trifolion medii* Müller 1962
Melampyro *pratensis-Holcetalia mollis* Passarge 1979
THJ *Melampyrion pratensis* Passarge 1979

TI Violetea calaminariae Br.-Bl. et Tüxen 1943

Violetalia calaminariae Br.-Bl. et Tüxen ex Westhoff et al. 1946
TIA *Armerion halleri* Ernst 1965

Scrub, shrubs and anthropogenic tree stands

KA Salicetea purpureae Moor 1958

Salicetalia purpureae Moor 1958
KAA *Salicion triandrae* Müller et Görs 1958
KAB *Salicion elaeagno-daphnoidis* (Moor 1958) Grass in Mucina et al. 1993
KAC *Salicion albae* de Soó 1951

KB Rhamno-Prunetea Rivas Goday et Borja Carbonell ex Tüxen 1962

Prunetalia spinosae Tüxen 1952
KBA *Prunion fruticosae* Tüxen 1952
KBB *Berberidion vulgaris* Br.-Bl. et Tüxen 1952
Sambucetalia racemosae Doing 1962
KBC *Sambuco-Salicion capreae* Tüxen et Neumann ex Oberdorfer 1957
KBD *Aegopodio podagrariae-Sambucion nigrae* Chytrý 2013
KBH *Salicion arenariae* Tüxen ex Passarge in Scamoni 1943

KC Roso pendulinae-Pinetea mugo Theurillat in Theurillat et al. 1995

Junipero-Pinetalia mugo Boşcaiu 1971
KCA *Pinion mugo* Pawłowski et al. 1928

KD Robinietea Jurko ex Hadač et Sofron 1980

Chelidonio-Robinietalia Jurko ex Hadač et Sofron 1980
KDA *Chelidonio-Robinion* Hadač et Sofron ex Vítková in Chytrý 2013

Forests

LA Alnetea glutinosae Br.-Bl. et Tüxen ex Westhoff et al. 1946

Alnetalia glutinosae Tüxen 1937
LAA *Alnion glutinosae* Malcuit 1929
Salicetalia auritae Doing ex Steffen 1968
LAB *Salicion cinereae* Müller et Görs ex Passarge 1961

LB Carpino-Fagetea Jakucs 1967

Fagetalia sylvaticae Pawłowski et al. 1928
LBA *Alnion incanae* Pawłowski et al. 1928
LBB *Carpinion betuli* Issler 1931
LBC *Fagion sylvaticae* Luquet 1926
LBD *Sorbo-Fagion sylvaticae* Hofmann in Passarge 1968
LBE *Luzulo-Fagion sylvaticae* Lohmeyer et Tüxen in Tüxen 1954
LBF *Tilio platyphylli-Acerion* Klika 1955

LC Quercetea pubescentis Doing Kraft ex Scamoni et Passarge 1959

Quercetalia pubescentis-petraeae Klika 1933
LCA *Quercion pubescenti-petraeae* Br.-Bl. 1932

LCC *Quercion petraeae* Issler 1931

LD Quercetea robori-petraeae Br.-Bl. et Tüxen ex Oberdorfer 1957

Quercetalia roboris Tüxen 1931

LDA *Genisto germanicae-Quercion* Neuhäusl et Neuhäuslová-Novotná 1967

LDB *Quercion roboris* Malcuit 1929

LE Erico-Pinetea Horvat 1959

Erico-Pinetalia Horvat 1959

LEA *Pulsatillo slavicae-Pinion* Fajmonová 1978

LF Vaccinio-Piceetea Br.-Bl. in Br.-Bl. et al. 1939

Piceetalia abietis Pawłowski et al. 1928

LFB *Dicrano-Pinion* (Libbert 1933) Matuszkiewicz 1962

LFC *Piceion abietis* Pawłowski et al. 1928

LFD *Vaccinio uliginosi-Pinion sylvestris* Passarge et Hofmann 1968

Synanthropic vegetation

XA Polygono arenastri-Poëtea annuae Rivas-Martínez 1975 corr. Rivas-Martínez et al. 1991

Polygono arenastri-Poëetalia annuae Tüxen in Géhu et al. 1972 corr. Rivas-Martínez et al. 1991

XAA *Coronopodo-Polygonion arenastri* Sissingh 1969

XAB *Saginion procumbentis* Tüxen et Ohba in Géhu et al. 1972

XB Stellarietea mediae Tüxen et al. ex von Rochow 1951

Centaureetalia cyani Tüxen et al. ex von Rochow 1951

XBA *Caucalidion* von Rochow 1951

XBB *Veronico-Euphorbion* Sissingh ex Passarge 1964

XBC *Scleranthion annui* (Kruseman et Vlieger 1939) Sissingh in Westhoff et al. 1946

XBD *Arnosericidion minimae* Malato-Beliz et al. 1960

Atriplici-Chenopodietalia albi (Tüxen 1937) Nordhagen 1940

XBE *Oxalidion fontanae* Passarge 1978

XBF *Spergulo arvensis-Erodion cicutariae* J. Tüxen in Passarge 1964

Sisymbrietalia J. Tüxen in Lohmeyer et al. 1962

XBG *Atriplicion* Passarge 1978

XBH *Sisymbrium officinalis* Tüxen et al. ex von Rochow 1951

XBI *Malvion neglectae* (Gutte 1966) Hejný 1978

Eragrostietalia J. Tüxen ex Poli 1966

XBJ *Salsolion ruthenicae* Philippi 1971

XBK *Eragrostion cilianensi-minoris* Tüxen ex Oberdorfer 1954

Lolio remotae-Linetalia J. Tüxen et Tüxen in Lohmeyer et al. 1962

XBL *Lolio-Linion* Tüxen 1950

XC Artemisietea vulgaris Lohmeyer et al. ex von Rochow 1951

Onopordetalia Br.-Bl. et Tüxen ex Klika et Hadač 1944

XCA *Onopordion acanthii* Br.-Bl. et al. 1936

XCB *Dauco carotae-Melilotion* Görs ex Rostański et Gutte 1971

XCE *Arction lappae* Tüxen 1937

Agropyretalia repentis Görs 1966

XCC *Convolvulo arvensis-Elytrigion repentis* Görs 1966

XD Galio-Urticetea Passarge ex Kopecký 1969

Calystegietaalia sepium Tüxen ex Mucina 1993

XDA *Senecionion fluviatilis* Tüxen ex Moor 1958

XDB *Petasition hybridi* Sillinger 1933

Lamio albi-Chenopodietalia boni-henrici Kopecký 1969

XDC *Impatiens noli-tangere-Stachyon sylvaticae* Görs ex Mucina in Mucina et al. 1993

XDD *Geo urbani-Alliarion petiolatae* Lohmeyer et Oberdorfer in Görs et Müller 1969

XDE *Aegopodion podagrariae* Tüxen 1967

XDF *Rumicion alpini* Scharfetter 1938

XE *Epilobietea angustifolii* Tüxen et Preising ex von Rochow 1951

Atropetalia Vlieger 1937

XEA *Epilobion angustifolii* Tüxen ex Oberdorfer 1957

XEB *Fragarion vescae* Tüxen ex von Rochow 1951

Appendix 2

Diagnostic, constant and dominant species in vegetation units of Poland

Appendix 2 presents the list of classes and alliances delimited on the basis of data from the *Polish Vegetation Database*. Characterization of syntaxa include diagnostic, constant and dominant species. If a species occurs in more than one category within a particular vegetation unit, it is designated with following abbreviations: Dg – diagnostic species, C – constant species, Dm – dominant species. For each diagnostic species, the Phi coefficient value (expressing fidelity) is shown. The threshold value for fidelity was set at 18. Species with a fidelity equal to or greater than 18 ($\Phi > 0.18$) were considered species with diagnostic value. The threshold of frequency value for constant species was set at 40%. Dominant species were defined as those having cover of more than 50% in at least 3% of the relevés in a given vegetation unit. Diagnostic, constant and dominant species are ranked by decreasing values of indexes in particular categories. Diagnostic species are ranked by decreasing values of the Phi coefficient (multiplied by 100), constant species by decreasing values of percentage frequency of occurrence, and dominant species by decreasing percentage of cases with species cover exceeding 50%.

A list of classes included in Appendix 2

Aquatic vegetation	
VA LEMNETEA	44
VB POTAMETEA	47
VC CHARETEA	49
VD LITTORELLETEA UNIFLORAE	52
VE ZOSTERETEA MARINE	54
Wetland vegetation	
MA ISOËTO-NANO-JUNCETEA	56
MB BIDENTETEA TRIPARTITAE	59
MC PHRAGMITO-MAGNO-CARICETEA	61
Springs, fens and bogs vegetation	
RA MONTIO-CARDAMINETEA	66
RB SCHEUCHZERIO PALUSTRIS-CARICETEA FUSCAE	70
RC OXYCOCCO-SPHAGNETEA	75
Rock and scree vegetation	
SA ASPLENIETEA TRICHOMANIS	79
SB CYMBALARIO MURALIS-PARIETARIETEA JUDAICAE	81
SC THLASPIETEA ROTUNDIFOLII	82
Alpine and subalpine vegetation	
AA LOISELEURIO-VACCINIETEA	83
AB JUNCETEA TRIFIDI	86
AC ELYNO-SESLERIETEA	88
AD MULGEDIO-ACONITETEA	95
AE SALICETEA HERBACEAE	103
AF CARICI RUPESTRIS-KOBRESIETEA BELLARDII	107

Dune vegetation	
DA <i>AMMOPHILETEA ARENARIAE</i>	111
DB <i>CAKILETEA MARITIMAE</i>	114
Grasslands, subhalophilous, heathlands and fringe vegetation	
TB <i>THERO-SALICORNIETEA STRICTAE</i>	115
TC <i>FESTUCO-PUCCINELLIETEA</i>	116
TD <i>MOLINIO-ARRHENATHERETEA</i>	118
TE <i>CALLUNO-ULICETEA</i>	126
TF <i>KOELERIO-CORYNEPHORETEA</i>	132
TH <i>FESTUCO-BROMETEA</i>	139
TI <i>VIOLETEA CALAMINARIAE</i>	150
Scrub, shrubs and anthropogenic tree stands	
KA <i>SALICETEA PURPUREAE</i>	153
KB <i>RHAMNO-PRUNETEA</i>	157
KC <i>ROSO PENDULINAE-PINETEA MUGO</i>	160
KD <i>ROBINIETEA</i>	162
Forests	
LA <i>ALNETEA GLUTINOSAE</i>	164
LB <i>CARPINO-FAGETEA</i>	168
LC <i>QUERCETEA PUBESCENTIS</i>	174
LD <i>QUERCETEA ROBORI-PETRAEAE</i>	180
LE <i>ERICO-PINETEA</i>	182
LF <i>VACCINIO-PICEETEA</i>	186
Synanthropic vegetation	
XA <i>POLYGONO ARENASTRIPŒTEA ANNUAE</i>	190
XB <i>STELLARIETEA MEDIAE</i>	191
XC <i>ARTEMISIETEA VULGARIS</i>	201
XD <i>GALIO-URTICETEA</i>	204
XE <i>EPILOBIETEA ANGUSTIFOLII</i>	207

**A list of classes and alliances with statistically determined diagnostic,
constant and dominant species**

VA Class

LEMNETEA

Vegetation of free floating aquatic plants

Number of relevés: 755

Diagnostic species (14):

<i>Lemna minor</i>	C, Dm	63.7
<i>Spirodela polyrhiza</i>	C, Dm	56.5
<i>Lemna trisulca</i>	C, Dm	55.5
<i>Hydrocharis morsus-ranae</i>	Dm	43.5
<i>Salvinia natans</i>	Dm	36.2
<i>Ceratophyllum demersum</i>	Dm	35.7
<i>Stratiotes aloides</i>	Dm	32.8

<i>Lemna gibba</i>		28.1
<i>Wolffia arrhiza</i>	Dm	27.4
<i>Nuphar lutea</i>		24.2
<i>Riccia fluitans</i>		22.8
<i>Utricularia vulgaris</i>		18.9
<i>Elodea canadensis</i>		18.6
<i>Ricciocarpos natans</i>		18.5

Constant species (3):

<i>Lemna minor</i>	Dg, Dm	80.0
<i>Spirodela polyrhiza</i>	Dg, Dm	52.0
<i>Lemna trisulca</i>	Dg, Dm	51.0

Dominant species (8):

<i>Lemna minor</i>	Dg, C	10.0
<i>Spirodela polyrhiza</i>	Dg, C	9.0
<i>Ceratophyllum demersum</i>	Dg	8.0
<i>Stratiotes aloides</i>	Dg	7.0
<i>Lemna trisulca</i>	Dg, C	6.0
<i>Salvinia natans</i>	Dg	5.0
<i>Wolffia arrhiza</i>	Dg	4.0
<i>Hydrocharis morsus-ranae</i>	Dg	3.0

VAA Alliance

Lemnion minoris

Vegetation of lemniids and free-floating aquatic ferns and liverworts

Number of relevés: 497

Diagnostic species (7):

<i>Lemna minor</i>	C, Dm	38.7
<i>Spirodela polyrhiza</i>	C, Dm	37.5
<i>Lemna trisulca</i>	C, Dm	34.1
<i>Lemna gibba</i>		25.3
<i>Wolffia arrhiza</i>	Dm	23.9
<i>Salvinia natans</i>	Dm	23.5
<i>Riccia fluitans</i>		18.8

Constant species (3):

<i>Lemna minor</i>	Dg, Dm	89.0
<i>Spirodela polyrhiza</i>	Dg, Dm	57.0
<i>Lemna trisulca</i>	Dg, Dm	52.0

Dominant species (5):

<i>Lemna minor</i>	Dg, C	15.0
<i>Spirodela polyrhiza</i>	Dg, C	12.0
<i>Lemna trisulca</i>	Dg, C	8.0
<i>Salvinia natans</i>	Dg	7.0
<i>Wolffia arrhiza</i>	Dg	6.0

VAB Alliance***Utricularion vulgaris***

Vegetation of bladderworts in mesotrophic to eutrophic water bodies

Number of relevés: 47

Diagnostic species (6):

<i>Utricularia vulgaris</i>	C, Dm	61.6
<i>Potamogeton rutilus</i>	Dm	35.8
<i>Lemna minor</i>	C	23.4
<i>Stratiotes aloides</i>		21.2
<i>Utricularia australis</i>		19.5
<i>Schoenoplectus lacustris</i>		18.1

Constant species (2):

<i>Utricularia vulgaris</i>	Dg, Dm	91.0
<i>Lemna minor</i>	Dg	55.0

Dominant species (3):

<i>Utricularia vulgaris</i>	Dg, C	23.0
<i>Thelypteris palustris</i>		6.0
<i>Potamogeton rutilus</i>	Dg	6.0

VAC Alliance***Hydrocharition morsus-ranae***

Vegetation of large free-floating vascular plants

Number of relevés: 211

Diagnostic species (8):

<i>Stratiotes aloides</i>	C, Dm	50.3
<i>Hydrocharis morsus-ranae</i>	C, Dm	45.7
<i>Ceratophyllum demersum</i>	C, Dm	37.9
<i>Lemna trisulca</i>	C	36.6
<i>Spirodela polyrhiza</i>	C	31.9
<i>Salvinia natans</i>		27.7
<i>Lemna minor</i>	C	27.5
<i>Nuphar lutea</i>	C	26.3

Constant species (7):

<i>Hydrocharis morsus-ranae</i>	Dg, Dm	67.0
<i>Lemna minor</i>	Dg	64.0
<i>Ceratophyllum demersum</i>	Dg, Dm	57.0
<i>Lemna trisulca</i>	Dg	56.0
<i>Stratiotes aloides</i>	Dg, Dm	55.0
<i>Spirodela polyrhiza</i>	Dg	49.0
<i>Nuphar lutea</i>	Dg	41.0

Dominant species (3):

<i>Ceratophyllum demersum</i>	Dg, C	28.0
<i>Stratiotes aloides</i>	Dg, C	26.0
<i>Hydrocharis morsus-ranae</i>	Dg, C	11.0

VB Class**POTAMETEA**

Vegetation of aquatic plants rooted in the bottom

Number of relevés: 557

Diagnostic species (16):

<i>Nuphar lutea</i>	Dm	41.5
<i>Ceratophyllum demersum</i>		36.9
<i>Myriophyllum verticillatum</i>	Dm	36.5
<i>Nymphaea alba</i>	Dm	33.4
<i>Potamogeton natans</i>	Dm	32.5
<i>Potamogeton crispus</i>		32.1
<i>Elodea canadensis</i>	Dm	31.8
<i>Myriophyllum spicatum</i>		28.7
<i>Batrachium circinatum</i>		24.8
<i>Potamogeton lucens</i>	Dm	24.1
<i>Potamogeton perfoliatus</i>		23.5
<i>Lemna minor</i>		23.5
<i>Trapa natans</i>		22.3
<i>Spirodela polyrhiza</i>		20.7
<i>Hydrocharis morsus-ranae</i>		20.1
<i>Stratiotes aloides</i>		18.3

Constant species (0):**Dominant species (7):**

<i>Nuphar lutea</i>	Dg	8.0
<i>Elodea canadensis</i>	Dg	6.0
<i>Potamogeton lucens</i>	Dg	5.0
<i>Nymphaea alba</i>	Dg	5.0
<i>Potamogeton natans</i>	Dg	4.0
<i>Myriophyllum verticillatum</i>	Dg	4.0
<i>Hottonia palustris</i>		3.0

VBA Alliance***Nymphaeion albae***

Vegetation of aquatic plants rooted in the bottom and with leaves floating on the water surface

Number of relevés: 172

Diagnostic species (12):

<i>Nuphar lutea</i>	C, Dm	45.3
<i>Nymphaea alba</i>	C, Dm	42.0
<i>Trapa natans</i>	Dm	34.1
<i>Ceratophyllum demersum</i>	C	33.7
<i>Nymphoides peltata</i>	Dm	21.2
<i>Batrachium circinatum</i>		21.2
<i>Spirodela polyrhiza</i>		20.9
<i>Myriophyllum spicatum</i>		20.4
<i>Hydrocharis morsus-ranae</i>		19.6

<i>Potamogeton crispus</i>		18.8
<i>Potamogeton natans</i>		18.4
<i>Myriophyllum verticillatum</i>		18.3

Constant species (3):

<i>Nuphar lutea</i>	Dg, Dm	70.0
<i>Nymphaea alba</i>	Dg, Dm	53.0
<i>Ceratophyllum demersum</i>	Dg	51.0

Dominant species (4):

<i>Nuphar lutea</i>	Dg, C	23.0
<i>Nymphaea alba</i>	Dg, C	15.0
<i>Trapa natans</i>	Dg	9.0
<i>Nymphoides peltata</i>	Dg	3.0

VBB Alliance

Potamion

Vegetation of aquatic plants rooted in the bottom

Number of relevés: 328

Diagnostic species (9):

<i>Potamogeton lucens</i>	Dm	22.3
<i>Potamogeton crispus</i>		22.1
<i>Myriophyllum spicatum</i>		21.1
<i>Ceratophyllum demersum</i>		21.1
<i>Potamogeton alpinus</i>		19.8
<i>Myriophyllum verticillatum</i>	Dm	18.7
<i>Elodea canadensis</i>	Dm	18.7
<i>Potamogeton pusillus</i> agg.		18.5
<i>Najas minor</i>		18.1

Constant species (0):

Dominant species (5):

<i>Potamogeton lucens</i>	Dg	9.0
<i>Elodea canadensis</i>	Dg	9.0
<i>Potamogeton natans</i>		8.0
<i>Myriophyllum verticillatum</i>	Dg	5.0
<i>Potamogeton obtusifolius</i>		3.0

VBC Alliance

Batrachion fluitantis

Vegetation of aquatic plants in streams

Number of relevés: 23

Diagnostic species (9):

<i>Potamogeton nodosus</i>	C, Dm	74.4
<i>Callitriche hamulata</i>	C	65.7
<i>Batrachium fluitans</i>		40.2
<i>Batrachium aquatile</i> s. l.		32.2

<i>Myriophyllum verticillatum</i>		31.0
<i>Callitriche palustris</i> s. l.		28.3
<i>Elodea canadensis</i>		26.4
<i>Nuphar lutea</i>		25.0
<i>Potamogeton natans</i>		23.1

Constant species (2):

<i>Potamogeton nodosus</i>	Dg, Dm	57.0
<i>Callitriche hamulata</i>	Dg	43.0

Dominant species (1):

<i>Potamogeton nodosus</i>	Dg, C	22.0
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VBD Alliance

Ranunculion aquatilis

Vegetation of aquatic plants in shallow water bodies with fluctuating water table

Number of relevés: 34

Diagnostic species (5):

<i>Hottonia palustris</i>	C, Dm	80.3
<i>Callitriche palustris</i> s. l.	Dm	29.4
<i>Alisma plantago-aquatica</i>	C	27.4
<i>Glyceria fluitans</i>	C	24.0
<i>Sium latifolium</i>		19.0

Constant species (3):

<i>Hottonia palustris</i>	Dg, Dm	100.0
<i>Alisma plantago-aquatica</i>	Dg	59.0
<i>Glyceria fluitans</i>	Dg	41.0

Dominant species (3):

<i>Hottonia palustris</i>	Dg, C	50.0
<i>Alnus glutinosa</i>		12.0
<i>Callitriche palustris</i> s. l.	Dg, C	6.0

VC Class

CHARETEA

Vegetation of stoneworts

Number of relevés: 116

Diagnostic species (21):

<i>Chara tomentosa</i>	Dm	53.3
<i>Chara fragilis</i>	Dm	47.4
<i>Nitellopsis obtusa</i>	Dm	39.8
<i>Chara rudis</i>	Dm	35.7
<i>Chara contraria</i>		29.4
<i>Fontinalis antipyretica</i>		27.9
<i>Nitella syncarpa</i>	Dm	25.5
<i>Potamogeton lucens</i>		25.3
<i>Utricularia vulgaris</i>		24.0

<i>Chara vulgaris</i>		23.6
<i>Myriophyllum spicatum</i>		22.9
<i>Nitella mucronata</i>		22.4
<i>Chara jubata</i>		22.3
<i>Chara aculeolata</i>		21.9
<i>Potamogeton natans</i>		21.6
<i>Chara hispida</i>	Dm	21.3
<i>Chara delicatula</i>		20.9
<i>Chara crassicaulis</i>	Dm	20.5
<i>Chara coronata</i>	Dm	20.5
<i>Chara tenuispina</i>		18.4
<i>Najas marina</i>		18.3

Constant species (0):

Dominant species (9):

<i>Chara tomentosa</i>	Dg	26.0
<i>Chara rudis</i>	Dg	11.0
<i>Chara fragilis</i>	Dg	11.0
<i>Nitellopsis obtusa</i>	Dg	9.0
<i>Nitella syncarpa</i>	Dg	6.0
<i>Chara coronata</i>	Dg	5.0
<i>Chara crassicaulis</i>	Dg	4.0
<i>Chara polyacantha</i>		3.0
<i>Chara hispida</i>	Dg	3.0

VCA Alliance

Nitellion flexilis

Vegetation of stoneworts in calcium-poor water

Number of relevés: 10

Diagnostic species (13):

<i>Nitella syncarpa</i>	C, Dm	84.3
<i>Chara fragilis</i>	C	64.2
<i>Chara vulgaris</i>	Dm	46.5
<i>Potamogeton gramineus</i>		43.4
<i>Fontinalis antipyretica</i>	C	41.0
<i>Chara aculeolata</i>		40.4
<i>Nymphaea alba</i>	C	31.6
<i>Aldrovanda vesiculosa</i>		31.5
<i>Potamogeton natans</i>	C	27.0
<i>Utricularia vulgaris</i>	C	26.6
<i>Chara delicatula</i>	Dm	25.9
<i>Najas marina</i>		22.1
<i>Batrachium aquatile</i> s. l.		18.8

Constant species (2):

<i>Nitella syncarpa</i>	Dg, Dm	80.0
<i>Chara fragilis</i>	Dg	70.0

Dominant species (3):

<i>Nitella syncarpa</i>	Dg, C	70.0
<i>Chara vulgaris</i>	Dg	10.0
<i>Chara delicatula</i>	Dg	10.0

VCB Alliance***Charion globularis***

Vegetation of stoneworts in calcium-rich or brackish water

Number of relevés: 101

Diagnostic species (11):

<i>Chara tomentosa</i>	Dm	54.0
<i>Nitellopsis obtusa</i>	Dm	41.2
<i>Chara rudis</i>	Dm	37.9
<i>Chara contraria</i>		30.0
<i>Chara jubata</i>		23.7
<i>Nitella mucronata</i>		23.4
<i>Chara crassicaulis</i>	Dm	22.2
<i>Chara coronata</i>	Dm	21.0
<i>Potamogeton lucens</i>		20.1
<i>Chara tenuispina</i>		19.8
<i>Chara fragilis</i>	Dm	19.6

Constant species (0):**Dominant species (8):**

<i>Chara tomentosa</i>	Dg	30.0
<i>Chara rudis</i>	Dg	13.0
<i>Chara fragilis</i>	Dg	13.0
<i>Nitellopsis obtusa</i>	Dg	11.0
<i>Chara coronata</i>	Dg	6.0
<i>Chara crassicaulis</i>	Dg	5.0
<i>Chara polyacantha</i>		4.0
<i>Chara hispida</i>		4.0

VCC Alliance***Charion canescens***

Submerged stonewort swards of brackish to hyper-saline waters

Number of relevés: 6

Diagnostic species (14):

<i>Tolypella nidifica</i>	C	89.2
<i>Chara canescens</i>		57.6
<i>Pylaiella littoralis</i>		45.7
<i>Zostera marina</i>		44.1
<i>Ectocarpus siliculosus</i>		44.1
<i>Chara delicatula</i>		42.6
<i>Cladophora fracta</i>		40.7
<i>Chara baltica</i>		40.7
<i>Chara aspera</i>		37.2

<i>Zannichellia palustris</i>		37.1
<i>Polysiphonia nigrescens</i>		37.0
<i>Sphacelaria cirrosa</i>		36.6
<i>Ceramium rubrum</i>		36.6
<i>Potamogeton pectinatus</i>		31.6

Constant species (1):

<i>Tolypella nidifica</i>	Dg	83.0
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Dominant species (0):

VD Class

LITTORELLETEA UNIFLORAE

Vegetation of oligotrophic water bodies

Number of relevés: 164

Diagnostic species (20):

<i>Juncus bulbosus</i>	C, Dm	56.9
<i>Eleocharis acicularis</i>	Dm	48.2
<i>Utricularia minor</i>		33.1
<i>Utricularia intermedia</i>		29.0
<i>Elatine hexandra</i>		28.1
<i>Ranunculus flammula</i>		27.6
<i>Callitriche palustris</i> s. l.		27.1
<i>Myriophyllum alternifolium</i>		25.6
<i>Lobelia dortmanna</i>		25.5
<i>Scorpidium scorpioides</i>	Dm	24.0
<i>Littorella uniflora</i>		23.2
<i>Isoetes lacustris</i>		23.2
<i>Riccia cavernosa</i>		22.3
<i>Utricularia ochroleuca</i>		21.3
<i>Luronium natans</i>		20.4
<i>Eleocharis ovata</i>		20.2
<i>Gnaphalium uliginosum</i>		20.0
<i>Hydrocotyle vulgaris</i>		19.8
<i>Alisma plantago-aquatica</i>		19.3
<i>Juncus articulatus</i>		19.0

Constant species (1):

<i>Juncus bulbosus</i>	Dg, Dm	42.0
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Dominant species (3):

<i>Eleocharis acicularis</i>	Dg	27.0
<i>Juncus bulbosus</i>	Dg, C	11.0
<i>Scorpidium scorpioides</i>	Dg	3.0

VDA Alliance***Littorellion uniflorae***

Submerged vegetation of oligotrophic water bodies

Number of relevés: 11

Diagnostic species (9):

<i>Lobelia dortmanna</i>	C	99.8
<i>Isoëtes lacustris</i>	C, Dm	78.2
<i>Myriophyllum alternifolium</i>	C	77.2
<i>Littorella uniflora</i>		56.4
<i>Sparganium angustifolium</i>		51.3
<i>Juncus bulbosus</i>	C, Dm	34.2
<i>Potamogeton perfoliatus</i>	Dm	27.9
<i>Potamogeton praelongus</i>		26.3
<i>Eleocharis palustris</i> agg.	C	25.7

Constant species (5):

<i>Lobelia dortmanna</i>	Dg	100.0
<i>Myriophyllum alternifolium</i>	Dg	64.0
<i>Isoëtes lacustris</i>	Dg, Dm	64.0
<i>Eleocharis palustris</i> agg.	Dg	55.0
<i>Juncus bulbosus</i>	Dg, Dm	45.0

Dominant species (3):

<i>Potamogeton perfoliatus</i>	Dg	9.0
<i>Juncus bulbosus</i>	Dg, C	9.0
<i>Isoëtes lacustris</i>	Dg, C	9.0

VDB Alliance***Eleocharition acicularis***

Vegetation of amphibious plants in shallow, oligotrophic to mesotrophic water bodies

Number of relevés: 112

Diagnostic species (10):

<i>Eleocharis acicularis</i>	C, Dm	51.7
<i>Juncus bulbosus</i>	C, Dm	32.3
<i>Elatine hexandra</i>		26.6
<i>Riccia cavernosa</i>		25.6
<i>Luronium natans</i>		23.3
<i>Pilularia globulifera</i>		21.1
<i>Callitriche palustris</i> s. l.		21.1
<i>Eleocharis ovata</i>		21.0
<i>Elatine hydropiper</i>		20.3
<i>Ranunculus flammula</i>		18.2

Constant species (2):

<i>Eleocharis acicularis</i>	Dg, Dm	59.0
<i>Juncus bulbosus</i>	Dg, Dm	43.0

Dominant species (2):

<i>Eleocharis acicularis</i>	Dg, C	30.0
<i>Juncus bulbosus</i>	Dg, C	4.0

VDC Alliance***Sphagno-Utricularion***

Vegetation of oligotrophic pools with bladderworts

Number of relevés: 40

Diagnostic species (8):

<i>Utricularia minor</i>	C	60.8
<i>Utricularia intermedia</i>		46.8
<i>Scorpidium scorpioides</i>	Dm	44.4
<i>Utricularia ochroleuca</i>	Dm	43.3
<i>Juncus bulbosus</i>		30.0
<i>Drosera intermedia</i>		27.3
<i>Campylium polygamum</i>		21.0
<i>Comarum palustre</i>		18.4

Constant species (2):

<i>Utricularia minor</i>	Dg	62.0
<i>Comarum palustre</i>		42.0

Dominant species (5):

<i>Scorpidium scorpioides</i>	Dg	12.0
<i>Sphagnum recurvum</i> agg.		8.0
<i>Utricularia ochroleuca</i>	Dg	5.0
<i>Sphagnum subsecundum</i>		5.0
<i>Sphagnum denticulatum</i>		5.0

VE Class***ZOSTERETEA MARINAE***

Eel-grass swards on muddy and sandy substrates in the sublittoral and eulittoral zones

Number of relevés: 26

Diagnostic species (29):

<i>Polysiphonia nigrescens</i>	C	66.3
<i>Ceramium diaphanum</i>	C	64.6
<i>Furcellaria fastigiata</i>		61.6
<i>Fucus vesiculosus</i>	Dm	61.6
<i>Enteromorpha</i> spp.	Dm	61.6
<i>Phyllophora brodiaei</i>		55.0
<i>Enteromorpha compressa</i>		55.0
<i>Zostera marina</i>		45.9
<i>Ectocarpus siliculosus</i>	Dm	45.9
<i>Ulva clathrata</i>		43.5
<i>Cladophora sericea</i>		43.5
<i>Pilaiella littoralis</i>	Dm	41.6
<i>Potamogeton pectinatus</i>		39.1
<i>Enteromorpha linza</i>		38.9

<i>Ahnfeltia plicata</i>		36.3
<i>Spirulina subsalsa</i>		33.6
<i>Polysiphonia violacea</i>		33.6
<i>Enteromorpha lingulata</i>		33.6
<i>Rhodomela subfusca</i>		27.4
<i>Enteromorpha intestinalis</i>		27.4
<i>Cladophora gracilis</i>		27.4
<i>Cladophora glaucescens</i>		27.4
<i>Rivularia atra</i>		27.1
<i>Enteromorpha crinita</i>		19.4
<i>Elachista fucicola</i>		19.4
<i>Dictyosiphon hippuroides</i>		19.4
<i>Cladophora rupestris</i>		19.4
<i>Chorda filum</i>		19.4
<i>Ceramium strictum</i>		19.4

Constant species (2):

<i>Polysiphonia nigrescens</i>	Dg	46.0
<i>Ceramium diaphanum</i>	Dg	42.0

Dominant species (4):

<i>Enteromorpha</i> spp.	Dg	12.0
<i>Pilaiella littoralis</i>	Dg	4.0
<i>Fucus vesiculosus</i>	Dg	4.0
<i>Ectocarpus siliculosus</i>	Dg	4.0

VEA Alliance

Zosterion marinae

Temperate eel-grass swards on muddy and sandy substrates in sublittoral and eulittoral zones

Number of relevés: 26

Diagnostic species (29):

<i>Ceramium diaphanum</i>	C	64.9
<i>Furcellaria fastigiata</i>		61.9
<i>Fucus vesiculosus</i>	Dm	61.9
<i>Enteromorpha</i> spp.	Dm	61.9
<i>Phyllophora brodiaei</i>		55.3
<i>Enteromorpha compressa</i>		55.3
<i>Polysiphonia nigrescens</i>	C	51.5
<i>Ulva clathrata</i>		43.7
<i>Cladophora sericea</i>		43.7
<i>Enteromorpha linza</i>		39.1
<i>Ahnfeltia plicata</i>		35.1
<i>Spirulina subsalsa</i>		33.9
<i>Polysiphonia violacea</i>		33.9
<i>Enteromorpha lingulata</i>		33.9
<i>Zostera marina</i>		30.4
<i>Ectocarpus siliculosus</i>	Dm	30.4
<i>Rhodomela subfusca</i>		27.7
<i>Enteromorpha intestinalis</i>		27.7

<i>Cladophora glaucescens</i>		27.7
<i>Cladophora gracilis</i>		27.6
<i>Rivularia atra</i>		27.0
<i>Pilaiella littoralis</i>	Dm	26.2
<i>Potamogeton pectinatus</i>		25.4
<i>Enteromorpha crinita</i>		19.5
<i>Elachista fucicola</i>		19.5
<i>Dictyosiphon hippuroides</i>		19.5
<i>Cladophora rupestris</i>		19.5
<i>Chorda filum</i>		19.5
<i>Ceramium strictum</i>		19.5
Constant species (2):		
<i>Polysiphonia nigrescens</i>	Dg	46.0
<i>Ceramium diaphanum</i>	Dg	42.0
Dominant species (4):		
<i>Enteromorpha</i> spp.	Dg	12.0
<i>Pilaiella littoralis</i>	Dg	4.0
<i>Fucus vesiculosus</i>	Dg	4.0
<i>Ectocarpus siliculosus</i>	Dg	4.0

MA Class

ISOËTO-NANO-JUNCETEA

Vegetation of annual wetland herbs

Number of relevés: 190

Diagnostic species (37):

<i>Cyperus fuscus</i>	C, Dm	54.3
<i>Gnaphalium uliginosum</i>	C	51.1
<i>Juncus bufonius</i>	C	46.5
<i>Peplis portula</i>		43.9
<i>Anthoceros agrestis</i>		39.7
<i>Limosella aquatica</i>		39.4
<i>Plantago intermedia</i>	C	39.1
<i>Riccia glauca</i>		37.3
<i>Phaeoceros laevis</i>		35.1
<i>Rorippa palustris</i>		34.6
<i>Fossombronia wondraczekii</i>		34.2
<i>Riccia sorocarpa</i>		33.7
<i>Hypericum humifusum</i>		33.1
<i>Rumex maritimus</i>		32.7
<i>Centunculus minimus</i>		27.7
<i>Tortula truncata</i>		27.5
<i>Veronica anagallis-aquatica</i>		26.8
<i>Radiola linoidea</i>		24.7
<i>Ranunculus sceleratus</i>		24.2
<i>Polygonum hydropiper</i>		23.7
<i>Trichodon cylindricus</i>		23.7
<i>Potentilla supina</i>		22.3
<i>Polygonum persicaria</i>		21.8

<i>Sagina procumbens</i>		21.4
<i>Gypsophila muralis</i>		21.2
<i>Bidens tripartita</i>		20.6
<i>Myosurus minimus</i>		20.5
<i>Leersia oryzoides</i>		19.7
<i>Eleocharis acicularis</i>		19.7
<i>Lindernia procumbens</i>		19.4
<i>Eleocharis ovata</i>		19.1
<i>Dicranella rufescens</i>		18.9
<i>Spergularia rubra</i>		18.5
<i>Pohlia melanodon</i>		18.5
<i>Bryum argenteum</i>		18.3
<i>Veronica serpyllifolia</i>		18.1
<i>Pulicaria vulgaris</i>		18.1

Constant species (4):

<i>Gnaphalium uliginosum</i>	Dg	58.0
<i>Cyperus fuscus</i>	Dg, Dm	51.0
<i>Plantago intermedia</i>	Dg	46.0
<i>Juncus bufonius</i>	Dg	44.0

Dominant species (1):

<i>Cyperus fuscus</i>	Dg, C	6.0
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MAA Alliance

Eleocharition ovatae

Vegetation of short-growing annual herbs on exposed bottoms of fisponds

Number of relevés: 110

Diagnostic species (19):

<i>Cyperus fuscus</i>	C, Dm	63.4
<i>Limosella aquatica</i>	C	48.4
<i>Rumex maritimus</i>	C	34.7
<i>Gnaphalium uliginosum</i>	C	33.4
<i>Plantago intermedia</i>	C	31.7
<i>Rorippa palustris</i>	C	31.3
<i>Ranunculus sceleratus</i>		27.3
<i>Lindernia procumbens</i>		26.5
<i>Eleocharis acicularis</i>		26.0
<i>Eleocharis ovata</i>		23.7
<i>Potentilla supina</i>		23.2
<i>Dichostylis micheliana</i>		21.3
<i>Riccia cavernosa</i>		21.1
<i>Leersia oryzoides</i>		20.9
<i>Elatine hydropiper</i>		20.7
<i>Bidens frondosa</i>		19.7
<i>Juncus bufonius</i>		19.2
<i>Veronica anagallis-aquatica</i>		19.1
<i>Peplis portula</i>		19.0

Constant species (6):

<i>Cyperus fuscus</i>	Dg, Dm	85.0
<i>Gnaphalium uliginosum</i>	Dg	68.0
<i>Plantago intermedia</i>	Dg	63.0
<i>Limosella aquatica</i>	Dg	50.0
<i>Rorippa palustris</i>	Dg	48.0
<i>Rumex maritimus</i>	Dg	47.0

Dominant species (1):

<i>Cyperus fuscus</i>	Dg, C	9.0
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MAB Alliance***Radiolion linoidis***

Vegetation of short-growing annual herbs on wet sand

Number of relevés: 68

Diagnostic species (26):

<i>Anthoceros agrestis</i>	C	66.8
<i>Riccia glauca</i>	C	61.1
<i>Phaeoceros laevis</i>		58.7
<i>Fossombronina wondraczekii</i>		57.5
<i>Riccia sorocarpa</i>		54.9
<i>Hypericum humifusum</i>		53.5
<i>Centunculus minimus</i>		46.1
<i>Tortula truncata</i>		43.7
<i>Radiola linoides</i>		42.1
<i>Peplis portula</i>		33.7
<i>Juncus bufonius</i>	C, Dm	31.8
<i>Dicranella rufescens</i>		31.6
<i>Trichodon cylindricus</i>		30.1
<i>Atrichum tenellum</i>		28.2
<i>Pohlia annotina</i>		26.7
<i>Gypsophila muralis</i>		26.6
<i>Tortula acaulon</i>		26.1
<i>Bryum argenteum</i>		25.0
<i>Sagina procumbens</i>		24.7
<i>Juncus capitatus</i>		24.6
<i>Riccia ciliata</i>		24.2
<i>Illecebrum verticillatum</i>		24.0
<i>Ephemerum serratum</i>		24.0
<i>Gnaphalium uliginosum</i>	C	21.9
<i>Blasia pusilla</i>		20.7
<i>Spergula arvensis</i>		18.9

Constant species (4):

<i>Juncus bufonius</i>	Dg, Dm	57.0
<i>Gnaphalium uliginosum</i>	Dg	46.0
<i>Anthoceros agrestis</i>	Dg	46.0
<i>Riccia glauca</i>	Dg	43.0

Dominant species (1):

<i>Juncus bufonius</i>	Dg, C	4.0
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MAC Alliance***Verbenion supinae***

Vegetation of annual herbs on base-rich exposed bottoms in warm areas

Number of relevés: 12

Diagnostic species (13):

<i>Myosurus minimus</i>	C	65.1
<i>Pulicaria vulgaris</i>	C, Dm	49.4
<i>Ranunculus sardous</i>		39.9
<i>Philonotis marchica</i>		39.0
<i>Bidens tripartita</i>	C	35.0
<i>Cerastium glomeratum</i>		32.0
<i>Polygonum hydropiper</i>	C	29.5
<i>Veronica anagallis-aquatica</i>		28.4
<i>Peplis portula</i>	Dm	28.2
<i>Juncus bufonius</i>	C	27.6
<i>Cyperus flavescens</i>		24.9
<i>Bidens cernua</i>		21.5
<i>Gnaphalium uliginosum</i>	C	19.9

Constant species (7):

<i>Bidens tripartita</i>	Dg	67.0
<i>Polygonum hydropiper</i>	Dg	58.0
<i>Myosurus minimus</i>	Dg	50.0
<i>Juncus bufonius</i>	Dg	50.0
<i>Pulicaria vulgaris</i>	Dg, Dm	42.0
<i>Potentilla anserina</i>		42.0
<i>Gnaphalium uliginosum</i>	Dg	42.0

Dominant species (3):

<i>Pulicaria vulgaris</i>	Dg, C	25.0
<i>Peplis portula</i>	Dg	8.0
<i>Juncus compressus</i>		8.0

MB Class***BIDENTETEA TRIPARTITAE***

Vegetation of annual nitrophilous wetland herbs

Number of relevés: 169

Diagnostic species (22):

<i>Bidens cernua</i>		45.6
<i>Bidens tripartita</i>	C	42.3
<i>Polygonum lapathifolium</i> s. l.	C	39.2
<i>Bidens frondosa</i>		38.2
<i>Polygonum hydropiper</i>	C, Dm	37.5
<i>Rumex maritimus</i>	Dm	36.9
<i>Rorippa palustris</i>		34.1

<i>Alopecurus aequalis</i>		33.7
<i>Chenopodium rubrum</i>		33.6
<i>Ranunculus sceleratus</i>		32.6
<i>Chenopodium glaucum</i>	Dm	29.4
<i>Echinochloa crus-galli</i>		25.0
<i>Polygonum persicaria</i>		24.8
<i>Oenanthe aquatica</i>		23.1
<i>Polygonum mite</i>		22.9
<i>Polygonum minus</i>		22.6
<i>Rorippa amphibia</i>		20.7
<i>Bidens connata</i>		20.6
<i>Bidens radiata</i>		20.1
<i>Myosoton aquaticum</i>		19.2
<i>Pulicaria vulgaris</i>		19.0
<i>Plantago intermedia</i>		18.4

Constant species (3):

<i>Polygonum lapathifolium</i> s. l.	Dg	45.0
<i>Polygonum hydropiper</i>	Dg, Dm	43.0
<i>Bidens tripartita</i>	Dg	43.0

Dominant species (4):

<i>Polygonum hydropiper</i>	Dg, C	8.0
<i>Rumex maritimus</i>	Dg	7.0
<i>Chenopodium glaucum</i>	Dg	4.0
<i>Atriplex prostrata</i> s. l.		4.0

MBA Alliance

Bidention tripartitae

Nitrophilous vegetation of exposed bottoms and wet ruderal habitats

Number of relevés: 118

Diagnostic species (11):

<i>Bidens cernua</i>	C	37.0
<i>Bidens tripartita</i>	C	28.7
<i>Alopecurus aequalis</i>	Dm	28.1
<i>Rorippa palustris</i>	C	26.9
<i>Ranunculus sceleratus</i>		26.8
<i>Bidens frondosa</i>		26.5
<i>Polygonum hydropiper</i>	C, Dm	26.4
<i>Rumex maritimus</i>	Dm	23.3
<i>Bidens connata</i>		23.3
<i>Polygonum minus</i>		20.6
<i>Polygonum mite</i>		19.3

Constant species (5):

<i>Bidens tripartita</i>	Dg	55.0
<i>Polygonum hydropiper</i>	Dg, Dm	53.0
<i>Rorippa palustris</i>	Dg	42.0
<i>Polygonum lapathifolium</i> s. l.	Dm	42.0
<i>Bidens cernua</i>	Dg	42.0

Dominant species (4):

<i>Polygonum hydropiper</i>	Dg, C	12.0
<i>Rumex maritimus</i>	Dg	8.0
<i>Alopecurus aequalis</i>	Dg	4.0
<i>Polygonum lapathifolium</i> s. l.	C	3.0

MBB Alliance***Chenopodium rubri***Nitrophilous vegetation with *Chenopodium* and *Atriplex* in wet habitats

Number of relevés: 51

Diagnostic species (7):

<i>Chenopodium glaucum</i>	C, Dm	49.6
<i>Chenopodium rubrum</i>	C, Dm	46.7
<i>Atriplex prostrata</i> s. l.	C, Dm	27.0
<i>Potentilla supina</i>		23.8
<i>Rumex maritimus</i>	Dm	21.2
<i>Polygonum lapathifolium</i> s. l.	C	20.8
<i>Bidens frondosa</i>		18.1

Constant species (4):

<i>Chenopodium rubrum</i>	Dg, Dm	59.0
<i>Chenopodium glaucum</i>	Dg, Dm	55.0
<i>Polygonum lapathifolium</i> s. l.	Dg	51.0
<i>Atriplex prostrata</i> s. l.	Dg, Dm	49.0

Dominant species (4):

<i>Chenopodium glaucum</i>	Dg, C	12.0
<i>Atriplex prostrata</i> s. l.	Dg, C	12.0
<i>Chenopodium rubrum</i>	Dg, C	8.0
<i>Rumex maritimus</i>	Dg	4.0

MC Class***PHRAGMITO-MAGNO-CARICETEA***

Marsh vegetation

Number of relevés: 3395

Diagnostic species (12):

<i>Carex gracilis</i>	Dm	29.4
<i>Lythrum salicaria</i>		26.7
<i>Glyceria maxima</i>	Dm	25.1
<i>Galium palustre</i> agg.	C	23.7
<i>Rumex hydrolapathum</i>		23.6
<i>Phragmites australis</i>	Dm	19.5
<i>Equisetum fluviatile</i>		19.1
<i>Polygonum amphibium</i> s. l.		18.4
<i>Phalaris arundinacea</i>	Dm	18.3
<i>Typha latifolia</i>		18.2
<i>Carex acutiformis</i>	Dm	18.2
<i>Iris pseudacorus</i>		18.1

Constant species (1):

<i>Galium palustre</i> agg.	Dg	41.0
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Dominant species (5):

<i>Carex gracilis</i>	Dg	8.0
<i>Phragmites australis</i>	Dg	7.0
<i>Glyceria maxima</i>	Dg	5.0
<i>Carex acutiformis</i>	Dg	5.0
<i>Phalaris arundinacea</i>	Dg	4.0

MCA Alliance***Phragmition australis***

Fresh-water reed vegetation

Number of relevés: 1089

Diagnostic species (2):

<i>Glyceria maxima</i>	Dm	23.4
<i>Acorus calamus</i>	Dm	20.3

Constant species (1):

<i>Phragmites australis</i>	Dm	51.0
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Dominant species (8):

<i>Phragmites australis</i>	C	22.0
<i>Glyceria maxima</i>	Dg	14.0
<i>Typha latifolia</i>		8.0
<i>Typha angustifolia</i>		5.0
<i>Sparganium erectum</i>		5.0
<i>Schoenoplectus lacustris</i>		4.0
<i>Acorus calamus</i>	Dg	4.0
<i>Equisetum fluviatile</i>		3.0

MCB Alliance***Meliloto dentati-Bolboschoenion maritimi***

Continental brackish marsh vegetation

Number of relevés: 51

Diagnostic species (8):

<i>Bolboschoenus maritimus</i>	C, Dm	72.6
<i>Schoenoplectus tabernaemontani</i>	C	57.5
<i>Chara polyacantha</i>		31.5
<i>Mentha aquatica</i>	C	23.7
<i>Typha angustifolia</i>		23.3
<i>Teucrium scordium</i>		22.9
<i>Inula britannica</i>		21.8
<i>Eleocharis palustris</i> agg.	C	20.0

Constant species (6):

<i>Bolboschoenus maritimus</i>	Dg, Dm	100.0
<i>Schoenoplectus tabernaemontani</i>	Dg	55.0

<i>Phragmites australis</i>	Dm	49.0
<i>Eleocharis palustris</i> agg.	Dg	43.0
<i>Mentha aquatica</i>	Dg	41.0
<i>Agrostis stolonifera</i>		41.0

Dominant species (3):

<i>Bolboschoenus maritimus</i>	Dg, C	73.0
<i>Phragmites australis</i>	C	4.0
<i>Calliergonella cuspidata</i>		4.0

MCC Alliance

Eleocharito palustris-Sagittarion sagittifoliae

Vegetation of large wetland herbs in habitats with periodical changes of water level

Number of relevés: 223

Diagnostic species (5):

<i>Oenanthe aquatica</i>	Dm	23.6
<i>Sparganium emersum</i>	Dm	22.9
<i>Rorippa amphibia</i>	Dm	21.5
<i>Alisma plantago-aquatica</i>	C	21.4
<i>Scirpus radicans</i>	Dm	19.0

Constant species (1):

<i>Alisma plantago-aquatica</i>	Dg	47.0
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Dominant species (7):

<i>Eleocharis palustris</i> agg.		13.0
<i>Rorippa amphibia</i>	Dg	7.0
<i>Oenanthe aquatica</i>	Dg	7.0
<i>Scirpus radicans</i>	Dg	4.0
<i>Sparganium emersum</i>	Dg	3.0
<i>Hippuris vulgaris</i>		3.0
<i>Butomus umbellatus</i>		3.0

MCD Alliance

Phalaridion arundinaceae

Reed and tall-sedge vegetation on river banks

Number of relevés: 68

Diagnostic species (4):

<i>Phalaris arundinacea</i>	C, Dm	31.2
<i>Myosoton aquaticum</i>		26.5
<i>Carex buekii</i>		19.4
<i>Urtica dioica</i>	C, Dm	19.2

Constant species (3):

<i>Urtica dioica</i>	Dg, Dm	93.0
<i>Phalaris arundinacea</i>	Dg, Dm	90.0
<i>Cirsium arvense</i>		57.0

Dominant species (2):

<i>Phalaris arundinacea</i>	Dg, C	29.0
<i>Urtica dioica</i>	Dg, C	16.0

MCE Alliance***Glycerio-Sparganion***

Medium-tall reed stands along brooks and on floating islands

Number of relevés: 178

Diagnostic species (4):

<i>Glyceria fluitans</i>	C, Dm	36.9
<i>Berula erecta</i>		29.4
<i>Nasturtium officinale</i>	Dm	25.4
<i>Leersia oryzoides</i>		19.8

Constant species (2):

<i>Glyceria fluitans</i>	Dg, Dm	62.0
<i>Myosotis palustris</i> agg.		42.0

Dominant species (2):

<i>Glyceria fluitans</i>	Dg, C	16.0
<i>Nasturtium officinale</i>	Dg	4.0

MCF Alliance***Carici-Rumicion hydrolapathi***

Vegetation of wetland herbs on organic muddy sediments

Number of relevés: 112

Diagnostic species (4):

<i>Carex pseudocyperus</i>	C	32.2
<i>Thelypteris palustris</i>	C, Dm	31.0
<i>Cicuta virosa</i>		26.9
<i>Calla palustris</i>		24.2

Constant species (6):

<i>Thelypteris palustris</i>	Dg, Dm	55.0
<i>Phragmites australis</i>	Dm	44.0
<i>Lysimachia vulgaris</i>		43.0
<i>Lycopus europaeus</i>		43.0
<i>Galium palustre</i> agg.		43.0
<i>Carex pseudocyperus</i>	Dg	42.0

Dominant species (6):

<i>Thelypteris palustris</i>	Dg, C	15.0
<i>Sphagnum recurvum</i> agg.		6.0
<i>Phragmites australis</i>	C	6.0
<i>Carex paniculata</i>		6.0
<i>Sphagnum cuspidatum</i>		5.0
<i>Calla palustris</i>	Dg	4.0

MCG Alliance

Magno-Caricion elatae

Tall-sedge vegetation in littoral zones of oligotrophic and mesotrophic water bodies

Number of relevés: 509

Diagnostic species (4):

<i>Carex elata</i>	Dm	26.6
<i>Carex appropinquata</i>	Dm	23.5
<i>Cladium mariscus</i>	Dm	19.7
<i>Galium palustre</i> agg.	C	18.1

Constant species (6):

<i>Galium palustre</i> agg.	Dg	62.0
<i>Lythrum salicaria</i>		52.0
<i>Lysimachia vulgaris</i>		47.0
<i>Calliergonella cuspidata</i>	Dm	44.0
<i>Carex rostrata</i>	Dm	42.0
<i>Comarum palustre</i>		41.0

Dominant species (6):

<i>Carex rostrata</i>	C	15.0
<i>Carex elata</i>	Dg	14.0
<i>Carex appropinquata</i>	Dg	11.0
<i>Cladium mariscus</i>	Dg	10.0
<i>Calliergonella cuspidata</i>	C	8.0
<i>Calamagrostis canescens</i>		5.0

MCH Alliance

Magno-Caricion gracilis

Tall-sedge vegetation in littoral zones of eutrophic water bodies

Number of relevés: 1165

Diagnostic species (2):

<i>Carex gracilis</i>	C, Dm	26.5
<i>Carex acutiformis</i>	Dm	18.9

Constant species (3):

<i>Lythrum salicaria</i>		55.0
<i>Galium palustre</i> agg.		55.0
<i>Carex gracilis</i>	Dg, Dm	45.0

Dominant species (8):

<i>Carex gracilis</i>	Dg, C	23.0
<i>Carex acutiformis</i>	Dg	15.0
<i>Phalaris arundinacea</i>		11.0
<i>Carex riparia</i>		5.0
<i>Carex disticha</i>		5.0
<i>Carex vesicaria</i>		4.0
<i>Carex paniculata</i>		4.0
<i>Calliergonella cuspidata</i>		4.0

RA Class**MONTIO-CARDAMINETEA**

Vegetation of springs

Number of relevés: 279

Diagnostic species (29):

<i>Chrysosplenium alternifolium</i>	C	46.8
<i>Carex remota</i>	Dm	44.9
<i>Cardamine amara</i> subsp. <i>amara</i>	C, Dm	43.8
<i>Impatiens noli-tangere</i>	C	38.3
<i>Stellaria nemorum</i>	C	37.3
<i>Rhizomnium punctatum</i> s. l.		35.9
<i>Chrysosplenium oppositifolium</i>	Dm	35.5
<i>Chaerophyllum hirsutum</i>		35.0
<i>Lysimachia nemorum</i>		33.7
<i>Brachythecium rivulare</i>		33.7
<i>Athyrium filix-femina</i>	C	33.1
<i>Petasites albus</i>	Dm	32.7
<i>Carex sylvatica</i>		28.5
<i>Stachys sylvatica</i>		28.1
<i>Crepis paludosa</i>		27.4
<i>Veronica montana</i>		26.1
<i>Cardamine flexuosa</i>		25.3
<i>Circaea lutetiana</i>		24.7
<i>Plagiomnium undulatum</i>		24.2
<i>Stellaria uliginosa</i>		23.7
<i>Equisetum sylvaticum</i>		23.7
<i>Myosotis palustris</i> agg.		23.2
<i>Galeobdolon luteum</i> s. l.		23.2
<i>Oxalis acetosella</i>	C	20.3
<i>Allium sibiricum</i>		19.7
<i>Scapania undulata</i>		19.4
<i>Caltha laeta</i>		19.4
<i>Epilobium alsinifolium</i>		19.3
<i>Ranunculus repens</i>		19.0

Constant species (7):

<i>Impatiens noli-tangere</i>	Dg	51.0
<i>Athyrium filix-femina</i>	Dg	50.0
<i>Urtica dioica</i>		49.0
<i>Chrysosplenium alternifolium</i>	Dg	48.0
<i>Stellaria nemorum</i>	Dg	45.0
<i>Cardamine amara</i> subsp. <i>amara</i>	Dg, Dm	44.0
<i>Oxalis acetosella</i>	Dg	43.0

Dominant species (4):

<i>Chrysosplenium oppositifolium</i>	Dg	6.0
<i>Petasites albus</i>	Dg	4.0
<i>Carex remota</i>	Dg	4.0
<i>Cardamine amara</i> subsp. <i>amara</i>	Dg, C	4.0

RAA Alliance

Caricion remotae

Vegetation of non-calcareous forest springs

Number of relevés: 246

Diagnostic species (10):

<i>Chrysosplenium oppositifolium</i>	Dm	38.0
<i>Cardamine amara</i> subsp. <i>amara</i>	C, Dm	32.0
<i>Carex remota</i>	C, Dm	31.7
<i>Chrysosplenium alternifolium</i>	C	30.2
<i>Impatiens noli-tangere</i>	C	26.7
<i>Stellaria nemorum</i>	C	21.6
<i>Athyrium filix-femina</i>	C	21.4
<i>Lysimachia nemorum</i>		19.7
<i>Petasites albus</i>	Dm	19.2
<i>Rhizomnium punctatum</i> s. l.		18.9

Constant species (9):

<i>Impatiens noli-tangere</i>	Dg	58.0
<i>Athyrium filix-femina</i>	Dg	56.0
<i>Urtica dioica</i>		55.0
<i>Chrysosplenium alternifolium</i>	Dg	53.0
<i>Stellaria nemorum</i>	Dg	50.0
<i>Oxalis acetosella</i>		49.0
<i>Cardamine amara</i> subsp. <i>amara</i>	Dg, Dm	49.0
<i>Carex remota</i>	Dg, Dm	44.0
<i>Ranunculus repens</i>		43.0

Dominant species (4):

<i>Chrysosplenium oppositifolium</i>	Dg	7.0
<i>Petasites albus</i>	Dg	5.0
<i>Carex remota</i>	Dg, C	4.0
<i>Cardamine amara</i> subsp. <i>amara</i>	Dg, C	4.0

RAB Alliance

Lycopodo europaei-Cratoneurion commutati

Vegetation of calcareous forest springs with tufa formation

Number of relevés: 12

Diagnostic species (16):

<i>Palustriella commutata</i>	C, Dm	80.9
<i>Cratoneuron filicinum</i>		41.6
<i>Bryum pseudotriquetrum</i>	C	41.0
<i>Epilobium alsinifolium</i>	C	40.1
<i>Riccardia multifida</i>		28.8
<i>Marchantia aquatica</i>		27.6
<i>Rhizomnium punctatum</i> s. l.		27.2
<i>Equisetum palustre</i>	C	26.1
<i>Stellaria uliginosa</i>		25.7
<i>Viola biflora</i>	C	22.6

<i>Valeriana simplicifolia</i>		21.3
<i>Cirsium rivulare</i>		20.8
<i>Plagiochila porelloides</i>		19.2
<i>Pellia neesiana</i>		19.1
<i>Pellia endiviifolia</i>		18.9
<i>Chaerophyllum hirsutum</i>	C, Dm	18.5

Constant species (8):

<i>Palustriella commutata</i>	Dg, Dm	92.0
<i>Equisetum palustre</i>	Dg	67.0
<i>Deschampsia caespitosa</i>		58.0
<i>Bryum pseudotriquetrum</i>	Dg	58.0
<i>Viola biflora</i>	Dg	42.0
<i>Myosotis palustris</i> agg.		42.0
<i>Epilobium alsinifolium</i>	Dg	42.0
<i>Chaerophyllum hirsutum</i>	Dg, Dm	42.0

Dominant species (6):

<i>Palustriella commutata</i>	Dg, C	33.0
<i>Climacium dendroides</i>		25.0
<i>Menyanthes trifoliata</i>		8.0
<i>Palustriella decipiens</i>		8.0
<i>Chaerophyllum hirsutum</i>	Dg, C	8.0
<i>Alnus incana</i>		8.0

RAC Alliance

Epilobio nutantis-Montion fontanae

Vegetation of subatlantic, submontane springs in open habitats

Number of relevés: 2

Diagnostic species (11):

<i>Montia fontana</i> s. l.	C	99.4
<i>Philonotis caespitosa</i>	C	69.3
<i>Scapania nemorea</i>	C	63.7
<i>Carex canescens</i>	C	55.5
<i>Philonotis fontana</i>	C, Dm	53.4
<i>Viola palustris</i>	C	50.2
<i>Epilobium palustre</i>	C	44.0
<i>Agrostis canina</i>	C	43.1
<i>Juncus articulatus</i>	C	38.4
<i>Juncus effusus</i>	C	33.9
<i>Myosotis palustris</i> agg.	C	30.1

Constant species (26):

<i>Viola palustris</i>	Dg	100.0
<i>Ranunculus repens</i>		100.0
<i>Myosotis palustris</i> agg.	Dg	100.0
<i>Montia fontana</i> s. l.	Dg	100.0
<i>Juncus effusus</i>	Dg	100.0
<i>Juncus articulatus</i>	Dg	100.0
<i>Epilobium palustre</i>	Dg	100.0

<i>Carex canescens</i>	Dg	100.0
<i>Agrostis canina</i>	Dg	100.0
<i>Veronica beccabunga</i>		50.0
<i>Trifolium repens</i>		50.0
<i>Stellaria uliginosa</i>		50.0
<i>Sphagnum recurvum</i> agg.		50.0
<i>Scirpus sylvaticus</i>		50.0
<i>Scapania nemorea</i>	Dg	50.0
<i>Rumex acetosa</i>		50.0
<i>Philonotis fontana</i>	Dg, Dm	50.0
<i>Philonotis caespitosa</i>	Dg	50.0
<i>Galium palustre</i> agg.		50.0
<i>Equisetum palustre</i>		50.0
<i>Deschampsia caespitosa</i>		50.0
<i>Carex ovalis</i>		50.0
<i>Carex nigra</i>		50.0
<i>Calliergonella cuspidata</i>		50.0
<i>Straminergon stramineum</i>		50.0
<i>Brachythecium rivulare</i>		50.0
Dominant species (1):		
<i>Philonotis fontana</i>	Dg, C	50.0

RAD Alliance

Swertio perennis-Dichodontion palustris

Vegetation of non-calcareous alpine and subalpine springs

Number of relevés: 19

Diagnostic species (24):

<i>Scapania uliginosa</i>	C	74.1
<i>Allium sibiricum</i>	C, Dm	73.3
<i>Bryum schleicheri</i>	C	62.4
<i>Aconitum plicatum</i>		55.8
<i>Diobelonella palustris</i>	Dm	52.6
<i>Swertia perennis</i>	C	49.0
<i>Epilobium anagallidifolium</i>		47.7
<i>Pohlia wahlenbergii</i>		47.1
<i>Epilobium alsinifolium</i>	C	45.7
<i>Warnstorfia sarmentosa</i>		44.8
<i>Philonotis seriata</i>		43.9
<i>Meesia triquetra</i>		43.6
<i>Epilobium nutans</i>		41.3
<i>Viola biflora</i>	C	40.9
<i>Blindia acuta</i>		39.2
<i>Pedicularis sudetica</i>		37.8
<i>Caltha laeta</i>		37.5
<i>Sphagnum subsecundum</i>		36.8
<i>Rhizomnium punctatum</i> s. l.	C	29.8
<i>Cardamine amara</i> subsp. <i>opizii</i>		26.4
<i>Scapania subalpina</i>		22.9

<i>Salix lapponum</i>		22.9
<i>Jungermannia obovata</i>		22.9
<i>Sphagnum squarrosum</i>		19.9

Constant species (9):

<i>Viola biflora</i>	Dg	74.0
<i>Deschampsia caespitosa</i>		74.0
<i>Allium sibiricum</i>	Dg, Dm	63.0
<i>Scapania uliginosa</i>	Dg	58.0
<i>Epilobium alsinifolium</i>	Dg	47.0
<i>Bryum schleicheri</i>	Dg	47.0
<i>Swertia perennis</i>	Dg	42.0
<i>Rhizomnium punctatum</i> s. l.	Dg	42.0
<i>Alchemilla vulgaris</i> s. l.		42.0

Dominant species (5):

<i>Diobelonella palustris</i>	Dg	16.0
<i>Allium sibiricum</i>	Dg, C	11.0
<i>Aconitum firmum</i>		11.0
<i>Palustriella decipiens</i>		5.0
<i>Palustriella commutata</i>		5.0

RB Class

SCHEUCHZERIO PALUSTRIS-CARICETEA FUSCAE

Vegetation of fens, transitional mires and bog hollows

Number of relevés: 1063

Diagnostic species (37):

<i>Carex panicea</i>		38.6
<i>Carex rostrata</i>	C, Dm	38.3
<i>Eriophorum angustifolium</i>	C	36.5
<i>Carex nigra</i>	C	34.8
<i>Carex echinata</i>		32.2
<i>Agrostis canina</i>		32.0
<i>Eriophorum latifolium</i>		31.7
<i>Carex flava</i> agg.		30.2
<i>Dactylorhiza majalis</i> s. l.		29.7
<i>Carex limosa</i>		28.9
<i>Sphagnum recurvum</i> agg.	Dm	28.7
<i>Epipactis palustris</i>		28.5
<i>Menyanthes trifoliata</i>		27.9
<i>Carex canescens</i>		26.7
<i>Bryum pseudotriquetrum</i>		26.3
<i>Comarum palustre</i>		25.8
<i>Viola palustris</i>		25.5
<i>Drosera rotundifolia</i>		25.5
<i>Galium uliginosum</i>		24.5
<i>Carex diandra</i>		23.7
<i>Straminergon stramineum</i>		23.5
<i>Aulacomnium palustre</i>		22.9
<i>Limprichtia revolvens</i> s. l.		22.5

<i>Carex dioica</i>		22.4
<i>Rhynchospora alba</i>	Dm	22.2
<i>Potentilla erecta</i>		22.0
<i>Oxycoccus palustris</i> s. l.		21.9
<i>Cirsium rivulare</i>		21.2
<i>Equisetum palustre</i>		20.6
<i>Calliergonella cuspidata</i>		20.5
<i>Cirsium palustre</i>		19.8
<i>Sphagnum teres</i>		19.7
<i>Tomentypnum nitens</i>		19.5
<i>Valeriana dioica</i>		19.2
<i>Lotus uliginosus</i>		19.1
<i>Carex davalliana</i>		18.8
<i>Pinguicula vulgaris</i>		18.1

Constant species (3):

<i>Carex nigra</i>	Dg	49.0
<i>Eriophorum angustifolium</i>	Dg	41.0
<i>Carex rostrata</i>	Dg, Dm	41.0

Dominant species (4):

<i>Sphagnum recurvum</i> agg.	Dg	19.0
<i>Molinia caerulea</i> s. l.		4.0
<i>Rhynchospora alba</i>	Dg	3.0
<i>Carex rostrata</i>	Dg, C	3.0

RBA Alliance

Caricion davallianae

Calcareous fens

Number of relevés: 217

Diagnostic species (28):

<i>Eriophorum latifolium</i>	C	43.6
<i>Carex flava</i> agg.	C	40.1
<i>Carex panicea</i>	C	39.3
<i>Dactylorhiza majalis</i> s. l.	C	38.3
<i>Carex davalliana</i>	Dm	34.7
<i>Cirsium rivulare</i>	C	33.9
<i>Valeriana simplicifolia</i>		30.9
<i>Epipactis palustris</i>		30.7
<i>Bryum pseudotriquetrum</i>	C	29.2
<i>Eleocharis quinqueflora</i>		29.0
<i>Limprichtia revolvens</i> s. l.		28.9
<i>Campylium stellatum</i>		27.8
<i>Schoenus nigricans</i>		27.1
<i>Pinguicula vulgaris</i>		24.9
<i>Triglochin palustre</i>		24.4
<i>Briza media</i>	C	21.5
<i>Equisetum palustre</i>	C, Dm	21.0
<i>Pohlia wahlenbergii</i>		20.2
<i>Prunella vulgaris</i>	C	20.1

<i>Calliergonella cuspidata</i>	C, Dm	20.0
<i>Crepis paludosa</i>	C	19.9
<i>Liparis loeselii</i>		19.7
<i>Potentilla erecta</i>	C	19.6
<i>Juncus articulatus</i>	C	19.5
<i>Carex flacca</i>		19.1
<i>Carex lepidocarpa</i>		18.8
<i>Gentianella uliginosa</i>		18.4
<i>Carex echinata</i>		18.2

Constant species (16):

<i>Carex panicea</i>	Dg	84.0
<i>Potentilla erecta</i>	Dg	69.0
<i>Carex flava</i> agg.	Dg	64.0
<i>Briza media</i>	Dg	59.0
<i>Carex nigra</i>		56.0
<i>Calliergonella cuspidata</i>	Dg, Dm	55.0
<i>Equisetum palustre</i>	Dg, Dm	54.0
<i>Ranunculus acris</i>		53.0
<i>Juncus articulatus</i>	Dg	53.0
<i>Dactylorhiza majalis</i> s. l.	Dg	53.0
<i>Cirsium rivulare</i>	Dg	53.0
<i>Prunella vulgaris</i>	Dg	50.0
<i>Eriophorum latifolium</i>	Dg	49.0
<i>Crepis paludosa</i>	Dg	42.0
<i>Bryum pseudotriquetrum</i>	Dg	42.0
<i>Caltha palustris</i>		41.0

Dominant species (4):

<i>Molinia caerulea</i> s. l.		5.0
<i>Equisetum palustre</i>	Dg, C	4.0
<i>Carex davalliana</i>	Dg	4.0
<i>Calliergonella cuspidata</i>	Dg, C	4.0

RBB Alliance

Sphagno warnstorffii-Tomentypnion nitentis

Fens with calcicolous species and calcitolerant peat mosses

Number of relevés: 37

Diagnostic species (36):

<i>Tomentypnum nitens</i>	C	62.7
<i>Sphagnum warnstorffii</i>	Dm	54.3
<i>Carex dioica</i>		47.8
<i>Paludella squarrosa</i>	Dm	47.1
<i>Epipactis palustris</i>	C	45.9
<i>Sphagnum teres</i>	C	44.0
<i>Helodium blandowii</i>		42.9
<i>Sphagnum contortum</i>		39.3
<i>Eriophorum latifolium</i>	C	38.6
<i>Hamatocaulis vernicosus</i>		37.7
<i>Campylium stellatum</i>	C	37.7

<i>Carex diandra</i>	Dm	34.2
<i>Limprichtia revolvens</i> s. l.		34.0
<i>Aulacomnium palustre</i>	C	32.4
<i>Menyanthes trifoliata</i>	C	31.9
<i>Galium uliginosum</i>	C	31.3
<i>Carex echinata</i>	C	31.3
<i>Hammarbya paludosa</i>		30.8
<i>Carex limosa</i>		30.1
<i>Carex flava</i> agg.	C	26.7
<i>Bryum pseudotriquetrum</i>		26.3
<i>Carex panicea</i>	C	26.0
<i>Dactylorhiza majalis</i> s. l.		25.3
<i>Equisetum fluviatile</i>	C	25.1
<i>Calliergonella cuspidata</i>	C	25.1
<i>Hypnum pratense</i>		24.5
<i>Pedicularis palustris</i>		22.5
<i>Dicranum bonjeanii</i>		22.0
<i>Carex rostrata</i>	C	21.8
<i>Climacium dendroides</i>	C	21.0
<i>Pinguicula vulgaris</i>		20.8
<i>Cirsium rivulare</i>		20.2
<i>Sphagnum obtusum</i>		19.4
<i>Crepis paludosa</i>	C	19.0
<i>Drosera rotundifolia</i>	C	18.5
<i>Valeriana simplicifolia</i>		18.3

Constant species (26):

<i>Calliergonella cuspidata</i>	Dg	68.0
<i>Galium uliginosum</i>	Dg	65.0
<i>Aulacomnium palustre</i>	Dg	62.0
<i>Potentilla erecta</i>	Dm	57.0
<i>Menyanthes trifoliata</i>	Dg	57.0
<i>Tomentypnum nitens</i>	Dg	57.0
<i>Equisetum fluviatile</i>	Dg	57.0
<i>Epipactis palustris</i>	Dg	57.0
<i>Carex panicea</i>	Dg	57.0
<i>Carex echinata</i>	Dg	54.0
<i>Carex rostrata</i>	Dg	51.0
<i>Carex nigra</i>		51.0
<i>Festuca rubra</i> agg.		49.0
<i>Briza media</i>		49.0
<i>Sphagnum teres</i>	Dg	46.0
<i>Plagiomnium affine</i> s. l.		46.0
<i>Campylium stellatum</i>	Dg	46.0
<i>Lychnis flos-cuculi</i>		43.0
<i>Leontodon hispidus</i>		43.0
<i>Eriophorum latifolium</i>	Dg	43.0
<i>Carex flava</i> agg.	Dg	43.0
<i>Ranunculus acris</i>		41.0
<i>Drosera rotundifolia</i>	Dg	41.0
<i>Crepis paludosa</i>	Dg	41.0

<i>Climacium dendroides</i>	Dg	41.0
<i>Anthoxanthum odoratum</i> s. l.		41.0

Dominant species (3):

<i>Sphagnum warnstorffii</i>	Dg	16.0
<i>Paludella squarrosa</i>	Dg	5.0
<i>Carex diandra</i>	Dg	5.0

RBC Alliance

Caricion canescenti-nigrae

Slighly acidic fens

Number of relevés: 330

Diagnostic species (2):

<i>Carex rostrata</i>	C	23.7
<i>Carex nigra</i>	C, Dm	21.3

Constant species (3):

<i>Carex nigra</i>	Dg, Dm	66.0
<i>Carex rostrata</i>	Dg	55.0
<i>Festuca rubra</i> agg.		42.0

Dominant species (4):

<i>Calliergonella cuspidata</i>		4.0
<i>Sphagnum recurvum</i> agg.		3.0
<i>Carex nigra</i>	Dg, C	3.0
<i>Carex diandra</i>		3.0

RBD Alliance

Sphagno-Caricion canescentis

Acidic fens (transitional mires)

Number of relevés: 317

Diagnostic species (4):

<i>Sphagnum recurvum</i> agg.	C, Dm	25.9
<i>Eriophorum angustifolium</i>	C, Dm	20.4
<i>Agrostis canina</i>	C	19.1
<i>Comarum palustre</i>	C	18.2

Constant species (6):

<i>Sphagnum recurvum</i> agg.	Dg, Dm	68.0
<i>Eriophorum angustifolium</i>	Dg, Dm	49.0
<i>Agrostis canina</i>	Dg	46.0
<i>Carex rostrata</i>	Dm	43.0
<i>Comarum palustre</i>	Dg	42.0
<i>Carex nigra</i>		42.0

Dominant species (6):

<i>Sphagnum recurvum</i> agg.	Dg, C	44.0
<i>Carex rostrata</i>	C	8.0
<i>Molinia caerulea</i> s. l.		7.0

<i>Carex lasiocarpa</i>		5.0
<i>Eriophorum angustifolium</i>	Dg, C	4.0
<i>Oxycoccus palustris</i> s. l.		3.0

RBE Alliance

Sphagnion cuspidati

Vegetation of bog hollows

Number of relevés: 162

Diagnostic species (10):

<i>Rhynchospora alba</i>	C, Dm	45.0
<i>Carex limosa</i>	Dm	36.4
<i>Scheuchzeria palustris</i>	Dm	32.5
<i>Drosera rotundifolia</i>	C	31.9
<i>Eriophorum angustifolium</i>	C, Dm	31.7
<i>Oxycoccus palustris</i> s. l.	C, Dm	31.4
<i>Sphagnum recurvum</i> agg.	C, Dm	28.7
<i>Sphagnum cuspidatum</i>	Dm	26.6
<i>Carex rostrata</i>	C	21.2
<i>Warnstorfia fluitans</i>		18.2

Constant species (6):

<i>Sphagnum recurvum</i> agg.	Dg, Dm	75.0
<i>Eriophorum angustifolium</i>	Dg, Dm	73.0
<i>Oxycoccus palustris</i> s. l.	Dg, Dm	69.0
<i>Drosera rotundifolia</i>	Dg	68.0
<i>Carex rostrata</i>	Dg	50.0
<i>Rhynchospora alba</i>	Dg, Dm	46.0

Dominant species (10):

<i>Sphagnum recurvum</i> agg.	Dg, C	33.0
<i>Rhynchospora alba</i>	Dg, C	18.0
<i>Sphagnum cuspidatum</i>	Dg	7.0
<i>Oxycoccus palustris</i> s. l.	Dg, C	7.0
<i>Eriophorum angustifolium</i>	Dg, C	6.0
<i>Sphagnum magellanicum</i>		4.0
<i>Scheuchzeria palustris</i>	Dg	4.0
<i>Carex limosa</i>	Dg	4.0
<i>Sphagnum papillosum</i>		3.0
<i>Sphagnum denticulatum</i>		3.0

RC Class

OXYCOCCO-SPHAGNETEA

Bog vegetation

Number of relevés: 306

Diagnostic species (28):

<i>Eriophorum vaginatum</i>	C, Dm	75.8
<i>Oxycoccus palustris</i> s. l.	C, Dm	71.4
<i>Andromeda polifolia</i>	C	61.7

<i>Sphagnum recurvum</i> agg.	C, Dm	56.7
<i>Ledum palustre</i>	C	54.7
<i>Sphagnum magellanicum</i>	Dm	52.5
<i>Polytrichum strictum</i>		51.5
<i>Erica tetralix</i>		49.2
<i>Drosera rotundifolia</i>	C	48.6
<i>Vaccinium uliginosum</i> s. l.		39.6
<i>Aulacomnium palustre</i>		36.9
<i>Betula pubescens</i>	C	34.8
<i>Sphagnum capillifolium</i> s. l.		34.7
<i>Eriophorum angustifolium</i>		34.0
<i>Sphagnum papillosum</i>		30.9
<i>Calluna vulgaris</i>	C	30.1
<i>Sphagnum cuspidatum</i>	Dm	26.8
<i>Molinia caerulea</i> s. l.		26.2
<i>Pinus sylvestris</i>	C, Dm	25.2
<i>Baeothryon cespitosum</i>		21.5
<i>Sphagnum tenellum</i>		21.3
<i>Mylia anomala</i>		21.3
<i>Straminergon stramineum</i>		20.4
<i>Rhynchospora alba</i>		19.7
<i>Sphagnum fimbriatum</i>		19.6
<i>Sphagnum compactum</i>		19.6
<i>Sphagnum denticulatum</i>		19.2
<i>Sphagnum palustre</i> s. l.		18.8
Constant species (9):		
<i>Oxycoccus palustris</i> s. l.	Dg, Dm	77.0
<i>Eriophorum vaginatum</i>	Dg, Dm	72.0
<i>Sphagnum recurvum</i> agg.	Dg, Dm	70.0
<i>Pinus sylvestris</i>	Dg, Dm	69.0
<i>Drosera rotundifolia</i>	Dg	49.0
<i>Andromeda polifolia</i>	Dg	48.0
<i>Calluna vulgaris</i>	Dg	47.0
<i>Betula pubescens</i>	Dg	47.0
<i>Ledum palustre</i>	Dg	43.0
Dominant species (6):		
<i>Sphagnum recurvum</i> agg.	Dg, C	29.0
<i>Eriophorum vaginatum</i>	Dg, C	8.0
<i>Sphagnum magellanicum</i>	Dg	7.0
<i>Oxycoccus palustris</i> s. l.	Dg, C	6.0
<i>Sphagnum cuspidatum</i>	Dg	4.0
<i>Pinus sylvestris</i>	Dg, C	4.0

RCA Alliance***Sphagnion magellanici***

Continental and subcontinental bogs

Number of relevés: 194

Diagnostic species (11):

<i>Eriophorum vaginatum</i>	C, Dm	46.6
<i>Oxycoccus palustris</i> s. l.	C, Dm	35.8
<i>Ledum palustre</i>	C	34.6
<i>Polytrichum strictum</i>	C	30.9
<i>Sphagnum recurvum</i> agg.	C, Dm	30.6
<i>Andromeda polifolia</i>		25.2
<i>Vaccinium uliginosum</i> s. l.		23.9
<i>Sphagnum magellanicum</i>	Dm	23.9
<i>Betula pubescens</i>	C	23.2
<i>Sphagnum capillifolium</i> s. l.		19.5
<i>Drosera rotundifolia</i>	C	19.1

Constant species (9):

<i>Sphagnum recurvum</i> agg.	Dg, Dm	79.0
<i>Eriophorum vaginatum</i>	Dg, Dm	79.0
<i>Oxycoccus palustris</i> s. l.	Dg, Dm	78.0
<i>Pinus sylvestris</i>	Dm	71.0
<i>Betula pubescens</i>	Dg	57.0
<i>Ledum palustre</i>	Dg	51.0
<i>Polytrichum strictum</i>	Dg	42.0
<i>Drosera rotundifolia</i>	Dg	42.0
<i>Molinia caerulea</i> s. l.		41.0

Dominant species (7):

<i>Sphagnum recurvum</i> agg.	Dg, C	37.0
<i>Eriophorum vaginatum</i>	Dg, C	12.0
<i>Pinus sylvestris</i>	C	6.0
<i>Oxycoccus palustris</i> s. l.	Dg, C	6.0
<i>Sphagnum magellanicum</i>	Dg	4.0
<i>Sphagnum cuspidatum</i>		4.0
<i>Pinus mugo</i>		3.0

RCB Alliance***Oxycocco palustris-Ericion tetralicis***

Oceanic and suboceanic bogs

Number of relevés: 39

Diagnostic species (25):

<i>Erica tetralix</i>	C, Dm	72.8
<i>Andromeda polifolia</i>	C	38.4
<i>Sphagnum papillosum</i>		37.6
<i>Sphagnum tenellum</i>		36.6
<i>Oxycoccus palustris</i> s. l.	C	30.5
<i>Drosera rotundifolia</i>	C	30.0

<i>Sphagnum fuscum</i>		28.4
<i>Hypnum jutlandicum</i>		25.1
<i>Eriophorum vaginatum</i>	C	25.1
<i>Sphagnum capillifolium</i> s. l.	C, Dm	24.1
<i>Sphagnum denticulatum</i>	Dm	23.3
<i>Sphagnum cuspidatum</i>	Dm	23.1
<i>Eriophorum angustifolium</i>	C	22.8
<i>Sphagnum magellanicum</i>	Dm	22.7
<i>Sphagnum molle</i>		22.6
<i>Calluna vulgaris</i>	C	22.5
<i>Sphagnum recurvum</i> agg.	C, Dm	22.3
<i>Sphagnum compactum</i>		20.7
<i>Baeothryon cespitosum</i>		20.5
<i>Aulacomnium palustre</i>		19.5
<i>Polytrichum strictum</i>		18.4
<i>Odontoschisma sphagni</i>		18.4
<i>Leucobryum glaucum</i>		18.4
<i>Pinus sylvestris</i>	C	18.2
<i>Cetraria muricata</i>		18.1

Constant species (11):

<i>Erica tetralix</i>	Dg, Dm	95.0
<i>Pinus sylvestris</i>	Dg	79.0
<i>Oxycoccus palustris</i> s. l.	Dg	67.0
<i>Drosera rotundifolia</i>	Dg	64.0
<i>Calluna vulgaris</i>	Dg	64.0
<i>Sphagnum recurvum</i> agg.	Dg, Dm	59.0
<i>Andromeda polifolia</i>	Dg	59.0
<i>Eriophorum angustifolium</i>	Dg	54.0
<i>Molinia caerulea</i> s. l.		44.0
<i>Eriophorum vaginatum</i>	Dg	44.0
<i>Sphagnum capillifolium</i> s. l.	Dg, Dm	41.0

Dominant species (7):

<i>Sphagnum recurvum</i> agg.	Dg, C	15.0
<i>Erica tetralix</i>	Dg, C	13.0
<i>Sphagnum capillifolium</i> s. l.	Dg, C	10.0
<i>Sphagnum magellanicum</i>	Dg	8.0
<i>Vaccinium uliginosum</i> s. l.		5.0
<i>Sphagnum denticulatum</i>	Dg	5.0
<i>Sphagnum cuspidatum</i>	Dg	5.0

RCC Alliance

Oxycocco microcarpi-Empetrium hermaphrodit

Boreal bogs

Number of relevés: 73

Diagnostic species (13):

<i>Andromeda polifolia</i>	C	43.0
<i>Eriophorum vaginatum</i>	C, Dm	40.0
<i>Oxycoccus palustris</i> s. l.	C, Dm	37.9

<i>Sphagnum magellanicum</i>	C, Dm	35.0
<i>Vaccinium uliginosum</i> s. l.	C	31.1
<i>Sphagnum capillifolium</i> s. l.	C	30.0
<i>Drosera rotundifolia</i>	C	28.2
<i>Polytrichum strictum</i>		26.9
<i>Calluna vulgaris</i>	C	25.2
<i>Baeothryon cespitosum</i>	Dm	24.7
<i>Ledum palustre</i>		20.0
<i>Sphagnum recurvum</i> agg.	C, Dm	19.5
<i>Erica tetralix</i>		18.3

Constant species (10):

<i>Oxycoccus palustris</i> s. l.	Dg, Dm	82.0
<i>Calluna vulgaris</i>	Dg	71.0
<i>Eriophorum vaginatum</i>	Dg, Dm	68.0
<i>Andromeda polifolia</i>	Dg	66.0
<i>Drosera rotundifolia</i>	Dg	60.0
<i>Pinus sylvestris</i>		58.0
<i>Sphagnum recurvum</i> agg.	Dg, Dm	52.0
<i>Sphagnum magellanicum</i>	Dg, Dm	51.0
<i>Sphagnum capillifolium</i> s. l.	Dg	51.0
<i>Vaccinium uliginosum</i> s. l.	Dg	48.0

Dominant species (6):

<i>Sphagnum magellanicum</i>	Dg, C	16.0
<i>Sphagnum recurvum</i> agg.	Dg, C	12.0
<i>Oxycoccus palustris</i> s. l.	Dg, C	10.0
<i>Sphagnum cuspidatum</i>		5.0
<i>Baeothryon cespitosum</i>	Dg	4.0
<i>Eriophorum vaginatum</i>	Dg, C	4.0

SA Class

ASPLENIETEA TRICHOMANIS

Vegetation of rocks, walls and stable screes

Number of relevés: 279

Diagnostic species (10):

<i>Polypodium vulgare</i>	C	53.3
<i>Asplenium trichomanes</i>		39.1
<i>Cystopteris fragilis</i>		35.1
<i>Asplenium septentrionale</i>		34.6
<i>Hypnum cupressiforme</i> agg.		27.5
<i>Asplenium ruta-muraria</i>		23.4
<i>Asplenium cuneifolium</i>		21.6
<i>Geranium robertianum</i>		20.7
<i>Poa nemoralis</i>		19.6
<i>Dryopteris filix-mas</i> s. l.		18.8

Constant species (1):

<i>Polypodium vulgare</i>	Dg	54.0
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Dominant species (0):

SAA Alliance

Cystopteridion

Vegetation of calcareous rock outcrops and walls

Number of relevés: 124

Diagnostic species (3):

<i>Cystopteris fragilis</i>	C	50.0
<i>Asplenium trichomanes</i>	C	27.8
<i>Asplenium ruta-muraria</i>	C	26.8

Constant species (4):

<i>Cystopteris fragilis</i>	Dg	63.0
<i>Asplenium ruta-muraria</i>	Dg	52.0
<i>Geranium robertianum</i>		47.0
<i>Asplenium trichomanes</i>	Dg	43.0

Dominant species (0):

SAB Alliance

Asplenion cuneifolii

Vegetation of serpentine outcrops

Number of relevés: 13

Diagnostic species (8):

<i>Asplenium cuneifolium</i>	C, Dm	90.5
<i>Asplenium adulterinum</i>		61.9
<i>Silene vulgaris</i>	C	33.9
<i>Polypodium vulgare</i>	C	29.1
<i>Sedum album</i>		28.3
<i>Hypnum cupressiforme</i> agg.	C	23.9
<i>Asplenium septentrionale</i>		22.9
<i>Viscaria vulgaris</i>		19.2

Constant species (4):

<i>Asplenium cuneifolium</i>	Dg, Dm	85.0
<i>Silene vulgaris</i>	Dg	77.0
<i>Hypnum cupressiforme</i> agg.	Dg	62.0
<i>Polypodium vulgare</i>	Dg	54.0

Dominant species (1):

<i>Asplenium cuneifolium</i>	Dg, C	8.0
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SAC Alliance

Asplenium septentrionalis

Vegetation of siliceous rock outcrops and talus slopes

Number of relevés: 142

Diagnostic species (3):

<i>Polypodium vulgare</i>	C, Dm	47.2
<i>Asplenium septentrionale</i>		34.8
<i>Hypnum cupressiforme</i> agg.	C, Dm	20.5

Constant species (3):

<i>Polypodium vulgare</i>	Dg, Dm	86.0
<i>Hypnum cupressiforme</i> agg.	Dg, Dm	54.0
<i>Poa nemoralis</i>		49.0

Dominant species (2):

<i>Hypnum cupressiforme</i> agg.	Dg, C	5.0
<i>Polypodium vulgare</i>	Dg, C	4.0

SB Class

CYMBALARIO MURALIS-PARIETARIETEA JUDAICAE

Nitrophilous vegetation of walls

Number of relevés: 18

Diagnostic species (19):

<i>Cymbalaria muralis</i>	C	93.4
<i>Asplenium ruta-muraria</i>		34.9
<i>Artemisia vulgaris</i>	C	26.1
<i>Cystopteris fragilis</i>		24.8
<i>Bryum capillare</i> s. l.		24.7
<i>Chelidonium majus</i>		23.3
<i>Oxalis fontana</i> s. l.		22.8
<i>Bryum caespiticium</i>		22.8
<i>Parietaria officinalis</i>		22.5
<i>Homalothecium sericeum</i>		22.5
<i>Hedera helix</i>		22.2
<i>Sambucus racemosa</i>		21.8
<i>Campanula latifolia</i>		21.7
<i>Sciuro-hypnum populeum</i>		21.6
<i>Tortula subulata</i>		21.4
<i>Epilobium collinum</i>		20.4
<i>Sedum album</i>		19.5
<i>Tortula muralis</i>		18.9
<i>Bryoerythrophyllum recurvirostrum</i>		18.6

Constant species (3):

<i>Cymbalaria muralis</i>	Dg	89.0
<i>Artemisia vulgaris</i>	Dg	50.0
<i>Taraxacum</i> sect. <i>Ruderalia</i>		44.0

Dominant species (2):

<i>Lycium barbarum</i>		6.0
<i>Hypnum cupressiforme</i> agg.		6.0

SBA Alliance***Cymbalaria muralis-Asplenion***

Wall vegetation with neophytes of Mediterranean origin

Number of relevés: 18

Diagnostic species (2):

<i>Cymbalaria muralis</i>	C	92.6
<i>Asplenium ruta-muraria</i>		19.5

Constant species (3):

<i>Cymbalaria muralis</i>	Dg	89.0
<i>Artemisia vulgaris</i>		50.0
<i>Taraxacum</i> sect. <i>Ruderalia</i>		44.0

Dominant species (2):

<i>Lycium barbarum</i>		6.0
<i>Hypnum cupressiforme</i> agg.		6.0

SC Class***THLASPIETEA ROTUNDIFOLII***

Vegetation of mobile screes

Number of relevés: 25

Diagnostic species (33):

<i>Galeopsis angustifolia</i>		50.2
<i>Teucrium chamaedrys</i>		43.5
<i>Gymnocarpium robertianum</i>		42.4
<i>Anthemis tinctoria</i>		39.2
<i>Campanula sibirica</i>		35.5
<i>Ranunculus bulbosus</i>		32.3
<i>Verbascum chaixii</i> subsp. <i>austriacum</i>		32.2
<i>Potentilla collina</i>		30.3
<i>Sanguisorba minor</i>		29.7
<i>Berberis vulgaris</i>		29.7
<i>Echium vulgare</i>		29.2
<i>Abietinella abietina</i>		28.8
<i>Homalothecium lutescens</i>		27.0
<i>Acinos arvensis</i>		27.0
<i>Artemisia absinthium</i>		26.7
<i>Allium oleraceum</i>		25.4
<i>Rosa rubiginosa</i> s. l.		25.2
<i>Viola collina</i>		25.0
<i>Aster amellus</i>		24.1
<i>Cerintho minor</i>		22.6
<i>Scabiosa columbaria</i>		21.2
<i>Hieracium pilosella</i> s. l.		21.2

<i>Viola tricolor</i> s. l.	20.9
<i>Tortula muralis</i>	20.4
<i>Picris hieracioides</i>	20.1
<i>Petrorhagia prolifera</i>	19.7
<i>Sempervivum tectorum</i>	19.5
<i>Salvia verticillata</i>	19.4
<i>Sedum sexangulare</i>	19.3
<i>Scabiosa ochroleuca</i>	19.2
<i>Didymodon acutus</i>	18.8
<i>Eryngium planum</i>	18.7
<i>Lepidium campestre</i>	18.4

Constant species (1):

<i>Galium mollugo</i> agg.	44.0
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Dominant species (0):

SCA Alliance

Stipion calamagrostis

Vegetation of calcareous screes

Number of relevés: 25

Diagnostic species (7):

<i>Galeopsis angustifolia</i>	47.2
<i>Gymnocarpium robertianum</i>	31.1
<i>Teucrium chamaedrys</i>	25.4
<i>Verbascum chaixii</i> subsp. <i>austriacum</i>	24.5
<i>Sempervivum tectorum</i>	19.5
<i>Potentilla collina</i>	19.4
<i>Anthemis tinctoria</i>	18.8

Constant species (1):

<i>Galium mollugo</i> agg.	44.0
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Dominant species (0):

AA Class

LOISELEURIO-VACCINIETEA

Alpine heathlands

Number of relevés: 17

Diagnostic species (31):

<i>Huperzia selago</i>	C	50.4
<i>Polytrichastrum alpinum</i>	C, Dm	45.6
<i>Cetraria islandica</i>	C	44.9
<i>Juniperus communis</i> subsp. <i>alpina</i>		42.2
<i>Luzula alpino-pilosa</i>	C, Dm	38.1
<i>Senecio carniolicus</i>		37.2
<i>Deschampsia flexuosa</i>	C, Dm	36.6
<i>Hieracium alpinum</i> agg.	C	36.1
<i>Homogyne alpina</i>	C	35.9

<i>Scapania parvifolia</i>		34.0
<i>Poa laxa</i>		32.7
<i>Vaccinium vitis-idaea</i>	C	31.5
<i>Campanula polymorpha</i>	C	30.9
<i>Juncus trifidus</i>		30.0
<i>Festuca airoides</i>		28.6
<i>Campanula alpina</i>		27.3
<i>Vaccinium myrtillus</i>	C, Dm	26.4
<i>Empetrum nigrum</i> s. l.		26.3
<i>Vaccinium uliginosum</i> s. l.	Dm	24.3
<i>Cladonia bellidiflora</i>		24.0
<i>Diphasiastrum alpinum</i>		23.6
<i>Mutellina purpurea</i>	C	23.4
<i>Oreochloa disticha</i>		23.1
<i>Doronicum clusii</i>		23.0
<i>Agrostis rupestris</i>		21.7
<i>Soldanella carpatica</i>		20.9
<i>Potentilla aurea</i>		19.7
<i>Carex sempervirens</i>		19.5
<i>Lophozia sudetica</i>		19.4
<i>Solidago virgaurea</i>	C	19.2
<i>Polytrichum piliferum</i>		19.1
Constant species (12):		
<i>Deschampsia flexuosa</i>	Dg, Dm	88.0
<i>Vaccinium myrtillus</i>	Dg, Dm	82.0
<i>Vaccinium vitis-idaea</i>	Dg	76.0
<i>Huperzia selago</i>	Dg	71.0
<i>Cetraria islandica</i>	Dg	71.0
<i>Homogyne alpina</i>	Dg	65.0
<i>Polytrichastrum alpinum</i>	Dg, Dm	59.0
<i>Luzula alpino-pilosa</i>	Dg, Dm	59.0
<i>Campanula polymorpha</i>	Dg	53.0
<i>Solidago virgaurea</i>	Dg	47.0
<i>Hieracium alpinum</i> agg.	Dg	47.0
<i>Mutellina purpurea</i>	Dg	41.0
Dominant species (6):		
<i>Deschampsia flexuosa</i>	Dg, C	29.0
<i>Luzula alpino-pilosa</i>	Dg, C	24.0
<i>Vaccinium uliginosum</i> s. l.	Dg	12.0
<i>Polytrichastrum alpinum</i>	Dg, C	12.0
<i>Vaccinium myrtillus</i>	Dg, C	6.0
<i>Nardus stricta</i>		6.0

AAA Alliance

Loiseleurio procumbentis-Vaccinion

Arcto-alpine dwarf-shrub vegetation

Number of relevés: 17

Diagnostic species (18):

<i>Polytrichastrum alpinum</i>	C, Dm	45.4
<i>Huperzia selago</i>	C	45.0
<i>Juniperus communis</i> subsp. <i>alpina</i>		40.2
<i>Cetraria islandica</i>	C	37.2
<i>Scapania parvifolia</i>		34.2
<i>Luzula alpino-pilosa</i>	C, Dm	32.2
<i>Poa laxa</i>		31.0
<i>Hieracium alpinum</i> agg.	C	29.2
<i>Senecio carniolicus</i>		28.2
<i>Campanula polymorpha</i>	C	25.4
<i>Cladonia bellidiflora</i>		24.2
<i>Vaccinium vitis-idaea</i>	C, Dm	23.9
<i>Deschampsia flexuosa</i>	C, Dm	23.6
<i>Homogyne alpina</i>	C	23.4
<i>Festuca airoides</i>		23.3
<i>Diphasiastrum alpinum</i>		20.9
<i>Juncus trifidus</i>		20.6
<i>Campanula alpina</i>		18.8

Constant species (12):

<i>Deschampsia flexuosa</i>	Dg, Dm	88.0
<i>Vaccinium myrtillus</i>		82.0
<i>Vaccinium vitis-idaea</i>	Dg, Dm	76.0
<i>Huperzia selago</i>	Dg	71.0
<i>Cetraria islandica</i>	Dg	71.0
<i>Homogyne alpina</i>	Dg	65.0
<i>Polytrichastrum alpinum</i>	Dg, Dm	59.0
<i>Luzula alpino-pilosa</i>	Dg, Dm	59.0
<i>Campanula polymorpha</i>	Dg	53.0
<i>Solidago virgaurea</i>		47.0
<i>Hieracium alpinum</i> agg.	Dg	47.0
<i>Mutellina purpurea</i>		41.0

Dominant species (6):

<i>Deschampsia flexuosa</i>	Dg, C	29.0
<i>Luzula alpino-pilosa</i>	Dg, C	24.0
<i>Vaccinium uliginosum</i> s. l.		12.0
<i>Polytrichastrum alpinum</i>	Dg, C	12.0
<i>Vaccinium myrtillus</i>	C	6.0
<i>Nardus stricta</i>		6.0

AB Class**JUNCETEA TRIFIDI**

Alpine grasslands on base-poor soil

Number of relevés: 27

Diagnostic species (27):

<i>Carex bigelowii</i> subsp. <i>rigida</i>		55.8
<i>Hieracium alpinum</i> agg.	C	46.2
<i>Juncus trifidus</i>	Dm	43.3
<i>Avenula versicolor</i>		41.0
<i>Festuca airoides</i>	C, Dm	40.0
<i>Oreochloa disticha</i>		39.9
<i>Campanula alpina</i>		39.5
<i>Cladonia rangiferina</i>		35.6
<i>Cladonia stellaris</i>		33.0
<i>Alectoria ochroleuca</i>		33.0
<i>Leucanthemopsis alpina</i>		32.5
<i>Deschampsia flexuosa</i>	C, Dm	29.8
<i>Hypochaeris uniflora</i>		27.3
<i>Cetraria islandica</i>	C, Dm	27.0
<i>Flavocetraria cucullata</i>		26.9
<i>Polygonum bistorta</i>	C	26.7
<i>Potentilla aurea</i>		25.6
<i>Arnica montana</i>		23.6
<i>Homogyne alpina</i>	C	23.4
<i>Senecio carniolicus</i>		22.9
<i>Vaccinium myrtillus</i>	C	21.6
<i>Agrostis rupestris</i>		20.3
<i>Vaccinium vitis-idaea</i>	C	19.6
<i>Lophozia lycopodioides</i>		19.0
<i>Nardus stricta</i>		18.9
<i>Flavocetraria nivalis</i>		18.8
<i>Ptilidium pulcherrimum</i>		18.7

Constant species (8):

<i>Deschampsia flexuosa</i>	Dg, Dm	74.0
<i>Vaccinium myrtillus</i>	Dg	70.0
<i>Hieracium alpinum</i> agg.	Dg	59.0
<i>Vaccinium vitis-idaea</i>	Dg	52.0
<i>Polygonum bistorta</i>	Dg	52.0
<i>Festuca airoides</i>	Dg, Dm	48.0
<i>Homogyne alpina</i>	Dg	44.0
<i>Cetraria islandica</i>	Dg, Dm	44.0

Dominant species (5):

<i>Juncus trifidus</i>	Dg	11.0
<i>Festuca airoides</i>	Dg, C	7.0
<i>Rhynchospora squarrosus</i>		4.0
<i>Cetraria islandica</i>	Dg, C	4.0
<i>Deschampsia flexuosa</i>	Dg, C	4.0

ABA Alliance***Juncion trifidi***

Wind-swept alpine grasslands on base-poor soil

Number of relevés: 9

Diagnostic species (27):

<i>Juncus trifidus</i>	C, Dm	89.8
<i>Campanula alpina</i>	C	82.4
<i>Oreochloa disticha</i>	C	81.3
<i>Avenula versicolor</i>	C	81.1
<i>Leucanthemopsis alpina</i>	C	58.7
<i>Alectoria ochroleuca</i>		57.6
<i>Cladonia rangiferina</i>	C	55.4
<i>Senecio carniolicus</i>	C	53.7
<i>Hieracium alpinum</i> agg.	C	48.9
<i>Flavocetraria cucullata</i>		47.0
<i>Cetraria islandica</i>	C, Dm	41.1
<i>Festuca airoides</i>	C	37.3
<i>Agrostis rupestris</i>	C	36.3
<i>Salix herbacea</i>		34.6
<i>Lophozia lycopodioides</i>		33.2
<i>Flavocetraria nivalis</i>		33.0
<i>Doronicum clusii</i>		32.3
<i>Cladonia grayi</i>		32.1
<i>Carex sempervirens</i>	C	28.3
<i>Homogyne alpina</i>	C	24.1
<i>Luzula alpino-pilosa</i>	C	24.0
<i>Polytrichum piliferum</i>	C	23.3
<i>Geum montanum</i>	C	23.3
<i>Mutellina purpurea</i>	C	22.7
<i>Vaccinium vitis-idaea</i>	C	20.5
<i>Hypochaeris uniflora</i>		19.0
<i>Ranunculus pseudomontanus</i>		18.6

Constant species (21):

<i>Juncus trifidus</i>	Dg, Dm	100.0
<i>Campanula alpina</i>	Dg	100.0
<i>Oreochloa disticha</i>	Dg	89.0
<i>Hieracium alpinum</i> agg.	Dg	78.0
<i>Cetraria islandica</i>	Dg, Dm	78.0
<i>Avenula versicolor</i>	Dg	78.0
<i>Vaccinium vitis-idaea</i>	Dg	67.0
<i>Vaccinium myrtillus</i>		67.0
<i>Homogyne alpina</i>	Dg	67.0
<i>Mutellina purpurea</i>	Dg	56.0
<i>Festuca airoides</i>	Dg	56.0
<i>Cladonia rangiferina</i>	Dg	56.0
<i>Agrostis rupestris</i>	Dg	56.0
<i>Senecio carniolicus</i>	Dg	44.0
<i>Polytrichum piliferum</i>	Dg	44.0

<i>Luzula alpino-pilosa</i>	Dg	44.0
<i>Leucanthemopsis alpina</i>	Dg	44.0
<i>Geum montanum</i>	Dg	44.0
<i>Carex sempervirens</i>	Dg	44.0
<i>Polygonum bistorta</i>		44.0
<i>Deschampsia flexuosa</i>		44.0

Dominant species (2):

<i>Juncus trifidus</i>	Dg, C	33.0
<i>Cetraria islandica</i>	Dg, C	11.0

ABB Alliance

Nardo strictae-Caricion bigelowii

Closed alpine grasslands on base-poor soil

Number of relevés: 18

Diagnostic species (8):

<i>Carex bigelowii</i> subsp. <i>rigida</i>	C	63.1
<i>Cladonia stellaris</i>		40.7
<i>Hieracium alpinum</i> agg.	C	31.1
<i>Festuca airoides</i>	C, Dm	29.6
<i>Arnica montana</i>		23.9
<i>Deschampsia flexuosa</i>	C, Dm	23.8
<i>Ptilidium pulcherrimum</i>		22.5
<i>Polygonum bistorta</i>	C	18.3

Constant species (10):

<i>Deschampsia flexuosa</i>	Dg, Dm	89.0
<i>Vaccinium myrtillus</i>		72.0
<i>Polygonum bistorta</i>	Dg	56.0
<i>Hieracium alpinum</i> agg.	Dg	50.0
<i>Carex bigelowii</i> subsp. <i>rigida</i>	Dg	50.0
<i>Vaccinium vitis-idaea</i>		44.0
<i>Nardus stricta</i>		44.0
<i>Festuca airoides</i>	Dg, Dm	44.0
<i>Deschampsia caespitosa</i>		44.0
<i>Calluna vulgaris</i>		44.0

Dominant species (3):

<i>Festuca airoides</i>	Dg, C	33.0
<i>Deschampsia flexuosa</i>	Dg, C	22.0
<i>Rhytidiadelphus squarrosus</i>		6.0

AC Class

ELYNO-SESLERIETEA

Alpine grasslands on base-rich soil

Number of relevés: 18

Diagnostic species (87):

<i>Sesleria tatrae</i>	C	97.1
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<i>Carex firma</i>	C, Dm	94.2
<i>Thymus carpaticus</i>	C	88.8
<i>Trisetum alpestre</i>	C	87.3
<i>Gentiana clusii</i>	C	81.3
<i>Euphrasia salisburgensis</i>	C	80.7
<i>Bellidiastrum michelii</i>	C	79.2
<i>Gentiana verna</i>	C	74.2
<i>Crepis jacquinii</i>	C	70.3
<i>Ranunculus pseudomontanus</i>	C	69.5
<i>Scabiosa lucida</i>	C	66.6
<i>Primula auricula</i>	C	66.2
<i>Pedicularis verticillata</i>	C	66.2
<i>Dryas octopetala</i>	C, Dm	66.2
<i>Androsace chamaejasme</i>	C	65.6
<i>Gentianella germanica</i> s. l.		63.0
<i>Campanula cochleariifolia</i>		61.9
<i>Carex sempervirens</i>	C	59.9
<i>Phyteuma orbiculare</i>	C	59.0
<i>Helianthemum nummularium</i> s. l.	C	57.7
<i>Hieracium villosum</i>		57.3
<i>Draba aizoides</i>		57.3
<i>Galium anisophyllum</i>	C	57.0
<i>Tofieldia calyculata</i>		55.7
<i>Ranunculus alpestris</i>		52.3
<i>Pinguicula alpina</i>		52.3
<i>Minuartia kitaibelii</i>		52.3
<i>Festuca tatrae</i>		52.3
<i>Androsace lactea</i>		52.3
<i>Selaginella selaginoides</i>	C	52.0
<i>Dianthus plumarius</i>		52.0
<i>Hieracium bupleuroides</i>		51.8
<i>Veronica aphylla</i>		45.9
<i>Polygonum viviparum</i>		45.8
<i>Potentilla crantzii</i>		45.6
<i>Parnassia palustris</i>	C	43.7
<i>Festuca versicolor</i>	C, Dm	43.5
<i>Leontodon incanus</i>		42.9
<i>Silene acaulis</i>		40.4
<i>Saxifraga caesia</i>		40.4
<i>Saxifraga aizoides</i>		40.4
<i>Salix reticulata</i>		40.4
<i>Salix alpina</i>		40.4
<i>Minuartia verna</i>		40.4
<i>Gymnadenia odoratissima</i>		40.4
<i>Chamorchis alpina</i>		40.4
<i>Bupleurum ranunculoides</i>		40.4
<i>Gypsophila repens</i>		40.0
<i>Polygala amara</i> subsp. <i>brachyptera</i>		36.5
<i>Carduus glaucus</i>		35.8
<i>Primula minima</i>		35.0
<i>Pedicularis oederi</i>		33.0

<i>Veronica alpina</i>		32.8
<i>Poa alpina</i>		32.3
<i>Thesium alpinum</i>		31.2
<i>Asplenium viride</i>		30.4
<i>Aster alpinus</i>		29.7
<i>Veronica fruticans</i>		29.3
<i>Campanula polymorpha</i>	C	29.0
<i>Swertia perennis</i>		28.5
<i>Hieracium lachenalii</i> s. l.		26.8
<i>Jovibarba hirta</i>		25.5
<i>Saxifraga paniculata</i>		25.4
<i>Cerastium alpinum</i>		24.7
<i>Asplenium ruta-muraria</i>		24.3
<i>Bartsia alpina</i>		23.6
<i>Soldanella carpatica</i>		23.4
<i>Viola alpina</i>		23.3
<i>Trichostomum crispulum</i>		23.3
<i>Salix retusa</i>		23.3
<i>Minuartia sedoides</i>		23.3
<i>Pachypleurum simplex</i>		23.3
<i>Leontodon pseudotaraxaci</i>		23.3
<i>Kernera saxatilis</i>		23.3
<i>Frullania tamarisci</i>		23.3
<i>Carex brachystachys</i>		23.3
<i>Antennaria carpatica</i>		23.3
<i>Plagiopus oederiana</i>		22.6
<i>Neckera crispa</i>		22.2
<i>Botrychium lunaria</i>		21.1
<i>Carlina acaulis</i>		21.0
<i>Pseudorchis albida</i>		20.3
<i>Agrostis rupestris</i>		20.3
<i>Gymnadenia conopsea</i>		19.8
<i>Ditrichum flexicaule</i>		19.7
<i>Antennaria dioica</i>		19.3
<i>Vaccinium vitis-idaea</i>	C	18.7
Constant species (25):		
<i>Sesleria tatrae</i>	Dg	94.0
<i>Carex firma</i>	Dg, Dm	89.0
<i>Thymus carpaticus</i>	Dg	83.0
<i>Galium anisophyllum</i>	Dg	83.0
<i>Trisetum alpestre</i>	Dg	78.0
<i>Euphrasia salisburgensis</i>	Dg	78.0
<i>Bellidiastrum michelii</i>	Dg	78.0
<i>Phyteuma orbiculare</i>	Dg	72.0
<i>Scabiosa lucida</i>	Dg	67.0
<i>Gentianella germanica</i> s. l.	Dg	67.0
<i>Gentiana clusii</i>	Dg	67.0
<i>Carex sempervirens</i>	Dg	67.0
<i>Ranunculus pseudomontanus</i>	Dg	56.0
<i>Helianthemum nummularium</i> s. l.	Dg	56.0

<i>Gentiana verna</i>	Dg	56.0
<i>Vaccinium vitis-idaea</i>	Dg	50.0
<i>Parnassia palustris</i>	Dg	50.0
<i>Festuca versicolor</i>	Dg, Dm	50.0
<i>Crepis jacquinii</i>	Dg	50.0
<i>Campanula polymorpha</i>	Dg	50.0
<i>Selaginella selaginoides</i>	Dg	44.0
<i>Primula auricula</i>	Dg	44.0
<i>Pedicularis verticillata</i>	Dg	44.0
<i>Dryas octopetala</i>	Dg, Dm	44.0
<i>Androsace chamaejasme</i>	Dg	44.0

Dominant species (3):

<i>Festuca versicolor</i>	Dg, C	17.0
<i>Dryas octopetala</i>	Dg, C	11.0
<i>Carex firma</i>	Dg, C	6.0

ACA Alliance

Seslerion tatrae

Alpine and subalpine chionophilous blue-grass swards on leeward slopes with deeper soils on calcareous bedrock

Number of relevés: 11

Diagnostic species (56):

<i>Trisetum alpestre</i>	C	80.9
<i>Crepis jacquinii</i>	C	77.8
<i>Hieracium villosum</i>	C	73.7
<i>Gentiana clusii</i>	C	73.1
<i>Primula auricula</i>	C	71.9
<i>Bellidiastrum michelii</i>	C	68.2
<i>Minuartia kitaibelii</i>	C	67.3
<i>Festuca tatrae</i>	C	67.3
<i>Euphrasia salisburgensis</i>	C	65.9
<i>Campanula cochleariifolia</i>	C	65.6
<i>Sesleria tatrae</i>	C	65.5
<i>Gentiana verna</i>	C	61.4
<i>Carex firma</i>	C	60.4
<i>Pedicularis verticillata</i>	C	59.6
<i>Thymus carpaticus</i>	C	59.0
<i>Hieracium bupleuroides</i>	C	57.0
<i>Scabiosa lucida</i>	C	53.7
<i>Phyteuma orbiculare</i>	C	53.1
<i>Carex sempervirens</i>	C	53.0
<i>Bupleurum ranunculoides</i>		52.1
<i>Tofieldia calyculata</i>	C	51.7
<i>Androsace lactea</i>		50.9
<i>Leontodon incanus</i>	C	50.8
<i>Polygala amara</i> subsp. <i>brachyptera</i>	C	47.3
<i>Ranunculus pseudomontanus</i>	C	46.7
<i>Draba aizoides</i>		44.8

<i>Gentianella germanica</i> s. l.		43.4
<i>Galium anisophyllum</i>	C	40.3
<i>Carduus glaucus</i>	C	39.4
<i>Pinguicula alpina</i>		36.2
<i>Veronica fruticans</i>		35.6
<i>Helianthemum nummularium</i> s. l.	C	35.5
<i>Trichostomum crispulum</i>		30.1
<i>Kernera saxatilis</i>		30.1
<i>Frullania tamarisci</i>		30.1
<i>Carex brachystachys</i>		30.1
<i>Thesium alpinum</i>		30.0
<i>Plagiopus oederiana</i>		28.8
<i>Aster alpinus</i>		27.5
<i>Hieracium lachenalii</i> s. l.	C	27.2
<i>Gypsophila repens</i>		26.3
<i>Veronica aphylla</i>		25.7
<i>Festuca versicolor</i>	Dm	25.7
<i>Asplenium ruta-muraria</i>	C	23.0
<i>Ranunculus alpestris</i>		22.9
<i>Parnassia palustris</i>		21.6
<i>Campanula polymorpha</i>	C	21.6
<i>Fissidens dubius</i>		21.4
<i>Asplenium viride</i>		21.4
<i>Epipactis atrorubens</i>		21.3
<i>Poa alpina</i>		20.9
<i>Neckera crispa</i>		20.9
<i>Saxifraga paniculata</i>		20.4
<i>Dianthus plumarius</i>		19.6
<i>Jovibarba hirta</i>		18.8
<i>Carlina acaulis</i>		18.6
Constant species (31):		
<i>Trisetum alpestre</i>	Dg	100.0
<i>Thymus carpaticus</i>	Dg	91.0
<i>Sesleria tatrae</i>	Dg	91.0
<i>Euphrasia salisburgensis</i>	Dg	91.0
<i>Bellidiastrum michelii</i>	Dg	91.0
<i>Scabiosa lucida</i>	Dg	82.0
<i>Phyteuma orbiculare</i>	Dg	82.0
<i>Gentiana clusii</i>	Dg	82.0
<i>Carex sempervirens</i>	Dg	82.0
<i>Carex firma</i>	Dg	82.0
<i>Galium anisophyllum</i>	Dg	73.0
<i>Crepis jacquini</i>	Dg	73.0
<i>Primula auricula</i>	Dg	64.0
<i>Hieracium lachenalii</i> s. l.	Dg	64.0
<i>Helianthemum nummularium</i> s. l.	Dg	64.0
<i>Gentianella germanica</i> s. l.	Dg	64.0
<i>Gentiana verna</i>	Dg	64.0
<i>Ranunculus pseudomontanus</i>	Dg	55.0
<i>Polygala amara</i> subsp. <i>brachyptera</i>	Dg	55.0

<i>Pimpinella saxifraga</i>		55.0
<i>Pedicularis verticillata</i>	Dg	55.0
<i>Hieracium villosum</i>	Dg	55.0
<i>Campanula cochleariifolia</i>	Dg	55.0
<i>Tofieldia calyculata</i>	Dg	45.0
<i>Minuartia kitaibelii</i>	Dg	45.0
<i>Leontodon incanus</i>	Dg	45.0
<i>Hieracium bupleuroides</i>	Dg	45.0
<i>Festuca tatrae</i>	Dg	45.0
<i>Carduus glaucus</i>	Dg	45.0
<i>Campanula polymorpha</i>	Dg	45.0
<i>Asplenium ruta-muraria</i>	Dg	45.0

Dominant species (1):

<i>Festuca versicolor</i>	Dg	18.0
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ACB Alliance

Caricion firmae

Alpine and subalpine open sedge swards on shallow calcareous soils on northern wind-swept slopes and ridges

Number of relevés: 7

Diagnostic species (60):

<i>Androsace chamaejasme</i>	C	94.9
<i>Dryas octopetala</i>	C, Dm	84.0
<i>Carex firma</i>	C, Dm	74.0
<i>Sesleria tatrae</i>	C	72.2
<i>Selaginella selaginoides</i>	C	72.0
<i>Silene acaulis</i>	C	65.3
<i>Saxifraga aizoides</i>	C	65.3
<i>Salix reticulata</i>	C	65.3
<i>Salix alpina</i>	C	65.3
<i>Chamorchis alpina</i>	C	65.3
<i>Polygonum viviparum</i>	C	64.1
<i>Primula minima</i>	C	60.8
<i>Potentilla crantzii</i>	C	58.2
<i>Galium anisophyllum</i>	C	55.9
<i>Ranunculus alpestris</i>	C	54.6
<i>Pedicularis oederi</i>		53.3
<i>Festuca versicolor</i>	C, Dm	51.4
<i>Ranunculus pseudomontanus</i>	C	49.0
<i>Gentianella germanica</i> s. l.	C	48.9
<i>Dianthus plumarius</i>	C	46.9
<i>Saxifraga caesia</i>		46.4
<i>Minuartia verna</i>		46.4
<i>Gymnadenia odoratissima</i>		46.4
<i>Thymus carpathicus</i>	C	46.2
<i>Bartsia alpina</i>	C	44.7
<i>Parnassia palustris</i>	C	43.5
<i>Bellidiastrum michelii</i>	C	42.6

<i>Gentiana verna</i>	C	41.1
<i>Euphrasia salisburgensis</i>	C	41.0
<i>Veronica aphylla</i>		40.7
<i>Pinguicula alpina</i>		37.9
<i>Gentiana clusii</i>	C	37.9
<i>Viola alpina</i>		37.7
<i>Salix retusa</i>		37.7
<i>Minuartia sedoides</i>		37.7
<i>Pachypleurum simplex</i>		37.7
<i>Leontodon pseudotaraxaci</i>		37.7
<i>Antennaria carpatica</i>		37.7
<i>Botrychium lunaria</i>		37.3
<i>Phyteuma orbiculare</i>	C	36.8
<i>Cerastium alpinum</i>		35.6
<i>Draba aizoides</i>		35.1
<i>Trisetum alpestre</i>	C	34.2
<i>Swertia perennis</i>		33.0
<i>Soldanella carpatica</i>	C	32.4
<i>Pedicularis verticillata</i>		30.9
<i>Pseudorchis albida</i>		29.6
<i>Veronica alpina</i>		28.3
<i>Agrostis rupestris</i>	C	27.8
<i>Scabiosa lucida</i>	C	27.7
<i>Campanula polymorpha</i>	C	27.6
<i>Carex sempervirens</i>	C	27.3
<i>Huperzia selago</i>	C	26.9
<i>Ranunculus oreophilus</i>		25.0
<i>Helianthemum nummularium</i> s. l.	C	23.5
<i>Asplenium viride</i>		22.5
<i>Vaccinium vitis-idaea</i>	C	22.2
<i>Gypsophila repens</i>		20.6
<i>Androsace lactea</i>		19.7
<i>Potentilla aurea</i>	C	18.4
Constant species (39):		
<i>Sesleria tatrae</i>	Dg	100.0
<i>Galium anisophyllum</i>	Dg	100.0
<i>Carex firma</i>	Dg, Dm	100.0
<i>Androsace chamaejasme</i>	Dg	100.0
<i>Selaginella selaginoides</i>	Dg	86.0
<i>Dryas octopetala</i>	Dg, Dm	86.0
<i>Vaccinium vitis-idaea</i>	Dg	71.0
<i>Thymus carpaticus</i>	Dg	71.0
<i>Soldanella carpatica</i>	Dg	71.0
<i>Polygonum viviparum</i>	Dg	71.0
<i>Parnassia palustris</i>	Dg	71.0
<i>Gentianella germanica</i> s. l.	Dg	71.0
<i>Festuca versicolor</i>	Dg, Dm	71.0
<i>Bartsia alpina</i>	Dg	71.0
<i>Ranunculus pseudomontanus</i>	Dg	57.0
<i>Primula minima</i>	Dg	57.0

<i>Phyteuma orbiculare</i>	Dg	57.0
<i>Euphrasia salisburgensis</i>	Dg	57.0
<i>Campanula polymorpha</i>	Dg	57.0
<i>Bellidiastrum michelii</i>	Dg	57.0
<i>Vaccinium myrtillus</i>		43.0
<i>Trisetum alpestre</i>	Dg	43.0
<i>Silene acaulis</i>	Dg	43.0
<i>Scabiosa lucida</i>	Dg	43.0
<i>Saxifraga aizoides</i>	Dg	43.0
<i>Salix reticulata</i>	Dg	43.0
<i>Salix alpina</i>	Dg	43.0
<i>Ranunculus alpestris</i>	Dg	43.0
<i>Potentilla crantzii</i>	Dg	43.0
<i>Potentilla aurea</i>	Dg	43.0
<i>Huperzia selago</i>	Dg	43.0
<i>Homogyne alpina</i>		43.0
<i>Helianthemum nummularium</i> s. l.	Dg	43.0
<i>Gentiana verna</i>	Dg	43.0
<i>Gentiana clusii</i>	Dg	43.0
<i>Dianthus plumarius</i>	Dg	43.0
<i>Chamorchis alpina</i>	Dg	43.0
<i>Carex sempervirens</i>	Dg	43.0
<i>Agrostis rupestris</i>	Dg	43.0
Dominant species (3):		
<i>Dryas octopetala</i>	Dg, C	29.0
<i>Festuca versicolor</i>	Dg, C	14.0
<i>Carex firma</i>	Dg, C	14.0

AD Class

MULGEDIO-ACONITETEA

Subalpine tall-forb and deciduous-shrub vegetation

Number of relevés: 127

Diagnostic species (20):

<i>Ranunculus platanifolius</i>		43.1
<i>Gentiana asclepiadea</i>	C	42.7
<i>Cicerbita alpina</i>	Dm	39.4
<i>Veratrum lobelianum</i>	Dm	38.0
<i>Rumex alpestris</i>		36.5
<i>Senecio subalpinus</i>		32.7
<i>Luzula sylvatica</i>		28.4
<i>Doronicum austriacum</i>		28.2
<i>Poa chaixii</i>		28.1
<i>Adenostyles alliariae</i>		27.8
<i>Polygonatum verticillatum</i>		26.6
<i>Hypericum maculatum</i>		24.6
<i>Athyrium distentifolium</i>	Dm	24.2
<i>Phyteuma spicatum</i>		23.0
<i>Streptopus amplexifolius</i>		22.9

<i>Calamagrostis villosa</i>	Dm	22.5
<i>Epilobium alpestre</i>		19.6
<i>Sedum fabaria</i>		19.1
<i>Phleum rhaeticum</i>		19.1
<i>Aconitum firmum</i>		18.3

Constant species (1):

<i>Gentiana asclepiadea</i>	Dg	49.0
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Dominant species (7):

<i>Athyrium distentifolium</i>	Dg	17.0
<i>Calamagrostis villosa</i>	Dg	17.0
<i>Calamagrostis varia</i>		9.0
<i>Deschampsia caespitosa</i>		7.0
<i>Cicerbita alpina</i>	Dg	6.0
<i>Veratrum lobelianum</i>	Dg	11.0
<i>Calamagrostis arundinacea</i>		6.0

ADA Alliance

Calamagrostion villosae

Subalpine tall grasslands

Number of relevés: 54

Diagnostic species (2):

<i>Gentiana asclepiadea</i>	C, Dm	23.2
<i>Veratrum lobelianum</i>	C, Dm	19.4

Constant species (6):

<i>Gentiana asclepiadea</i>	Dg, Dm	57.0
<i>Deschampsia caespitosa</i>	Dm	56.0
<i>Hypericum maculatum</i>	Dm	54.0
<i>Vaccinium myrtillus</i>		44.0
<i>Mutellina purpurea</i>		43.0
<i>Veratrum lobelianum</i>	Dg, Dm	41.0

Dominant species (8):

<i>Calamagrostis villosa</i>		26.0
<i>Veratrum lobelianum</i>	Dg, C	7.0
<i>Deschampsia caespitosa</i>	C	7.0
<i>Rubus idaeus</i>		6.0
<i>Hypericum maculatum</i>	C	6.0
<i>Alchemilla vulgaris</i> s. l.		6.0
<i>Sphagnum recurvum</i> agg.		4.0
<i>Gentiana asclepiadea</i>	Dg, C	4.0

ADB Alliance***Calamagrostion arundinaceae***Subalpine grasslands with *Calamagrostis arundinacea*

Number of relevés: 8

Diagnostic species (22):

<i>Calamagrostis arundinacea</i>	C, Dm	43.0
<i>Cirsium waldsteinii</i>		35.3
<i>Astrantia major</i>		34.6
<i>Luzula sylvatica</i>	C	33.3
<i>Hypochaeris uniflora</i>		32.6
<i>Gentiana asclepiadea</i>	C	30.8
<i>Knautia dipsacifolia</i>		29.5
<i>Helleborus purpurascens</i>		28.2
<i>Scilla bifolia</i>		28.0
<i>Luzula luzuloides</i>	C	27.9
<i>Carlina acaulis</i>	C	26.1
<i>Dianthus compactus</i>		25.5
<i>Phyteuma spicatum</i>	C	24.4
<i>Aposeris foetida</i>		24.2
<i>Athyrium filix-femina</i>	C	24.1
<i>Poa chaixii</i>		23.6
<i>Crepis conyzifolia</i>		23.5
<i>Hieracium aurantiacum</i>		22.2
<i>Nardus stricta</i>	C	20.9
<i>Campanula serrata</i>		20.8
<i>Solidago alpestris</i>		20.5
<i>Tanacetum corymbosum</i> subsp. <i>clusii</i>		20.2

Constant species (12):

<i>Calamagrostis arundinacea</i>	Dg, Dm	100.0
<i>Vaccinium myrtillus</i>	Dm	75.0
<i>Luzula luzuloides</i>	Dg	75.0
<i>Gentiana asclepiadea</i>	Dg	75.0
<i>Rubus idaeus</i>		62.0
<i>Nardus stricta</i>	Dg	62.0
<i>Luzula sylvatica</i>	Dg	62.0
<i>Athyrium filix-femina</i>	Dg	62.0
<i>Potentilla erecta</i>		50.0
<i>Phyteuma spicatum</i>	Dg	50.0
<i>Homogyne alpina</i>		50.0
<i>Carlina acaulis</i>	Dg	50.0

Dominant species (2):

<i>Calamagrostis arundinacea</i>	Dg, C	50.0
<i>Vaccinium myrtillus</i>	C	25.0

ADF Alliance

Calamagrostion varia

Calciphilous tall grasslands on gravely soil in montane to subalpine belts

Number of relevés: 11

Diagnostic species (42):

<i>Hypericum hirsutum</i>		53.9
<i>Aruncus sylvestris</i>	C	50.9
<i>Calamagrostis varia</i>	C, Dm	47.8
<i>Vicia sylvatica</i>		43.2
<i>Gymnocarpium robertianum</i>	C	42.7
<i>Cirsium erisithales</i>		38.5
<i>Valeriana tripteris</i>	C	38.1
<i>Rumex scutatus</i>		37.0
<i>Asplenium viride</i>	C	36.2
<i>Laserpitium latifolium</i>	C	35.2
<i>Digitalis grandiflora</i>	C	31.4
<i>Saxifraga adscendens</i>		30.1
<i>Carex contigua</i> s. l.		29.6
<i>Cardamine trifolia</i>		29.4
<i>Clinopodium vulgare</i>	C	28.9
<i>Pimpinella major</i>	C	27.1
<i>Salvia verticillata</i>	C	26.8
<i>Rubus saxatilis</i>		26.7
<i>Fragaria vesca</i>	C	26.7
<i>Melica nutans</i>	C	26.0
<i>Cruciata glabra</i>	C	26.0
<i>Carduus collinus</i>		26.0
<i>Stachys germanica</i>		25.5
<i>Geranium columbinum</i>		25.4
<i>Carex digitata</i>	C	25.3
<i>Bupleurum falcatum</i>		25.2
<i>Lonicera nigra</i>		24.9
<i>Clematis alpina</i>		24.8
<i>Carduus glaucus</i>		23.4
<i>Asarum europaeum</i>	C	23.0
<i>Stachys alpina</i>		21.3
<i>Epipactis atrorubens</i>		21.3
<i>Origanum vulgare</i>	C	21.0
<i>Galium mollugo</i> agg.	C	20.9
<i>Lathyrus pratensis</i>	C	20.8
<i>Antennaria dioica</i>		20.5
<i>Hieracium laevigatum</i>		20.1
<i>Sorbus aira</i>		19.1
<i>Silene nemoralis</i>		19.0
<i>Hieracium murorum</i>	C	18.8
<i>Anthemis tinctoria</i>		18.3
<i>Campanula glomerata</i>		18.2

Constant species (29):

<i>Calamagrostis varia</i>	Dg, Dm	100.0
<i>Galium mollugo</i> agg.	Dg	91.0
<i>Fragaria vesca</i>	Dg	91.0
<i>Veronica chamaedrys</i>		73.0
<i>Euphorbia cyparissias</i>		73.0
<i>Cruciata glabra</i>	Dg	73.0
<i>Clinopodium vulgare</i>	Dg	73.0
<i>Valeriana tripteris</i>	Dg	64.0
<i>Melica nutans</i>	Dg	64.0
<i>Salvia verticillata</i>	Dg	55.0
<i>Lathyrus pratensis</i>	Dg	55.0
<i>Gymnocarpium robertianum</i>	Dg	55.0
<i>Digitalis grandiflora</i>	Dg	55.0
<i>Carex digitata</i>	Dg	55.0
<i>Vincetoxicum hirundinaria</i>		45.0
<i>Poa nemoralis</i>		45.0
<i>Pimpinella saxifraga</i>		45.0
<i>Pimpinella major</i>	Dg	45.0
<i>Origanum vulgare</i>	Dg	45.0
<i>Medicago lupulina</i>		45.0
<i>Linum catharticum</i>		45.0
<i>Leontodon hispidus</i>		45.0
<i>Laserpitium latifolium</i>	Dg	45.0
<i>Hieracium murorum</i>	Dg	45.0
<i>Geranium robertianum</i>		45.0
<i>Coronilla varia</i>		45.0
<i>Asplenium viride</i>	Dg	45.0
<i>Asarum europaeum</i>	Dg	45.0
<i>Aruncus sylvestris</i>	Dg	45.0

Dominant species (2):

<i>Calamagrostis varia</i>	Dg, C	73.0
<i>Hylocomium splendens</i>		9.0

ADG Alliance***Trisetion fusci***

Tall grasslands on alluviums of mountain streams on siliceous bedrock

Number of relevés: 12

Diagnostic species (14):

<i>Senecio subalpinus</i>	C	38.7
<i>Phleum rhaeticum</i>	C	34.6
<i>Aconitum firmum</i>	C, Dm	33.7
<i>Lysimachia nemorum</i>	C	32.6
<i>Gnaphalium norvegicum</i>		28.8
<i>Oreopteris limbosperma</i>		27.2
<i>Chaerophyllum hirsutum</i>	C	26.5
<i>Pellia epiphylla</i>		26.4
<i>Luzula sylvatica</i>	C	26.4

<i>Streptopus amplexifolius</i>		23.7
<i>Viola biflora</i>	C	22.6
<i>Poa chaixii</i>		20.9
<i>Phyteuma spicatum</i>	C	20.1
<i>Equisetum sylvaticum</i>		20.1

Constant species (14):

<i>Deschampsia caespitosa</i>	Dm	75.0
<i>Senecio subalpinus</i>	Dg	58.0
<i>Myosotis palustris</i> agg.		58.0
<i>Chaerophyllum hirsutum</i>	Dg	58.0
<i>Aconitum firmum</i>	Dg, Dm	58.0
<i>Luzula sylvatica</i>	Dg	50.0
<i>Viola biflora</i>	Dg	42.0
<i>Rumex alpestris</i>		42.0
<i>Potentilla erecta</i>		42.0
<i>Phyteuma spicatum</i>	Dg	42.0
<i>Phleum rhaeticum</i>	Dg	42.0
<i>Lysimachia nemorum</i>	Dg	42.0
<i>Anthoxanthum odoratum</i> s. l.		42.0
<i>Alchemilla vulgaris</i> s. l.		42.0

Dominant species (4):

<i>Mutellina purpurea</i>		8.0
<i>Deschampsia caespitosa</i>	C	8.0
<i>Palustriella commutata</i>		8.0
<i>Aconitum firmum</i>	Dg, C	8.0

ADC Alliance

Salicion silesiaca

Subalpine deciduous scrub and woodland

Number of relevés: 12

Diagnostic species (31):

<i>Athyrium distentifolium</i>	C, Dm	48.5
<i>Ribes petraeum</i>	C	44.1
<i>Lonicera nigra</i>	C	38.4
<i>Polystichum lonchitis</i>		37.9
<i>Ranunculus plataniifolius</i>	C	35.3
<i>Rosa pendulina</i>		33.9
<i>Sedum fabaria</i>		33.4
<i>Salix silesiaca</i>	C	31.8
<i>Gentiana asclepiadea</i>	C	30.8
<i>Geranium sylvaticum</i>	C	29.2
<i>Bucklandiella microcarpa</i>		28.8
<i>Lophozia longidens</i>		28.8
<i>Adenostyles alliariae</i>	C	28.8
<i>Veratrum lobelianum</i>	C	28.4
<i>Oreopteris limbosperma</i>		26.9
<i>Pinus mugo</i>	C, Dm	26.7
<i>Rumex alpestris</i>	C	25.1

<i>Rubus idaeus</i>	C	24.8
<i>Cicerbita alpina</i>		24.6
<i>Milium effusum</i>	C	24.0
<i>Streptopus amplexifolius</i>		23.7
<i>Calamagrostis villosa</i>	C	23.7
<i>Polygonatum verticillatum</i>		23.4
<i>Sorbus aucuparia</i>	C, Dm	23.2
<i>Stellaria nemorum</i>	C	21.9
<i>Dryopteris carthusiana</i> s. l.	C	21.9
<i>Luzula sylvatica</i>	C	21.8
<i>Hylocomiastrum umbratum</i>	Dm	21.7
<i>Prenanthes purpurea</i>		21.1
<i>Oxalis acetosella</i>	C	19.1
<i>Aconitum firmum</i>		18.8

Constant species (26):

<i>Athyrium distentifolium</i>	Dg, Dm	100.0
<i>Sorbus aucuparia</i>	Dg, Dm	92.0
<i>Rubus idaeus</i>	Dg	92.0
<i>Vaccinium myrtillus</i>	Dm	83.0
<i>Gentiana asclepiadea</i>	Dg	75.0
<i>Oxalis acetosella</i>	Dg	67.0
<i>Dryopteris carthusiana</i> s. l.	Dg	67.0
<i>Veratrum lobelianum</i>	Dg	58.0
<i>Salix silesiaca</i>	Dg	58.0
<i>Rumex alpestris</i>	Dg	58.0
<i>Ranunculus platanifolius</i>	Dg	58.0
<i>Stellaria nemorum</i>	Dg	50.0
<i>Picea abies</i>		50.0
<i>Milium effusum</i>	Dg	50.0
<i>Geranium sylvaticum</i>	Dg	50.0
<i>Calamagrostis villosa</i>	Dg	50.0
<i>Solidago virgaurea</i>		42.0
<i>Senecio nemorensis</i> agg.		42.0
<i>Ribes petraeum</i>	Dg	42.0
<i>Pinus mugo</i>	Dg	42.0
<i>Luzula sylvatica</i>	Dg	42.0
<i>Lonicera nigra</i>	Dg	42.0
<i>Homogyne alpina</i>		42.0
<i>Polygonum bistorta</i>		42.0
<i>Deschampsia flexuosa</i>		42.0
<i>Adenostyles alliariae</i>	Dg, Dm	42.0

Dominant species (7):

<i>Athyrium distentifolium</i>	Dg, C	50.0
<i>Sorbus aucuparia</i>	Dg, C	17.0
<i>Pinus mugo</i>	Dg, C	17.0
<i>Vaccinium myrtillus</i>	C	8.0
<i>Rhytidadelphus squarrosus</i>		8.0
<i>Hylocomiastrum umbratum</i>	Dg	8.0
<i>Adenostyles alliariae</i>	Dg, C	8.0

ADD Alliance***Adenostylin alliariae***

Subalpine tall-forb vegetation

Number of relevés: 15

Diagnostic species (14):

<i>Cicerbita alpina</i>	C, Dm	55.1
<i>Doronicum austriacum</i>	C, Dm	38.7
<i>Adenostyles alliariae</i>	C, Dm	37.1
<i>Thalictrum aquilegifolium</i>		34.4
<i>Petasites albus</i>	Dm	28.6
<i>Epilobium alpestre</i>		28.1
<i>Ranunculus platanifolius</i>	C	28.0
<i>Stellaria nemorum</i>	C	26.4
<i>Melandrium rubrum</i>		22.8
<i>Veratrum lobelianum</i>	C	22.5
<i>Primula elatior</i>	C	22.4
<i>Oxalis acetosella</i>	C	19.1
<i>Milium effusum</i>		19.0
<i>Polygonatum verticillatum</i>		18.6

Constant species (10):

<i>Cicerbita alpina</i>	Dg, Dm	73.0
<i>Oxalis acetosella</i>	Dg	67.0
<i>Stellaria nemorum</i>	Dg	60.0
<i>Myosotis palustris</i> agg.		53.0
<i>Adenostyles alliariae</i>	Dg, Dm	53.0
<i>Veratrum lobelianum</i>	Dg	47.0
<i>Rubus idaeus</i>		47.0
<i>Ranunculus platanifolius</i>	Dg	47.0
<i>Primula elatior</i>	Dg	47.0
<i>Doronicum austriacum</i>	Dg, Dm	47.0

Dominant species (6):

<i>Cicerbita alpina</i>	Dg, C	33.0
<i>Petasites albus</i>	Dg	13.0
<i>Aranus sylvestris</i>		13.0
<i>Adenostyles alliariae</i>	Dg, C	13.0
<i>Doronicum austriacum</i>	Dg, C	7.0
<i>Chaerophyllum hirsutum</i>		7.0

ADE Alliance***Dryopterido flicis-maris-Athyrium distentifolii***

Subalpine tall-fern vegetation

Number of relevés: 15

Diagnostic species (15):

<i>Athyrium distentifolium</i>	C, Dm	45.2
<i>Veratrum lobelianum</i>	C	29.3
<i>Pellia epiphylla</i>		28.2

<i>Adenostyles alliariae</i>		27.6
<i>Rumex alpestris</i>	C	25.9
<i>Festuca carpatica</i>		25.1
<i>Cicerbita alpina</i>		24.6
<i>Homogyne alpina</i>	C	24.1
<i>Phegopteris connectilis</i>		23.1
<i>Gentiana punctata</i>		22.4
<i>Calamagrostis villosa</i>	C	22.0
<i>Doronicum austriacum</i>	Dm	21.8
<i>Ranunculus plataniifolius</i>		19.7
<i>Gentiana asclepiadea</i>	C	18.6
<i>Epilobium alpestre</i>		18.6

Constant species (8):

<i>Athyrium distentifolium</i>	Dg, Dm	93.0
<i>Rubus idaeus</i>	Dm	67.0
<i>Homogyne alpina</i>	Dg	67.0
<i>Veratrum lobelianum</i>	Dg	60.0
<i>Rumex alpestris</i>	Dg	60.0
<i>Oxalis acetosella</i>		53.0
<i>Gentiana asclepiadea</i>	Dg	47.0
<i>Calamagrostis villosa</i>	Dg	47.0

Dominant species (2):

<i>Athyrium distentifolium</i>	Dg, C	87.0
<i>Doronicum austriacum</i>	Dg	7.0

AE Class

SALICETEA HERBACEAE

Snow bed vegetation

Number of relevés: 19

Diagnostic species (53):

<i>Gnaphalium supinum</i>	C	61.8
<i>Festuca picta</i>	C, Dm	58.0
<i>Sedum alpestre</i>		55.4
<i>Mutellina purpurea</i>	C, Dm	55.1
<i>Kiaeria starkei</i>		45.3
<i>Taraxacum nigricans</i>		44.6
<i>Oligotrichum hercynicum</i>		42.9
<i>Potentilla aurea</i>	C	41.7
<i>Geum montanum</i>	C	41.5
<i>Gentiana punctata</i>		40.2
<i>Anthoxanthum odoratum</i> s. l.	C	39.9
<i>Cerastium cerastoides</i>		39.0
<i>Pogonatum urnigerum</i>		38.6
<i>Nardia scalaris</i>		38.5
<i>Geranium sylvaticum</i>		36.4
<i>Lophozia sudetica</i>		35.7
<i>Gnaphalium norvegicum</i>		35.4
<i>Primula elatior</i>		33.6

<i>Phleum rhaeticum</i>		32.8
<i>Niphotrichum ericoides</i>		31.9
<i>Niphotrichum elongatum</i>		31.7
<i>Sanionia uncinata</i>		30.8
<i>Jungermannia sphaerocarpa</i>	Dm	30.7
<i>Luzula alpino-pilosa</i>	C	30.0
<i>Agrostis rupestris</i>		29.9
<i>Soldanella carpatica</i>	C	29.2
<i>Rumex alpestris</i>		28.8
<i>Phyteuma spicatum</i>		27.9
<i>Ditrichum heteromallum</i>		27.8
<i>Luzula luzuloides</i>	C	26.2
<i>Alchemilla vulgaris</i> s. l.		25.0
<i>Campanula polymorpha</i>	C	23.8
<i>Sibbaldia procumbens</i>		22.7
<i>Pseudoleskea incurvata</i>		22.7
<i>Oxystegus tenuirostris</i>		22.6
<i>Polytrichastrum pallidisetum</i>		22.1
<i>Deschampsia flexuosa</i>	C, Dm	22.1
<i>Bryum bicolor</i>		21.7
<i>Aconitum firmum</i>		21.7
<i>Ranunculus platanifolius</i>		21.4
<i>Deschampsia caespitosa</i>	C	21.4
<i>Euphrasia picta</i>		21.1
<i>Thalictrum aquilegiifolium</i>		21.0
<i>Thymus alpestris</i>		20.4
<i>Nardus stricta</i>	Dm	20.4
<i>Pedicularis hacquetii</i>		19.8
<i>Solidago virgaurea</i>	C	19.3
<i>Alchemilla pyrenaica</i>		19.2
<i>Rhinanthus alpinus</i>		18.7
<i>Homogyne alpina</i>		18.7
<i>Epilobium anagallidifolium</i>		18.4
<i>Doronicum austriacum</i>		18.4
<i>Adenostyles alliariae</i>		18.2
Constant species (14):		
<i>Mutellina purpurea</i>	Dg, Dm	89.0
<i>Anthoxanthum odoratum</i> s. l.	Dg	89.0
<i>Potentilla aurea</i>	Dg	58.0
<i>Deschampsia flexuosa</i>	Dg, Dm	58.0
<i>Deschampsia caespitosa</i>	Dg	53.0
<i>Vaccinium myrtillus</i>		47.0
<i>Solidago virgaurea</i>	Dg	47.0
<i>Soldanella carpatica</i>	Dg	47.0
<i>Gnaphalium supinum</i>	Dg	47.0
<i>Luzula alpino-pilosa</i>	Dg	47.0
<i>Geum montanum</i>	Dg	47.0
<i>Luzula luzuloides</i>	Dg	42.0
<i>Festuca picta</i>	Dg, Dm	42.0
<i>Campanula polymorpha</i>	Dg	42.0

Dominant species (8):

<i>Mutellina purpurea</i>	Dg, C	11.0
<i>Jungermannia sphaerocarpa</i>	Dg	11.0
<i>Festuca picta</i>	Dg, C	11.0
<i>Nardus stricta</i>	Dg	5.0
<i>Chaerophyllum hirsutum</i>		5.0
<i>Deschampsia flexuosa</i>	Dg, C	5.0
<i>Athyrium distentifolium</i>		5.0
<i>Agrostis capillaris</i>		5.0

AEA Alliance***Salicion herbaceae***

Snow beds and snow fields vegetation on siliceous bedrock

Number of relevés: 8

Diagnostic species (21):

<i>Gnaphalium supinum</i>	C	74.6
<i>Kiaeria starkei</i>	C	69.6
<i>Oligotrichum hercynicum</i>	C	65.9
<i>Lophozia sudetica</i>	C	61.1
<i>Pogonatum urnigerum</i>	C	60.2
<i>Cerastium cerastoides</i>		58.6
<i>Sedum alpestre</i>	C	58.0
<i>Nardia scalaris</i>		55.3
<i>Jungermannia sphaerocarpa</i>	Dm	48.4
<i>Niphotrichum ericoides</i>		48.2
<i>Sanionia uncinata</i>		47.6
<i>Niphotrichum elongatum</i>		46.6
<i>Ditrichum heteromallum</i>		41.0
<i>Agrostis rupestris</i>	C	41.0
<i>Sibbaldia procumbens</i>		34.9
<i>Polytrichastrum pallidisetum</i>		31.7
<i>Mutellina purpurea</i>	C	31.2
<i>Bryum bicolor</i>		29.9
<i>Potentilla aurea</i>	C	21.7
<i>Deschampsia flexuosa</i>	C	19.7
<i>Salix herbacea</i>		19.3

Constant species (14):

<i>Gnaphalium supinum</i>	Dg	88.0
<i>Mutellina purpurea</i>	Dg	75.0
<i>Deschampsia flexuosa</i>	Dg	75.0
<i>Anthoxanthum odoratum</i> s. l.		75.0
<i>Oligotrichum hercynicum</i>	Dg	62.0
<i>Deschampsia caespitosa</i>		62.0
<i>Agrostis rupestris</i>	Dg	62.0
<i>Vaccinium myrtillus</i>		50.0
<i>Sedum alpestre</i>	Dg	50.0
<i>Potentilla aurea</i>	Dg	50.0
<i>Pogonatum urnigerum</i>	Dg	50.0

<i>Nardus stricta</i>		50.0
<i>Lophozia sudetica</i>	Dg	50.0
<i>Kiaeria starkei</i>	Dg	50.0

Dominant species (1):

<i>Jungermannia sphaerocarpa</i>	Dg	25.0
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AEB Alliance

Festucion picturatae

Chionophilous vegetation of fixed screes on siliceous bedrock

Number of relevés: 11

Diagnostic species (35):

<i>Festuca picta</i>	C, Dm	68.3
<i>Taraxacum nigricans</i>		54.2
<i>Gnaphalium norvegicum</i>		44.1
<i>Mutellina purpurea</i>	C, Dm	42.2
<i>Gentiana punctata</i>		41.2
<i>Luzula alpino-pilosa</i>	C	40.1
<i>Geum montanum</i>	C	38.9
<i>Geranium sylvaticum</i>	C	37.5
<i>Primula elatior</i>	C	31.1
<i>Pseudoleskea incurvata</i>		30.1
<i>Phleum rhaeticum</i>		30.1
<i>Oxystegus tenuirostris</i>		29.3
<i>Pulsatilla alba</i>		28.9
<i>Soldanella carpatica</i>	C	28.7
<i>Potentilla aurea</i>	C	28.1
<i>Euphrasia picta</i>		27.4
<i>Rhodiola rosea</i>		26.3
<i>Campanula polymorpha</i>	C	26.2
<i>Dianthus superbus</i>		25.8
<i>Solidago virgaurea</i>	C	24.6
<i>Traunsteinera globosa</i>		23.4
<i>Rumex alpestris</i>	C	23.4
<i>Thymus alpestris</i>		23.3
<i>Phyteuma orbiculare</i>		23.0
<i>Anthoxanthum odoratum</i> s. l.	C	22.8
<i>Phyteuma spicatum</i>	C	22.1
<i>Anemone narcissiflora</i>		22.0
<i>Pedicularis hacquetii</i>		21.5
<i>Alchemilla vulgaris</i> s. l.	C	20.9
<i>Sedum alpestre</i>		20.7
<i>Aconitum firmum</i>		20.6
<i>Luzula luzuloides</i>	C	19.8
<i>Rhinanthus alpinus</i>		19.6
<i>Homogyne alpina</i>	C	19.4
<i>Thalictrum aquilegifolium</i>		18.5

Constant species (20):

<i>Mutellina purpurea</i>	Dg, Dm	100.0
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<i>Anthoxanthum odoratum</i> s. l.	Dg	100.0
<i>Solidago virgaurea</i>	Dg	82.0
<i>Luzula alpino-pilosa</i>	Dg	73.0
<i>Geum montanum</i>	Dg	73.0
<i>Festuca picta</i>	Dg, Dm	73.0
<i>Soldanella carpatica</i>	Dg	64.0
<i>Primula elatior</i>	Dg	64.0
<i>Potentilla aurea</i>	Dg	64.0
<i>Geranium sylvaticum</i>	Dg	64.0
<i>Alchemilla vulgaris</i> s. l.	Dg	64.0
<i>Rumex alpestris</i>	Dg	55.0
<i>Luzula luzuloides</i>	Dg	55.0
<i>Homogyne alpina</i>	Dg	55.0
<i>Campanula polymorpha</i>	Dg	55.0
<i>Polygonum bistorta</i>		55.0
<i>Vaccinium myrtillus</i>		45.0
<i>Phyteuma spicatum</i>	Dg	45.0
<i>Deschampsia caespitosa</i>		45.0
<i>Deschampsia flexuosa</i>	Dm	45.0
Dominant species (7):		
<i>Mutellina purpurea</i>	Dg, C	18.0
<i>Festuca picta</i>	Dg, C	18.0
<i>Nardus stricta</i>		9.0
<i>Chaerophyllum hirsutum</i>		9.0
<i>Deschampsia flexuosa</i>	C	9.0
<i>Athyrium distentifolium</i>		9.0
<i>Agrostis capillaris</i>		9.0

AF Class

CARICI RUPESTRIS-KOBRESIETEA BELLARDII

Arctic-alpine grasslands and heaths of windward ridges and edges on neutral soil

Number of relevés: 8

Diagnostic species (42):

<i>Ranunculus oreophilus</i>	C	87.8
<i>Anemone narcissiflora</i>	C	86.2
<i>Pulsatilla alba</i>	C	86.1
<i>Rhodiola rosea</i>	C	84.4
<i>Bartsia alpina</i>	C	76.8
<i>Saxifraga paniculata</i>	C	71.1
<i>Polytrichastrum alpinum</i>	C	69.2
<i>Galium anisophyllum</i>	C	69.1
<i>Hylocomium splendens</i>	C, Dm	61.3
<i>Luzula alpino-pilosa</i>	C	58.3
<i>Dianthus superbus</i>	C	57.3
<i>Hieracium bifidum</i>		56.0
<i>Tortella tortuosa</i>	C	55.4
<i>Festuca versicolor</i>	C, Dm	55.1
<i>Huperzia selago</i>	C	53.8

<i>Campanula polymorpha</i>	C	53.5
<i>Soldanella carpatica</i>	C	48.3
<i>Cetraria islandica</i>	C, Dm	47.9
<i>Polygonum bistorta</i>	C	47.9
<i>Alchemilla pyrenaica</i>		47.9
<i>Salix silesiaca</i>	C	45.6
<i>Carex atrata</i>		44.5
<i>Parnassia palustris</i>	C	43.7
<i>Niphotrichum canescens</i>	C	43.4
<i>Cardaminopsis arenosa</i>	C	40.7
<i>Phyteuma orbiculare</i>	C	40.0
<i>Solidago virgaurea</i>	C	39.9
<i>Rhytidiadelphus triquetrus</i>		39.0
<i>Viola biflora</i>		38.4
<i>Cerastium alpinum</i>		37.9
<i>Vaccinium vitis-idaea</i>	C	36.8
<i>Oxyria digyna</i>		35.0
<i>Achillea millefolium</i> agg.	C	34.4
<i>Sphagnum capillifolium</i> s. l.		33.7
<i>Leucanthemum vulgare</i>	C	31.4
<i>Festuca airoides</i>		30.6
<i>Mutellina purpurea</i>	C	29.2
<i>Valeriana tripteris</i>		29.1
<i>Vaccinium myrtillus</i>	C	28.5
<i>Selaginella selaginoides</i>		28.4
<i>Distichium capillaceum</i>		28.0
<i>Hypnum cupressiforme</i> agg.		26.5

Constant species (29):

<i>Rhodiola rosea</i>	Dg	100.0
<i>Pulsatilla alba</i>	Dg	100.0
<i>Galium anisophyllum</i>	Dg	100.0
<i>Bartsia alpina</i>	Dg	100.0
<i>Anemone narcissiflora</i>	Dg	100.0
<i>Achillea millefolium</i> agg.	Dg	100.0
<i>Vaccinium vitis-idaea</i>	Dg	88.0
<i>Vaccinium myrtillus</i>	Dg	88.0
<i>Solidago virgaurea</i>	Dg	88.0
<i>Saxifraga paniculata</i>	Dg	88.0
<i>Ranunculus oreophilus</i>	Dg	88.0
<i>Polytrichastrum alpinum</i>	Dg	88.0
<i>Luzula alpino-pilosa</i>	Dg	88.0
<i>Hylocomium splendens</i>	Dg, Dm	88.0
<i>Campanula polymorpha</i>	Dg	88.0
<i>Polygonum bistorta</i>	Dg	88.0
<i>Soldanella carpatica</i>	Dg	75.0
<i>Huperzia selago</i>	Dg	75.0
<i>Cetraria islandica</i>	Dg, Dm	75.0
<i>Tortella tortuosa</i>	Dg	62.0
<i>Salix silesiaca</i>	Dg	62.0
<i>Festuca versicolor</i>	Dg, Dm	62.0

<i>Cardaminopsis arenosa</i>	Dg	62.0
<i>Niphotrichum canescens</i>	Dg	50.0
<i>Phyteuma orbiculare</i>	Dg	50.0
<i>Parnassia palustris</i>	Dg	50.0
<i>Mutellina purpurea</i>	Dg	50.0
<i>Leucanthemum vulgare</i>	Dg	50.0
<i>Dianthus superbus</i>	Dg	50.0

Dominant species (3):

<i>Festuca versicolor</i>	Dg, C	50.0
<i>Hylocomium splendens</i>	Dg, C	12.0
<i>Cetraria islandica</i>	Dg, C	12.0

AFA Alliance

Festucion versicoloris

Alpine grassy communities on steep terraced slopes and stable screes on mylonites

Number of relevés: 8

Diagnostic species (38):

<i>Anemone narcissiflora</i>	C	82.9
<i>Pulsatilla alba</i>	C	81.0
<i>Ranunculus oreophilus</i>	C	78.2
<i>Rhodiola rosea</i>	C	74.0
<i>Polytrichastrum alpinum</i>	C	67.9
<i>Bartsia alpina</i>	C	63.0
<i>Galium anisophyllum</i>	C	55.9
<i>Hieracium bifidum</i>		52.3
<i>Saxifraga paniculata</i>	C	50.8
<i>Luzula alpino-pilosa</i>	C	48.5
<i>Huperzia selago</i>	C	47.9
<i>Dianthus superbus</i>	C	47.9
<i>Tortella tortuosa</i>	C	45.0
<i>Festuca versicolor</i>	C, Dm	44.8
<i>Hylocomium splendens</i>	C, Dm	43.5
<i>Campanula polymorpha</i>	C	42.9
<i>Cetraria islandica</i>	C, Dm	39.6
<i>Carex atrata</i>		39.3
<i>Oxyria digyna</i>		35.3
<i>Salix silesiaca</i>	C	34.2
<i>Soldanella carpatica</i>	C	34.1
<i>Phyteuma orbiculare</i>	C	32.0
<i>Niphotrichum canescens</i>	C	31.8
<i>Cerastium alpinum</i>		31.1
<i>Cardaminopsis arenosa</i>	C	30.5
<i>Parnassia palustris</i>	C	30.1
<i>Polygonum bistorta</i>	C	29.8
<i>Vaccinium vitis-idaea</i>	C	27.6
<i>Solidago virgaurea</i>	C	26.5
<i>Rhytidadelphus triquetrus</i>		25.4
<i>Festuca airoides</i>		24.9

<i>Distichium capillaceum</i>		23.9
<i>Valeriana tripteris</i>		22.0
<i>Sphagnum capillifolium</i> s. l.		21.9
<i>Selaginella selaginoides</i>		20.4
<i>Viola biflora</i>		20.3
<i>Mutellina purpurea</i>	C	20.3
<i>Vaccinium myrtillus</i>	C	18.8
Constant species (29):		
<i>Rhodiola rosea</i>	Dg	100.0
<i>Pulsatilla alba</i>	Dg	100.0
<i>Galium anisophyllum</i>	Dg	100.0
<i>Bartsia alpina</i>	Dg	100.0
<i>Anemone narcissiflora</i>	Dg	100.0
<i>Achillea millefolium</i> agg.		100.0
<i>Vaccinium vitis-idaea</i>	Dg	88.0
<i>Vaccinium myrtillus</i>	Dg	88.0
<i>Solidago virgaurea</i>	Dg	88.0
<i>Saxifraga paniculata</i>	Dg	88.0
<i>Ranunculus oreophilus</i>	Dg	88.0
<i>Polytrichastrum alpinum</i>	Dg	88.0
<i>Luzula alpino-pilosa</i>	Dg	88.0
<i>Hylocomium splendens</i>	Dg, Dm	88.0
<i>Campanula polymorpha</i>	Dg	88.0
<i>Polygonum bistorta</i>	Dg	88.0
<i>Soldanella carpatica</i>	Dg	75.0
<i>Huperzia selago</i>	Dg	75.0
<i>Cetraria islandica</i>	Dg, Dm	75.0
<i>Tortella tortuosa</i>	Dg	62.0
<i>Salix silesiaca</i>	Dg	62.0
<i>Festuca versicolor</i>	Dg, Dm	62.0
<i>Cardaminopsis arenosa</i>	Dg	62.0
<i>Niphotrichum canescens</i>	Dg	50.0
<i>Phyteuma orbiculare</i>	Dg	50.0
<i>Parnassia palustris</i>	Dg	50.0
<i>Mutellina purpurea</i>	Dg	50.0
<i>Leucanthemum vulgare</i>		50.0
<i>Dianthus superbus</i>	Dg	50.0
Dominant species (3):		
<i>Festuca versicolor</i>	Dg, C	50.0
<i>Hylocomium splendens</i>	Dg, C	12.0
<i>Cetraria islandica</i>	Dg, C	12.0

DA Class**AMMOPHILETEA ARENARIAE**

Vegetation of moving and fixed dominated by rhizomatous grasses, sedges and dwarf shrubs

Number of relevés: 186

Diagnostic species (25):

<i>Ammophila arenaria</i>	C	64.9
<i>Carex arenaria</i>	C	51.7
<i>Juncus balticus</i>		39.7
<i>Artemisia campestris</i> subsp. <i>sericea</i>		38.7
<i>Corynephorus canescens</i>	C	36.5
<i>Hypogymnia physodes</i>		35.3
<i>Hieracium umbellatum</i>		30.5
<i>Juncus articulatus</i> subsp. <i>litoralis</i>		29.9
<i>Linaria odora</i>		29.7
<i>Cladonia scabriuscula</i>		29.7
<i>Festuca polesica</i>		29.3
<i>Lathyrus japonicus</i> subsp. <i>maritimus</i>		29.0
<i>Salix repens</i> s. l.		28.1
<i>Eryngium maritimum</i>		28.1
<i>Cladonia pleurota</i> s. l.		27.7
<i>Leymus arenarius</i>		27.6
<i>Jasione montana</i>		27.6
<i>Empetrum nigrum</i> s. l.		25.2
× <i>Calammophila baltica</i>		24.8
<i>Cladonia macilenta</i> s. l.		23.6
<i>Cladonia portentosa</i>		23.2
<i>Pohlia nutans</i>		21.4
<i>Cladonia chlorophaea</i>		21.3
<i>Cephaloziella divaricata</i>		20.2
<i>Platismatia glauca</i>		18.5

Constant species (4):

<i>Ammophila arenaria</i>	Dg	76.0
<i>Festuca rubra</i> agg.		49.0
<i>Corynephorus canescens</i>	Dg	46.0
<i>Carex arenaria</i>	Dg	43.0

Dominant species (1):

<i>Polytrichum commune</i>		6.0
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DAA Alliance***Ammophilion arenariae***

Vegetation of young to fixed dunes around the Atlantic coast of Europe

Number of relevés: 127

Diagnostic species (19):

<i>Ammophila arenaria</i>	C	45.9
<i>Festuca polesica</i>		35.0

<i>Lathyrus japonicus</i> subsp. <i>maritimus</i>		32.8
<i>Linaria odora</i>		31.9
<i>Artemisia campestris</i> subsp. <i>sericea</i>		30.2
<i>Hypogymnia physodes</i>		27.2
<i>Leymus arenarius</i>	C	25.1
<i>Corynephorus canescens</i>	C	23.6
<i>Cladonia scabriuscula</i>		23.4
× <i>Calammophila baltica</i>		23.2
<i>Platismatia glauca</i>		22.5
<i>Hieracium umbellatum</i>	C	21.6
<i>Cephaloziella divaricata</i>		21.6
<i>Jasione montana</i>		20.4
<i>Cladonia macilenta</i> s. l.		20.2
<i>Cladonia pleurota</i> s. l.		19.5
<i>Eryngium maritimum</i>		19.1
<i>Cladonia portentosa</i>		19.1
<i>Cladonia chlorophaea</i>		18.6

Constant species (5):

<i>Ammophila arenaria</i>	Dg	83.0
<i>Festuca rubra</i> agg.		59.0
<i>Hieracium umbellatum</i>	Dg	50.0
<i>Corynephorus canescens</i>	Dg	48.0
<i>Leymus arenarius</i>	Dg	41.0

Dominant species (0):

DAB Alliance

Agropyro-Minuartion peploidis

Pioneer vegetation of coastal foredunes

Number of relevés: 12

Diagnostic species (7):

<i>Petasites spurius</i>	C	67.7
<i>Leymus arenarius</i>	C, Dm	62.9
<i>Elymus farctus</i>	C	57.8
<i>Honckenya peploides</i>	C	53.0
× <i>Calammophila baltica</i>	C	48.8
<i>Ammophila arenaria</i>	C, Dm	41.6
<i>Cakile maritima</i>		20.9

Constant species (7):

<i>Leymus arenarius</i>	Dg, Dm	100.0
<i>Petasites spurius</i>	Dg	92.0
<i>Honckenya peploides</i>	Dg	75.0
<i>Festuca rubra</i> agg.		75.0
<i>Ammophila arenaria</i>	Dg, Dm	75.0
× <i>Calammophila baltica</i>	Dg	67.0
<i>Elymus farctus</i>	Dg	42.0

Dominant species (2):

<i>Leymus arenarius</i>	Dg, C	17.0
<i>Ammophila arenaria</i>	Dg, C	8.0

DAC Alliance***Juncion baltici***

Vegetation of active deflation hollows

Number of relevés: 47

Diagnostic species (17):

<i>Juncus balticus</i>	C	81.2
<i>Juncus articulatus</i> subsp. <i>litoralis</i>		60.0
<i>Carex arenaria</i>	C	47.5
<i>Salix repens</i> s. l.	C	43.7
<i>Empetrum nigrum</i> s. l.	C	33.4
<i>Ammophila arenaria</i>	C	32.8
<i>Lycopodiella inundata</i>		32.1
<i>Gymnocolea inflata</i>		30.4
<i>Polytrichum commune</i>	C, Dm	28.1
<i>Corynephorus canescens</i>	C	25.2
<i>Cephalozia connivens</i>		25.2
<i>Drosera anglica</i>		24.5
<i>Cephalozia bicuspidata</i>		23.2
<i>Agrostis stolonifera</i>	C	22.8
<i>Pohlia nutans</i>	C, Dm	22.4
<i>Salix aurita</i>		20.6
<i>Lophozia capitata</i>		20.6

Constant species (10):

<i>Carex arenaria</i>	Dg	89.0
<i>Juncus balticus</i>	Dg	70.0
<i>Agrostis stolonifera</i>	Dg	68.0
<i>Salix repens</i> s. l.	Dg	66.0
<i>Ammophila arenaria</i>	Dg	60.0
<i>Polytrichum commune</i>	Dg, Dm	55.0
<i>Pohlia nutans</i>	Dg, Dm	53.0
<i>Corynephorus canescens</i>	Dg	51.0
<i>Empetrum nigrum</i> s. l.	Dg	45.0
<i>Calluna vulgaris</i>	Dm	45.0

Dominant species (3):

<i>Polytrichum commune</i>	Dg, C	32.0
<i>Calluna vulgaris</i>	C	11.0
<i>Pohlia nutans</i>	Dg, C	26.0

DB Class**CAKILETEA MARITIMAE**

Pioneer vegetation, mostly of nitrophilous summer annuals, on nutrient-rich detritus of strandlines on sand and shingle beaches

Number of relevés: 10

Diagnostic species (12):

<i>Salsola kali</i>	C	98.6
<i>Cakile maritima</i>	C, Dm	95.8
<i>Leymus arenarius</i>	C	85.4
<i>Honckenya peploides</i>	C	79.4
× <i>Calammophila baltica</i>	C	69.6
<i>Petasites spurius</i>	C	67.6
<i>Ammophila arenaria</i>	C	41.6
<i>Atriplex littoralis</i>		28.3
<i>Elymus farctus</i>		27.6
<i>Festuca rubra</i> agg.	C	27.3
<i>Helianthus annuus</i>		23.8
<i>Atriplex prostrata</i> s. l.		20.6

Constant species (8):

<i>Salsola kali</i>	Dg	100.0
<i>Leymus arenarius</i>	Dg	100.0
<i>Cakile maritima</i>	Dg, Dm	100.0
<i>Honckenya peploides</i>	Dg	80.0
<i>Festuca rubra</i> agg.	Dg	70.0
× <i>Calammophila baltica</i>	Dg	70.0
<i>Petasites spurius</i>	Dg	60.0
<i>Ammophila arenaria</i>	Dg	50.0

Dominant species (1):

<i>Cakile maritima</i>	Dg, C	10.0
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DBA Alliance***Atriplicion littoralis***

Communities of shingle or strand lines sometimes mixed with but not covered by sand

Number of relevés: 10

Diagnostic species (9):

<i>Cakile maritima</i>	C, Dm	85.8
<i>Salsola kali</i>	C	84.2
<i>Leymus arenarius</i>	C	62.9
<i>Honckenya peploides</i>	C	56.6
× <i>Calammophila baltica</i>	C	51.3
<i>Petasites spurius</i>	C	44.0
<i>Ammophila arenaria</i>	C	27.3
<i>Atriplex littoralis</i>		26.8
<i>Helianthus annuus</i>		23.1

Constant species (8):

<i>Salsola kali</i>	Dg	100.0
<i>Leymus arenarius</i>	Dg	100.0
<i>Cakile maritima</i>	Dg, Dm	100.0
<i>Honckenya peploides</i>	Dg	80.0
<i>Festuca rubra</i> agg.		70.0
× <i>Calammophila baltica</i>	Dg	70.0
<i>Petasites spurius</i>	Dg	60.0
<i>Ammophila arenaria</i>	Dg	50.0

Dominant species (1):

<i>Cakile maritima</i>	Dg, C	10.0
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TB Class***THERO-SALICORNIETEA STRICTAE***

Vegetation of annual succulent halophytes

Number of relevés: 15

Diagnostic species (8):

<i>Salicornia europaea</i>	C, Dm	96.7
<i>Puccinellia distans</i>	C, Dm	75.5
<i>Atriplex prostrata</i> s. l.	C	53.2
<i>Spergularia salina</i>	C	51.3
<i>Aster tripolium</i>		35.5
<i>Sonchus oleraceus</i>		34.9
<i>Atriplex nitens</i>		30.7
<i>Lepidium ruderales</i>		28.9

Constant species (4):

<i>Salicornia europaea</i>	Dg, Dm	100.0
<i>Puccinellia distans</i>	Dg, Dm	93.0
<i>Atriplex prostrata</i> s. l.	Dg	73.0
<i>Spergularia salina</i>	Dg	47.0

Dominant species (2):

<i>Salicornia europaea</i>	Dg, C	47.0
<i>Puccinellia distans</i>	Dg, C	33.0

TBA Alliance***Salicornion prostratae***

Inland salt marshes with annual succulent halophytes

Number of relevés: 15

Diagnostic species (7):

<i>Salicornia europaea</i>	C, Dm	91.9
<i>Puccinellia distans</i>	C, Dm	59.7
<i>Atriplex prostrata</i> s. l.	C	40.3
<i>Spergularia salina</i>	C	39.3
<i>Aster tripolium</i>		29.1
<i>Atriplex nitens</i>		22.4

<i>Sonchus oleraceus</i>		19.0
Constant species (4):		
<i>Salicornia europaea</i>	Dg, Dm	100.0
<i>Puccinellia distans</i>	Dg, Dm	93.0
<i>Atriplex prostrata</i> s. l.	Dg	73.0
<i>Spergularia salina</i>	Dg	47.0
Dominant species (2):		
<i>Salicornia europaea</i>	Dg, C	47.0
<i>Puccinellia distans</i>	Dg, C	33.0
TC Class		
FESTUCO-PUCCINELLIETEA		
Saline grasslands		
Number of relevés: 136		
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Diagnostic species (29):		
<i>Triglochin maritimum</i>	C	66.5
<i>Glaux maritima</i>		60.8
<i>Juncus compressus</i>	C	54.6
<i>Trifolium fragiferum</i>		47.7
<i>Agrostis stolonifera</i>	C, Dm	42.5
<i>Potentilla anserina</i>	C, Dm	41.2
<i>Puccinellia distans</i>	C, Dm	37.9
<i>Festuca arundinacea</i>		36.5
<i>Spergularia salina</i>		35.8
<i>Carex distans</i>		33.8
<i>Carex contigua</i> s. l.		33.2
<i>Carex secalina</i>		31.1
<i>Lotus tenuis</i>		30.4
<i>Eleocharis palustris</i> agg.		30.4
<i>Atriplex prostrata</i> s. l.	C	29.1
<i>Plantago intermedia</i>		28.9
<i>Schoenoplectus tabernaemontani</i>		28.3
<i>Poa subcaerulea</i>		27.3
<i>Bolboschoenus maritimus</i>		26.4
<i>Phragmites australis</i>	C	26.4
<i>Juncus ranarius</i>		25.1
<i>Triglochin palustre</i>		24.9
<i>Plantago maritima</i>		23.8
<i>Melilotus dentata</i>		23.2
<i>Carex disticha</i>		22.6
<i>Juncus gerardi</i>		22.2
<i>Taraxacum</i> sect. <i>Palustria</i>		21.5
<i>Blysmus compressus</i>		19.9
<i>Centaurium pulchellum</i>		19.9
Constant species (7):		
<i>Agrostis stolonifera</i>	Dg, Dm	59.0
<i>Potentilla anserina</i>	Dg, Dm	51.0

<i>Puccinellia distans</i>	Dg, Dm	49.0
<i>Triglochin maritimum</i>	Dg	45.0
<i>Phragmites australis</i>	Dg	43.0
<i>Juncus compressus</i>	Dg	43.0
<i>Atriplex prostrata</i> s. l.	Dg	42.0

Dominant species (3):

<i>Agrostis stolonifera</i>	Dg, C	8.0
<i>Puccinellia distans</i>	Dg, C	5.0
<i>Potentilla anserina</i>	Dg, C	5.0

TCA Alliance

Puccinellion limosae

Intermittently dry saline grasslands

Number of relevés: 48

Diagnostic species (11):

<i>Spergularia salina</i>	C, Dm	74.4
<i>Puccinellia distans</i>	C, Dm	62.6
<i>Atriplex prostrata</i> s. l.	C, Dm	42.4
<i>Glaux maritima</i>	Dm	38.6
<i>Triglochin maritimum</i>		29.5
<i>Aster tripolium</i>	Dm	27.2
<i>Lotus tenuis</i>		26.8
<i>Plantago maritima</i>		22.7
<i>Juncus compressus</i>		20.2
<i>Plantago intermedia</i>		18.5
<i>Juncus gerardi</i>		18.1

Constant species (4):

<i>Puccinellia distans</i>	Dg, Dm	98.0
<i>Spergularia salina</i>	Dg, Dm	88.0
<i>Atriplex prostrata</i> s. l.	Dg, Dm	77.0
<i>Phragmites australis</i>		42.0

Dominant species (7):

<i>Puccinellia distans</i>	Dg, C	15.0
<i>Spergularia salina</i>	Dg, C	6.0
<i>Glaux maritima</i>	Dg	6.0
<i>Bolboschoenus maritimus</i>		6.0
<i>Atriplex prostrata</i> s. l.	Dg, C	6.0
<i>Salicornia europaea</i>		4.0
<i>Aster tripolium</i>	Dg	4.0

TCB Alliance***Juncion gerardii***

Mesic and wet saline grasslands

Number of relevés: 88

Diagnostic species (14):

<i>Triglochin maritimum</i>	C	60.0
<i>Glaux maritima</i>		46.2
<i>Trifolium fragiferum</i>	Dm	43.3
<i>Juncus compressus</i>	C	33.9
<i>Carex secalina</i>		33.8
<i>Carex distans</i>		26.5
<i>Festuca arundinacea</i>	Dm	25.7
<i>Potentilla anserina</i>	C, Dm	25.8
<i>Poa subcaerulea</i>		25.6
<i>Agrostis stolonifera</i>	C, Dm	24.5
<i>Carex contigua</i> s. l.		23.4
<i>Eleocharis palustris</i> agg.	C	19.5
<i>Schoenoplectus tabernaemontani</i>		18.7
<i>Carex disticha</i>		18.2

Constant species (6):

<i>Agrostis stolonifera</i>	Dg, Dm	74.0
<i>Potentilla anserina</i>	Dg, Dm	68.0
<i>Triglochin maritimum</i>	Dg	54.0
<i>Juncus compressus</i>	Dg	53.0
<i>Phragmites australis</i>	Dm	45.0
<i>Eleocharis palustris</i> agg.	Dg	43.0

Dominant species (5):

<i>Agrostis stolonifera</i>	Dg, C	11.0
<i>Potentilla anserina</i>	Dg, C	8.0
<i>Trifolium fragiferum</i>	Dg	5.0
<i>Phragmites australis</i>	C	5.0
<i>Festuca arundinacea</i>	Dg	5.0

TD Class***MOLINIO-ARRHENATHERETEA***

Meadows and mesic pastures

Number of relevés: 5863

Diagnostic species (33):

<i>Rumex acetosa</i>	C	35.9
<i>Ranunculus acris</i>	C	34.8
<i>Holcus lanatus</i>	C	33.2
<i>Festuca pratensis</i>		32.9
<i>Lychnis flos-cuculi</i>		32.7
<i>Lathyrus pratensis</i>		32.5
<i>Sanguisorba officinalis</i>		31.8
<i>Alopecurus pratensis</i>		31.6

<i>Lotus uliginosus</i>		29.9
<i>Campanula patula</i>		25.3
<i>Cirsium rivulare</i>		24.5
<i>Galium uliginosum</i>		24.3
<i>Stellaria graminea</i>		24.2
<i>Phleum pratense</i>		23.8
<i>Plantago lanceolata</i>	C	23.4
<i>Selinum carvifolia</i>		22.8
<i>Trifolium pratense</i> s. l.		22.6
<i>Trisetum flavescens</i>		22.5
<i>Vicia cracca</i>		22.0
<i>Angelica sylvestris</i>		22.0
<i>Centaurea jacea</i> s. l.		21.8
<i>Equisetum palustre</i>		21.7
<i>Carex panicea</i>		21.2
<i>Filipendula ulmaria</i>		20.9
<i>Cerastium holosteoides</i>		20.1
<i>Alchemilla vulgaris</i> s. l.		19.7
<i>Deschampsia caespitosa</i>	C	19.6
<i>Ranunculus repens</i>		18.9
<i>Ranunculus auricomus</i> agg.		18.7
<i>Cynosurus cristatus</i>		18.6
<i>Achillea ptarmica</i>		18.4
<i>Festuca rubra</i> agg.	C	18.2
<i>Geum rivale</i>		18.1

Constant species (8):

<i>Ranunculus acris</i>	Dg	57.0
<i>Rumex acetosa</i>	Dg	56.0
<i>Festuca rubra</i> agg.	Dg	50.0
<i>Deschampsia caespitosa</i>	Dg	49.0
<i>Achillea millefolium</i> agg.		46.0
<i>Holcus lanatus</i>	Dg	44.0
<i>Anthoxanthum odoratum</i> s. l.		42.0
<i>Plantago lanceolata</i>	Dg	41.0

Dominant species (1):

<i>Molinia caerulea</i> s. l.		4.0
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TDA Alliance

Arrhenatherion elatioris

Lowland to submontane mesic meadows

Number of relevés: 1152

Diagnostic species (4):

<i>Trisetum flavescens</i>		29.0
<i>Campanula patula</i>	C	25.7
<i>Plantago lanceolata</i>	C	18.2
<i>Arrhenatherum elatius</i>	C, Dm	18.1

Constant species (21):

<i>Achillea millefolium</i> agg.		80.0
<i>Dactylis glomerata</i>		73.0
<i>Plantago lanceolata</i>	Dg	72.0
<i>Veronica chamaedrys</i>		66.0
<i>Festuca rubra</i> agg.		66.0
<i>Rumex acetosa</i>		64.0
<i>Galium mollugo</i> agg.		64.0
<i>Ranunculus acris</i>		60.0
<i>Anthoxanthum odoratum</i> s. l.		57.0
<i>Agrostis capillaris</i>		57.0
<i>Poa pratensis</i> s. l.		51.0
<i>Campanula patula</i>	Dg	50.0
<i>Vicia cracca</i>		49.0
<i>Arrhenatherum elatius</i>	Dg, Dm	49.0
<i>Leucanthemum vulgare</i>		47.0
<i>Trifolium pratense</i> s. l.		46.0
<i>Taraxacum</i> sect. <i>Ruderalia</i>		45.0
<i>Alchemilla vulgaris</i> s. l.		45.0
<i>Festuca pratensis</i>		43.0
<i>Pimpinella saxifraga</i>		41.0
<i>Holcus lanatus</i>		41.0

Dominant species (1):

<i>Arrhenatherum elatius</i>	Dg, C	4.0
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TDB Alliance***Polygono bistortae-Trisetion flavescens***

Montane mesic meadows

Number of relevés: 395

Diagnostic species (12):

<i>Cardaminopsis halleri</i>	C	41.2
<i>Crepis mollis</i>		32.0
<i>Hypericum maculatum</i>	C	28.8
<i>Campanula patula</i>	C	28.6
<i>Trisetum flavescens</i>		25.0
<i>Alchemilla vulgaris</i> s. l.	C	24.2
<i>Stellaria graminea</i>	C	22.8
<i>Meum athamanticum</i>		20.5
<i>Ranunculus acris</i>	C	20.0
<i>Phyteuma spicatum</i>	C	19.8
<i>Rumex acetosa</i>	C	19.6
<i>Agrostis capillaris</i>	C, Dm	19.3

Constant species (19):

<i>Agrostis capillaris</i>	Dg, Dm	87.0
<i>Festuca rubra</i> agg.	Dm	85.0
<i>Hypericum maculatum</i>	Dg	83.0
<i>Veronica chamaedrys</i>		74.0

<i>Ranunculus acris</i>	Dg	73.0
<i>Alchemilla vulgaris</i> s. l.	Dg	73.0
<i>Rumex acetosa</i>	Dg	71.0
<i>Achillea millefolium</i> agg.		70.0
<i>Anthoxanthum odoratum</i> s. l.		62.0
<i>Campanula patula</i>	Dg	55.0
<i>Stellaria graminea</i>	Dg	52.0
<i>Cardaminopsis halleri</i>	Dg	52.0
<i>Plantago lanceolata</i>		50.0
<i>Luzula campestris</i> agg.		49.0
<i>Potentilla erecta</i>		44.0
<i>Dactylis glomerata</i>		44.0
<i>Vicia cracca</i>		43.0
<i>Phyteuma spicatum</i>	Dg	41.0
<i>Deschampsia caespitosa</i>	Dm	41.0
Dominant species (3):		
<i>Festuca rubra</i> agg.	C	7.0
<i>Agrostis capillaris</i>	Dg, C	6.0
<i>Deschampsia caespitosa</i>	C	4.0

TDC Alliance

Cynosurion cristati

Mesic pastures and perennial grasslands of trampled habitats

Number of relevés: 537

Diagnostic species (6):

<i>Lolium perenne</i>	C, Dm	32.1
<i>Cynosurus cristatus</i>		27.9
<i>Bellis perennis</i>		23.4
<i>Trifolium repens</i>	C	23.0
<i>Leontodon autumnalis</i>	C	22.1
<i>Plantago major</i> s. l.	C	19.8

Constant species (11):

<i>Trifolium repens</i>	Dg	72.0
<i>Taraxacum</i> sect. <i>Ruderalia</i>		68.0
<i>Achillea millefolium</i> agg.		64.0
<i>Lolium perenne</i>	Dg, Dm	62.0
<i>Plantago lanceolata</i>		53.0
<i>Plantago major</i> s. l.	Dg	49.0
<i>Agrostis capillaris</i>		47.0
<i>Dactylis glomerata</i>		44.0
<i>Leontodon autumnalis</i>	Dg	42.0
<i>Cerastium holosteoides</i>		42.0
<i>Ranunculus repens</i>		41.0

Dominant species (1):

<i>Lolium perenne</i>	Dg, C	5.0
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TDD Alliance***Molinia caerulea***

Intermittently wet, nutrient-poor meadows

Number of relevés: 731

Diagnostic species (15):

<i>Succisa pratensis</i>	C	40.1
<i>Selinum carvifolia</i>	C	39.0
<i>Molinia caerulea</i> s. l.	C, Dm	32.0
<i>Ophioglossum vulgatum</i>		30.3
<i>Carex hartmanii</i>		25.6
<i>Serratula tinctoria</i>		24.1
<i>Carex panicea</i>	C	24.0
<i>Sanguisorba officinalis</i>	C	23.6
<i>Gentiana pneumonanthe</i>		22.0
<i>Centaurea jacea</i> s. l.	C	21.2
<i>Galium boreale</i>		20.8
<i>Galium uliginosum</i>		18.8
<i>Lotus uliginosus</i>		18.7
<i>Silaum silaus</i>		18.5
<i>Betonica officinalis</i>		18.1

Constant species (17):

<i>Molinia caerulea</i> s. l.	Dg, Dm	89.0
<i>Deschampsia caespitosa</i>		64.0
<i>Potentilla erecta</i>		62.0
<i>Succisa pratensis</i>	Dg	57.0
<i>Ranunculus acris</i>		54.0
<i>Festuca rubra</i> agg.		53.0
<i>Carex panicea</i>	Dg	53.0
<i>Selinum carvifolia</i>	Dg	52.0
<i>Holcus lanatus</i>		51.0
<i>Centaurea jacea</i> s. l.	Dg	51.0
<i>Rumex acetosa</i>		45.0
<i>Achillea millefolium</i> agg.		45.0
<i>Briza media</i>		45.0
<i>Sanguisorba officinalis</i>	Dg	42.0
<i>Lychnis flos-cuculi</i>		42.0
<i>Vicia cracca</i>		41.0
<i>Anthoxanthum odoratum</i> s. l.		41.0

Dominant species (1):

<i>Molinia caerulea</i> s. l.	Dg, C	26.0
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TDI Alliance***Cnidion venosi***

Continental alluvial meadows

Number of relevés: 208

Diagnostic species (13):

<i>Allium angulosum</i>	C	54.8
<i>Cnidium dubium</i>	C	47.4
<i>Sanguisorba officinalis</i>	C	32.3
<i>Alopecurus pratensis</i>	C	31.3
<i>Galium boreale</i>	C	25.7
<i>Lathyrus pratensis</i>	C	25.5
<i>Silaum silaus</i>		25.3
<i>Gratiola officinalis</i>		25.0
<i>Potentilla reptans</i>	C	22.8
<i>Scutellaria hastifolia</i>		20.7
<i>Vicia cracca</i>	C	19.4
<i>Viola stagnina</i>		18.4
<i>Serratula tinctoria</i>		18.3

Constant species (14):

<i>Alopecurus pratensis</i>	Dg	74.0
<i>Poa pratensis</i> s. l.		68.0
<i>Lathyrus pratensis</i>	Dg	66.0
<i>Vicia cracca</i>	Dg	63.0
<i>Deschampsia caespitosa</i>		61.0
<i>Sanguisorba officinalis</i>	Dg	56.0
<i>Rumex acetosa</i>		55.0
<i>Ranunculus repens</i>		49.0
<i>Galium boreale</i>	Dg	49.0
<i>Potentilla reptans</i>	Dg	45.0
<i>Ranunculus acris</i>		44.0
<i>Cnidium dubium</i>	Dg	44.0
<i>Allium angulosum</i>	Dg	42.0
<i>Lychnis flos-cuculi</i>		41.0

Dominant species (0):**TDH Alliance*****Alopecurion pratensis***Alluvial *Alopecurus* meadows

Number of relevés: 541

Diagnostic species (6):

<i>Holcus lanatus</i>	C, Dm	28.5
<i>Alopecurus pratensis</i>	C, Dm	23.9
<i>Lychnis flos-cuculi</i>	C	21.7
<i>Festuca pratensis</i>	C	21.7
<i>Rumex acetosa</i>	C	21.6
<i>Ranunculus acris</i>	C	20.0

Constant species (18):

<i>Holcus lanatus</i>	Dg, Dm	82.0
<i>Rumex acetosa</i>	Dg	77.0
<i>Ranunculus acris</i>	Dg	73.0
<i>Ranunculus repens</i>		72.0
<i>Deschampsia caespitosa</i>	Dm	64.0
<i>Plantago lanceolata</i>		59.0
<i>Alopecurus pratensis</i>	Dg, Dm	57.0
<i>Lychnis flos-cuculi</i>	Dg	56.0
<i>Anthoxanthum odoratum</i> s. l.		56.0
<i>Poa pratensis</i> s. l.		55.0
<i>Festuca rubra</i> agg.		55.0
<i>Cerastium holosteoides</i>		55.0
<i>Taraxacum</i> sect. <i>Ruderalia</i>		52.0
<i>Festuca pratensis</i>	Dg	52.0
<i>Achillea millefolium</i> agg.		52.0
<i>Trifolium pratense</i> s. l.		45.0
<i>Poa trivialis</i>		43.0
<i>Trifolium repens</i>		42.0

Dominant species (3):

<i>Alopecurus pratensis</i>	Dg, C	5.0
<i>Holcus lanatus</i>	Dg, C	4.0
<i>Deschampsia caespitosa</i>	C	3.0

TDJ Alliance***Veronica longifoliae-Lysimachion vulgaris***

Central European sub-continental tall-forb vegetation on alluvia of large rivers

Number of relevés: 15

Diagnostic species (12):

<i>Veronica longifolia</i>	C	73.7
<i>Thalictrum lucidum</i>	C	60.0
<i>Thalictrum flavum</i>		34.5
<i>Filipendula ulmaria</i>	C, Dm	27.2
<i>Populus xcanadensis</i>		25.6
<i>Symphytum officinale</i>	C	23.1
<i>Aster novi-belgii</i> s. l.	Dm	21.4
<i>Lysimachia vulgaris</i>	C	21.1
<i>Lythrum salicaria</i>	C	19.6
<i>Carex gracilis</i>		19.5
<i>Rumex palustris</i>		18.7
<i>Humulus lupulus</i>		18.3

Constant species (7):

<i>Veronica longifolia</i>	Dg	80.0
<i>Lysimachia vulgaris</i>	Dg	73.0
<i>Filipendula ulmaria</i>	Dg, Dm	73.0
<i>Lythrum salicaria</i>	Dg	60.0
<i>Thalictrum lucidum</i>	Dg	53.0

<i>Symphytum officinale</i>	Dg	47.0
<i>Phalaris arundinacea</i>		47.0

Dominant species (4):

<i>Filipendula ulmaria</i>	Dg, C	13.0
<i>Juncus effusus</i>		7.0
<i>Galium aparine</i>		7.0
<i>Aster novi-belgii</i> s. l.	Dg	7.0

TDF Alliance

Calthion palustris

Wet tall-herb meadows

Number of relevés: 2153

Diagnostic species (5):

<i>Scirpus sylvaticus</i>	C, Dm	22.6
<i>Lotus uliginosus</i>	C	22.6
<i>Cirsium rivulare</i>		21.0
<i>Lychnis flos-cuculi</i>	C	20.4
<i>Filipendula ulmaria</i>	C, Dm	19.9

Constant species (13):

<i>Ranunculus acris</i>		60.0
<i>Deschampsia caespitosa</i>		59.0
<i>Rumex acetosa</i>		57.0
<i>Filipendula ulmaria</i>	Dg, Dm	55.0
<i>Lychnis flos-cuculi</i>	Dg	53.0
<i>Myosotis palustris</i> agg.		48.0
<i>Holcus lanatus</i>		48.0
<i>Lotus uliginosus</i>	Dg	46.0
<i>Equisetum palustre</i>		45.0
<i>Ranunculus repens</i>		44.0
<i>Lathyrus pratensis</i>		44.0
<i>Angelica sylvestris</i>		42.0
<i>Scirpus sylvaticus</i>	Dg, Dm	41.0

Dominant species (2):

<i>Scirpus sylvaticus</i>	Dg, C	7.0
<i>Filipendula ulmaria</i>	Dg, C	4.0

TDG Alliance

Juncion effusi

Vegetation on wet siliceous disturbed soils with *Juncus effusus*

Number of relevés: 71

Diagnostic species (5):

<i>Epilobium palustre</i>	C	35.7
<i>Juncus effusus</i>	C, Dm	31.9
<i>Hydrocotyle vulgaris</i>		26.8
<i>Holcus lanatus</i>	C	20.7

<i>Lotus uliginosus</i>		19.4
Constant species (11):		
<i>Juncus effusus</i>	Dg, Dm	94.0
<i>Epilobium palustre</i>	Dg	82.0
<i>Deschampsia caespitosa</i>	Dm	72.0
<i>Holcus lanatus</i>	Dg	61.0
<i>Ranunculus repens</i>		55.0
<i>Festuca rubra</i> agg.		49.0
<i>Galium palustre</i> agg.		46.0
<i>Carex nigra</i>		46.0
<i>Lythrum salicaria</i>		45.0
<i>Lysimachia vulgaris</i>		42.0
<i>Cirsium palustre</i>		42.0
Dominant species (2):		
<i>Juncus effusus</i>	Dg, C	31.0
<i>Deschampsia caespitosa</i>	C	11.0
TDK Alliance		
<i>Potentillion anserinae</i>		
Trampled vegetation on wet irregularly inundated habitats		
Number of relevés: 60		
Diagnostic species (3):		
<i>Agrostis stolonifera</i>	C, Dm	32.0
<i>Alopecurus geniculatus</i>	Dm	21.8
<i>Atriplex tatarica</i>		20.4
Constant species (3):		
<i>Agrostis stolonifera</i>	Dg, Dm	93.0
<i>Ranunculus repens</i>		67.0
<i>Potentilla anserina</i>	Dm	47.0
Dominant species (3):		
<i>Agrostis stolonifera</i>	Dg, C	33.0
<i>Potentilla anserina</i>	C	3.0
<i>Alopecurus geniculatus</i>	Dg	3.0
TE Class		
<i>CALLUNO-ULICETEA</i>		
<i>Nardus</i> grasslands and heathlands		
Number of relevés: 698		
Diagnostic species (23):		
<i>Nardus stricta</i>	C, Dm	43.2
<i>Luzula campestris</i> agg.	C	37.5
<i>Polygala vulgaris</i> s. l.		35.7
<i>Potentilla erecta</i>	C	34.2
<i>Danthonia decumbens</i>		34.2

<i>Agrostis capillaris</i>	C	32.2
<i>Carex pilulifera</i>		32.1
<i>Hypericum maculatum</i>		29.8
<i>Stellaria graminea</i>		26.2
<i>Anthoxanthum odoratum</i> s. l.	C	24.9
<i>Campanula patula</i>		24.1
<i>Briza media</i>		23.2
<i>Festuca rubra</i> agg.	C	23.0
<i>Viola canina</i>		22.9
<i>Plantago lanceolata</i>		20.5
<i>Rumex acetosa</i>		19.8
<i>Veronica officinalis</i>		19.6
<i>Carlina acaulis</i>		19.6
<i>Carex pallescens</i>		19.1
<i>Dianthus deltoides</i>		19.0
<i>Hieracium pilosella</i> s. l.		19.8
<i>Thymus pulegioides</i>		18.7
<i>Calluna vulgaris</i>	Dm	18.2

Constant species (7):

<i>Agrostis capillaris</i>	Dg	70.0
<i>Nardus stricta</i>	Dg, Dm	62.0
<i>Festuca rubra</i> agg.	Dg	60.0
<i>Anthoxanthum odoratum</i> s. l.	Dg	60.0
<i>Potentilla erecta</i>	Dg	56.0
<i>Luzula campestris</i> agg.	Dg	53.0
<i>Achillea millefolium</i> agg.		46.0

Dominant species (4):

<i>Nardus stricta</i>	Dg, C	16.0
<i>Vaccinium myrtillus</i>		5.0
<i>Calluna vulgaris</i>	Dg	5.0
<i>Pleurozium schreberi</i>		4.0

TEA Alliance

Nardion strictae

Subalpine *Nardus* grasslands

Number of relevés: 56

Diagnostic species (9):

<i>Nardus stricta</i>	C, Dm	31.4
<i>Potentilla aurea</i>	C	29.2
<i>Homogyne alpina</i>	C	22.5
<i>Geum montanum</i>	C	22.4
<i>Hieracium atratum</i>		22.1
<i>Phleum rhaeticum</i>		22.0
<i>Campanula bohemica</i>		18.9
<i>Anastrophyllum minutum</i>		18.8
<i>Luzula luzuloides</i>	C	18.7

Constant species (9):

<i>Nardus stricta</i>	Dg, Dm	91.0
<i>Vaccinium myrtillus</i>	Dm	79.0
<i>Potentilla aurea</i>	Dg	66.0
<i>Homogyne alpina</i>	Dg	62.0
<i>Deschampsia flexuosa</i>		61.0
<i>Anthoxanthum odoratum</i> s. l.		59.0
<i>Luzula luzuloides</i>	Dg	52.0
<i>Agrostis capillaris</i>		48.0
<i>Geum montanum</i>	Dg	43.0

Dominant species (2):

<i>Nardus stricta</i>	Dg, C	34.0
<i>Vaccinium myrtillus</i>	C	9.0

TEB Alliance***Nardo strictae-Agrostion tenuis***Montane *Nardus* grasslands with alpine species

Number of relevés: 17

Diagnostic species (18):

<i>Carex pilulifera</i>	C	32.7
<i>Phyteuma spicatum</i>	C	32.0
<i>Hypericum maculatum</i>	C	30.7
<i>Nardus stricta</i>	C, Dm	30.3
<i>Veronica officinalis</i>	C	30.1
<i>Poa chaixii</i>	C	29.9
<i>Potentilla erecta</i>	C	27.8
<i>Cardaminopsis halleri</i>		27.7
<i>Campanula patula</i>	C	27.6
<i>Luzula luzuloides</i>	C	26.2
<i>Potentilla aurea</i>	C	23.1
<i>Hieracium lachenalii</i> s. l.	C	22.4
<i>Crepis mollis</i>		21.4
<i>Agrostis capillaris</i>	C	21.1
<i>Cruciata glabra</i>	C	20.7
<i>Allium victorialis</i>		19.4
<i>Picris hieracioides</i>		19.3
<i>Carlina acaulis</i>		18.1

Constant species (24):

<i>Potentilla erecta</i>	Dg	94.0
<i>Agrostis capillaris</i>	Dg	94.0
<i>Nardus stricta</i>	Dg, Dm	88.0
<i>Hypericum maculatum</i>	Dg	88.0
<i>Festuca rubra</i> agg.	Dm	82.0
<i>Veronica officinalis</i>	Dg	71.0
<i>Luzula luzuloides</i>	Dg	71.0
<i>Carex pilulifera</i>	Dg	71.0
<i>Ranunculus acris</i>		65.0

<i>Phyteuma spicatum</i>	Dg	65.0
<i>Vaccinium myrtillus</i>		59.0
<i>Cruciata glabra</i>	Dg	59.0
<i>Achillea millefolium</i> agg.		59.0
<i>Potentilla aurea</i>	Dg	53.0
<i>Luzula campestris</i> agg.		53.0
<i>Hieracium lachenalii</i> s. l.	Dg	53.0
<i>Campanula patula</i>	Dg	53.0
<i>Anthoxanthum odoratum</i> s. l.		53.0
<i>Veronica chamaedrys</i>		47.0
<i>Poa chaixii</i>	Dg	47.0
<i>Rumex acetosa</i>		41.0
<i>Leontodon hispidus</i>		41.0
<i>Gentiana asclepiadea</i>		41.0
<i>Alchemilla vulgaris</i> s. l.		41.0
Dominant species (4):		
<i>Nardus stricta</i>	Dg, C	29.0
<i>Festuca rubra</i> agg.	C	18.0
<i>Rubus idaeus</i>		6.0
<i>Holcus mollis</i>		6.0

TEC Alliance

Violion caninae

Nardus grasslands

Number of relevés: 304

Diagnostic species (15):

<i>Polygala vulgaris</i> s. l.	C	31.4
<i>Danthonia decumbens</i>	C	29.2
<i>Viola canina</i>		22.7
<i>Nardus stricta</i>	C, Dm	21.8
<i>Luzula campestris</i> agg.	C	21.0
<i>Thymus pulegioides</i>	C	20.2
<i>Briza media</i>	C	20.0
<i>Lotus corniculatus</i>	C	19.8
<i>Euphrasia rostkoviana</i>		19.8
<i>Stellaria graminea</i>	C	19.7
<i>Potentilla erecta</i>	C	19.2
<i>Campanula patula</i>		19.1
<i>Agrostis capillaris</i>	C	18.5
<i>Plantago lanceolata</i>	C	18.4
<i>Dianthus deltoides</i>		18.2

Constant species (25):

<i>Agrostis capillaris</i>	Dg	84.0
<i>Festuca rubra</i> agg.	Dm	81.0
<i>Anthoxanthum odoratum</i> s. l.		79.0
<i>Achillea millefolium</i> agg.		78.0
<i>Plantago lanceolata</i>	Dg	73.0
<i>Potentilla erecta</i>	Dg	67.0

<i>Luzula campestris</i> agg.	Dg	66.0
<i>Nardus stricta</i>	Dg, Dm	65.0
<i>Pimpinella saxifraga</i>		62.0
<i>Thymus pulegioides</i>	Dg	60.0
<i>Ranunculus acris</i>		56.0
<i>Briza media</i>	Dg	56.0
<i>Rumex acetosa</i>		53.0
<i>Lotus corniculatus</i>	Dg	52.0
<i>Leontodon hispidus</i>		52.0
<i>Hieracium pilosella</i> s. l.		51.0
<i>Veronica chamaedrys</i>		50.0
<i>Hypericum maculatum</i>		50.0
<i>Leucanthemum vulgare</i>		48.0
<i>Polygala vulgaris</i> s. l.	Dg	47.0
<i>Danthonia decumbens</i>	Dg	47.0
<i>Stellaria graminea</i>	Dg	45.0
<i>Alchemilla vulgaris</i> s. l.		45.0
<i>Trifolium repens</i>		44.0
<i>Knautia arvensis</i> agg.		44.0
Dominant species (2):		
<i>Nardus stricta</i>	Dg, C	13.0
<i>Festuca rubra</i> agg.	C	3.0

TED Alliance

Nardo strictae-Juncion squarrosi

Wet *Nardus* grasslands

Number of relevés: 69

Diagnostic species (5):

<i>Juncus squarrosus</i>	C	59.9
<i>Pedicularis sylvatica</i>		32.2
<i>Nardus stricta</i>	C, Dm	28.3
<i>Carex ovalis</i>		19.4
<i>Potentilla erecta</i>	C	18.6

Constant species (7):

<i>Nardus stricta</i>	Dg, Dm	83.0
<i>Potentilla erecta</i>	Dg	65.0
<i>Agrostis capillaris</i>		65.0
<i>Juncus squarrosus</i>	Dg	55.0
<i>Anthoxanthum odoratum</i> s. l.		45.0
<i>Carex nigra</i>		43.0
<i>Luzula campestris</i> agg.		42.0

Dominant species (1):

<i>Nardus stricta</i>	Dg, C	17.0
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TEE Alliance***Euphorbia cyparissiae-Callunetum vulgaris***

Dry lowland and colline heathlands

Number of relevés: 44

Diagnostic species (6):

<i>Carex ericetorum</i>		28.4
<i>Hieracium pilosella</i> s. l.	C	27.4
<i>Calluna vulgaris</i>	C, Dm	27.4
<i>Genista tinctoria</i>		18.2
<i>Agrostis vinealis</i>		18.1
<i>Polytrichum juniperinum</i>		18.0

Constant species (10):

<i>Hieracium pilosella</i> s. l.	Dg	98.0
<i>Calluna vulgaris</i>	Dg, Dm	77.0
<i>Rumex acetosella</i> s. l.		57.0
<i>Anthoxanthum odoratum</i> s. l.		48.0
<i>Agrostis capillaris</i>		48.0
<i>Achillea millefolium</i> agg.		48.0
<i>Euphorbia cyparissias</i>		45.0
<i>Hypericum perforatum</i>		43.0
<i>Festuca ovina</i> s. l.		43.0
<i>Calamagrostis epigejos</i>		41.0

Dominant species (5):

<i>Pleurozium schreberi</i>		16.0
<i>Calluna vulgaris</i>	Dg, C	14.0
<i>Pinus sylvestris</i>		7.0
<i>Juniperus communis</i>		5.0
<i>Hypnum jutlandicum</i>		5.0

TEF Alliance***Genisto pilosae-Vaccinietum***Submontane to subalpine *Vaccinium* heathlands

Number of relevés: 208

Diagnostic species (1):

<i>Carex pilulifera</i>	C	22.3
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Constant species (11):

<i>Vaccinium myrtillus</i>	Dm	78.0
<i>Agrostis capillaris</i>		59.0
<i>Potentilla erecta</i>		54.0
<i>Nardus stricta</i>	Dm	54.0
<i>Luzula campestris</i> agg.		49.0
<i>Festuca rubra</i> agg.		49.0
<i>Carex pilulifera</i>	Dg	49.0
<i>Calluna vulgaris</i>	Dm	48.0
<i>Pleurozium schreberi</i>	Dm	46.0

<i>Deschampsia flexuosa</i>	Dm	44.0
<i>Hypericum maculatum</i>		42.0

Dominant species (5):

<i>Nardus stricta</i>	C	19.0
<i>Vaccinium myrtillus</i>	C	14.0
<i>Calluna vulgaris</i>	C	13.0
<i>Pleurozium schreberi</i>	C	9.0
<i>Deschampsia flexuosa</i>	C	3.0

TF Class

KOELERIO-CORYNEPHORETEA

Pioneer vegetation of sandy and shallow soils

Number of relevés: 1131

Diagnostic species (35):

<i>Corynephorus canescens</i>	C	49.4
<i>Spergula morisonii</i>		45.2
<i>Veronica dillenii</i>		41.2
<i>Scleranthus perennis</i>		40.4
<i>Artemisia campestris</i>	C	38.4
<i>Polytrichum piliferum</i>		37.9
<i>Thymus serpyllum</i>		37.2
<i>Rumex acetosella</i> s. l.	C	35.7
<i>Cerastium semidecandrum</i>		35.4
<i>Jasione montana</i>		34.3
<i>Trifolium arvense</i>		33.3
<i>Teesdalia nudicaulis</i>		31.3
<i>Hieracium pilosella</i> s. l.	C	31.3
<i>Helichrysum arenarium</i>		30.2
<i>Cetraria aculeata</i>		28.6
<i>Cladonia arbuscula</i> s. l.		27.9
<i>Filago minima</i>		27.5
<i>Potentilla argentea</i>		27.1
<i>Koeleria glauca</i>		27.1
<i>Ceratodon purpureus</i>		26.1
<i>Sedum acre</i>		25.7
<i>Astragalus arenarius</i>		25.4
<i>Silene otites</i> s. l.		24.6
<i>Festuca psammophila</i>		22.6
<i>Brachythecium albicans</i>		22.2
<i>Hypochaeris radicata</i>		20.9
<i>Cladonia cervicornis</i> subsp. <i>verticillata</i>		20.9
<i>Scleranthus polycarpus</i>		20.0
<i>Cladonia uncialis</i>		19.7
<i>Aira praecox</i>		19.6
<i>Herniaria glabra</i>		19.2
<i>Arenaria serpyllifolia</i> agg.		19.1
<i>Sedum sexangulare</i>		19.0
<i>Centaurea stoebe</i>		18.7

<i>Cladonia fimbriata</i>		18.5
Constant species (4):		
<i>Hieracium pilosella</i> s. l.	Dg	56.0
<i>Rumex acetosella</i> s. l.	Dg	55.0
<i>Corynephorus canescens</i>	Dg	55.0
<i>Artemisia campestris</i>	Dg	42.0

Dominant species (0):

TFA Alliance

Corynephorion canescentis

Open sand grasslands

Number of relevés: 645

Diagnostic species (12):

<i>Corynephorus canescens</i>	C, Dm	44.7
<i>Spergula morisonii</i>		42.6
<i>Polytrichum piliferum</i>	C	29.5
<i>Cladonia arbuscula</i> s. l.		27.0
<i>Koeleria glauca</i>		25.2
<i>Cladonia cervicornis</i> subsp. <i>verticillata</i>		25.2
<i>Scleranthus perennis</i>		21.9
<i>Teesdalia nudicaulis</i>		21.7
<i>Jasione montana</i>		20.9
<i>Cetraria aculeata</i>		20.4
<i>Cladonia uncialis</i>		19.0
<i>Veronica dillenii</i>		18.3

Constant species (6):

<i>Corynephorus canescens</i>	Dg, Dm	89.0
<i>Rumex acetosella</i> s. l.		56.0
<i>Polytrichum piliferum</i>	Dg	56.0
<i>Hieracium pilosella</i> s. l.		56.0
<i>Artemisia campestris</i>		43.0
<i>Ceratodon purpureus</i>		41.0

Dominant species (1):

<i>Corynephorus canescens</i>	Dg, C	5.0
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TFB Alliance

Thero-Airion

Vegetation of annual grasses on sandy soils

Number of relevés: 59

Diagnostic species (9):

<i>Aira praecox</i>	C, Dm	75.2
<i>Vulpia myuros</i>		29.0
<i>Spergula morisonii</i>		26.4
<i>Filago minima</i>		23.4
<i>Aira caryophyllea</i>		23.0

<i>Scleranthus polycarpus</i>		21.0
<i>Hypochaeris radicata</i>		19.8
<i>Polytrichum piliferum</i>		19.4
<i>Rumex acetosella</i> s. l.	C	19.0

Constant species (3):

<i>Rumex acetosella</i> s. l.	Dg	69.0
<i>Aira praecox</i>	Dg, Dm	69.0
<i>Agrostis capillaris</i>		61.0

Dominant species (1):

<i>Aira praecox</i>	Dg, C	12.0
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TFC Alliance

Armerion elongatae

Closed sand grasslands

Number of relevés: 89

Diagnostic species (6):

<i>Armeria maritima</i> s. l.	C	36.3
<i>Thymus serpyllum</i>	C	26.9
<i>Helichrysum arenarium</i>		21.2
<i>Artemisia campestris</i>	C	21.1
<i>Dianthus deltoides</i>		19.3
<i>Trifolium arvense</i>		18.8

Constant species (10):

<i>Hieracium pilosella</i> s. l.		65.0
<i>Artemisia campestris</i>	Dg	65.0
<i>Armeria maritima</i> s. l.	Dg	62.0
<i>Achillea millefolium</i> agg.		48.0
<i>Thymus serpyllum</i>	Dg	47.0
<i>Sedum acre</i>		46.0
<i>Rumex acetosella</i> s. l.		46.0
<i>Plantago lanceolata</i>		46.0
<i>Poa pratensis</i> s. l.		43.0
<i>Agrostis capillaris</i>		43.0

Dominant species (0):

TFD Alliance

Hyperico perforati-Scleranthion perennis

Submontane acidophilous vegetation of shallow soils

Number of relevés: 222

Diagnostic species (5):

<i>Hieracium pilosella</i> s. l.	C	22.0
<i>Festuca ovina</i> s. l.	C	19.6
<i>Jasione montana</i>		18.5
<i>Potentilla argentea</i>		18.3
<i>Trifolium arvense</i>		18.0

Constant species (6):

<i>Hieracium pilosella</i> s. l.	Dg	80.0
<i>Rumex acetosella</i> s. l.		65.0
<i>Festuca ovina</i> s. l.	Dg	61.0
<i>Achillea millefolium</i> agg.		60.0
<i>Agrostis capillaris</i>		54.0
<i>Plantago lanceolata</i>		41.0

Dominant species (0):**TFE Alliance*****Arabidopsion thalianae***

Acidophilous vegetation of vernal therophytes and succulents

Number of relevés: 13

Diagnostic species (17):

<i>Veronica dillenii</i>	C	52.6
<i>Artemisia austriaca</i>		47.9
<i>Veronica verna</i>	C	43.6
<i>Androsace septentrionalis</i>		38.7
<i>Herniaria glabra</i>		36.3
<i>Scleranthus perennis</i>		33.3
<i>Brachythecium albicans</i>	C	31.4
<i>Erophila verna</i>		29.1
<i>Cerastium semidecandrum</i>	C	26.8
<i>Myosotis stricta</i>		26.1
<i>Anthemis ruthenica</i>		24.9
<i>Saxifraga tridactylites</i>		23.5
<i>Astragalus arenarius</i>		23.3
<i>Artemisia campestris</i>	C	22.6
<i>Potentilla argentea</i>	C	21.2
<i>Sedum acre</i>	C	18.9
<i>Ceratodon purpureus</i>	C	18.2

Constant species (13):

<i>Veronica dillenii</i>	Dg	77.0
<i>Brachythecium albicans</i>	Dg	69.0
<i>Artemisia campestris</i>	Dg	69.0
<i>Rumex acetosella</i> s. l.		62.0
<i>Hieracium pilosella</i> s. l.	Dm	62.0
<i>Sedum acre</i>	Dg	54.0
<i>Ceratodon purpureus</i>	Dg	54.0
<i>Achillea millefolium</i> agg.		54.0
<i>Veronica verna</i>	Dg	46.0
<i>Potentilla argentea</i>	Dg	46.0
<i>Festuca rubra</i> agg.		46.0
<i>Cerastium semidecandrum</i>	Dg	46.0
<i>Arenaria serpyllifolia</i> agg.		46.0

Dominant species (1):

<i>Hieracium pilosella</i> s. l.	C	8.0
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TFF Alliance***Alyso alyssoidis-Sedion***

Basiphilous vegetation of vernal therophytes and succulents

Number of relevés: 65

Diagnostic species (13):

<i>Acinos arvensis</i>	C	33.6
<i>Centaurea stoebe</i>	C	30.4
<i>Alyssum alyssoides</i>		29.1
<i>Teucrium botrys</i>		26.3
<i>Arenaria serpyllifolia</i> agg.	C	22.0
<i>Sedum acre</i>	C, Dm	21.8
<i>Potentilla neumanniana</i>		21.8
<i>Arabis recta</i>		20.3
<i>Petrorhagia prolifera</i>		19.2
<i>Euphorbia cyparissias</i>	C	19.2
<i>Echium vulgare</i>		19.2
<i>Tortella inclinata</i>		18.7
<i>Sedum sexangulare</i>		18.5

Constant species (7):

<i>Euphorbia cyparissias</i>	Dg	78.0
<i>Acinos arvensis</i>	Dg	75.0
<i>Centaurea stoebe</i>	Dg	74.0
<i>Sedum acre</i>	Dg, Dm	62.0
<i>Arenaria serpyllifolia</i> agg.	Dg	60.0
<i>Medicago falcata</i>		49.0
<i>Artemisia campestris</i>		46.0

Dominant species (2):

<i>Stipa capillata</i>		3.0
<i>Sedum acre</i>	Dg, C	3.0

TFG Alliance***Koelerion albescens***

Sand dune dry grasslands

Number of relevés: 38

Diagnostic species (17):

<i>Anthyllis vulneraria</i> subsp. <i>maritima</i>	C, Dm	79.7
<i>Ononis repens</i>		44.2
<i>Artemisia campestris</i> subsp. <i>sericea</i>	C	35.8
<i>Carex arenaria</i>	C	34.6
<i>Hippophaë rhamnoides</i>		34.3
<i>Cladonia scabriuscula</i>		34.2
<i>Peltigera canina</i>		32.4
<i>Didymodon fallax</i>		26.7
<i>Euphrasia stricta</i>		25.5
<i>Hieracium umbellatum</i>	C	22.7
<i>Barbula unguiculata</i>		20.8

<i>Corynephorus canescens</i>	C	20.5
<i>Sedum acre</i>	C	20.4
<i>Cladonia fimbriata</i>		20.4
<i>Rosa rugosa</i>		20.1
<i>Dicranella varia</i>		18.5
<i>Cladonia chlorophaea</i>		18.0

Constant species (18):

<i>Festuca rubra</i> agg.		89.0
<i>Anthyllis vulneraria</i> subsp. <i>maritima</i>	Dg, Dm	68.0
<i>Carex arenaria</i>	Dg	66.0
<i>Achillea millefolium</i> agg.		63.0
<i>Sedum acre</i>	Dg	58.0
<i>Galium mollugo</i> agg.		55.0
<i>Hieracium umbellatum</i>	Dg	53.0
<i>Poa pratensis</i> s. l.		50.0
<i>Anthoxanthum odoratum</i> s. l.		50.0
<i>Rumex acetosella</i> s. l.		47.0
<i>Ceratodon purpureus</i>		47.0
<i>Cerastium holsteoides</i>		47.0
<i>Trifolium pratense</i> s. l.		45.0
<i>Solidago virgaurea</i>		45.0
<i>Knautia arvensis</i> agg.		45.0
<i>Artemisia campestris</i> subsp. <i>sericea</i>	Dg	45.0
<i>Corynephorus canescens</i>	Dg	42.0
<i>Pinus sylvestris</i>		42.0

Dominant species (2):

<i>Hypnum cupressiforme</i> agg.		5.0
<i>Anthyllis vulneraria</i> subsp. <i>maritima</i>	Dg, C	5.0

TFH Alliance

Koelerion glaucae

Xeric sand grasslands

Number of relevés: 21

Diagnostic species (38):

<i>Silene otites</i> s. l.	C	46.6
<i>Cerastium semidecandrum</i>	C	39.3
<i>Silene chlorantha</i>		34.4
<i>Medicago minima</i>		33.5
<i>Helichrysum arenarium</i>	C	33.1
<i>Sedum reflexum</i>		33.0
<i>Thymus serpyllum</i>	C	32.8
<i>Petrorhagia prolifera</i>		32.4
<i>Holosteum umbellatum</i>		31.8
<i>Placidium squamulosum</i>		30.5
<i>Niphotrichum canescens</i>	C	30.3
<i>Artemisia campestris</i>	C	30.1
<i>Veronica dillenii</i>	C	28.9
<i>Vicia lathyroides</i>		28.8

<i>Trifolium arvense</i>	C	27.1
<i>Myosotis stricta</i>		24.2
<i>Senecio vernalis</i>		23.2
<i>Sedum sexangulare</i>		23.1
<i>Trapeliopsis granulosa</i>		22.9
<i>Festuca trachyphylla</i> s. l.	C	22.6
<i>Sedum acre</i>	C, Dm	22.0
<i>Toninia sedifolia</i>		21.8
<i>Minuartia viscosa</i>		21.8
<i>Phleum phleoides</i>	C, Dm	21.4
<i>Erophila verna</i>		21.4
<i>Cladonia pyxidata</i>		20.9
<i>Squamarina lentigera</i>		20.8
<i>Peltigera rufescens</i>		20.8
<i>Syntrichia ruralis</i>		20.4
<i>Chondrilla juncea</i>		20.1
<i>Collema tenax</i>		19.8
<i>Cladonia subrangiformis</i>		19.5
<i>Fulgensia fulgens</i>		19.2
<i>Centaurea stoebe</i>	C	19.0
<i>Arenaria serpyllifolia</i> agg.	C	19.0
<i>Psora decipiens</i>		18.4
<i>Cetraria aculeata</i>		18.3
<i>Cladonia chlorophaea</i>		18.1
Constant species (16):		
<i>Artemisia campestris</i>	Dg	90.0
<i>Silene otites</i> s. l.	Dg	67.0
<i>Cerastium semidecandrum</i>	Dg	67.0
<i>Sedum acre</i>	Dg, Dm	62.0
<i>Helichrysum arenarium</i>	Dg	62.0
<i>Trifolium arvense</i>	Dg	57.0
<i>Thymus serpyllum</i>	Dg	57.0
<i>Euphorbia cyparissias</i>		57.0
<i>Phleum phleoides</i>	Dg, Dm	52.0
<i>Arenaria serpyllifolia</i> agg.	Dg	52.0
<i>Niphotrichum canescens</i>	Dg	48.0
<i>Poa pratensis</i> s. l.		48.0
<i>Festuca trachyphylla</i> s. l.	Dg	48.0
<i>Ceratodon purpureus</i>	Dm	48.0
<i>Centaurea stoebe</i>	Dg	48.0
<i>Veronica dillenii</i>	Dg	43.0
Dominant species (4):		
<i>Ceratodon purpureus</i>	C	10.0
<i>Sedum acre</i>	Dg, C	5.0
<i>Phleum phleoides</i>	Dg, C	5.0
<i>Festuca psammophila</i>		5.0

TH Class**FESTUCO-BROMETEA**

Dry grasslands

Number of relevés: 1193

Diagnostic species (43):

<i>Salvia pratensis</i>		41.8
<i>Phleum phleoides</i>		37.7
<i>Galium verum</i>	C	37.6
<i>Medicago falcata</i>	C	37.5
<i>Brachypodium pinnatum</i>	C, Dm	36.9
<i>Centaurea scabiosa</i>		35.6
<i>Euphorbia cyparissias</i>	C	34.0
<i>Achillea pannonica</i>		32.6
<i>Fragaria viridis</i>		31.9
<i>Agrimonia eupatoria</i>		29.4
<i>Asperula cynanchica</i>		29.0
<i>Prunella grandiflora</i>		27.5
<i>Stipa capillata</i>	Dm	27.4
<i>Centaurea stoebe</i>		27.4
<i>Scabiosa ochroleuca</i>		27.1
<i>Coronilla varia</i>		26.8
<i>Veronica spicata</i>		26.4
<i>Trifolium montanum</i>		26.3
<i>Potentilla arenaria</i>		26.1
<i>Koeleria macrantha</i>		25.8
<i>Ononis spinosa</i>		24.7
<i>Seseli annuum</i>		24.5
<i>Plantago media</i>		24.4
<i>Filipendula vulgaris</i>		23.4
<i>Knautia arvensis</i> agg.		23.1
<i>Sanguisorba minor</i>		23.0
<i>Stachys recta</i>		22.9
<i>Melampyrum arvense</i>		22.9
<i>Thesium linophyllum</i>		22.0
<i>Thymus pulegioides</i>		21.9
<i>Briza media</i>		21.7
<i>Campanula sibirica</i>		21.3
<i>Dianthus carthusianorum</i>		20.3
<i>Pimpinella saxifraga</i>	C	20.1
<i>Festuca trachyphylla</i> s. l.		20.1
<i>Poa pratensis</i> s. l.	C	19.7
<i>Inula ensifolia</i>		19.6
<i>Bromus erectus</i>		19.5
<i>Artemisia campestris</i>		19.5
<i>Anthyllis vulneraria</i> s. l.		18.9
<i>Thalictrum minus</i>		18.4
<i>Acinos arvensis</i>		18.3
<i>Falcaria vulgaris</i>		18.2

Constant species (7):

<i>Euphorbia cyparissias</i>	Dg	59.0
<i>Galium verum</i>	Dg	50.0
<i>Medicago falcata</i>	Dg	47.0
<i>Poa pratensis</i> s. l.	Dg	46.0
<i>Pimpinella saxifraga</i>	Dg	44.0
<i>Brachypodium pinnatum</i>	Dg, Dm	43.0
<i>Achillea millefolium</i> agg.		42.0

Dominant species (2):

<i>Brachypodium pinnatum</i>	Dg, C	13.0
<i>Stipa capillata</i>	Dg	3.0

THA Alliance***Alyso-Festucion pallentis***

Hercynian rock-outcrop vegetation with *Festuca pallens*

Number of relevés: 91

Diagnostic species (17):

<i>Festuca pallens</i>	C	35.2
<i>Jovibarba hirta</i>	C	33.9
<i>Allium montanum</i>		24.8
<i>Leptogium lichenoides</i>		24.7
<i>Arabis hirsuta</i>		24.7
<i>Acinos arvensis</i>	C	24.6
<i>Vincetoxicum hirundinaria</i>	C	24.4
<i>Encalypta streptocarpa</i>		22.8
<i>Tortella tortuosa</i>		22.5
<i>Asplenium ruta-muraria</i>	C	22.2
<i>Potentilla pusilla</i>		22.1
<i>Erysimum odoratum</i>		21.5
<i>Taraxacum laevigatum</i>		21.1
<i>Silene nutans</i>		19.9
<i>Galium cracoviense</i>		19.8
<i>Scabiosa ochroleuca</i>	C	18.4
<i>Thymus pulegioides</i>	C	18.1

Constant species (12):

<i>Festuca pallens</i>	Dg	65.0
<i>Jovibarba hirta</i>	Dg	64.0
<i>Euphorbia cyparissias</i>		64.0
<i>Vincetoxicum hirundinaria</i>	Dg	62.0
<i>Acinos arvensis</i>	Dg	56.0
<i>Galium mollugo</i> agg.		55.0
<i>Thymus pulegioides</i>	Dg	54.0
<i>Scabiosa ochroleuca</i>	Dg	48.0
<i>Sedum acre</i>		47.0
<i>Poa compressa</i>		47.0
<i>Achillea millefolium</i> agg.		45.0
<i>Asplenium ruta-muraria</i>	Dg	44.0

Dominant species (2):

<i>Phleum phleoides</i>		3.0
<i>Melica transsilvanica</i>		3.0

THB Alliance***Bromo pannonici-Festucion pallentis***

Pannonian vegetation of limestone outcrops

Number of relevés: 8

Diagnostic species (40):

<i>Teucrium montanum</i>	C	77.8
<i>Erysimum wittmannii</i>	C	65.2
<i>Melica transsilvanica</i>	C	55.6
<i>Jovibarba hirta</i>	C	53.8
<i>Bupleurum falcatum</i>	C	53.0
<i>Salvia verticillata</i>	C	50.2
<i>Cotoneaster integerrimus</i>	C	48.2
<i>Viola hirta</i>	C	45.0
<i>Inula conyza</i>	C	44.9
<i>Dendranthema zawadskii</i>		44.8
<i>Libanotis pyrenaica</i>	C	41.5
<i>Festuca pallens</i>	C	40.9
<i>Silene nemoralis</i>		39.8
<i>Asplenium ruta-muraria</i>	C	38.8
<i>Stachys germanica</i>		35.3
<i>Potentilla pusilla</i>		33.8
<i>Cotoneaster niger</i>		32.1
<i>Sanguisorba minor</i>	C	31.2
<i>Polygonatum odoratum</i>	C	30.2
<i>Vincetoxicum hirundinaria</i>	C	30.1
<i>Coronilla varia</i>	C	29.5
<i>Calamagrostis varia</i>	C	29.4
<i>Digitalis grandiflora</i>	C	28.7
<i>Polygala comosa</i>		26.6
<i>Berberis vulgaris</i>		26.0
<i>Allium montanum</i>		25.6
<i>Cornus sanguinea</i>	C	25.1
<i>Aster alpinus</i>		25.1
<i>Clinopodium vulgare</i>	C	24.6
<i>Scabiosa lucida</i>		24.1
<i>Centaurea triumfetti</i>		24.0
<i>Galium mollugo</i> agg.	C	23.3
<i>Euphorbia cyparissias</i>	C	21.7
<i>Juniperus communis</i>	C	21.3
<i>Aquilegia vulgaris</i>		21.2
<i>Carex alba</i>		21.0
<i>Medicago falcata</i>	C	20.4
<i>Scabiosa ochroleuca</i>	C	19.1
<i>Hypericum perforatum</i>	C	18.7
<i>Carex ornithopoda</i>		18.2

Constant species (29):

<i>Teucrium montanum</i>	Dg	100.0
<i>Salvia verticillata</i>	Dg	100.0
<i>Jovibarba hirta</i>	Dg	100.0
<i>Galium mollugo</i> agg.	Dg	100.0
<i>Viola hirta</i>	Dg	88.0
<i>Euphorbia cyparissias</i>	Dg	88.0
<i>Coronilla varia</i>	Dg	88.0
<i>Vincetoxicum hirundinaria</i>	Dg	75.0
<i>Sanguisorba minor</i>	Dg	75.0
<i>Hypericum perforatum</i>	Dg	75.0
<i>Festuca pallens</i>	Dg	75.0
<i>Erysimum wittmannii</i>	Dg	75.0
<i>Bupleurum falcatum</i>	Dg	75.0
<i>Asplenium ruta-muraria</i>	Dg	75.0
<i>Libanotis pyrenaica</i>	Dg	62.0
<i>Polygonatum odoratum</i>	Dg	62.0
<i>Melica transsilvanica</i>	Dg	62.0
<i>Medicago falcata</i>	Dg	62.0
<i>Juniperus communis</i>	Dg	62.0
<i>Cornus sanguinea</i>	Dg	62.0
<i>Clinopodium vulgare</i>	Dg	62.0
<i>Calamagrostis varia</i>	Dg	62.0
<i>Sedum acre</i>		50.0
<i>Scabiosa ochroleuca</i>	Dg	50.0
<i>Pimpinella saxifraga</i>		50.0
<i>Inula conyza</i>	Dg	50.0
<i>Fragaria vesca</i>		50.0
<i>Digitalis grandiflora</i>	Dg	50.0
<i>Cotoneaster integerrimus</i>	Dg	50.0

Dominant species (0):**THC Alliance*****Diantho lumnitzeri-Seslerion****Sesleria varia* grasslands

Number of relevés: 23

Diagnostic species (45):

<i>Sesleria varia</i>	C, Dm	55.4
<i>Allium montanum</i>	C	51.4
<i>Rhynchidium rugosum</i>		48.8
<i>Libanotis pyrenaica</i>	C, Dm	40.4
<i>Helianthemum alpestre</i> subsp. <i>rupifragum</i>		40.3
<i>Jovibarba hirta</i>	C	37.1
<i>Dendranthema zawadskii</i>		36.3
<i>Saxifraga paniculata</i>	C	35.0
<i>Galium cracoviense</i>		31.6
<i>Aster alpinus</i>		30.7
<i>Erysimum wittmannii</i>		29.8

<i>Festuca pallens</i>	C	28.1
<i>Neckera pumila</i>		27.7
<i>Centaurea triumfetti</i>		25.0
<i>Alyssum saxatile</i>		25.0
<i>Astragalus danicus</i>		24.8
<i>Lepraria incana</i>		24.2
<i>Ctenidium molluscum</i>		24.0
<i>Laserpitium latifolium</i>		23.3
<i>Viola rupestris</i>		23.1
<i>Asperula cynanchica</i>		22.7
<i>Veronica austriaca</i>		22.3
<i>Thymus carpaticus</i>		22.0
<i>Asplenium ruta-muraria</i>	C	22.0
<i>Carex supina</i>		21.0
<i>Orobanche alba</i>		20.8
<i>Hieracium schmidtii</i>		20.8
<i>Brachythecium geheebii</i>		20.8
<i>Acinos arvensis</i>	C	20.8
<i>Cotoneaster integerrimus</i>		20.6
<i>Vincetoxicum hirundinaria</i>	C	20.5
<i>Carex humilis</i>		20.5
<i>Neckera crispa</i>		20.0
<i>Encalypta streptocarpa</i>		20.0
<i>Teucrium montanum</i>		19.7
<i>Homalothecium sericeum</i>		19.6
<i>Euphorbia cyparissias</i>	C	19.2
<i>Sedum spurium</i>		19.1
<i>Thalictrum simplex</i>		18.8
<i>Gypsophila repens</i>		18.7
<i>Astragalus australis</i>		18.7
<i>Polygonatum odoratum</i>		18.4
<i>Dianthus carthusianorum</i>	C	18.2
<i>Silene nemoralis</i>		18.1
<i>Anthyllis vulneraria</i> s. l.		18.1
Constant species (13):		
<i>Euphorbia cyparissias</i>	Dg	78.0
<i>Allium montanum</i>	Dg	74.0
<i>Jovibarba hirta</i>	Dg	70.0
<i>Sesleria varia</i>	Dg, Dm	61.0
<i>Libanotis pyrenaica</i>	Dg, Dm	61.0
<i>Saxifraga paniculata</i>	Dg	61.0
<i>Vincetoxicum hirundinaria</i>	Dg	52.0
<i>Festuca pallens</i>	Dg	52.0
<i>Galium mollugo</i> agg.		48.0
<i>Dianthus carthusianorum</i>	Dg	48.0
<i>Acinos arvensis</i>	Dg	48.0
<i>Coronilla varia</i>		43.0
<i>Asplenium ruta-muraria</i>	Dg	43.0

Dominant species (2):

<i>Sesleria varia</i>	Dg, C	13.0
<i>Libanotis pyrenaica</i>	Dg, C	9.0

THD Alliance***Festucion valesiaca***

Narrow-leaved dry grasslands and short-grass steppes

Number of relevés: 199

Diagnostic species (23):

<i>Stipa capillata</i>	C, Dm	49.6
<i>Potentilla arenaria</i>	C	34.1
<i>Koeleria macrantha</i>	C	31.5
<i>Achillea pannonica</i>	C	30.7
<i>Salvia pratensis</i>	C	30.5
<i>Pterygoneurum subsessile</i>		29.7
<i>Oxytropis pilosa</i>		28.2
<i>Centaurea stoebe</i>	C	27.1
<i>Phleum phleoides</i>	C	26.4
<i>Scabiosa canescens</i>		25.4
<i>Anthericum liliago</i>		25.1
<i>Campanula sibirica</i>	C	24.6
<i>Festuca valesiaca</i>		23.0
<i>Festuca trachyphylla</i> s. l.	C	22.1
<i>Falcaria vulgaris</i>		21.5
<i>Dianthus carthusianorum</i>	C	21.5
<i>Bothriochloa ischaemum</i>		21.5
<i>Stipa pulcherrima</i>		21.2
<i>Galium verum</i>	C	21.2
<i>Medicago falcata</i>	C	20.7
<i>Artemisia campestris</i>	C	20.6
<i>Stachys recta</i>		19.5
<i>Pleurochaete squarrosa</i>		18.3

Constant species (15):

<i>Potentilla arenaria</i>	Dg	83.0
<i>Euphorbia cyparissias</i>		72.0
<i>Galium verum</i>	Dg	69.0
<i>Salvia pratensis</i>	Dg	67.0
<i>Centaurea stoebe</i>	Dg	66.0
<i>Phleum phleoides</i>	Dg	64.0
<i>Artemisia campestris</i>	Dg	64.0
<i>Medicago falcata</i>	Dg	63.0
<i>Achillea pannonica</i>	Dg	63.0
<i>Stipa capillata</i>	Dg, Dm	56.0
<i>Dianthus carthusianorum</i>	Dg	56.0
<i>Koeleria macrantha</i>	Dg	50.0
<i>Festuca trachyphylla</i> s. l.	Dg	47.0
<i>Poa pratensis</i> s. l.		42.0
<i>Campanula sibirica</i>	Dg	41.0

Dominant species (2):

<i>Stipa capillata</i>	Dg, C	19.0
<i>Brachypodium pinnatum</i>		3.0

THG Alliance***Koelerio-Phleion phleoidis***

Acidophilous dry grasslands

Number of relevés: 96

Diagnostic species (12):

<i>Phleum phleoides</i>	C, Dm	35.1
<i>Avenula pratensis</i>		31.6
<i>Veronica spicata</i>	C	31.3
<i>Dianthus carthusianorum</i>	C	22.1
<i>Potentilla arenaria</i>	C	21.7
<i>Koeleria macrantha</i>		21.4
<i>Stipa joannis</i>	Dm	19.8
<i>Artemisia campestris</i>	C	19.4
<i>Achillea pannonica</i>		18.7
<i>Filipendula vulgaris</i>		18.3
<i>Centaurea stoebe</i>	C	18.3
<i>Salvia pratensis</i>	C	18.0

Constant species (15):

<i>Phleum phleoides</i>	Dg, Dm	83.0
<i>Veronica spicata</i>	Dg	62.0
<i>Artemisia campestris</i>	Dg	60.0
<i>Dianthus carthusianorum</i>	Dg	57.0
<i>Galium verum</i>		56.0
<i>Potentilla arenaria</i>	Dg	54.0
<i>Euphorbia cyparissias</i>		54.0
<i>Hieracium pilosella</i> s. l.		50.0
<i>Centaurea stoebe</i>	Dg	46.0
<i>Poa pratensis</i> s. l.		44.0
<i>Pimpinella saxifraga</i>		44.0
<i>Medicago falcata</i>		44.0
<i>Hypericum perforatum</i>		44.0
<i>Thymus pulegioides</i>		41.0
<i>Salvia pratensis</i>		41.0

Dominant species (3):

<i>Stipa joannis</i>	Dg	5.0
<i>Phleum phleoides</i>	Dg, C	4.0
<i>Stipa capillata</i>		3.0

THE Alliance

Cirsio-Brachypodium pinnati

Subcontinental broad-leaved semi-dry grasslands and tall-grass steppes

Number of relevés: 186

Diagnostic species (17):

<i>Aster amellus</i>		31.4
<i>Brachypodium pinnatum</i>	C, Dm	31.3
<i>Inula ensifolia</i>	Dm	30.5
<i>Prunella grandiflora</i>		30.3
<i>Teucrium chamaedrys</i>		29.8
<i>Ononis spinosa</i>		26.9
<i>Salvia pratensis</i>	C	26.1
<i>Linum catharticum</i>	C	21.7
<i>Cirsium acaule</i>		21.6
<i>Centaurea pannonica</i>		21.6
<i>Salvia verticillata</i>	C	21.4
<i>Anemone sylvestris</i>		21.0
<i>Thesium linophyllum</i>		20.6
<i>Medicago falcata</i>	C	20.0
<i>Campanula sibirica</i>		20.0
<i>Scabiosa ochroleuca</i>	C	19.8
<i>Plantago media</i>	C	19.1

Constant species (12):

<i>Brachypodium pinnatum</i>	Dg, Dm	74.0
<i>Euphorbia cyparissias</i>		62.0
<i>Medicago falcata</i>	Dg	61.0
<i>Salvia pratensis</i>	Dg	58.0
<i>Linum catharticum</i>	Dg	55.0
<i>Scabiosa ochroleuca</i>	Dg	52.0
<i>Pimpinella saxifraga</i>		52.0
<i>Galium verum</i>		47.0
<i>Plantago media</i>	Dg	45.0
<i>Salvia verticillata</i>	Dg	44.0
<i>Sanguisorba minor</i>		43.0
<i>Agrimonia eupatoria</i>		41.0

Dominant species (2):

<i>Brachypodium pinnatum</i>	Dg, C	24.0
<i>Inula ensifolia</i>	Dg	10.0

THF Alliance

Bromion erecti

Suboceanic broad-leaved semi-dry grasslands

Number of relevés: 195

Diagnostic species (20):

<i>Centaurea scabiosa</i>	C	31.6
<i>Sanguisorba minor</i>	C	30.7

<i>Seseli annuum</i>	C	29.1
<i>Carex caryophyllea</i>	C	28.9
<i>Brachypodium pinnatum</i>	C, Dm	28.0
<i>Thymus pulegioides</i>	C	26.6
<i>Anthyllis vulneraria</i> s. l.	C, Dm	25.4
<i>Potentilla heptaphylla</i>		24.5
<i>Helianthemum nummularium</i> s. l.	C	23.9
<i>Trifolium montanum</i>		23.4
<i>Carlina acaulis</i>	C	23.1
<i>Fragaria viridis</i>	C	23.0
<i>Briza media</i>	C	21.9
<i>Polygala comosa</i>		21.7
<i>Koeleria pyramidata</i>		20.5
<i>Bromus erectus</i>	Dm	20.1
<i>Scabiosa ochroleuca</i>	C	20.0
<i>Asperula cynanchica</i>		20.0
<i>Plantago media</i>	C	18.4
<i>Lotus corniculatus</i>	C	18.4
Constant species (25):		
<i>Thymus pulegioides</i>	Dg	77.0
<i>Sanguisorba minor</i>	Dg	74.0
<i>Euphorbia cyparissias</i>		68.0
<i>Centaurea scabiosa</i>	Dg	68.0
<i>Brachypodium pinnatum</i>	Dg, Dm	67.0
<i>Achillea millefolium</i> agg.		64.0
<i>Briza media</i>	Dg	61.0
<i>Knautia arvensis</i> agg.		58.0
<i>Poa pratensis</i> s. l.		57.0
<i>Pimpinella saxifraga</i>		55.0
<i>Anthyllis vulneraria</i> s. l.	Dg, Dm	54.0
<i>Medicago falcata</i>		53.0
<i>Scabiosa ochroleuca</i>	Dg	52.0
<i>Carex caryophyllea</i>	Dg	52.0
<i>Fragaria viridis</i>	Dg	50.0
<i>Leontodon hispidus</i>		49.0
<i>Coronilla varia</i>		49.0
<i>Lotus corniculatus</i>	Dg	48.0
<i>Galium mollugo</i> agg.		47.0
<i>Linum catharticum</i>		45.0
<i>Carlina acaulis</i>	Dg	45.0
<i>Seseli annuum</i>	Dg	44.0
<i>Plantago lanceolata</i>		44.0
<i>Helianthemum nummularium</i> s. l.	Dg	44.0
<i>Plantago media</i>	Dg	43.0
Dominant species (3):		
<i>Brachypodium pinnatum</i>	Dg, C	26.0
<i>Bromus erectus</i>	Dg	4.0
<i>Anthericum ramosum</i>		4.0

THH Alliance***Geranium sanguinei***

Dry herbaceous fringe vegetation

Number of relevés: 128

Diagnostic species (12):

<i>Peucedanum cervaria</i>	C	39.3
<i>Vicia tenuifolia</i>	Dm	30.9
<i>Geranium sanguineum</i>		28.6
<i>Brachypodium pinnatum</i>	C, Dm	26.1
<i>Thesium linophyllum</i>		25.1
<i>Fragaria viridis</i>	C	23.2
<i>Veronica teucrium</i>		22.3
<i>Prunella grandiflora</i>		20.8
<i>Melampyrum cristatum</i>		20.4
<i>Salvia pratensis</i>	C	20.2
<i>Galium verum</i>	C	19.9
<i>Centaurea scabiosa</i>	C	19.0

Constant species (12):

<i>Galium verum</i>	Dg	66.0
<i>Euphorbia cyparissias</i>		62.0
<i>Brachypodium pinnatum</i>	Dg, Dm	62.0
<i>Poa pratensis</i> s. l.		55.0
<i>Peucedanum cervaria</i>	Dg	54.0
<i>Medicago falcata</i>		52.0
<i>Fragaria viridis</i>	Dg	51.0
<i>Coronilla varia</i>		48.0
<i>Salvia pratensis</i>	Dg	45.0
<i>Prunus spinosa</i>		43.0
<i>Centaurea scabiosa</i>	Dg	42.0
<i>Festuca rubra</i> agg.		41.0

Dominant species (2):

<i>Vicia tenuifolia</i>	Dg	10.0
<i>Brachypodium pinnatum</i>	Dg, C	10.0

THI Alliance***Trifolium medii***

Mesic herbaceous fringe vegetation

Number of relevés: 249

Diagnostic species (2):

<i>Trifolium medium</i>	C, Dm	27.9
<i>Agrimonia eupatoria</i>	C	24.0

Constant species (12):

<i>Achillea millefolium</i> agg.		67.0
<i>Poa pratensis</i> s. l.		60.0
<i>Galium mollugo</i> agg.		59.0

<i>Knautia arvensis</i> agg.		55.0
<i>Agrimonia eupatoria</i>	Dg	54.0
<i>Pimpinella saxifraga</i>		53.0
<i>Galium verum</i>		52.0
<i>Dactylis glomerata</i>		51.0
<i>Veronica chamaedrys</i>		47.0
<i>Hypericum perforatum</i>		47.0
<i>Arrhenatherum elatius</i>		44.0
<i>Trifolium medium</i>	Dg, Dm	42.0
Dominant species (2):		
<i>Brachypodium pinnatum</i>		13.0
<i>Trifolium medium</i>	Dg, C	3.0

THJ Alliance

Melampyrion pratensis

Acidophilous fringe vegetation

Number of relevés: 18

Diagnostic species (20):

<i>Melampyrum pratense</i>	C	49.9
<i>Lathyrus montanus</i>		45.5
<i>Pseudoscleropodium purum</i>	C	41.4
<i>Festuca ovina</i> s. l.	C	27.4
<i>Pleurozium schreberi</i>	C, Dm	23.7
<i>Quercus petraea</i>	C	22.4
<i>Trifolium aureum</i>		22.2
<i>Dicranum polysetum</i>		21.9
<i>Hypnum cupressiforme</i> agg.	C	21.4
<i>Quercus robur</i>	C	20.4
<i>Poa pratensis</i> s. l.	C	19.9
<i>Pyrola chlorantha</i>		19.5
<i>Plagiomnium affine</i> s. l.	C	19.5
<i>Anthoxanthum odoratum</i> s. l.	C	18.6
<i>Knautia arvensis</i> agg.	C	18.5
<i>Veronica officinalis</i>	C	18.4
<i>Galium verum</i>	C	18.4
<i>Agrostis capillaris</i>	C	18.3
<i>Sciuro-hypnum oedipodium</i>		18.2
<i>Trifolium medium</i>		18.0

Constant species (23):

<i>Melampyrum pratense</i>	Dg	100.0
<i>Poa pratensis</i> s. l.	Dg	94.0
<i>Festuca ovina</i> s. l.	Dg	83.0
<i>Anthoxanthum odoratum</i> s. l.	Dg	83.0
<i>Agrostis capillaris</i>	Dg	83.0
<i>Quercus robur</i>	Dg	78.0
<i>Veronica chamaedrys</i>		72.0
<i>Pleurozium schreberi</i>	Dg, Dm	72.0
<i>Pseudoscleropodium purum</i>	Dg	67.0

<i>Hypericum perforatum</i>		67.0
<i>Achillea millefolium</i> agg.		67.0
<i>Knautia arvensis</i> agg.	Dg	61.0
<i>Galium verum</i>	Dg	61.0
<i>Festuca rubra</i> agg.		61.0
<i>Sorbus aucuparia</i>		56.0
<i>Plagiomnium affine</i> s. l.	Dg	56.0
<i>Hypnum cupressiforme</i> agg.	Dg	56.0
<i>Fragaria vesca</i>		56.0
<i>Vaccinium myrtillus</i>		50.0
<i>Quercus petraea</i>	Dg	50.0
<i>Galium mollugo</i> agg.		50.0
<i>Veronica officinalis</i>	Dg	44.0
<i>Hieracium pilosella</i> s. l.		44.0
Dominant species (1):		
<i>Pleurozium schreberi</i>	Dg, C	17.0

TI Class

VIOLETEA CALAMINARIAE

Swards on soils rich in heavy metals, natural or anthropogenic

Number of relevés: 12

Diagnostic species (43):

<i>Cladonia glauca</i>	C	88.1
<i>Biscutella laevigata</i>	C	86.3
<i>Cladonia pocillum</i>	C	85.3
<i>Cladonia pyxidata</i>	C	84.8
<i>Rumex thyrsiflorus</i>	C	80.7
<i>Armeria maritima</i> s. l.	C	76.5
<i>Diploschistes muscorum</i>	C	72.4
<i>Silene vulgaris</i>	C	72.1
<i>Bacidia bagliettoana</i>	C	69.7
<i>Carex caryophyllea</i>	C	68.9
<i>Dianthus carthusianorum</i>	C	68.7
<i>Mycobilimbia sabuletorum</i>	C	64.0
<i>Gypsophila fastigiata</i>	C	61.4
<i>Baeomyces rufus</i>		57.3
<i>Festuca ovina</i> s. l.	C, Dm	56.6
<i>Euphrasia stricta</i>	C	55.5
<i>Rhinanthus minor</i>	C	54.6
<i>Cladonia furcata</i>	C	49.9
<i>Cladonia foliacea</i>	C	49.5
<i>Weissia controversa</i>		49.4
<i>Cardaminopsis arenosa</i>	C	43.6
<i>Tortella tortuosa</i>	C	36.1
<i>Bryum caespiticium</i>		35.3
<i>Cetraria aculeata</i>		33.3
<i>Thymus pulegioides</i>	C	32.6
<i>Pimpinella saxifraga</i>	C	32.6

<i>Scabiosa ochroleuca</i>	C	32.5
<i>Potentilla arenaria</i>	C	31.3
<i>Carex hirta</i>	C	31.3
<i>Lotus corniculatus</i>	C	28.8
<i>Trapeliopsis flexuosa</i>		28.6
<i>Steinia geophana</i>		28.6
<i>Bacidina phacodes</i>		28.6
<i>Anthyllis vulneraria</i> s. l.		28.6
<i>Malaxis monophyllos</i>		27.4
<i>Leontodon hispidus</i>	C	27.0
<i>Campanula rotundifolia</i>		25.1
<i>Galium boreale</i>		23.6
<i>Linum catharticum</i>		23.3
<i>Galium mollugo</i> agg.	C	23.2
<i>Cladonia subulata</i>		22.3
<i>Gentianella germanica</i> s. l.		22.1
<i>Carlina vulgaris</i>		19.9
Constant species (29):		
<i>Silene vulgaris</i>	Dg	100.0
<i>Festuca ovina</i> s. l.	Dg, Dm	100.0
<i>Cladonia pyxidata</i>	Dg	100.0
<i>Cladonia glauca</i>	Dg	100.0
<i>Dianthus carthusianorum</i>	Dg	92.0
<i>Rumex thyrsiflorus</i>	Dg	83.0
<i>Armeria maritima</i> s. l.	Dg	83.0
<i>Cladonia pocillum</i>	Dg	75.0
<i>Carex caryophyllea</i>	Dg	75.0
<i>Biscutella laevigata</i>	Dg	75.0
<i>Pimpinella saxifraga</i>	Dg	67.0
<i>Diploschistes muscorum</i>	Dg	67.0
<i>Cardaminopsis arenosa</i>	Dg	67.0
<i>Galium mollugo</i> agg.	Dg	58.0
<i>Bacidia bagliettoana</i>	Dg	58.0
<i>Thymus pulegioides</i>	Dg	50.0
<i>Cladonia furcata</i>	Dg	50.0
<i>Tortella tortuosa</i>	Dg	42.0
<i>Scabiosa ochroleuca</i>	Dg	42.0
<i>Rhinanthus minor</i>	Dg	42.0
<i>Potentilla arenaria</i>	Dg	42.0
<i>Mycobilimbia sabuletorum</i>	Dg	42.0
<i>Lotus corniculatus</i>	Dg	42.0
<i>Leontodon hispidus</i>	Dg	42.0
<i>Gypsophila fastigiata</i>	Dg	42.0
<i>Euphrasia stricta</i>	Dg	42.0
<i>Cladonia foliacea</i>	Dg	42.0
<i>Carex hirta</i>	Dg	42.0
<i>Pinus sylvestris</i>		42.0
Dominant species (1):		
<i>Festuca ovina</i> s. l.	Dg, C	50.0

TIA Alliance***Armerion halleri***

North-central European heavy metal tolerant communities of spoil heaps

Number of relevés: 12

Diagnostic species (29):

<i>Biscutella laevigata</i>	C	86.3
<i>Cladonia glauca</i>	C	75.9
<i>Cladonia pocillum</i>	C	75.5
<i>Cladonia pyxidata</i>	C	75.3
<i>Diploschistes muscorum</i>	C	69.7
<i>Bacidia bagliettoana</i>	C	68.1
<i>Mycobilimbia sabuletorum</i>	C	64.2
<i>Baeomyces rufus</i>		57.6
<i>Rumex thyrsoiflorus</i>	C	57.1
<i>Gypsophila fastigiata</i>	C	53.2
<i>Armeria maritima</i> s. l.	C	49.4
<i>Weissia controversa</i>		48.2
<i>Silene vulgaris</i>	C	44.5
<i>Carex caryophyllea</i>	C	41.9
<i>Cladonia foliacea</i>	C	40.2
<i>Rhinanthus minor</i>	C	36.9
<i>Dianthus carthusianorum</i>	C	36.3
<i>Festuca ovina</i> s. l.	C, Dm	33.3
<i>Gentianella germanica</i> s. l.		32.6
<i>Cardaminopsis arenosa</i>	C	32.6
<i>Euphrasia stricta</i>	C	31.2
<i>Cladonia furcata</i>	C	31.0
<i>Tortella tortuosa</i>	C	29.7
<i>Trapeliopsis flexuosa</i>		28.8
<i>Steinia geophana</i>		28.8
<i>Bacidina phacodes</i>		28.8
<i>Cetraria aculeata</i>		26.0
<i>Malaxis monophyllos</i>		25.2
<i>Bryum caespiticium</i>		22.8

Constant species (29):

<i>Silene vulgaris</i>	Dg	100.0
<i>Festuca ovina</i> s. l.	Dg, Dm	100.0
<i>Cladonia pyxidata</i>	Dg	100.0
<i>Cladonia glauca</i>	Dg	100.0
<i>Dianthus carthusianorum</i>	Dg	92.0
<i>Rumex thyrsoiflorus</i>	Dg	83.0
<i>Armeria maritima</i> s. l.	Dg	83.0
<i>Cladonia pocillum</i>	Dg	75.0
<i>Carex caryophyllea</i>	Dg	75.0
<i>Biscutella laevigata</i>	Dg	75.0
<i>Pimpinella saxifraga</i>		67.0
<i>Diploschistes muscorum</i>	Dg	67.0
<i>Cardaminopsis arenosa</i>	Dg	67.0

<i>Galium mollugo</i> agg.		58.0
<i>Bacidia bagliettoana</i>	Dg	58.0
<i>Thymus pulegioides</i>		50.0
<i>Cladonia furcata</i>	Dg	50.0
<i>Tortella tortuosa</i>	Dg	42.0
<i>Scabiosa ochroleuca</i>		42.0
<i>Rhinanthus minor</i>	Dg	42.0
<i>Potentilla arenaria</i>		42.0
<i>Mycobilimbia sabuletorum</i>	Dg	42.0
<i>Lotus corniculatus</i>		42.0
<i>Leontodon hispidus</i>		42.0
<i>Gypsophila fastigiata</i>	Dg	42.0
<i>Euphrasia stricta</i>	Dg	42.0
<i>Cladonia foliacea</i>	Dg	42.0
<i>Carex hirta</i>		42.0
<i>Pinus sylvestris</i>		42.0

Dominant species (1):

<i>Festuca ovina</i> s. l.	Dg, C	50.0
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KA Class

SALICETEA PURPUREAE

Riparian willow scrub and willow-poplar forests

Number of relevés: 95

Diagnostic species (27):

<i>Salix fragilis</i>	C, Dm	70.3
<i>Salix viminalis</i>		51.7
<i>Salix triandra</i>	Dm	47.8
<i>Salix alba</i>	Dm	45.0
<i>Salix purpurea</i>		43.8
<i>Calystegia sepium</i>	C	42.4
<i>Populus nigra</i>	Dm	42.1
<i>Phalaris arundinacea</i>	C	38.7
<i>Humulus lupulus</i>		37.6
<i>Symphytum officinale</i>		36.9
<i>Rubus caesius</i>	C	36.0
<i>Glechoma hederacea</i> s. l.	C	31.6
<i>Galium aparine</i>	C	31.4
<i>Urtica dioica</i>	C, Dm	29.5
<i>Elymus caninus</i>		28.3
<i>Poa trivialis</i>	C	26.2
<i>Impatiens glandulifera</i>		24.9
<i>Myricaria germanica</i>		24.7
<i>Cucubalus baccifer</i>		22.8
<i>Lysimachia nummularia</i>		21.3
<i>Petasites hybridus</i>		21.0
<i>Senecio fluviatilis</i>		20.7
<i>Stachys palustris</i>		20.1
<i>Alnus incana</i>		19.5

<i>Solanum dulcamara</i>		18.7
<i>Lamium maculatum</i>		18.7
<i>Oxyrrhynchium hians</i>		18.2

Constant species (8):

<i>Urtica dioica</i>	Dg, Dm	79.0
<i>Salix fragilis</i>	Dg, Dm	66.0
<i>Galium aparine</i>	Dg	58.0
<i>Rubus caesius</i>	Dg	55.0
<i>Phalaris arundinacea</i>	Dg	54.0
<i>Poa trivialis</i>	Dg	45.0
<i>Calystegia sepium</i>	Dg	45.0
<i>Glechoma hederacea</i> s. l.	Dg	41.0

Dominant species (5):

<i>Salix fragilis</i>	Dg, C	14.0
<i>Salix alba</i>	Dg	11.0
<i>Urtica dioica</i>	Dg, C	8.0
<i>Salix triandra</i>	Dg	5.0
<i>Populus nigra</i>	Dg	4.0

KAA Alliance

Salicion triandrae

Willow scrub of loamy and sandy river banks

Number of relevés: 32

Diagnostic species (14):

<i>Salix triandra</i>	C, Dm	73.3
<i>Salix viminalis</i>	C, Dm	71.3
<i>Salix fragilis</i>	C, Dm	31.5
<i>Calystegia sepium</i>	C	31.3
<i>Salix purpurea</i>	C, Dm	30.5
<i>Senecio fluviatilis</i>		25.7
<i>Symphytum officinale</i>	C	24.9
<i>Humulus lupulus</i>	C	24.4
<i>Helianthus tuberosus</i>		23.1
<i>Phalaris arundinacea</i>	C	22.3
<i>Cucubalus baccifer</i>		22.2
<i>Salix alba</i>		19.9
<i>Rubus caesius</i>	C	19.0
<i>Solanum dulcamara</i>		18.7

Constant species (11):

<i>Urtica dioica</i>	Dm	88.0
<i>Salix viminalis</i>	Dg, Dm	88.0
<i>Salix triandra</i>	Dg, Dm	66.0
<i>Phalaris arundinacea</i>	Dg	66.0
<i>Calystegia sepium</i>	Dg	62.0
<i>Rubus caesius</i>	Dg	56.0
<i>Galium aparine</i>	Dm	56.0
<i>Symphytum officinale</i>	Dg	50.0

<i>Salix fragilis</i>	Dg, Dm	50.0
<i>Humulus lupulus</i>	Dg	44.0
<i>Salix purpurea</i>	Dg, Dm	41.0

Dominant species (9):

<i>Salix triandra</i>	Dg, C	16.0
<i>Urtica dioica</i>	C	12.0
<i>Salix viminalis</i>	Dg, C	6.0
<i>Solidago gigantea</i>		3.0
<i>Salix purpurea</i>	Dg, C	3.0
<i>Salix fragilis</i>	Dg, C	3.0
<i>Geranium robertianum</i>		3.0
<i>Galium aparine</i>	C	3.0
<i>Deschampsia caespitosa</i>		3.0

KAB Alliance

Salicion elaeagno-daphnoidis

Willow scrub on river gravel accumulations

Number of relevés: 9

Diagnostic species (23):

<i>Myricaria germanica</i>	C, Dm	81.0
<i>Salix purpurea</i>	C	59.3
<i>Euphorbia serrulata</i>		47.4
<i>Barbarea vulgaris</i>		42.5
<i>Mentha longifolia</i>	C	39.6
<i>Hypochaeris glabra</i>		39.2
<i>Alnus incana</i>	C	35.0
<i>Equisetum variegatum</i>		34.9
<i>Heliosperma quadridentatum</i>		33.2
<i>Calamagrostis pseudophragmites</i>		31.0
<i>Prunus serotina</i>		30.7
<i>Elymus caninus</i>	C	30.7
<i>Sambucus ebulus</i>		29.4
<i>Cruciata glabra</i>		28.0
<i>Tussilago farfara</i>	C	27.6
<i>Crepis biennis</i>		26.3
<i>Verbascum nigrum</i>		25.6
<i>Petasites hybridus</i>		25.0
<i>Verbena officinalis</i>		24.6
<i>Myosotis sylvatica</i>		24.0
<i>Trifolium hybridum</i>		21.5
<i>Rorippa sylvestris</i>		19.7
<i>Rumex obtusifolius</i>		19.4

Constant species (19):

<i>Salix purpurea</i>	Dg	78.0
<i>Myricaria germanica</i>	Dg, Dm	67.0
<i>Tussilago farfara</i>	Dg	56.0
<i>Plantago lanceolata</i>		56.0
<i>Hieracium pilosella</i> s. l.		56.0

<i>Trifolium repens</i>		44.0
<i>Trifolium pratense</i> s. l.		44.0
<i>Ranunculus repens</i>		44.0
<i>Prunella vulgaris</i>		44.0
<i>Mentha longifolia</i>	Dg	44.0
<i>Medicago lupulina</i>		44.0
<i>Lycopus europaeus</i>		44.0
<i>Festuca rubra</i> agg.		44.0
<i>Elymus caninus</i>	Dg	44.0
<i>Dactylis glomerata</i>		44.0
<i>Cirsium arvense</i>		44.0
<i>Arenaria serpyllifolia</i> agg.		44.0
<i>Alnus incana</i>	Dg	44.0
<i>Achillea millefolium</i> agg.		44.0

Dominant species (1):

<i>Myricaria germanica</i>	Dg, C	11.0
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KAC Alliance

Salicion albae

Willow poplar-forests of lowland rivers

Number of relevés: 54

Diagnostic species (11):

<i>Salix fragilis</i>	C, Dm	53.3
<i>Salix alba</i>	C, Dm	42.9
<i>Populus nigra</i>	Dm	38.5
<i>Humulus lupulus</i>	C	24.8
<i>Rubus caesius</i>	C, Dm	21.4
<i>Calystegia sepium</i>	C	20.9
<i>Glechoma hederacea</i> s. l.	C	19.2
<i>Galium aparine</i>	C	18.9
<i>Populus alba</i>		18.7
<i>Phalaris arundinacea</i>	C	18.6
<i>Impatiens glandulifera</i>		18.3

Constant species (11):

<i>Urtica dioica</i>	Dm	87.0
<i>Salix fragilis</i>	Dg, Dm	83.0
<i>Galium aparine</i>	Dg	69.0
<i>Rubus caesius</i>	Dg, Dm	63.0
<i>Poa trivialis</i>		56.0
<i>Phalaris arundinacea</i>	Dg	56.0
<i>Glechoma hederacea</i> s. l.	Dg	52.0
<i>Salix alba</i>	Dg, Dm	46.0
<i>Humulus lupulus</i>	Dg	44.0
<i>Calystegia sepium</i>	Dg	43.0
<i>Alnus glutinosa</i>		41.0

Dominant species (6):

<i>Salix fragilis</i>	Dg, C	22.0
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<i>Salix alba</i>	Dg, C	19.0
<i>Urtica dioica</i>	C	7.0
<i>Populus nigra</i>	Dg	7.0
<i>Rubus caesius</i>	Dg, C	4.0
<i>Padus avium</i>		4.0

KB Class

RHAMNO-PRUNETEA

Mesic and xeric scrub

Number of relevés: 717

Diagnostic species (4):

<i>Prunus spinosa</i>	Dm	28.9
<i>Sambucus nigra</i>	Dm	21.9
<i>Cerasus fruticosa</i>		21.3
<i>Rosa canina</i>		19.7

Constant species (1):

<i>Urtica dioica</i>		42.0
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Dominant species (3):

<i>Prunus spinosa</i>	Dg	13.0
<i>Corylus avellana</i>		5.0
<i>Sambucus nigra</i>	Dg	5.0

KBA Alliance

Prunion fruticosae

Low xeric scrub

Number of relevés: 59

Diagnostic species (14):

<i>Cerasus fruticosa</i>	C, Dm	75.3
<i>Festuca rupicola</i>	C	36.2
<i>Lembotropis nigricans</i>		29.7
<i>Salvia pratensis</i>	C	26.1
<i>Achillea pannonica</i>	C	26.1
<i>Thymus marschallianus</i>		24.2
<i>Stachys recta</i>		23.1
<i>Anemone sylvestris</i>		22.6
<i>Origanum vulgare</i>	C	22.0
<i>Campanula sibirica</i>		20.3
<i>Galium verum</i>	C	20.1
<i>Thalictrum minus</i>		19.5
<i>Asperula cynanchica</i>		18.7
<i>Lavatera thuringiaca</i>		18.1

Constant species (10):

<i>Cerasus fruticosa</i>	Dg, Dm	81.0
<i>Galium verum</i>	Dg	66.0
<i>Euphorbia cyparissias</i>		61.0

<i>Salvia pratensis</i>	Dg	58.0
<i>Medicago falcata</i>		54.0
<i>Achillea pannonica</i>	Dg	54.0
<i>Origanum vulgare</i>	Dg	47.0
<i>Rosa canina</i>		46.0
<i>Phleum phleoides</i>		44.0
<i>Festuca rupicola</i>	Dg	42.0
Dominant species (2):		
<i>Cerasus fruticosa</i>	Dg, C	24.0
<i>Brachypodium pinnatum</i>		3.0

KBB Alliance

Berberidion vulgaris

Tall mesic and xeric scrub

Number of relevés: 229

Diagnostic species (2):

<i>Prunus spinosa</i>	C, Dm	36.0
<i>Crataegus monogyna</i> s. l.	Dm	18.4

Constant species (2):

<i>Prunus spinosa</i>	Dg, Dm	85.0
<i>Rosa canina</i>		44.0

Dominant species (2):

<i>Prunus spinosa</i>	Dg, C	40.0
<i>Crataegus monogyna</i> s. l.	Dg	3.0

KBC Alliance

Sambuco-Salicion capreae

Mesic scrub in forest clearings, canopy openings and disturbed sites

Number of relevés: 284

Diagnostic species (0):

Constant species (4):

<i>Rubus idaeus</i>		67.0
<i>Sorbus aucuparia</i>		64.0
<i>Quercus robur</i>	Dm	44.0
<i>Urtica dioica</i>		42.0

Dominant species (3):

<i>Corylus avellana</i>		9.0
<i>Quercus robur</i>	C	6.0
<i>Calamagrostis epigejos</i>		4.0

KBD Alliance***Aegopodio podagrariae-Sambucion nigrae***Nitrophilous scrub with *Sambucus nigra* in ruderal habitats

Number of relevés: 103

Diagnostic species (3):

<i>Lycium barbarum</i>	Dm	33.3
<i>Sambucus nigra</i>	C, Dm	31.4
<i>Geum urbanum</i> s. l.	C	20.9

Constant species (4):

<i>Sambucus nigra</i>	Dg, Dm	80.0
<i>Urtica dioica</i>	Dm	76.0
<i>Geum urbanum</i> s. l.	Dg	57.0
<i>Galium aparine</i>	Dm	50.0

Dominant species (4):

<i>Sambucus nigra</i>	Dg, C	38.0
<i>Lycium barbarum</i>	Dg	14.0
<i>Urtica dioica</i>	C	12.0
<i>Galium aparine</i>	C	4.0

KBH Alliance***Salicion arenariae***

Dunes scrub

Number of relevés: 42

Diagnostic species (19):

<i>Lonicera periclymenum</i>	C	50.3
<i>Carex arenaria</i>	C	42.9
<i>Ribes alpinum</i>	C	38.8
<i>Hieracium umbellatum</i>	C	34.6
<i>Polypodium vulgare</i>	C	31.0
<i>Hippophaë rhamnoides</i>		31.0
<i>Pseudoscleropodium purum</i>	C, Dm	30.8
<i>Populus tremula</i>	C	28.0
<i>Ribes spicatum</i> s. l.		27.0
<i>Sorbus aucuparia</i>	C	24.2
<i>Moehringia trinervia</i>	C	23.1
<i>Orthilia secunda</i>		22.1
<i>Lonicera xylostemum</i>		21.6
<i>Betula pendula</i>	C	21.6
<i>Fragaria vesca</i>	C	19.7
<i>Rosa canina</i>	C	19.6
<i>Melampyrum pratense</i>		19.4
<i>Salix caprea</i>		18.6
<i>Galium mollugo</i> agg.	C	18.3

Constant species (24):

<i>Sorbus aucuparia</i>	Dg	95.0
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<i>Galium mollugo</i> agg.	Dg	81.0
<i>Carex arenaria</i>	Dg	81.0
<i>Hieracium umbellatum</i>	Dg	79.0
<i>Poa pratensis</i> s. l.		71.0
<i>Betula pendula</i>	Dg	71.0
<i>Populus tremula</i>	Dg	69.0
<i>Fragaria vesca</i>	Dg	69.0
<i>Pinus sylvestris</i>	Dm	69.0
<i>Deschampsia flexuosa</i>		67.0
<i>Polypodium vulgare</i>	Dg	57.0
<i>Veronica chamaedrys</i>		55.0
<i>Moehringia trinervia</i>	Dg	55.0
<i>Taraxacum</i> sect. <i>Ruderalia</i>		52.0
<i>Rosa canina</i>	Dg	52.0
<i>Lonicera periclymenum</i>	Dg	52.0
<i>Ribes alpinum</i>	Dg	50.0
<i>Pseudoscleropodium purum</i>	Dg, Dm	50.0
<i>Pleurozium schreberi</i>		50.0
<i>Frangula alnus</i>		50.0
<i>Anthoxanthum odoratum</i> s. l.		50.0
<i>Rubus caesius</i>		48.0
<i>Quercus robur</i>	Dm	48.0
<i>Solidago virgaurea</i>		45.0

Dominant species (3):

<i>Pinus sylvestris</i>	C	7.0
<i>Quercus robur</i>	C	5.0
<i>Pseudoscleropodium purum</i>	Dg, C	5.0

KC Class

ROSO PENDULINAE-PINETEA MUGO

Subalpine krummholz vegetation

Number of relevés: 16

Diagnostic species (22):

<i>Pinus mugo</i>	C, Dm	80.4
<i>Athyrium distentifolium</i>	C	70.4
<i>Calamagrostis villosa</i>	C	48.7
<i>Ribes petraeum</i>		47.3
<i>Dryopteris carthusiana</i> s. l.	C	36.3
<i>Deschampsia flexuosa</i>	C	36.2
<i>Homogyne alpina</i>	C	34.5
<i>Listera cordata</i>		34.1
<i>Lonicera nigra</i>		33.6
<i>Vaccinium myrtillus</i>	C, Dm	33.5
<i>Salix silesiaca</i>	C	31.0
<i>Vaccinium vitis-idaea</i>	C	30.7
<i>Veratrum lobelianum</i>		29.1
<i>Rubus idaeus</i>	C	27.9
<i>Sedum fabaria</i>		25.7

<i>Chamaenerion angustifolium</i>		24.1
<i>Oxalis acetosella</i>	C	24.0
<i>Hylocomiastrum umbratum</i>		23.2
<i>Gymnocarpium dryopteris</i>		21.5
<i>Luzula sylvatica</i>		20.6
<i>Picea abies</i>	C	19.6
<i>Sorbus aucuparia</i>	C	19.1

Constant species (13):

<i>Vaccinium myrtillus</i>	Dg, Dm	100.0
<i>Pinus mugo</i>	Dg, Dm	100.0
<i>Deschampsia flexuosa</i>	Dg	88.0
<i>Athyrium distentifolium</i>	Dg	88.0
<i>Vaccinium vitis-idaea</i>	Dg	75.0
<i>Dryopteris carthusiana</i> s. l.	Dg	69.0
<i>Rubus idaeus</i>	Dg	62.0
<i>Homogyne alpina</i>	Dg	62.0
<i>Calamagrostis villosa</i>	Dg	62.0
<i>Sorbus aucuparia</i>	Dg	50.0
<i>Picea abies</i>	Dg	50.0
<i>Oxalis acetosella</i>	Dg	50.0
<i>Salix silesiaca</i>	Dg	44.0

Dominant species (2):

<i>Pinus mugo</i>	Dg, C	88.0
<i>Vaccinium myrtillus</i>	Dg, C	56.0

KCA Alliance

Pinion mugo

Subalpine dwarf pine scrub

Number of relevés: 16

Diagnostic species (11):

<i>Pinus mugo</i>	C, Dm	65.4
<i>Athyrium distentifolium</i>	C	42.3
<i>Ribes petraeum</i>		32.9
<i>Listera cordata</i>		32.0
<i>Calamagrostis villosa</i>	C	30.0
<i>Salix silesiaca</i>	C	23.6
<i>Vaccinium vitis-idaea</i>	C	23.4
<i>Deschampsia flexuosa</i>	C	23.4
<i>Dryopteris carthusiana</i> s. l.	C	22.6
<i>Homogyne alpina</i>	C	22.5
<i>Vaccinium myrtillus</i>	C, Dm	21.9

Constant species (13):

<i>Vaccinium myrtillus</i>	Dg, Dm	100.0
<i>Pinus mugo</i>	Dg, Dm	100.0
<i>Deschampsia flexuosa</i>	Dg	88.0
<i>Athyrium distentifolium</i>	Dg	88.0
<i>Vaccinium vitis-idaea</i>	Dg	75.0

<i>Dryopteris carthusiana</i> s. l.	Dg	69.0
<i>Rubus idaeus</i>		62.0
<i>Homogyne alpina</i>	Dg	62.0
<i>Calamagrostis villosa</i>	Dg	62.0
<i>Sorbus aucuparia</i>		50.0
<i>Picea abies</i>		50.0
<i>Oxalis acetosella</i>		50.0
<i>Salix silesiaca</i>	Dg	44.0

Dominant species (2):

<i>Pinus mugo</i>	Dg, C	88.0
<i>Vaccinium myrtillus</i>	Dg, C	56.0

KD Class

ROBINIETEA

Robinia groves

Number of relevés: 63

Diagnostic species (29):

<i>Robinia pseudacacia</i>	C, Dm	94.6
<i>Chelidonium majus</i>	C, Dm	47.6
<i>Ballota nigra</i>		45.5
<i>Chaerophyllum temulum</i>		40.7
<i>Arctium minus</i>		39.4
<i>Bromus sterilis</i>	Dm	36.3
<i>Acer negundo</i>		35.6
<i>Sambucus nigra</i>	C, Dm	35.5
<i>Sisymbrium loeselii</i>		33.9
<i>Solidago canadensis</i> s. l.		33.4
<i>Veronica hederifolia</i>		33.2
<i>Lonicera tatarica</i>		33.0
<i>Artemisia vulgaris</i>	C	29.4
<i>Geum urbanum</i> s. l.	C	28.1
<i>Clematis vitalba</i>		26.9
<i>Galeopsis pubescens</i>		24.8
<i>Hieracium floribundum</i>		24.2
<i>Ulmus glabra</i>		23.7
<i>Lamium purpureum</i>		23.2
<i>Myosotis sparsiflora</i>		22.7
<i>Fallopia convolvulus</i>		22.5
<i>Prunus cerasifera</i>		22.2
<i>Urtica dioica</i>	C	21.9
<i>Galium aparine</i>	C, Dm	21.2
<i>Anthriscus sylvestris</i>		21.1
<i>Taraxacum</i> sect. <i>Ruderalia</i>	C	20.1
<i>Solidago gigantea</i>		20.0
<i>Acer platanoides</i>		18.7
<i>Arrhenatherum elatius</i>	Dm	18.1

Constant species (8):

<i>Robinia pseudacacia</i>	Dg, Dm	100.0
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<i>Urtica dioica</i>	Dg	62.0
<i>Sambucus nigra</i>	Dg, Dm	56.0
<i>Artemisia vulgaris</i>	Dg	56.0
<i>Chelidonium majus</i>	Dg, Dm	54.0
<i>Taraxacum</i> sect. <i>Ruderalia</i>	Dg	51.0
<i>Geum urbanum</i> s. l.	Dg	46.0
<i>Galium aparine</i>	Dg, Dm	41.0

Dominant species (7):

<i>Robinia pseudacacia</i>	Dg, C	59.0
<i>Bromus sterilis</i>	Dg	10.0
<i>Sambucus nigra</i>	Dg, C	5.0
<i>Arrhenatherum elatius</i>		5.0
<i>Impatiens parviflora</i>		3.0
<i>Galium aparine</i>	Dg, C	3.0
<i>Chelidonium majus</i>	Dg, C	3.0

KDA Alliance

Chelidonio-Robinion

Robinia groves on mesic, eutrophic soils

Number of relevés: 63

Diagnostic species (16):

<i>Robinia pseudacacia</i>	C, Dm	83.8
<i>Lonicera tatarica</i>		33.2
<i>Chelidonium majus</i>	C, Dm	33.1
<i>Solidago canadensis</i> s. l.		26.4
<i>Arctium minus</i>		25.4
<i>Clematis vitalba</i>		23.9
<i>Chaerophyllum temulum</i>		23.6
<i>Acer negundo</i>		23.5
<i>Hieracium floribundum</i>		23.4
<i>Ballota nigra</i>		23.2
<i>Bromus sterilis</i>	Dm	22.6
<i>Veronica hederifolia</i>		21.8
<i>Sisymbrium loeselii</i>		21.4
<i>Sambucus nigra</i>	C, Dm	21.4
<i>Myosotis sparsiflora</i>		18.9
<i>Prunus cerasifera</i>		18.4

Constant species (8):

<i>Robinia pseudacacia</i>	Dg, Dm	100.0
<i>Urtica dioica</i>		62.0
<i>Sambucus nigra</i>	Dg, Dm	56.0
<i>Artemisia vulgaris</i>		56.0
<i>Chelidonium majus</i>	Dg, Dm	54.0
<i>Taraxacum</i> sect. <i>Ruderalia</i>		51.0
<i>Geum urbanum</i> s. l.		46.0
<i>Galium aparine</i>	Dm	41.0

Dominant species (7):

<i>Robinia pseudacacia</i>	Dg, C	59.0
<i>Bromus sterilis</i>	Dg	10.0
<i>Sambucus nigra</i>	Dg, C	5.0
<i>Arrhenatherum elatius</i>		5.0
<i>Impatiens parviflora</i>		3.0
<i>Galium aparine</i>	C	3.0
<i>Chelidonium majus</i>	Dg, C	3.0

LA Class**ALNETEA GLUTINOSAE**

Alder and willow carrs

Number of relevés: 312

Diagnostic species (52):

<i>Carex elongata</i>	C	70.5
<i>Peucedanum palustre</i>	C	61.7
<i>Thelypteris palustris</i>	C	54.9
<i>Alnus glutinosa</i>	C, Dm	53.0
<i>Solanum dulcamara</i>	C	50.5
<i>Lycopus europaeus</i>	C	48.2
<i>Iris pseudacorus</i>	C	45.8
<i>Calamagrostis canescens</i>	C	45.8
<i>Lysimachia vulgaris</i>	C	44.4
<i>Salix cinerea</i>	C, Dm	43.9
<i>Scutellaria galericulata</i>	C	42.1
<i>Carex acutiformis</i>	C	40.6
<i>Galium palustre</i> agg.	C	40.3
<i>Mnium hornum</i>		39.2
<i>Carex pseudocyperus</i>		34.6
<i>Frangula alnus</i>	C, Dm	33.9
<i>Calliergonella cuspidata</i>	C	33.6
<i>Sphagnum squarrosum</i>		32.6
<i>Calla palustris</i>		31.3
<i>Lythrum salicaria</i>	C	30.0
<i>Salix pentandra</i>		29.9
<i>Ribes nigrum</i>		29.9
<i>Climacium dendroides</i>		28.6
<i>Caltha palustris</i>		28.4
<i>Viola palustris</i>		27.3
<i>Eupatorium cannabinum</i>		26.8
<i>Calliergon cordifolium</i>		26.4
<i>Betula pubescens</i>		26.3
<i>Lysimachia thyrsiflora</i>		25.8
<i>Cirsium palustre</i>		25.5
<i>Filipendula ulmaria</i>		25.2
<i>Athyrium filix-femina</i>		24.6
<i>Sphagnum palustre</i> s. l.		24.0
<i>Padus avium</i>		22.4
<i>Dryopteris carthusiana</i> s. l.	C	22.3

<i>Cardamine amara</i> subsp. <i>amara</i>		22.2
<i>Impatiens noli-tangere</i>		22.1
<i>Comarum palustre</i>		21.9
<i>Dryopteris cristata</i>		21.9
<i>Humulus lupulus</i>		21.0
<i>Equisetum fluviatile</i>		20.9
<i>Carex vesicaria</i>		20.6
<i>Cirsium oleraceum</i>		20.2
<i>Deschampsia caespitosa</i>	C	20.1
<i>Plagiomnium undulatum</i>		19.9
<i>Carex paniculata</i>		19.7
<i>Brachythecium rutabulum</i>		19.5
<i>Scirpus sylvaticus</i>		19.0
<i>Plagiothecium ruthei</i>		18.9
<i>Myosotis palustris</i> agg.		18.8
<i>Juncus effusus</i>		18.8
<i>Carex elata</i>		18.6

Constant species (19):

<i>Alnus glutinosa</i>	Dg, Dm	83.0
<i>Lysimachia vulgaris</i>	Dg	78.0
<i>Lycopus europaeus</i>	Dg	72.0
<i>Peucedanum palustre</i>	Dg	67.0
<i>Frangula alnus</i>	Dg	67.0
<i>Galium palustre</i> agg.	Dg	66.0
<i>Carex elongata</i>	Dg	61.0
<i>Solanum dulcamara</i>	Dg	60.0
<i>Urtica dioica</i>		54.0
<i>Thelypteris palustris</i>	Dg	51.0
<i>Iris pseudacorus</i>	Dg	50.0
<i>Deschampsia caespitosa</i>	Dg	50.0
<i>Salix cinerea</i>	Dg, Dm	46.0
<i>Dryopteris carthusiana</i> s. l.	Dg	45.0
<i>Lythrum salicaria</i>	Dg	44.0
<i>Carex acutiformis</i>	Dg	44.0
<i>Calamagrostis canescens</i>	Dg	42.0
<i>Scutellaria galericulata</i>	Dg	41.0
<i>Calliergonella cuspidata</i>	Dg	41.0

Dominant species (2):

<i>Alnus glutinosa</i>	Dg, C	49.0
<i>Salix cinerea</i>	Dg, C	12.0

LAA Alliance

Alnion glutinosae

Alder carrs

Number of relevés: 223

Diagnostic species (20):

<i>Carex elongata</i>	C	61.4
<i>Alnus glutinosa</i>	C, Dm	40.2

<i>Peucedanum palustre</i>	C	38.5
<i>Solanum dulcamara</i>	C	33.7
<i>Mnium hornum</i>		33.1
<i>Ribes nigrum</i>		32.3
<i>Thelypteris palustris</i>	C	28.8
<i>Lycopus europaeus</i>	C	28.6
<i>Iris pseudacorus</i>	C	27.7
<i>Scutellaria galericulata</i>	C	27.3
<i>Carex acutiformis</i>	C, Dm	25.5
<i>Calamagrostis canescens</i>	C	25.0
<i>Lysimachia vulgaris</i>	C	24.1
<i>Galium palustre</i> agg.	C	21.2
<i>Frangula alnus</i>	C	19.7
<i>Cardamine amara</i> subsp. <i>amara</i>		19.5
<i>Impatiens noli-tangere</i>	C	19.1
<i>Dryopteris carthusiana</i> s. l.	C	19.0
<i>Athyrium filix-femina</i>	C	18.8
<i>Caltha palustris</i>	C	18.7
Constant species (21):		
<i>Alnus glutinosa</i>	Dg, Dm	99.0
<i>Lysimachia vulgaris</i>	Dg	83.0
<i>Lycopus europaeus</i>	Dg	78.0
<i>Peucedanum palustre</i>	Dg	74.0
<i>Carex elongata</i>	Dg	74.0
<i>Galium palustre</i> agg.	Dg	72.0
<i>Solanum dulcamara</i>	Dg	66.0
<i>Frangula alnus</i>	Dg	66.0
<i>Urtica dioica</i>		64.0
<i>Deschampsia caespitosa</i>		61.0
<i>Dryopteris carthusiana</i> s. l.	Dg	59.0
<i>Iris pseudacorus</i>	Dg	56.0
<i>Thelypteris palustris</i>	Dg	52.0
<i>Carex acutiformis</i>	Dg, Dm	50.0
<i>Athyrium filix-femina</i>	Dg	50.0
<i>Scutellaria galericulata</i>	Dg	48.0
<i>Caltha palustris</i>	Dg	45.0
<i>Impatiens noli-tangere</i>	Dg	42.0
<i>Calamagrostis canescens</i>	Dg	42.0
<i>Sorbus aucuparia</i>		41.0
<i>Lythrum salicaria</i>		41.0
Dominant species (2):		
<i>Alnus glutinosa</i>	Dg, C	68.0
<i>Carex acutiformis</i>	Dg, C	4.0

LAB Alliance***Salicion cinereae***

Willow carrs

Number of relevés: 89

Diagnostic species (20):

<i>Salix cinerea</i>	C, Dm	45.5
<i>Salix pentandra</i>		42.0
<i>Sphagnum squarrosum</i>		29.2
<i>Thelypteris palustris</i>	C, Dm	28.3
<i>Dryopteris cristata</i>		27.6
<i>Myrica gale</i>	Dm	26.5
<i>Peucedanum palustre</i>	C	25.3
<i>Calamagrostis canescens</i>	C	24.9
<i>Carex pseudocyperus</i>		24.0
<i>Solanum dulcamara</i>	C	23.2
<i>Carex elongata</i>		23.0
<i>Comarum palustre</i>	C	22.2
<i>Calliergon cordifolium</i>		21.8
<i>Frangula alnus</i>	C	20.8
<i>Lycopus europaeus</i>	C	20.7
<i>Sphagnum palustre</i> s. l.		19.9
<i>Betula pubescens</i>	C	19.5
<i>Lysimachia vulgaris</i>	C	19.3
<i>Carex appropinquata</i>		18.3
<i>Iris pseudacorus</i>		18.1

Constant species (14):

<i>Salix cinerea</i>	Dg, Dm	87.0
<i>Frangula alnus</i>	Dg	70.0
<i>Lysimachia vulgaris</i>	Dg	67.0
<i>Lycopus europaeus</i>	Dg	57.0
<i>Lythrum salicaria</i>		53.0
<i>Galium palustre</i> agg.		53.0
<i>Thelypteris palustris</i>	Dg, Dm	51.0
<i>Comarum palustre</i>	Dg	51.0
<i>Peucedanum palustre</i>	Dg	49.0
<i>Calliergonella cuspidata</i>		49.0
<i>Betula pubescens</i>	Dg	48.0
<i>Solanum dulcamara</i>	Dg	46.0
<i>Alnus glutinosa</i>		44.0
<i>Calamagrostis canescens</i>	Dg	42.0

Dominant species (4):

<i>Salix cinerea</i>	Dg, C	42.0
<i>Myrica gale</i>	Dg	7.0
<i>Sphagnum recurvum</i> agg.		4.0
<i>Thelypteris palustris</i>	Dg, C	3.0

LB Class**CARPINO-FAGETEA**

Broad-leaved deciduous forests

Number of relevés: 3210

Diagnostic species (28):

<i>Galeobdolon luteum</i> s. l.	C	37.4
<i>Galium odoratum</i>		33.5
<i>Fagus sylvatica</i>	C, Dm	31.6
<i>Dentaria bulbifera</i>		28.9
<i>Viola reichenbachiana</i>		28.4
<i>Polygonatum multiflorum</i>		27.8
<i>Anemone nemorosa</i>	C	27.8
<i>Mercurialis perennis</i>		27.0
<i>Pulmonaria officinalis</i> s. l.		26.6
<i>Oxalis acetosella</i>	C	25.0
<i>Acer pseudoplatanus</i>	C	24.9
<i>Milium effusum</i>		24.6
<i>Carex sylvatica</i>		24.4
<i>Asarum europaeum</i>		24.4
<i>Maianthemum bifolium</i>		23.0
<i>Carpinus betulus</i>	Dm	23.0
<i>Stellaria holostea</i>		22.7
<i>Stachys sylvatica</i>		21.9
<i>Athyrium filix-femina</i>		21.7
<i>Tilia cordata</i>		21.6
<i>Paris quadrifolia</i>		20.9
<i>Aegopodium podagraria</i>		20.8
<i>Fraxinus excelsior</i>	Dm	20.2
<i>Sanicula europaea</i>		20.1
<i>Abies alba</i>		20.1
<i>Ficaria verna</i>		19.6
<i>Acer platanoides</i>		18.6
<i>Dryopteris filix-mas</i> s. l.		18.4

Constant species (5):

<i>Oxalis acetosella</i>	Dg	52.0
<i>Fagus sylvatica</i>	Dg, Dm	47.0
<i>Galeobdolon luteum</i> s. l.	Dg	45.0
<i>Acer pseudoplatanus</i>	Dg	41.0
<i>Anemone nemorosa</i>	Dg	41.0

Dominant species (5):

<i>Fagus sylvatica</i>	Dg, C	22.0
<i>Alnus glutinosa</i>		7.0
<i>Quercus robur</i>		5.0
<i>Carpinus betulus</i>	Dg	5.0
<i>Fraxinus excelsior</i>	Dg	3.0

LBA Alliance***Alnion incanae***

Ash-alder alluvial forests

Number of relevés: 1022

Diagnostic species (9):

<i>Ficaria verna</i>	C	27.2
<i>Gagea lutea</i>		23.9
<i>Alnus glutinosa</i>	C, Dm	23.2
<i>Circaea lutetiana</i>		22.4
<i>Padus avium</i>	C	22.3
<i>Fraxinus excelsior</i>	C, Dm	20.8
<i>Impatiens noli-tangere</i>	C, Dm	20.6
<i>Stachys sylvatica</i>	C	19.8
<i>Euonymus europaea</i>		18.1

Constant species (13):

<i>Urtica dioica</i>		65.0
<i>Alnus glutinosa</i>	Dg, Dm	59.0
<i>Fraxinus excelsior</i>	Dg, Dm	55.0
<i>Aegopodium podagraria</i>		52.0
<i>Padus avium</i>	Dg	49.0
<i>Quercus robur</i>	Dm	48.0
<i>Anemone nemorosa</i>		47.0
<i>Impatiens noli-tangere</i>	Dg, Dm	45.0
<i>Geum urbanum</i> s. l.		45.0
<i>Deschampsia caespitosa</i>		45.0
<i>Stachys sylvatica</i>	Dg	41.0
<i>Ficaria verna</i>	Dg	41.0
<i>Galium aparine</i>		41.0

Dominant species (6):

<i>Alnus glutinosa</i>	Dg, C	21.0
<i>Quercus robur</i>	C	8.0
<i>Fraxinus excelsior</i>	Dg, C	8.0
<i>Alnus incana</i>		6.0
<i>Impatiens noli-tangere</i>	Dg, C	3.0
<i>Carpinus betulus</i>		3.0

LBB Alliance***Carpinion betuli***

Oak-hornbeam forests

Number of relevés: 341

Diagnostic species (14):

<i>Carpinus betulus</i>	C, Dm	32.7
<i>Polygonatum multiflorum</i>		26.3
<i>Lathyrus vernus</i>		24.1
<i>Tilia cordata</i>	C, Dm	22.9
<i>Pulmonaria officinalis</i> s. l.		22.8

<i>Hepatica nobilis</i>		22.4
<i>Viola reichenbachiana</i>	C	21.9
<i>Stellaria holostea</i>		21.9
<i>Melica nutans</i>	C	21.4
<i>Galeobdolon luteum</i> s. l.	C	21.4
<i>Dactylis polygama</i>		20.1
<i>Maianthemum bifolium</i>	C	19.5
<i>Anemone nemorosa</i>	C	18.9
<i>Milium effusum</i>		18.3

Constant species (12):

<i>Carpinus betulus</i>	Dg, Dm	77.0
<i>Quercus robur</i>	Dm	59.0
<i>Melica nutans</i>	Dg	53.0
<i>Maianthemum bifolium</i>	Dg	53.0
<i>Poa nemoralis</i>		51.0
<i>Viola reichenbachiana</i>	Dg	50.0
<i>Galeobdolon luteum</i> s. l.	Dg	50.0
<i>Anemone nemorosa</i>	Dg	50.0
<i>Tilia cordata</i>	Dg, Dm	46.0
<i>Corylus avellana</i>	Dm	44.0
<i>Sorbus aucuparia</i>		42.0
<i>Oxalis acetosella</i>		41.0

Dominant species (6):

<i>Carpinus betulus</i>	Dg, C	21.0
<i>Quercus robur</i>	C	10.0
<i>Tilia cordata</i>	Dg, C	7.0
<i>Quercus petraea</i>		5.0
<i>Fagus sylvatica</i>		4.0
<i>Corylus avellana</i>	C	4.0

LBC Alliance

Fagion sylvaticae

Eutrophic beech forests

Number of relevés: 727

Diagnostic species (15):

<i>Galium odoratum</i>	C	37.5
<i>Dentaria bulbifera</i>		30.0
<i>Galeobdolon luteum</i> s. l.	C	29.2
<i>Fagus sylvatica</i>	C, Dm	27.5
<i>Viola reichenbachiana</i>	C	26.6
<i>Mercurialis perennis</i>		22.0
<i>Dryopteris filix-mas</i> s. l.	C	21.4
<i>Carex sylvatica</i>		20.7
<i>Oxalis acetosella</i>	C	20.6
<i>Dentaria glandulosa</i>		20.0
<i>Festuca altissima</i>		19.7
<i>Acer pseudoplatanus</i>	C	19.4
<i>Actaea spicata</i>		19.2

<i>Athyrium filix-femina</i>	C	18.7
<i>Sanicula europaea</i>		18.0

Constant species (11):

<i>Fagus sylvatica</i>	Dg, Dm	80.0
<i>Galium odoratum</i>	Dg	73.0
<i>Oxalis acetosella</i>	Dg	72.0
<i>Galeobdolon luteum</i> s. l.	Dg	66.0
<i>Viola reichenbachiana</i>	Dg	60.0
<i>Acer pseudoplatanus</i>	Dg	58.0
<i>Dryopteris filix-mas</i> s. l.	Dg	51.0
<i>Athyrium filix-femina</i>	Dg	50.0
<i>Anemone nemorosa</i>		45.0
<i>Mycelis muralis</i>		42.0
<i>Maianthemum bifolium</i>		41.0

Dominant species (3):

<i>Fagus sylvatica</i>	Dg, C	55.0
<i>Abies alba</i>		5.0
<i>Carpinus betulus</i>		4.0

LBD Alliance

Sorbo-Fagion sylvaticae

Calcicole beech forests

Number of relevés: 35

Diagnostic species (36):

<i>Cephalanthera damasonium</i>	C	78.0
<i>Fragaria moschata</i>	C	56.3
<i>Epipactis helleborine</i> s. l.	C	55.9
<i>Daphne mezereum</i>	C	42.8
<i>Hepatica nobilis</i>	C	42.4
<i>Carex digitata</i>	C	37.7
<i>Fagus sylvatica</i>	C, Dm	33.8
<i>Mercurialis perennis</i>	C	33.7
<i>Lonicera xylosteum</i>	C	32.9
<i>Brachypodium sylvaticum</i>	C	31.8
<i>Mycelis muralis</i>	C	31.1
<i>Sanicula europaea</i>		30.8
<i>Neottia nidus-avis</i>		30.5
<i>Cephalanthera rubra</i>		30.4
<i>Actaea spicata</i>		30.1
<i>Campanula persicifolia</i>	C	29.7
<i>Hieracium murorum</i>	C	29.1
<i>Convallaria majalis</i>	C	28.1
<i>Lathyrus vernus</i>	C	27.9
<i>Corallorhiza trifida</i>		27.0
<i>Hypericum montanum</i>		25.9
<i>Galium odoratum</i>	C	25.9
<i>Melica nutans</i>	C	25.6
<i>Pyrola chlorantha</i>		25.2

<i>Aquilegia vulgaris</i>		24.3
<i>Orthilia secunda</i>		23.9
<i>Melittis melissophyllum</i>		22.5
<i>Acer platanoides</i>	C	22.3
<i>Hedera helix</i>		21.8
<i>Campanula trachelium</i>		20.9
<i>Poa nemoralis</i>	C	20.3
<i>Acer pseudoplatanus</i>	C	20.3
<i>Ulmus glabra</i>		20.2
<i>Viburnum opulus</i>		20.0
<i>Sorbus aucuparia</i>	C	19.9
<i>Crataegus ×macrocarpa</i>		18.8

Constant species (24):

<i>Fagus sylvatica</i>	Dg, Dm	97.0
<i>Sorbus aucuparia</i>	Dg	80.0
<i>Carex digitata</i>	Dg	80.0
<i>Mycelis muralis</i>	Dg	71.0
<i>Cephalanthera damasonium</i>	Dg	71.0
<i>Hieracium murorum</i>	Dg	69.0
<i>Hepatica nobilis</i>	Dg	69.0
<i>Daphne mezereum</i>	Dg	66.0
<i>Poa nemoralis</i>	Dg	63.0
<i>Melica nutans</i>	Dg	63.0
<i>Epipactis helleborine</i> s. l.	Dg	63.0
<i>Mercurialis perennis</i>	Dg	60.0
<i>Brachypodium sylvaticum</i>	Dg	60.0
<i>Acer pseudoplatanus</i>	Dg	60.0
<i>Lonicera xylosteum</i>	Dg	57.0
<i>Convallaria majalis</i>	Dg	57.0
<i>Galium odoratum</i>	Dg	51.0
<i>Fragaria moschata</i>	Dg	51.0
<i>Campanula persicifolia</i>	Dg	51.0
<i>Acer platanoides</i>	Dg	51.0
<i>Taraxacum</i> sect. <i>Ruderalia</i>		46.0
<i>Cornus sanguinea</i>		46.0
<i>Lathyrus vernus</i>	Dg	43.0
<i>Fraxinus excelsior</i>		43.0

Dominant species (2):

<i>Fagus sylvatica</i>	Dg, C	91.0
<i>Maianthemum bifolium</i>		6.0

LBE Alliance

Luzulo-Fagion sylvaticae

Acidophilous beech forests

Number of relevés: 719

Diagnostic species (6):

<i>Fagus sylvatica</i>	C, Dm	25.4
<i>Abies alba</i>	Dm	22.7

<i>Maianthemum bifolium</i>	C	21.3
<i>Oxalis acetosella</i>	C	20.2
<i>Dryopteris carthusiana</i> s. l.	C	19.5
<i>Polytrichastrum formosum</i> s. l.	C	18.0

Constant species (9):

<i>Fagus sylvatica</i>	Dg, Dm	74.0
<i>Oxalis acetosella</i>	Dg	70.0
<i>Picea abies</i>	Dm	66.0
<i>Vaccinium myrtillus</i>	Dm	65.0
<i>Sorbus aucuparia</i>		65.0
<i>Dryopteris carthusiana</i> s. l.	Dg	60.0
<i>Maianthemum bifolium</i>	Dg	58.0
<i>Polytrichastrum formosum</i> s. l.	Dg	44.0
<i>Luzula pilosa</i>		41.0

Dominant species (4):

<i>Fagus sylvatica</i>	Dg, C	31.0
<i>Picea abies</i>	C	10.0
<i>Abies alba</i>	Dg	4.0
<i>Vaccinium myrtillus</i>	C	3.0

LBF Alliance

Tilio platyphyllo-Acerion

Ravine forests

Number of relevés: 366

Diagnostic species (22):

<i>Lunaria rediviva</i>	Dm	36.0
<i>Galeobdolon luteum</i> s. l.	C	35.7
<i>Mercurialis perennis</i>	C, Dm	34.4
<i>Galium odoratum</i>	C	29.4
<i>Dentaria bulbifera</i>		29.3
<i>Asarum europaeum</i>	C	27.7
<i>Pulmonaria officinalis</i> s. l.	C	27.6
<i>Phyllitis scolopendrium</i>		26.8
<i>Actaea spicata</i>		26.2
<i>Acer pseudoplatanus</i>	C, Dm	26.1
<i>Dryopteris filix-mas</i> s. l.	C	25.7
<i>Polystichum aculeatum</i>		24.5
<i>Acer platanoides</i>	C	24.5
<i>Ulmus glabra</i>		22.8
<i>Tilia platyphyllos</i>		22.5
<i>Polygonatum multiflorum</i>		21.4
<i>Fraxinus excelsior</i>	C, Dm	19.5
<i>Tilia cordata</i>	Dm	19.4
<i>Paris quadrifolia</i>		18.8
<i>Symphytum cordatum</i>		18.5
<i>Carpinus betulus</i>	C, Dm	18.2
<i>Aegopodium podagraria</i>	C	18.0

Constant species (15):

<i>Galeobdolon luteum</i> s. l.	Dg	80.0
<i>Acer pseudoplatanus</i>	Dg, Dm	76.0
<i>Mercurialis perennis</i>	Dg, Dm	61.0
<i>Dryopteris filix-mas</i> s. l.	Dg	61.0
<i>Galium odoratum</i>	Dg	58.0
<i>Urtica dioica</i>		57.0
<i>Acer platanoides</i>	Dg	56.0
<i>Asarum europaeum</i>	Dg	54.0
<i>Fagus sylvatica</i>	Dm	53.0
<i>Aegopodium podagraria</i>	Dg	53.0
<i>Fraxinus excelsior</i>	Dg, Dm	52.0
<i>Oxalis acetosella</i>		51.0
<i>Corylus avellana</i>		49.0
<i>Pulmonaria officinalis</i> s. l.	Dg	48.0
<i>Carpinus betulus</i>	Dg, Dm	44.0

Dominant species (7):

<i>Lunaria rediviva</i>	Dg	12.0
<i>Fagus sylvatica</i>	C	8.0
<i>Acer pseudoplatanus</i>	Dg, C	8.0
<i>Tilia cordata</i>	Dg	5.0
<i>Fraxinus excelsior</i>	Dg, C	5.0
<i>Mercurialis perennis</i>	Dg, C	4.0
<i>Carpinus betulus</i>	Dg, C	4.0

LC Class***QUERCETEA PUBESCENTIS***

Thermophilous oak forests

Number of relevés: 98

Diagnostic species (87):

<i>Melittis melissophyllum</i>	C	57.4
<i>Campanula persicifolia</i>	C	55.3
<i>Trifolium alpestre</i>	C	55.1
<i>Polygonatum odoratum</i>	C	55.0
<i>Lathyrus niger</i>		54.6
<i>Betonica officinalis</i>	C	51.5
<i>Carex montana</i>		50.4
<i>Serratula tinctoria</i>		50.0
<i>Convallaria majalis</i>	C	49.0
<i>Potentilla alba</i>		48.2
<i>Silene nutans</i>	C	46.2
<i>Viscaria vulgaris</i>		44.1
<i>Melampyrum nemorosum</i>		43.0
<i>Galium schultesii</i>	C	42.6
<i>Geranium sanguineum</i>		41.7
<i>Anthericum ramosum</i>		41.1
<i>Melica nutans</i>	C	39.5
<i>Vincetoxicum hirundinaria</i>	C	39.4

<i>Hypericum montanum</i>		39.1
<i>Peucedanum oreoselinum</i>		37.9
<i>Trifolium rubens</i>		37.0
<i>Galium boreale</i>		36.8
<i>Sedum maximum</i>	C	36.7
<i>Genista tinctoria</i>		36.6
<i>Digitalis grandiflora</i>		36.6
<i>Pulmonaria angustifolia</i>		35.9
<i>Viola riviniana</i>		35.3
<i>Ranunculus polyanthemos</i> s. l.		35.1
<i>Euonymus verrucosa</i>		34.8
<i>Vicia cassubica</i>		33.7
<i>Hepatica nobilis</i>		33.5
<i>Quercus petraea</i>	C, Dm	33.3
<i>Peucedanum cervaria</i>		33.3
<i>Veronica officinalis</i>	C	33.0
<i>Lilium martagon</i>		31.6
<i>Astragalus glycyphyllos</i>		31.0
<i>Scorzonera humilis</i>		30.9
<i>Fragaria vesca</i>	C	29.4
<i>Veronica chamaedrys</i>	C	29.1
<i>Primula veris</i>		29.0
<i>Clinopodium vulgare</i>		29.0
<i>Sorbus torminalis</i>		28.9
<i>Calamagrostis arundinacea</i>	C	28.5
<i>Tilia cordata</i>		28.1
<i>Melampyrum pratense</i>		27.1
<i>Juniperus communis</i>	C	27.0
<i>Poa nemoralis</i>	C	26.9
<i>Fragaria moschata</i>		26.6
<i>Hieracium sabaudum</i> s. l.		25.9
<i>Ajuga reptans</i>		25.8
<i>Carpinus betulus</i>		25.7
<i>Rubus saxatilis</i>		25.6
<i>Festuca heterophylla</i>		25.5
<i>Quercus robur</i>	C, Dm	23.8
<i>Rhamnus cathartica</i>		23.7
<i>Hieracium murorum</i>		23.6
<i>Brachypodium pinnatum</i>		23.6
<i>Pteridium aquilinum</i>		23.5
<i>Hypericum perforatum</i>	C	23.5
<i>Origanum vulgare</i>		23.1
<i>Pyrus communis</i>		22.9
<i>Hieracium umbellatum</i>		22.8
<i>Festuca ovina</i> s. l.	C	22.8
<i>Solidago virgaurea</i>	C	22.7
<i>Anemone nemorosa</i>		22.4
<i>Koeleria grandis</i>		22.2
<i>Cerasus vulgaris</i>		21.8
<i>Hierochloë australis</i>		21.5
<i>Carex digitata</i>		21.4

<i>Lathyrus vernus</i>		21.3
<i>Luzula pilosa</i>		20.8
<i>Campanula rapunculoides</i>		20.4
<i>Crataegus monogyna</i> s. l.		20.2
<i>Veronica teucrium</i>		20.1
<i>Linaria vulgaris</i>		20.1
<i>Cephalanthera longifolia</i>		20.0
<i>Asperula tinctoria</i>		20.0
<i>Laserpitium prutenicum</i>		19.9
<i>Campanula glomerata</i>		19.8
<i>Rosa canina</i>		19.7
<i>Campanula trachelium</i>		19.5
<i>Maianthemum bifolium</i>		19.4
<i>Cornus sanguinea</i>		19.2
<i>Inula salicina</i>		18.6
<i>Platanthera bifolia</i>		18.4
<i>Lonicera xylosteum</i>		18.3
<i>Adenophora lilifolia</i>		18.1
Constant species (26):		
<i>Polygonatum odoratum</i>	Dg	68.0
<i>Convallaria majalis</i>	Dg	62.0
<i>Veronica chamaedrys</i>	Dg	59.0
<i>Fragaria vesca</i>	Dg	57.0
<i>Campanula persicifolia</i>	Dg	57.0
<i>Melica nutans</i>	Dg	56.0
<i>Solidago virgaurea</i>	Dg	54.0
<i>Quercus robur</i>	Dg, Dm	54.0
<i>Vincetoxicum hirundinaria</i>	Dg	52.0
<i>Trifolium alpestre</i>	Dg	52.0
<i>Hypericum perforatum</i>	Dg	51.0
<i>Poa nemoralis</i>	Dg	49.0
<i>Silene nutans</i>	Dg	47.0
<i>Quercus petraea</i>	Dg, Dm	47.0
<i>Sedum maximum</i>	Dg	47.0
<i>Betonica officinalis</i>	Dg	46.0
<i>Juniperus communis</i>	Dg	46.0
<i>Galium mollugo</i> agg.		46.0
<i>Festuca ovina</i> s. l.	Dg	44.0
<i>Poa pratensis</i> s. l.		43.0
<i>Veronica officinalis</i>	Dg	42.0
<i>Sorbus aucuparia</i>		42.0
<i>Melittis melissophyllum</i>	Dg	42.0
<i>Galium schultesii</i>	Dg	42.0
<i>Pinus sylvestris</i>	Dm	42.0
<i>Calamagrostis arundinacea</i>	Dg	41.0
Dominant species (3):		
<i>Quercus robur</i>	Dg, C	17.0
<i>Quercus petraea</i>	Dg, C	17.0
<i>Pinus sylvestris</i>	C	3.0

LCA Alliance***Quercion pubescenti-petraeae***

Peri-alpidic basiphilous thermophilous oak forests

Number of relevés: 8

Diagnostic species (44):

<i>Ligustrum vulgare</i>	C	51.1
<i>Quercus pubescens</i>		47.5
<i>Campanula bononiensis</i>		46.3
<i>Linosyris vulgaris</i>		38.7
<i>Veronica teucrium</i>		35.0
<i>Asparagus officinalis</i>		34.8
<i>Pyrus pyraister</i>		33.8
<i>Inula germanica</i>		33.6
<i>Anthericum liliago</i>		33.0
<i>Rhamnus cathartica</i>	C	31.0
<i>Ulmus minor</i>		29.6
<i>Viola mirabilis</i>		29.5
<i>Crataegus laevigata</i>		29.3
<i>Rosa sherardii</i>		28.0
<i>Rubus saxatilis</i>		27.6
<i>Viscum album</i>		27.5
<i>Quercus robur</i>	C, Dm	26.9
<i>Brachypodium pinnatum</i>	C, Dm	26.1
<i>Juniperus communis</i>	C	26.0
<i>Prunus spinosa</i>	C	26.0
<i>Viola hirta</i>	C	25.2
<i>Falcaria vulgaris</i>		25.2
<i>Centaurea pannonica</i>		25.1
<i>Carex praecox</i>		24.4
<i>Carex michelii</i>		23.5
<i>Lithospermum officinale</i>		23.0
<i>Fragaria viridis</i>	C	22.9
<i>Acer campestre</i>		22.9
<i>Pyrus communis</i>		22.8
<i>Campanula sibirica</i>		22.7
<i>Teucrium chamaedrys</i>		22.6
<i>Agrimonia eupatoria</i>	C	22.1
<i>Melampyrum cristatum</i>		21.8
<i>Filipendula vulgaris</i>		21.4
<i>Homalothecium lutescens</i>		21.3
<i>Astragalus glycyphyllos</i>		20.7
<i>Medicago falcata</i>	C	20.4
<i>Vincetoxicum hirundinaria</i>	C	19.6
<i>Crataegus monogyna</i> s. l.		19.6
<i>Clinopodium vulgare</i>	C	19.4
<i>Cypripedium calceolus</i>		19.2
<i>Galium verum</i>	C	18.9
<i>Euphorbia cyparissias</i>	C	18.2
<i>Viola riviniana</i>		18.0

Constant species (21):

<i>Quercus robur</i>	Dg, Dm	100.0
<i>Juniperus communis</i>	Dg	75.0
<i>Euphorbia cyparissias</i>	Dg	75.0
<i>Rhamnus cathartica</i>	Dg	62.0
<i>Prunus spinosa</i>	Dg	62.0
<i>Medicago falcata</i>	Dg	62.0
<i>Galium verum</i>	Dg	62.0
<i>Brachypodium pinnatum</i>	Dg, Dm	62.0
<i>Pinus sylvestris</i>	Dm	62.0
<i>Viola hirta</i>	Dg	50.0
<i>Vincetoxicum hirundinaria</i>	Dg	50.0
<i>Rubus caesius</i>		50.0
<i>Poa pratensis</i> s. l.		50.0
<i>Ligustrum vulgare</i>	Dg	50.0
<i>Hypericum perforatum</i>		50.0
<i>Fragaria viridis</i>	Dg	50.0
<i>Dactylis glomerata</i>		50.0
<i>Coronilla varia</i>		50.0
<i>Clinopodium vulgare</i>	Dg	50.0
<i>Agrimonia eupatoria</i>	Dg	50.0
<i>Achillea millefolium</i> agg.		50.0

Dominant species (3):

<i>Quercus robur</i>	Dg, C	12.0
<i>Pinus sylvestris</i>	C	12.0
<i>Brachypodium pinnatum</i>	Dg, C	12.0

LCC Alliance***Quercion petraeae***

Acidophilous and thermophilous oak forests

Number of relevés: 90

Diagnostic species (42):

<i>Melittis melissophyllum</i>	C	45.6
<i>Lathyrus niger</i>	C	43.8
<i>Potentilla alba</i>		38.0
<i>Carex montana</i>		36.5
<i>Serratula tinctoria</i>	C	36.4
<i>Polygonatum odoratum</i>	C	36.3
<i>Campanula persicifolia</i>	C	36.2
<i>Trifolium alpestre</i>	C	35.0
<i>Pulmonaria angustifolia</i>		35.0
<i>Betonica officinalis</i>	C	33.2
<i>Convallaria majalis</i>	C	33.0
<i>Galium schultesii</i>	C	32.6
<i>Melampyrum nemorosum</i>		30.7
<i>Trifolium rubens</i>		29.2
<i>Viscaria vulgaris</i>		29.0
<i>Silene nutans</i>	C	28.6

<i>Sorbus torminalis</i>		27.7
<i>Vicia cassubica</i>		26.5
<i>Geranium sanguineum</i>		26.2
<i>Genista tinctoria</i>		26.2
<i>Anthericum ramosum</i>	C	25.9
<i>Euonymus verrucosa</i>		25.0
<i>Scorzonera humilis</i>		24.9
<i>Melica nutans</i>	C	24.4
<i>Viola riviniana</i>		24.3
<i>Digitalis grandiflora</i>	C	24.1
<i>Hypericum montanum</i>		23.8
<i>Sedum maximum</i>	C	22.8
<i>Quercus petraea</i>	C, Dm	22.4
<i>Peucedanum oreoselinum</i>	C	22.1
<i>Festuca heterophylla</i>		21.9
<i>Lilium martagon</i>		21.7
<i>Hierochloë australis</i>		21.0
<i>Vincetoxicum hirundinaria</i>	C	20.5
<i>Galium boreale</i>		20.3
<i>Koeleria grandis</i>		19.6
<i>Ranunculus polyanthemos</i> s. l.		19.1
<i>Hieracium sabaudum</i> s. l.		19.1
<i>Veronica officinalis</i>	C	18.9
<i>Pteridium aquilinum</i>		18.7
<i>Cephalanthera longifolia</i>		18.5
<i>Calamagrostis arundinacea</i>	C	18.3
Constant species (31):		
<i>Polygonatum odoratum</i>	Dg	74.0
<i>Convallaria majalis</i>	Dg	67.0
<i>Campanula persicifolia</i>	Dg	62.0
<i>Veronica chamaedrys</i>		61.0
<i>Melica nutans</i>	Dg	60.0
<i>Fragaria vesca</i>		60.0
<i>Solidago virgaurea</i>		59.0
<i>Trifolium alpestre</i>	Dg	54.0
<i>Vincetoxicum hirundinaria</i>	Dg	52.0
<i>Silene nutans</i>	Dg	51.0
<i>Hypericum perforatum</i>		51.0
<i>Quercus robur</i>	Dm	50.0
<i>Quercus petraea</i>	Dg, Dm	50.0
<i>Poa nemoralis</i>		50.0
<i>Sedum maximum</i>	Dg	50.0
<i>Betonica officinalis</i>	Dg	49.0
<i>Galium mollugo</i> agg.		49.0
<i>Festuca ovina</i> s. l.		47.0
<i>Veronica officinalis</i>	Dg	46.0
<i>Sorbus aucuparia</i>		46.0
<i>Melittis melissophyllum</i>	Dg	46.0
<i>Galium schultesii</i>	Dg	46.0
<i>Calamagrostis arundinacea</i>	Dg	44.0

<i>Lathyrus niger</i>	Dg	43.0
<i>Juniperus communis</i>		43.0
<i>Serratula tinctoria</i>	Dg	42.0
<i>Poa pratensis</i> s. l.		42.0
<i>Digitalis grandiflora</i>	Dg	42.0
<i>Peucedanum oreoselinum</i>	Dg	41.0
<i>Carpinus betulus</i>		41.0
<i>Anthericum ramosum</i>	Dg	41.0
Dominant species (11):		
<i>Quercus robur</i>	C	37.0
<i>Quercus petraea</i>	Dg, C	30.0

LD Class

QUERCETEA ROBORI-PETRAEAE

Acidophilous oak forests

Number of relevés: 604

Diagnostic species (24):

<i>Quercus petraea</i>	C, Dm	38.9
<i>Melampyrum pratense</i>		33.8
<i>Convallaria majalis</i>	C	32.3
<i>Luzula pilosa</i>	C	30.7
<i>Pteridium aquilinum</i>	C, Dm	29.9
<i>Frangula alnus</i>	C	26.5
<i>Sorbus aucuparia</i>	C	26.4
<i>Quercus robur</i>	C, Dm	25.2
<i>Maianthemum bifolium</i>		24.5
<i>Rubus fruticosus</i> agg.		23.5
<i>Trientalis europaea</i>		22.4
<i>Holcus mollis</i>		22.1
<i>Polytrichastrum formosum</i> s. l.		22.0
<i>Betula pendula</i>	C	21.9
<i>Carex pilulifera</i>		21.7
<i>Hieracium sabaudum</i> s. l.		21.6
<i>Viola reichenbachiana</i>		21.3
<i>Calamagrostis arundinacea</i>		20.9
<i>Carpinus betulus</i>		19.9
<i>Hieracium murorum</i>		19.1
<i>Poa nemoralis</i>		19.0
<i>Moehringia trinervia</i>		18.9
<i>Galium schultesii</i>		18.9
<i>Anemone nemorosa</i>		18.1

Constant species (9):

<i>Sorbus aucuparia</i>	Dg	65.0
<i>Vaccinium myrtillus</i>	Dm	59.0
<i>Quercus robur</i>	Dg, Dm	57.0
<i>Quercus petraea</i>	Dg, Dm	54.0
<i>Frangula alnus</i>	Dg	54.0
<i>Betula pendula</i>	Dg	45.0

<i>Luzula pilosa</i>	Dg	42.0
<i>Convallaria majalis</i>	Dg	42.0
<i>Pteridium aquilinum</i>	Dg, Dm	41.0

Dominant species (6):

<i>Quercus petraea</i>	Dg, C	21.0
<i>Quercus robur</i>	Dg, C	17.0
<i>Vaccinium myrtillus</i>	C	10.0
<i>Pinus sylvestris</i>		8.0
<i>Pteridium aquilinum</i>	Dg, C	4.0
<i>Molinia caerulea</i> s. l.		4.0

LDA Alliance

Genisto germanicae-Quercion

Central European acidophilous oak forests

Number of relevés: 342

Diagnostic species (7):

<i>Quercus petraea</i>	C, Dm	39.2
<i>Convallaria majalis</i>	C	24.7
<i>Melampyrum pratense</i>	C	22.3
<i>Galium schultesii</i>		21.2
<i>Hieracium sabaudum</i> s. l.		20.2
<i>Pteridium aquilinum</i>		19.1
<i>Hieracium murorum</i>	C	19.1

Constant species (10):

<i>Quercus petraea</i>	Dg, Dm	85.0
<i>Vaccinium myrtillus</i>	Dm	68.0
<i>Sorbus aucuparia</i>		54.0
<i>Convallaria majalis</i>	Dg	51.0
<i>Poa nemoralis</i>		47.0
<i>Melampyrum pratense</i>	Dg	46.0
<i>Hieracium murorum</i>	Dg	46.0
<i>Festuca ovina</i> s. l.		45.0
<i>Calamagrostis arundinacea</i>	Dm	43.0
<i>Luzula pilosa</i>		41.0

Dominant species (6):

<i>Quercus petraea</i>	Dg, C	35.0
<i>Vaccinium myrtillus</i>	C	14.0
<i>Pinus sylvestris</i>		6.0
<i>Quercus robur</i>		4.0
<i>Pleurozium schreberi</i>		4.0
<i>Calamagrostis arundinacea</i>	C	4.0

LDB Alliance***Quercion roboris***

Subatlantic acidophilous oak forests

Number of relevés: 262

Diagnostic species (8):

<i>Pteridium aquilinum</i>	C, Dm	24.7
<i>Quercus robur</i>	C, Dm	24.4
<i>Frangula alnus</i>	C, Dm	24.0
<i>Trientalis europaea</i>	C	22.6
<i>Rubus fruticosus</i> agg.	C	20.4
<i>Maianthemum bifolium</i>	C	20.2
<i>Sorbus aucuparia</i>	C	19.7
<i>Luzula pilosa</i>	C	18.7

Constant species (14):

<i>Quercus robur</i>	Dg, Dm	92.0
<i>Sorbus aucuparia</i>	Dg	79.0
<i>Frangula alnus</i>	Dg, Dm	79.0
<i>Betula pendula</i>	Dm	60.0
<i>Rubus fruticosus</i> agg.	Dg	55.0
<i>Maianthemum bifolium</i>	Dg	55.0
<i>Vaccinium myrtillus</i>	Dm	48.0
<i>Dryopteris carthusiana</i> s. l.		48.0
<i>Pteridium aquilinum</i>	Dg, Dm	46.0
<i>Luzula pilosa</i>	Dg	43.0
<i>Molinia caerulea</i> s. l.	Dm	42.0
<i>Trientalis europaea</i>	Dg	41.0
<i>Lysimachia vulgaris</i>		41.0
<i>Pinus sylvestris</i>	Dm	41.0

Dominant species (9):

<i>Quercus robur</i>	Dg, C	34.0
<i>Pinus sylvestris</i>	C	10.0
<i>Molinia caerulea</i> s. l.	C	10.0
<i>Pteridium aquilinum</i>	Dg, C	8.0
<i>Calamagrostis villosa</i>		6.0
<i>Vaccinium myrtillus</i>	C	5.0
<i>Quercus petraea</i>		3.0
<i>Frangula alnus</i>	Dg, C	3.0
<i>Betula pendula</i>	C	3.0

LE Class***ERICO-PINETEA***

Basiphilous submontane pine forests

Number of relevés: 8

Diagnostic species (73):

<i>Festuca pallens</i>	C	86.3
<i>Calamagrostis varia</i>	C, Dm	79.7

<i>Bupleurum falcatum</i>	C	65.7
<i>Laserpitium latifolium</i>	C	62.1
<i>Epipactis atrorubens</i>	C	55.3
<i>Carex digitata</i>	C	52.0
<i>Euphorbia amygdaloides</i>		51.6
<i>Pimpinella major</i>	C	50.0
<i>Aquilegia vulgaris</i>		49.8
<i>Rumex scutatus</i>		47.2
<i>Teucrium montanum</i>		46.8
<i>Juniperus communis</i>	C	46.4
<i>Cruciata glabra</i>	C	43.8
<i>Galium mollugo</i> agg.	C	43.4
<i>Clematis alpina</i>		43.3
<i>Hieracium murorum</i>	C	42.4
<i>Carlina vulgaris</i>	C	42.3
<i>Carex flacca</i>		42.2
<i>Sesleria varia</i>	Dm	41.4
<i>Polygala amara</i> subsp. <i>brachyptera</i>		41.4
<i>Viola hirta</i>		41.2
<i>Fragaria vesca</i>	C	39.9
<i>Gymnocarpium robertianum</i>		39.6
<i>Salvia verticillata</i>		38.3
<i>Allium montanum</i>		38.1
<i>Vincetoxicum hirundinaria</i>	C	37.7
<i>Euphrasia rostkoviana</i>		37.4
<i>Linum catharticum</i>	C	36.5
<i>Hypericum perforatum</i>	C	35.5
<i>Digitalis grandiflora</i>		35.3
<i>Astragalus australis</i>		34.8
<i>Coronilla varia</i>	C	34.6
<i>Alyssum saxatile</i>		34.5
<i>Aconitum variegatum</i>		34.5
<i>Campanula rapunculoides</i>		34.0
<i>Actaea spicata</i>		33.8
<i>Sorbus aria</i>		33.7
<i>Pinus sylvestris</i>	C, Dm	33.7
<i>Vicia cracca</i>	C	33.2
<i>Carduus collinus</i>		32.7
<i>Tanacetum corymbosum</i> subsp. <i>clusii</i>		32.1
<i>Carex alba</i>		32.1
<i>Carduus glaucus</i>		32.1
<i>Silene nemoralis</i>		32.0
<i>Rhamnus cathartica</i>		32.0
<i>Picea abies</i>	C	31.9
<i>Bupleurum longifolium</i>		31.8
<i>Carex ornithopoda</i>		31.7
<i>Leucanthemum vulgare</i>	C	31.4
<i>Sanguisorba minor</i>		31.0
<i>Hieracium laevigatum</i>		30.4
<i>Valeriana tripteris</i>		29.1
<i>Daphne mezereum</i>		29.0

<i>Polygonatum odoratum</i>		28.9
<i>Jovibarba hirta</i>		28.9
<i>Campanula rotundifolia</i>		28.6
<i>Medicago lupulina</i>		28.1
<i>Euphorbia cyparissias</i>	C	28.2
<i>Corylus avellana</i>	C	28.2
<i>Rubus saxatilis</i>		27.3
<i>Clinopodium vulgare</i>		27.2
<i>Asplenium viride</i>		27.1
<i>Salix silesiaca</i>		26.1
<i>Hieracium lachenalii</i> s. l.		25.8
<i>Melica nutans</i>		25.3
<i>Botrychium lunaria</i>		23.9
<i>Thymus pulegioides</i>		23.7
<i>Scabiosa lucida</i>		23.6
<i>Aster alpinus</i>		22.0
<i>Veronica fruticans</i>		21.7
<i>Origanum vulgare</i>		21.5
<i>Chamaenerion angustifolium</i>		18.7
<i>Leontodon incanus</i>		18.5
Constant species (23):		
<i>Galium mollugo</i> agg.	Dg	100.0
<i>Calamagrostis varia</i>	Dg, Dm	100.0
<i>Festuca pallens</i>	Dg	88.0
<i>Pinus sylvestris</i>	Dg, Dm	88.0
<i>Picea abies</i>	Dg	75.0
<i>Juniperus communis</i>	Dg	75.0
<i>Hypericum perforatum</i>	Dg	75.0
<i>Fragaria vesca</i>	Dg	75.0
<i>Hieracium murorum</i>	Dg	62.0
<i>Cruciata glabra</i>	Dg	62.0
<i>Carex digitata</i>	Dg	62.0
<i>Vincetoxicum hirundinaria</i>	Dg	50.0
<i>Vicia cracca</i>	Dg	50.0
<i>Pimpinella major</i>	Dg	50.0
<i>Linum catharticum</i>	Dg	50.0
<i>Leucanthemum vulgare</i>	Dg	50.0
<i>Laserpitium latifolium</i>	Dg	50.0
<i>Euphorbia cyparissias</i>	Dg	50.0
<i>Epipactis atrorubens</i>	Dg	50.0
<i>Corylus avellana</i>	Dg	50.0
<i>Coronilla varia</i>	Dg	50.0
<i>Carlina vulgaris</i>	Dg	50.0
<i>Bupleurum falcatum</i>	Dg	50.0
Dominant species (5):		
<i>Pinus sylvestris</i>	Dg, C	25.0
<i>Sesleria varia</i>	Dg	12.0
<i>Poa compressa</i>		12.0
<i>Calamagrostis varia</i>	Dg, C	12.0

LEA Alliance***Pulsatillo slavicae*-Pinion**

Natural relict pine and larch forests on carbonates in the Carpathians

Number of relevés: 8

Diagnostic species (49):

<i>Festuca pallens</i>	C	47.9
<i>Calamagrostis varia</i>	C, Dm	47.8
<i>Epipactis atrorubens</i>	C	39.7
<i>Laserpitium latifolium</i>	C	38.8
<i>Euphorbia amygdaloides</i>		36.3
<i>Bupleurum falcatum</i>	C	35.0
<i>Clematis alpina</i>		34.2
<i>Rumex scutatus</i>		33.9
<i>Polygala amara</i> subsp. <i>brachyptera</i>		32.3
<i>Aquilegia vulgaris</i>		32.2
<i>Aconitum variegatum</i>		31.9
<i>Pimpinella major</i>	C	30.1
<i>Gymnocarpium robertianum</i>		29.1
<i>Carex digitata</i>	C	29.1
<i>Astragalus australis</i>		27.0
<i>Carlina vulgaris</i>	C	26.8
<i>Sorbus aria</i>		26.4
<i>Hieracium murorum</i>	C	26.4
<i>Juniperus communis</i>	C	26.0
<i>Alyssum saxatile</i>		24.0
<i>Galium mollugo</i> agg.	C	23.3
<i>Carex flacca</i>		22.7
<i>Euphrasia rostkoviana</i>		22.6
<i>Sesleria varia</i>	Dm	22.3
<i>Cruciata glabra</i>	C	22.1
<i>Valeriana tripteris</i>		22.0
<i>Fragaria vesca</i>	C	21.6
<i>Carduus glaucus</i>		21.3
<i>Digitalis grandiflora</i>		21.2
<i>Carex alba</i>		21.0
<i>Picea abies</i>	C	20.8
<i>Bupleurum longifolium</i>		20.6
<i>Pinus sylvestris</i>	C, Dm	20.3
<i>Tanacetum corymbosum</i> subsp. <i>clusii</i>		20.2
<i>Salix silesiaca</i>		20.0
<i>Vincetoxicum hirundinaria</i>	C	19.6
<i>Linum catharticum</i>	C	19.6
<i>Asplenium viride</i>		19.6
<i>Teucrium montanum</i>		18.8
<i>Hypericum perforatum</i>	C	18.7
<i>Viola hirta</i>		18.6
<i>Actaea spicata</i>		18.5

<i>Hieracium laevigatum</i>		18.3
<i>Carex ornithopoda</i>		18.2
<i>Rubus saxatilis</i>		18.1
<i>Rhamnus cathartica</i>		18.1
<i>Campanula rapunculoides</i>		18.1
<i>Salvia verticillata</i>		18.1

Constant species (23):

<i>Galium mollugo</i> agg.	Dg	100.0
<i>Calamagrostis varia</i>	Dg, Dm	100.0
<i>Festuca pallens</i>	Dg	88.0
<i>Pinus sylvestris</i>	Dg, Dm	88.0
<i>Picea abies</i>	Dg	75.0
<i>Juniperus communis</i>	Dg	75.0
<i>Hypericum perforatum</i>	Dg	75.0
<i>Fragaria vesca</i>	Dg	75.0
<i>Hieracium murorum</i>	Dg	62.0
<i>Cruciata glabra</i>	Dg	62.0
<i>Carex digitata</i>	Dg	62.0
<i>Vincetoxicum hirundinaria</i>	Dg	50.0
<i>Vicia cracca</i>		50.0
<i>Pimpinella major</i>	Dg	50.0
<i>Linum catharticum</i>	Dg	50.0
<i>Leucanthemum vulgare</i>		50.0
<i>Laserpitium latifolium</i>	Dg	50.0
<i>Euphorbia cyparissias</i>		50.0
<i>Epipactis atrorubens</i>	Dg	50.0
<i>Corylus avellana</i>		50.0
<i>Coronilla varia</i>		50.0
<i>Carlina vulgaris</i>	Dg	50.0
<i>Bupleurum falcatum</i>	Dg	50.0

Dominant species (5):

<i>Pinus sylvestris</i>	Dg, C	25.0
<i>Sesleria varia</i>	Dg	12.0
<i>Poa compressa</i>		12.0
<i>Calamagrostis varia</i>	Dg, C	12.0
<i>Abietinella abietina</i>		12.0

LF Class

VACCINIO-PICEETEA

Boreal coniferous forests

Number of relevés: 1134

Diagnostic species (19):

<i>Dicranum polysetum</i>		37.3
<i>Pleurozium schreberi</i>	C, Dm	37.2
<i>Pinus sylvestris</i>	C, Dm	30.4
<i>Leucobryum glaucum</i>		26.2
<i>Trientalis europaea</i>		26.1
<i>Melampyrum pratense</i>		25.0

<i>Vaccinium myrtillus</i>	C, Dm	24.8
<i>Calluna vulgaris</i>		24.7
<i>Picea abies</i>	C, Dm	23.4
<i>Betula pendula</i>	C	22.7
<i>Polytrichastrum formosum</i> s. l.		22.5
<i>Chimaphila umbellata</i>		21.6
<i>Plagiothecium curvifolium</i>		20.7
<i>Lycopodium annotinum</i>		20.6
<i>Quercus robur</i>	C	20.5
<i>Vaccinium vitis-idaea</i>	C	20.4
<i>Luzula pilosa</i>		20.1
<i>Orthilia secunda</i>		18.7
<i>Hypnum jutlandicum</i>		18.2

Constant species (8):

<i>Pinus sylvestris</i>	Dg, Dm	80.0
<i>Vaccinium myrtillus</i>	Dg, Dm	78.0
<i>Pleurozium schreberi</i>	Dg, Dm	62.0
<i>Picea abies</i>	Dg, Dm	58.0
<i>Vaccinium vitis-idaea</i>	Dg	54.0
<i>Quercus robur</i>	Dg	48.0
<i>Betula pendula</i>	Dg	46.0
<i>Sorbus aucuparia</i>		45.0

Dominant species (5):

<i>Pinus sylvestris</i>	Dg, C	30.0
<i>Pleurozium schreberi</i>	Dg, C	13.0
<i>Vaccinium myrtillus</i>	Dg, C	11.0
<i>Picea abies</i>	Dg, C	9.0
<i>Calamagrostis villosa</i>		4.0

LFB Alliance

Dicrano-Pinion

Acidophilous boreo-continental pine forests

Number of relevés: 689

Diagnostic species (6):

<i>Dicranum polysetum</i>	C	25.2
<i>Chimaphila umbellata</i>		25.1
<i>Pinus sylvestris</i>	C, Dm	23.2
<i>Pleurozium schreberi</i>	C, Dm	22.9
<i>Melampyrum pratense</i>		19.2
<i>Vaccinium vitis-idaea</i>	C	18.6

Constant species (10):

<i>Pinus sylvestris</i>	Dg, Dm	98.0
<i>Vaccinium myrtillus</i>	Dm	73.0
<i>Pleurozium schreberi</i>	Dg, Dm	70.0
<i>Vaccinium vitis-idaea</i>	Dg	61.0
<i>Quercus robur</i>		57.0
<i>Betula pendula</i>		56.0

<i>Calluna vulgaris</i>		49.0
<i>Picea abies</i>		48.0
<i>Sorbus aucuparia</i>		46.0
<i>Dicranum polysetum</i>	Dg	44.0

Dominant species (3):

<i>Pinus sylvestris</i>	Dg, C	37.0
<i>Pleurozium schreberi</i>	Dg, C	18.0
<i>Vaccinium myrtillus</i>	C	10.0

LFC Alliance

Piceion abietis

European acidophilous spruce forests

Number of relevés: 283

Diagnostic species (13):

<i>Buckiella undulata</i>		30.7
<i>Plagiothecium curvifolium</i>		30.6
<i>Picea abies</i>	C, Dm	27.0
<i>Polytrichastrum formosum</i> s. l.	C, Dm	26.9
<i>Luzula luzulina</i>		25.0
<i>Bazzania trilobata</i>		23.4
<i>Sphagnum girgensohnii</i>		21.8
<i>Lycopodium annotinum</i>		21.8
<i>Calamagrostis villosa</i>	C, Dm	21.1
<i>Dryopteris carthusiana</i> s. l.	C	20.2
<i>Vaccinium myrtillus</i>	C, Dm	19.8
<i>Trientalis europaea</i>		19.2
<i>Calypogeia azurea</i>		18.5

Constant species (8):

<i>Picea abies</i>	Dg, Dm	95.0
<i>Vaccinium myrtillus</i>	Dg, Dm	92.0
<i>Polytrichastrum formosum</i> s. l.	Dg, Dm	64.0
<i>Dryopteris carthusiana</i> s. l.	Dg	62.0
<i>Oxalis acetosella</i>		61.0
<i>Sorbus aucuparia</i>		52.0
<i>Deschampsia flexuosa</i>		50.0
<i>Calamagrostis villosa</i>	Dg, Dm	45.0

Dominant species (6):

<i>Picea abies</i>	Dg, C	34.0
<i>Vaccinium myrtillus</i>	Dg, C	14.0
<i>Calamagrostis villosa</i>	Dg, C	13.0
<i>Pinus sylvestris</i>		12.0
<i>Polytrichastrum formosum</i> s. l.	Dg, C	9.0
<i>Athyrium distentifolium</i>		8.0

LFD Alliance***Vaccinio uliginosi-Pinion sylvestris***

Bog woodlands

Number of relevés: 162

Diagnostic species (16):

<i>Ledum palustre</i>	C	54.1
<i>Vaccinium uliginosum</i> s. l.	C	38.3
<i>Betula pubescens</i>	C, Dm	29.4
<i>Eriophorum vaginatum</i>	C	28.2
<i>Pleurozium schreberi</i>	C, Dm	25.3
<i>Dicranum polysetum</i>		22.3
<i>Sphagnum recurvum</i> agg.	C, Dm	21.9
<i>Pinus sylvestris</i>	C, Dm	21.7
<i>Oxycoccus palustris</i> s. l.	C	21.6
<i>Calluna vulgaris</i>	C	21.6
<i>Polytrichum commune</i>	C	20.7
<i>Sphagnum magellanicum</i>		20.1
<i>Molinia caerulea</i> s. l.	C, Dm	19.9
<i>Leucobryum glaucum</i>		19.8
<i>Vaccinium vitis-idaea</i>	C	18.9
<i>Sphagnum capillifolium</i> s. l.		18.2

Constant species (16):

<i>Pinus sylvestris</i>	Dg, Dm	93.0
<i>Vaccinium myrtillus</i>	Dm	79.0
<i>Ledum palustre</i>	Dg	79.0
<i>Pleurozium schreberi</i>	Dg, Dm	77.0
<i>Betula pubescens</i>	Dg, Dm	71.0
<i>Vaccinium vitis-idaea</i>	Dg	62.0
<i>Calluna vulgaris</i>	Dg	62.0
<i>Vaccinium uliginosum</i> s. l.	Dg	59.0
<i>Sphagnum recurvum</i> agg.	Dg, Dm	58.0
<i>Molinia caerulea</i> s. l.	Dg, Dm	57.0
<i>Eriophorum vaginatum</i>	Dg	49.0
<i>Oxycoccus palustris</i> s. l.	Dg	48.0
<i>Frangula alnus</i>		46.0
<i>Quercus robur</i>		44.0
<i>Betula pendula</i>		43.0
<i>Polytrichum commune</i>	Dg	41.0

Dominant species (6):

<i>Pinus sylvestris</i>	Dg, C	31.0
<i>Sphagnum recurvum</i> agg.	Dg, C	14.0
<i>Pleurozium schreberi</i>	Dg, C	12.0
<i>Vaccinium myrtillus</i>	C	10.0
<i>Betula pubescens</i>	Dg, C	8.0
<i>Molinia caerulea</i> s. l.	Dg, C	5.0

XA Class**POLYGONO ARENASTRI-POËTEA ANNUAE**

Vegetation of trampled habitats

Number of relevés: 352

Diagnostic species (8):

<i>Poa annua</i> s. l.	C, Dm	56.5
<i>Plantago major</i> s. l.	C	43.5
<i>Chamomilla suaveolens</i>		42.8
<i>Polygonum aviculare</i> agg.	C	37.5
<i>Lolium perenne</i>		36.1
<i>Capsella bursa-pastoris</i>		28.0
<i>Trifolium repens</i>		22.5
<i>Taraxacum</i> sect. <i>Ruderalia</i>	C	20.8

Constant species (4):

<i>Poa annua</i> s. l.	Dg, Dm	73.0
<i>Plantago major</i> s. l.	Dg	55.0
<i>Taraxacum</i> sect. <i>Ruderalia</i>	Dg	52.0
<i>Polygonum aviculare</i> agg.	Dg	46.0

Dominant species (1):

<i>Poa annua</i> s. l.	Dg, C	8.0
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XAA Alliance**Coronopodo-Polygonion arenastri**

Annual vegetation of dry trampled habitats

Number of relevés: 142

Diagnostic species (5):

<i>Polygonum aviculare</i> agg.	C, Dm	29.3
<i>Lolium perenne</i>	C	26.0
<i>Chamomilla suaveolens</i>		23.2
<i>Poa annua</i> s. l.	C	22.7
<i>Plantago major</i> s. l.	C	22.6

Constant species (5):

<i>Polygonum aviculare</i> agg.	Dg, Dm	78.0
<i>Poa annua</i> s. l.	Dg	58.0
<i>Plantago major</i> s. l.	Dg	56.0
<i>Taraxacum</i> sect. <i>Ruderalia</i>		53.0
<i>Lolium perenne</i>	Dg	51.0

Dominant species (1):

<i>Polygonum aviculare</i> agg.	Dg, C	4.0
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XAB Alliance

Saginion procumbentis

Annual vegetation of mesic trampled habitats

Number of relevés: 210

Diagnostic species (3):

<i>Poa annua</i> s. l.	C, Dm	33.1
<i>Plantago major</i> s. l.	C	22.0
<i>Chamomilla suaveolens</i>	Dm	18.7

Constant species (3):

<i>Poa annua</i> s. l.	Dg, Dm	83.0
<i>Plantago major</i> s. l.	Dg	54.0
<i>Taraxacum</i> sect. <i>Ruderalia</i>		51.0

Dominant species (2):

<i>Poa annua</i> s. l.	Dg, C	13.0
<i>Potentilla anserina</i>		3.0

XB Class

STELLARIETEA MEDIAE

Annual vegetation of arable land and ruderal habitats

Number of relevés: 4874

Diagnostic species (57):

<i>Centaurea cyanus</i>	C	63.1
<i>Viola arvensis</i>	C	55.8
<i>Apera spica-venti</i>		47.9
<i>Chenopodium album</i> agg.	C	46.0
<i>Myosotis arvensis</i>		45.8
<i>Raphanus raphanistrum</i>		43.8
<i>Scleranthus annuus</i>		43.5
<i>Fallopia convolvulus</i>	C	42.8
<i>Spergula arvensis</i>		41.6
<i>Sinapis arvensis</i>		40.0
<i>Stellaria media</i> agg.	C	37.2
<i>Veronica persica</i>		36.8
<i>Anagallis arvensis</i>		35.2
<i>Vicia angustifolia</i>		35.1
<i>Vicia hirsuta</i>		33.8
<i>Capsella bursa-pastoris</i>		33.8
<i>Matricaria maritima</i> subsp. <i>inodora</i>		33.7
<i>Euphorbia helioscopia</i>		33.7
<i>Galinsoga parviflora</i>		32.8
<i>Thlaspi arvense</i>		32.3
<i>Papaver rhoeas</i>		32.2
<i>Veronica arvensis</i>		31.7
<i>Equisetum arvense</i>	C	31.7
<i>Anthemis arvensis</i>		31.2
<i>Lamium amplexicaule</i>		30.0

<i>Erodium cicutarium</i>		29.4
<i>Setaria pumila</i>		27.4
<i>Lithospermum arvense</i>		27.4
<i>Avena fatua</i>		27.3
<i>Aphanes arvensis</i>		27.2
<i>Cirsium arvense</i>	C	26.8
<i>Anchusa arvensis</i>		26.7
<i>Convolvulus arvensis</i>		26.4
<i>Polygonum aviculare</i> agg.		25.8
<i>Elymus repens</i>	C	25.7
<i>Arnoseris minima</i>		24.5
<i>Arabidopsis thaliana</i>		24.0
<i>Vicia villosa</i>		23.7
<i>Polygonum lapathifolium</i> s. l.		23.3
<i>Papaver argemone</i>		23.0
<i>Echinochloa crus-galli</i>		23.0
<i>Galinsoga ciliata</i>		22.8
<i>Vicia tetrasperma</i>		22.5
<i>Erysimum cheiranthoides</i>		22.4
<i>Geranium pusillum</i>		22.1
<i>Veronica triphyllos</i>		21.9
<i>Consolida regalis</i>		21.9
<i>Setaria viridis</i>		21.5
<i>Polygonum persicaria</i>		21.1
<i>Chamomilla recutita</i>		20.2
<i>Myosotis stricta</i>		20.0
<i>Sonchus arvensis</i>		19.7
<i>Agrostemma githago</i>		19.7
<i>Melandrium noctiflorum</i>		19.5
<i>Neslia paniculata</i>		19.4
<i>Lamium purpureum</i>		18.5
<i>Galeopsis tetrahit</i> s. l.		18.4
Constant species (8):		
<i>Chenopodium album</i> agg.	Dg	56.0
<i>Viola arvensis</i>	Dg	55.0
<i>Fallopia convolvulus</i>	Dg	54.0
<i>Stellaria media</i> agg.	Dg	50.0
<i>Equisetum arvense</i>	Dg	50.0
<i>Cirsium arvense</i>	Dg	49.0
<i>Centaurea cyanus</i>	Dg	49.0
<i>Elymus repens</i>	Dg	48.0
Dominant species (0):		

XBA Alliance

Caucalidion

Thermophilous weed vegetation of cereal fields on base-rich soils

Number of relevés: 266

Diagnostic species (34):

<i>Consolida regalis</i>	C	59.0
<i>Euphorbia exigua</i>		55.6
<i>Lathyrus tuberosus</i>	C	52.4
<i>Melandrium noctiflorum</i>	C	51.6
<i>Papaver rhoeas</i>	C	49.5
<i>Adonis aestivalis</i>		46.4
<i>Avena fatua</i>	C	44.3
<i>Lithospermum arvense</i>		39.8
<i>Aethusa cynapium</i> s. l.		39.7
<i>Anagallis arvensis</i>	C	37.5
<i>Sinapis arvensis</i>	C	36.6
<i>Euphorbia helioscopia</i>	C	35.7
<i>Veronica persica</i>	C	34.8
<i>Veronica polita</i>		34.6
<i>Neslia paniculata</i>		34.1
<i>Valerianella dentata</i>		31.9
<i>Anagallis foemina</i>		30.9
<i>Sherardia arvensis</i>		30.0
<i>Galium spurium</i>		29.8
<i>Fumaria vaillantii</i>		29.4
<i>Myosotis arvensis</i>	C	29.3
<i>Stachys annua</i>		28.3
<i>Viola arvensis</i>	C	26.7
<i>Lamium amplexicaule</i>		26.2
<i>Apera spica-venti</i>	C, Dm	24.7
<i>Centaurea cyanus</i>	C	23.4
<i>Convolvulus arvensis</i>	C	22.2
<i>Fallopia convolvulus</i>	C	20.7
<i>Camelina microcarpa</i>		20.7
<i>Galium aparine</i>	C	20.5
<i>Odontites verna</i> s. l.		19.9
<i>Stellaria media</i> agg.	C	19.7
<i>Matricaria maritima</i> subsp. <i>inodora</i>	C	19.6
<i>Euphorbia falcata</i>		18.1

Constant species (22):

<i>Galium aparine</i>	Dg	74.0
<i>Convolvulus arvensis</i>	Dg	72.0
<i>Viola arvensis</i>	Dg	70.0
<i>Papaver rhoeas</i>	Dg	68.0
<i>Cirsium arvense</i>		63.0
<i>Fallopia convolvulus</i>	Dg	61.0
<i>Consolida regalis</i>	Dg	58.0
<i>Stellaria media</i> agg.	Dg	57.0

<i>Myosotis arvensis</i>	Dg	55.0
<i>Anagallis arvensis</i>	Dg	55.0
<i>Veronica persica</i>	Dg	53.0
<i>Sinapis arvensis</i>	Dg	53.0
<i>Apera spica-venti</i>	Dg, Dm	52.0
<i>Matricaria maritima</i> subsp. <i>inodora</i>	Dg	50.0
<i>Centaurea cyanus</i>	Dg	49.0
<i>Lathyrus tuberosus</i>	Dg	47.0
<i>Melandrium noctiflorum</i>	Dg	44.0
<i>Avena fatua</i>	Dg	44.0
<i>Polygonum aviculare</i> agg.		43.0
<i>Euphorbia helioscopia</i>	Dg	42.0
<i>Elymus repens</i>		42.0
<i>Chenopodium album</i> agg.		42.0

Dominant species (1):

<i>Apera spica-venti</i>	Dg, C	3.0
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XBB Alliance

Veronico-Euphorbion

Basiphilous weed vegetation in root-crop fields

Number of relevés: 495

Diagnostic species (17):

<i>Euphorbia helioscopia</i>	C	41.7
<i>Veronica persica</i>	C	37.5
<i>Sonchus asper</i>		30.8
<i>Sinapis arvensis</i>	C	30.2
<i>Thlaspi arvense</i>		29.0
<i>Sonchus arvensis</i>	C	28.7
<i>Lamium amplexicaule</i>		28.5
<i>Stellaria media</i> agg.	C	27.6
<i>Chenopodium album</i> agg.	C	26.5
<i>Lamium purpureum</i>		24.0
<i>Anagallis arvensis</i>		23.9
<i>Fumaria officinalis</i>		23.7
<i>Galinsoga parviflora</i>		21.9
<i>Fallopia convolvulus</i>	C	20.3
<i>Cirsium arvense</i>	C	19.7
<i>Myosotis arvensis</i>		18.7
<i>Capsella bursa-pastoris</i>	C	18.1

Constant species (15):

<i>Chenopodium album</i> agg.	Dg	81.0
<i>Stellaria media</i> agg.	Dg	78.0
<i>Cirsium arvense</i>	Dg	76.0
<i>Fallopia convolvulus</i>	Dg	59.0
<i>Elymus repens</i>		59.0
<i>Veronica persica</i>	Dg	57.0
<i>Equisetum arvense</i>		55.0
<i>Sonchus arvensis</i>	Dg	51.0

<i>Euphorbia helioscopia</i>	Dg	49.0
<i>Viola arvensis</i>		45.0
<i>Sinapis arvensis</i>	Dg	44.0
<i>Matricaria maritima</i> subsp. <i>inodora</i>		43.0
<i>Capsella bursa-pastoris</i>	Dg	43.0
<i>Convolvulus arvensis</i>		42.0
<i>Galium aparine</i>		41.0

Dominant species (0):

XBC Alliance

Scleranthion annui

Weed vegetation of cereal fields on acidic soils

Number of relevés: 2331

Diagnostic species (13):

<i>Centaurea cyanus</i>	C	33.0
<i>Spergula arvensis</i>	C	26.7
<i>Apera spica-venti</i>	C, Dm	25.5
<i>Viola arvensis</i>	C	25.2
<i>Myosotis arvensis</i>	C	24.2
<i>Aphanes arvensis</i>		23.3
<i>Vicia hirsuta</i>	C	22.4
<i>Raphanus raphanistrum</i>		22.1
<i>Scleranthus annuus</i>		21.7
<i>Fallopia convolvulus</i>	C	19.9
<i>Vicia angustifolia</i>		19.4
<i>Stellaria media</i> agg.	C	19.3
<i>Papaver argemone</i>		18.5

Constant species (13):

<i>Centaurea cyanus</i>	Dg	68.0
<i>Viola arvensis</i>	Dg	66.0
<i>Fallopia convolvulus</i>	Dg	58.0
<i>Stellaria media</i> agg.	Dg	56.0
<i>Equisetum arvense</i>		56.0
<i>Cirsium arvense</i>		54.0
<i>Apera spica-venti</i>	Dg, Dm	54.0
<i>Chenopodium album</i> agg.		51.0
<i>Elymus repens</i>		49.0
<i>Myosotis arvensis</i>	Dg	46.0
<i>Matricaria maritima</i> subsp. <i>inodora</i>		45.0
<i>Vicia hirsuta</i>	Dg	41.0
<i>Spergula arvensis</i>	Dg	41.0

Dominant species (1):

<i>Apera spica-venti</i>	Dg, C	3.0
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XBD Alliance***Arnoserdion minimae***

Weed vegetation of cereal fields on nutrient-poor acidic soils

Number of relevés: 439

Diagnostic species (11):

<i>Arnosaris minima</i>	C	62.9
<i>Scleranthus annuus</i>	C	45.2
<i>Anthoxanthum aristatum</i>	C, Dm	42.6
<i>Teesdalia nudicaulis</i>		37.5
<i>Centaurea cyanus</i>	C	33.1
<i>Spergula arvensis</i>	C	30.0
<i>Apera spica-venti</i>	C	28.0
<i>Viola arvensis</i>	C	24.5
<i>Rumex acetosella</i> s. l.	C	20.4
<i>Fallopia convolvulus</i>	C	19.6
<i>Vicia angustifolia</i>		18.5

Constant species (10):

<i>Scleranthus annuus</i>	Dg	79.0
<i>Rumex acetosella</i> s. l.	Dg	74.0
<i>Centaurea cyanus</i>	Dg	68.0
<i>Arnosaris minima</i>	Dg	68.0
<i>Viola arvensis</i>	Dg	64.0
<i>Apera spica-venti</i>	Dg	59.0
<i>Fallopia convolvulus</i>	Dg	57.0
<i>Equisetum arvense</i>		48.0
<i>Spergula arvensis</i>	Dg	46.0
<i>Anthoxanthum aristatum</i>	Dg, Dm	41.0

Dominant species (1):

<i>Anthoxanthum aristatum</i>	Dg, C	7.0
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XBE Alliance***Oxalidion fontanae***

Weed vegetation of cereal and root-crop fields in cool areas

Number of relevés: 357

Diagnostic species (14):

<i>Galinsoga ciliata</i>		36.3
<i>Galinsoga parviflora</i>	C, Dm	26.4
<i>Erysimum cheiranthoides</i>		26.4
<i>Chenopodium album</i> agg.	C	25.4
<i>Stellaria media</i> agg.	C	25.3
<i>Oxalis fontana</i> s. l.		24.5
<i>Echinochloa crus-galli</i>	C	23.6
<i>Capsella bursa-pastoris</i>	C	21.3
<i>Veronica persica</i>		19.2
<i>Chenopodium polyspermum</i>		18.9
<i>Matricaria maritima</i> subsp. <i>inodora</i>	C	18.2

<i>Myosotis arvensis</i>		18.2
<i>Fallopia convolvulus</i>	C	18.2
<i>Sinapis arvensis</i>		18.0
Constant species (13):		
<i>Chenopodium album</i> agg.	Dg	78.0
<i>Stellaria media</i> agg.	Dg	72.0
<i>Cirsium arvense</i>		63.0
<i>Elymus repens</i>		59.0
<i>Fallopia convolvulus</i>	Dg	54.0
<i>Equisetum arvense</i>		54.0
<i>Capsella bursa-pastoris</i>	Dg	50.0
<i>Polygonum aviculare</i> agg.		49.0
<i>Viola arvensis</i>		46.0
<i>Matricaria maritima</i> subsp. <i>inodora</i>	Dg	46.0
<i>Galinsoga parviflora</i>	Dg, Dm	46.0
<i>Polygonum lapathifolium</i> s. l.		43.0
<i>Echinochloa crus-galli</i>	Dg	42.0
Dominant species (1):		
<i>Galinsoga parviflora</i>	Dg, C	3.0

XBF Alliance

Spergulo arvensis-Erodion cicutariae

Weed vegetation of dry sandy soils

Number of relevés: 431

Diagnostic species (9):

<i>Echinochloa crus-galli</i>	C	44.7
<i>Setaria pumila</i>	C	42.0
<i>Setaria viridis</i>	C	34.3
<i>Digitaria ischaemum</i>		28.3
<i>Galinsoga parviflora</i>	C	26.5
<i>Chenopodium album</i> agg.	C	26.2
<i>Spergula arvensis</i>		23.0
<i>Erodium cicutarium</i>		22.3
<i>Raphanus raphanistrum</i>		19.9

Constant species (10):

<i>Chenopodium album</i> agg.	Dg	80.0
<i>Echinochloa crus-galli</i>	Dg	78.0
<i>Equisetum arvense</i>		61.0
<i>Setaria pumila</i>	Dg	60.0
<i>Elymus repens</i>		54.0
<i>Fallopia convolvulus</i>		52.0
<i>Galinsoga parviflora</i>	Dg	46.0
<i>Setaria viridis</i>	Dg	45.0
<i>Cirsium arvense</i>		45.0
<i>Viola arvensis</i>		44.0

Dominant species (0):

XBG Alliance

Atriplicion

Ruderal vegetation of tall annual herbs

Number of relevés: 307

Diagnostic species (2):

<i>Chenopodium album</i> agg.	C, Dm	27.1
<i>Sisymbrium officinale</i>		21.5

Constant species (5):

<i>Chenopodium album</i> agg.	Dg, Dm	82.0
<i>Elymus repens</i>		57.0
<i>Artemisia vulgaris</i>		50.0
<i>Matricaria maritima</i> subsp. <i>inodora</i>		45.0
<i>Stellaria media</i> agg.		41.0

Dominant species (2):

<i>Apera spica-venti</i>		4.0
<i>Chenopodium album</i> agg.	Dg, C	3.0

XBH Alliance

Sisymbrium officinalis

Ruderal vegetation of winter-annual grasses

Number of relevés: 59

Diagnostic species (3):

<i>Hordeum murinum</i>	Dm	47.6
<i>Bromus tectorum</i>	C, Dm	44.4
<i>Bromus sterilis</i>	Dm	29.9

Constant species (1):

<i>Bromus tectorum</i>	Dg, Dm	66.0
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Dominant species (4):

<i>Hordeum murinum</i>	Dg	10.0
<i>Bromus tectorum</i>	Dg, C	5.0
<i>Ceratodon purpureus</i>		3.0
<i>Bromus sterilis</i>	Dg	3.0

XBI Alliance

Malvion neglectae

Ruderal vegetation of prostrate annual herbs on nutrient-rich soils

Number of relevés: 60

Diagnostic species (12):

<i>Malva neglecta</i>	C, Dm	77.2
<i>Urtica urens</i>	C	72.4
<i>Sisymbrium officinale</i>	C	40.1
<i>Chenopodium murale</i>		31.0
<i>Amaranthus retroflexus</i>		30.0

<i>Anthemis cotula</i>		25.6
<i>Leonurus cardiaca</i>		23.8
<i>Chenopodium vulvaria</i>		22.3
<i>Chamomilla suaveolens</i>		21.9
<i>Galinsoga parviflora</i>		21.7
<i>Descurainia sophia</i>		20.6
<i>Ballota nigra</i>		19.1

Constant species (5):

<i>Malva neglecta</i>	Dg, Dm	92.0
<i>Urtica urens</i>	Dg	77.0
<i>Sisymbrium officinale</i>	Dg	57.0
<i>Polygonum aviculare</i> agg.		45.0
<i>Urtica dioica</i>		42.0

Dominant species (2):

<i>Malva neglecta</i>	Dg, C	17.0
<i>Datura stramonium</i>		5.0

XBJ Alliance

Salsolion ruthenicae

Annual ruderal vegetation of disturbed gravelly and sandy soils

Number of relevés: 43

Diagnostic species (12):

<i>Plantago arenaria</i>	C	71.7
<i>Corispermum hyssopifolium</i>		51.4
<i>Bromus tectorum</i>	C	29.4
<i>Sisymbrium altissimum</i>		26.1
<i>Corispermum leptopterum</i>		23.9
<i>Salsola kali</i>		22.9
<i>Oenothera biennis</i> s. l.		22.8
<i>Setaria viridis</i>		22.6
<i>Coryza canadensis</i>	C	21.3
<i>Corynephorus canescens</i>	C	20.4
<i>Herniaria glabra</i>		19.4
<i>Artemisia campestris</i>	C	18.6

Constant species (5):

<i>Artemisia campestris</i>	Dg	58.0
<i>Plantago arenaria</i>	Dg	56.0
<i>Coryza canadensis</i>	Dg	56.0
<i>Bromus tectorum</i>	Dg	44.0
<i>Corynephorus canescens</i>	Dg	42.0

Dominant species (0):

XBK Alliance***Eragrostion cilianensi-minoris***

Late-summer thermophilous ruderal and weed vegetation of sandy soils

Number of relevés: 80

Diagnostic species (6):

<i>Portulaca oleracea</i>		41.4
<i>Digitaria sanguinalis</i>		40.6
<i>Setaria viridis</i>		21.5
<i>Digitaria ischaemum</i>		20.8
<i>Eragrostis minor</i>		20.4
<i>Conyza canadensis</i>	C	18.9

Constant species (3):

<i>Conyza canadensis</i>	Dg	50.0
<i>Chenopodium album</i> agg.		49.0
<i>Convolvulus arvensis</i>		44.0

Dominant species (1):

<i>Calamagrostis epigejos</i>		5.0
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XBL Alliance***Lolio-Linion***

Central European flaxfield weed communities

Number of relevés: 6

Diagnostic species (25):

<i>Linum usitatissimum</i>	C, Dm	96.6
<i>Spergula arvensis</i> subsp. <i>maxima</i>	C	91.2
<i>Lolium remotum</i>	C	81.6
<i>Scleranthus annuus</i>	C	57.2
<i>Anthemis arvensis</i>	C	56.5
<i>Vicia angustifolia</i>	C	53.6
<i>Spergularia rubra</i>	C	48.5
<i>Raphanus raphanistrum</i>	C	42.9
<i>Polygonum lapathifolium</i> s. l.	C	42.3
<i>Crepis tectorum</i>		42.0
<i>Centaurea cyanus</i>	C	40.9
<i>Avena nuda</i>		40.6
<i>Apera spica-venti</i>	C	40.2
<i>Polygonum persicaria</i>	C	38.2
<i>Setaria pumila</i>	C	34.8
<i>Arnoseris minima</i>		30.4
<i>Galeopsis tetrahit</i> s. l.	C	26.9
<i>Convolvulus arvensis</i>	C	26.1
<i>Viola arvensis</i>	C	25.6
<i>Rumex acetosella</i> s. l.	C	23.2
<i>Fallopia convolvulus</i>	C	23.0
<i>Agrostis stolonifera</i>	C	22.3
<i>Chenopodium album</i> agg.	C	21.5

<i>Bromus hordeaceus</i>		20.4
<i>Polygonum aviculare</i> agg.	C	18.1
Constant species (24):		
<i>Vicia angustifolia</i>	Dg	100.0
<i>Scleranthus annuus</i>	Dg	100.0
<i>Polygonum lapathifolium</i> s. l.	Dg	100.0
<i>Linum usitatissimum</i>	Dg, Dm	100.0
<i>Spergula arvensis</i> subsp. <i>maxima</i>	Dg	83.0
<i>Rumex acetosella</i> s. l.	Dg	83.0
<i>Polygonum persicaria</i>	Dg	83.0
<i>Convolvulus arvensis</i>	Dg	83.0
<i>Centaurea cyanus</i>	Dg	83.0
<i>Apera spica-venti</i>	Dg	83.0
<i>Anthemis arvensis</i>	Dg	83.0
<i>Viola arvensis</i>	Dg	67.0
<i>Spergularia rubra</i>	Dg	67.0
<i>Raphanus raphanistrum</i>	Dg	67.0
<i>Lolium remotum</i>	Dg	67.0
<i>Galeopsis tetrahit</i> s. l.	Dg	67.0
<i>Fallopia convolvulus</i>	Dg	67.0
<i>Elymus repens</i>		67.0
<i>Chenopodium album</i> agg.	Dg	67.0
<i>Agrostis stolonifera</i>	Dg	67.0
<i>Setaria pumila</i>	Dg	50.0
<i>Polygonum aviculare</i> agg.	Dg	50.0
<i>Cirsium arvense</i>		50.0
<i>Achillea millefolium</i> agg.		50.0
Dominant species (1):		
<i>Linum usitatissimum</i>	Dg, C	83.0

XC Class

ARTEMISIETEA VULGARIS

Xerophilous ruderal vegetation with biennial and perennial species

Number of relevés: 814

Diagnostic species (8):

<i>Convolvulus arvensis</i>		27.3
<i>Artemisia vulgaris</i>	C	26.6
<i>Elymus repens</i>	C, Dm	23.2
<i>Cirsium arvense</i>		22.9
<i>Tanacetum vulgare</i>		22.3
<i>Bromus inermis</i>		21.5
<i>Melilotus alba</i>		18.3
<i>Melandrium album</i>		18.2

Constant species (4):

<i>Artemisia vulgaris</i>	Dg	51.0
<i>Elymus repens</i>	Dg, Dm	44.0
<i>Achillea millefolium</i> agg.		44.0

<i>Cirsium arvense</i>	Dg	43.0
Dominant species (2):		
<i>Elymus repens</i>	Dg, C	6.0
<i>Calamagrostis epigejos</i>		3.0

XCA Alliance

Onopordon acanthii

Thermophilous archaeophyte-rich ruderal vegetation with biennial and perennial herbs

Number of relevés: 16

Diagnostic species (8):

<i>Artemisia absinthium</i>	C, Dm	64.8
<i>Onopordon acanthium</i>	Dm	40.6
<i>Carduus acanthoides</i>		23.4
<i>Berteroa incana</i>		23.1
<i>Descurainia sophia</i>		20.6
<i>Oenothera biennis</i> s. l.		20.4
<i>Potentilla argentea</i>	C	20.0
<i>Lepidium ruderales</i>		19.7

Constant species (5):

<i>Artemisia absinthium</i>	Dg, Dm	100.0
<i>Achillea millefolium</i> agg.		62.0
<i>Artemisia vulgaris</i>		50.0
<i>Potentilla argentea</i>	Dg	44.0
<i>Plantago lanceolata</i>		44.0

Dominant species (3):

<i>Artemisia absinthium</i>	Dg, C	25.0
<i>Onopordon acanthium</i>	Dg	6.0
<i>Calamagrostis epigejos</i>		6.0

XCB Alliance

Dauco carotae-Melilotion

Ruderal vegetation with biennial and perennial herbs on stony and gravelly soils

Number of relevés: 370

Diagnostic species (1):

<i>Tanacetum vulgare</i>		19.6
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Constant species (3):

<i>Artemisia vulgaris</i>		54.0
<i>Achillea millefolium</i> agg.		52.0
<i>Cirsium arvense</i>		41.0

Dominant species (3):

<i>Solidago gigantea</i>		6.0
<i>Calamagrostis epigejos</i>		5.0
<i>Poa compressa</i>		3.0

XCC Alliance

Convolvulo arvensis-Elytrigion repentis

Ruderal vegetation with perennial herbs on dry or intermittently dry soils

Number of relevés: 328

Diagnostic species (2):

<i>Bromus inermis</i>	Dm	21.7
<i>Convolvulus arvensis</i>	C	19.1

Constant species (3):

<i>Elymus repens</i>	Dm	64.0
<i>Convolvulus arvensis</i>	Dg	62.0
<i>Poa pratensis</i> s. l.		46.0

Dominant species (2):

<i>Elymus repens</i>	C	14.0
<i>Bromus inermis</i>	Dg	5.0

XCE Alliance

Arction lappae

Nitrophilous ruderal vegetation with biennial and perennial species in man made habitats

Number of relevés: 100

Diagnostic species (6):

<i>Arctium tomentosum</i>	C, Dm	42.9
<i>Ballota nigra</i>	C, Dm	39.7
<i>Leonurus cardiaca</i>		28.7
<i>Arctium lappa</i>		23.5
<i>Chenopodium bonus-henricus</i>		20.5
<i>Artemisia vulgaris</i>	C	19.9

Constant species (6):

<i>Urtica dioica</i>	Dm	76.0
<i>Artemisia vulgaris</i>	Dg	72.0
<i>Ballota nigra</i>	Dg, Dm	64.0
<i>Arctium tomentosum</i>	Dg, Dm	51.0
<i>Elymus repens</i>		47.0
<i>Cirsium arvense</i>		42.0

Dominant species (4):

<i>Urtica dioica</i>	C	7.0
<i>Ballota nigra</i>	Dg, C	7.0
<i>Heracleum sosnowskyi</i>		4.0
<i>Arctium tomentosum</i>	Dg, C	4.0

XD Class***GALIO-URTICETEA***

Nitrophilous perennial vegetation of wet to mesic habitats

Number of relevés: 1219

Diagnostic species (6):

<i>Urtica dioica</i>	C, Dm	28.0
<i>Aegopodium podagraria</i>		24.3
<i>Petasites hybridus</i>	Dm	21.5
<i>Galium aparine</i>	C	20.8
<i>Heracleum mantegazzianum</i>		19.1
<i>Anthriscus sylvestris</i>		19.1

Constant species (2):

<i>Urtica dioica</i>	Dg, Dm	76.0
<i>Galium aparine</i>	Dg	41.0

Dominant species (2):

<i>Urtica dioica</i>	Dg, C	7.0
<i>Petasites hybridus</i>	Dg	7.0

XDA Alliance***Senecionion fluviatilis***

Nitrophilous herbaceous fringes of floodplain forests

Number of relevés: 216

Diagnostic species (4):

<i>Impatiens glandulifera</i>	Dm	34.5
<i>Calystegia sepium</i>	C, Dm	26.0
<i>Epilobium hirsutum</i>		23.1
<i>Urtica dioica</i>	C, Dm	18.9

Constant species (4):

<i>Urtica dioica</i>	Dg, Dm	91.0
<i>Calystegia sepium</i>	Dg, Dm	52.0
<i>Phalaris arundinacea</i>		49.0
<i>Galium aparine</i>		49.0

Dominant species (3):

<i>Impatiens glandulifera</i>	Dg	10.0
<i>Urtica dioica</i>	Dg, C	7.0
<i>Calystegia sepium</i>	Dg, C	6.0

XDB Alliance***Petasition hybridi***Vegetation of montane and submontane floodplains with *Petasites*Number of relevés: 117

Diagnostic species (4):

<i>Petasites hybridus</i>	C, Dm	70.2
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<i>Aegopodium podagraria</i>	C	25.5
<i>Ficaria verna</i>		20.6
<i>Anthriscus sylvestris</i>		18.3
Constant species (3):		
<i>Petasites hybridus</i>	Dg, Dm	91.0
<i>Aegopodium podagraria</i>	Dg	73.0
<i>Urtica dioica</i>		68.0
Dominant species (2):		
<i>Petasites hybridus</i>	Dg, C	68.0
<i>Petasites kablikianus</i>		4.0

XDC Alliance

Impatiens noli-tangere-Stachyon sylvaticae

Nitrophilous vegetation of forest fringes, canopy openings and clearings with perennial herbs

Number of relevés: 93

Diagnostic species (1):

<i>Geranium robertianum</i>	C	23.3
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Constant species (3):

<i>Geranium robertianum</i>	Dg	65.0
<i>Urtica dioica</i>	Dm	60.0
<i>Geum urbanum</i> s. l.		43.0

Dominant species (3):

<i>Urtica dioica</i>	C	9.0
<i>Corylus avellana</i>		4.0
<i>Eupatorium cannabinum</i>		3.0

XDD Alliance

Geo urbani-Alliarion petiolatae

Nitrophilous vegetation of disturbed forest fringes with annual and biennial herbs

Number of relevés: 227

Diagnostic species (4):

<i>Alliaria petiolata</i>	C	34.2
<i>Chaerophyllum temulum</i>	C	30.9
<i>Torilis japonica</i>		22.1
<i>Geum urbanum</i> s. l.	C	20.9

Constant species (5):

<i>Urtica dioica</i>	Dm	63.0
<i>Geum urbanum</i> s. l.	Dg	57.0
<i>Alliaria petiolata</i>	Dg	44.0
<i>Galium aparine</i>		43.0
<i>Chaerophyllum temulum</i>	Dg	43.0

Dominant species (1):

<i>Urtica dioica</i>	C	4.0
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XDE Alliance***Aegopodium podagrariae***

Nitrophilous ruderal vegetation with broad-leaved perennial herbs

Number of relevés: 527

Diagnostic species (2):

<i>Reynoutria japonica</i>	Dm	19.8
<i>Heracleum mantegazzianum</i>		18.9

Constant species (4):

<i>Urtica dioica</i>	Dm	79.0
<i>Dactylis glomerata</i>		47.0
<i>Aegopodium podagraria</i>	Dm	47.0
<i>Galium aparine</i>		41.0

Dominant species (3):

<i>Urtica dioica</i>	C	9.0
<i>Reynoutria japonica</i>		4.0
<i>Aegopodium podagraria</i>	C	3.0

XDF Alliance***Rumicion alpini***

Montane nitrophilous vegetation of broad-leaved herbs

Number of relevés: 39

Diagnostic species (8):

<i>Rumex alpinus</i>	C, Dm	74.6
<i>Carduus personata</i>		37.5
<i>Orobanche pallidiflora</i>		22.6
<i>Chaerophyllum hirsutum</i>	C	19.4
<i>Hypericum maculatum</i>	C, Dm	18.9
<i>Alnus viridis</i>		18.7
<i>Rumex alpestris</i>	C	18.4
<i>Myrrhis odorata</i>		18.3

Constant species (11):

<i>Rumex alpinus</i>	Dg, Dm	82.0
<i>Deschampsia caespitosa</i>	Dm	64.0
<i>Hypericum maculatum</i>	Dg, Dm	56.0
<i>Urtica dioica</i>		54.0
<i>Agrostis capillaris</i>		54.0
<i>Veronica chamaedrys</i>		46.0
<i>Dactylis glomerata</i>		46.0
<i>Rumex alpestris</i>	Dg	44.0
<i>Chaerophyllum hirsutum</i>	Dg	44.0
<i>Ranunculus repens</i>		41.0
<i>Alchemilla vulgaris</i> s. l.		41.0

Dominant species (4):

<i>Rumex alpinus</i>	Dg, C	28.0
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<i>Deschampsia caespitosa</i>	C	13.0
<i>Doronicum austriacum</i>		8.0
<i>Hypericum maculatum</i>	Dg, C	5.0

XE Class

EPILOBIETEA ANGUSTIFOLII

Herbaceous vegetation of forest clearings and disturbed habitats in forest environments

Number of relevés: 137

Diagnostic species (7):

<i>Digitalis purpurea</i>		33.7
<i>Pteridium aquilinum</i>	Dm	26.6
<i>Agrostis capillaris</i>	C	24.9
<i>Calamagrostis epigejos</i>		23.2
<i>Chamaenerion angustifolium</i>		21.1
<i>Rubus idaeus</i>	C	19.6
<i>Holcus mollis</i>	Dm	18.3

Constant species (2):

<i>Agrostis capillaris</i>	Dg	55.0
<i>Rubus idaeus</i>	Dg	47.0

Dominant species (4):

<i>Pteridium aquilinum</i>	Dg	5.0
<i>Nardus stricta</i>		4.0
<i>Holcus mollis</i>	Dg	4.0
<i>Deschampsia caespitosa</i>		4.0

XEA Alliance

Epilobion angustifolii

Herbaceous forest-clearing communities on nutrient-poor soils

Number of relevés: 134

Diagnostic species (2):

<i>Digitalis purpurea</i>		29.5
<i>Pteridium aquilinum</i>	Dm	19.7

Constant species (2):

<i>Agrostis capillaris</i>		57.0
<i>Rubus idaeus</i>		47.0

Dominant species (4):

<i>Pteridium aquilinum</i>	Dg	5.0
<i>Nardus stricta</i>		4.0
<i>Holcus mollis</i>		4.0
<i>Deschampsia caespitosa</i>		4.0

XEB Alliance***Fragarion vescae***

Herbaceous forest-clearing communities on nutrient-rich soils

Number of relevés: 3

Diagnostic species (4):

<i>Arctium nemorosum</i>	C	89.8
<i>Angelica sylvestris</i>	C	40.3
<i>Stachys sylvatica</i>	C	33.0
<i>Festuca gigantea</i>	C	32.7

Constant species (8):

<i>Arctium nemorosum</i>	Dg	100.0
<i>Angelica sylvestris</i>	Dg	100.0
<i>Urtica dioica</i>		67.0
<i>Stachys sylvatica</i>	Dg	67.0
<i>Ranunculus repens</i>		67.0
<i>Poa trivialis</i>		67.0
<i>Festuca gigantea</i>	Dg	67.0
<i>Artemisia vulgaris</i>		67.0

Dominant species (0):

Appendix 3

Alphabetical index of diagnostic, constant and dominant species of vegetation units of Poland

Appendix 3 presents an alphabetical index of diagnostic, constant and dominant species followed by abbreviations of authors of plant names. For each species, the indicative value for a particular vegetation unit is given. Abbreviation of indicative value of species conforms to the scheme presented in previous parts of this paper: **Dg** – diagnostic species, **C** – constant species, **Dm** – dominant species. Abbreviations of classes (capital letters) and alliances (small letters) are given next to the unique codes for syntaxa.

Abies alba Mill.

Dg: LB CAR-FAG, LBE Luz-Fag

Dm: LBC Fag syl, LBE Luz-Fag

Abietinella abietina (Hedw.) Fleisch

Dg: SC THL ROT

Dm: LE ERI-PIN, LEA Pul-Pin

Acer campestre L.

Dg: LCA Que pub

Acer negundo L.

Dg: KD ROBINI, KDA Che-Rob

Acer platanoides L.

Dg: KD ROBINI, LB CAR-FAG, LBD Sor-Fag, LBF Til-Ace

C: LBD Sor-Fag, LBF Til-Ace

Acer pseudoplatanus L.

Dg: LB CAR-FAG, LBC Fag syl, LBD Sor-Fag, LBF Til-Ace

C: LB CAR-FAG, LBC Fag syl, LBD Sor-Fag, LBF Til-Ace

Dm: LBF Til-Ace

Achillea millefolium agg.

Dg: AF CAR-KOB

C: AF CAR-KOB, AFA Fes ver, KAB Sal ela, LCA Que pub, TD MOL-ARR, TDA Arr ela, TDB Pol-Tri, TDC Cyn cri, TDD Mol cae, TDH Alo pra, TE CAL-ULI, TEB Nar-Agr, TEC Vio can, TEE Eup-Cal, TFC Arm elo, TFD Hyp-Scl, TFE Ara tha, TFG Koe alb, TH FES-BRO, THA Aly-Fes, THF Bro ere, THI Tri med, THJ Mel pra,

XBL Lol-Lin, XC ART VUL, XCA Ono aca, XCB Dau-Mel

Achillea pannonica Scheele

Dg: KBA Pru fru, TH FES-BRO, THD Fes val, THG Koe-Phl

C: KBA Pru fru, THD Fes val

Achillea ptarmica L.

Dg: TD MOL-ARR

Acinos arvensis (Lam.) Dandy

Dg: SC THL ROT, TFF Aly-Sed, TH FES-BRO, THA Aly-Fes, THC Dia-Ses

C: TFF Aly-Sed, THA Aly-Fes, THC Dia-Ses

Aconitum firmum Rchb.

Dg: AD MUL-ACO, ADC Sal sil, ADG Tri fus, AE SAL HER, AEB Fes pic

C: ADG Tri fus

Dm: ADG Tri fus, RAD Swe-Dic

Aconitum plicatum K hler ex Rchb.

Dg: RAD Swe-Dic

Aconitum variegatum L.

Dg: LE ERI-PIN, LEA Pul-Pin

Acorus calamus L.

Dg: MCA Phr aus

Dm: MCA Phr aus

Actaea spicata L.

Dg: LBC Fag syl, LBD Sor-Fag, LBF Til-Ace, LE ERI-PIN, LEA Pul-Pin

Adenophora lilifolia (L.) Besser.

Dg: LC QUE PUB

Adenostyles alliariae (Gouan) A. Kern

Dg: AD MUL-ACO, ADC Sal sil, ADD Ade all,

ADE Dry-Ath, AE SAL HER

C: ADC Sal sil, ADD Ade all

Dm: ADC Sal sil, ADD Ade all

Adonis aestivalis L.

Dg: XBA Caucal

Aegopodium podagraria L.

Dg: LB CAR-FAG, LBF Til-Ace, XD GAL-URT,

XDB Pet hyb

C: LBA Aln inc, LBF Til-Ace, XDB Pet hyb,

XDE Aeg pod

Dm: XDE Aeg pod

Aethusa cynapium s. l.

Dg: XBA Caucal

Agrimonia eupatoria L.

Dg: LCA Que pub, TH FES-BRO, THI Tri med

C: LCA Que pub, THE Cir-Bra, THI Tri med

Agrostemma githago L.

Dg: XB STE MED

Agrostis canina L.

Dg: RAC Epi-Mon, RB SCH-CAR, RBD Sph-Car

C: RAC Epi-Mon, RBD Sph-Car

Agrostis capillaris L.

Dg: TDB Pol-Tri, TE CAL-ULI, TEB Nar-Agr, TEC Vio can, THJ Mel pra, XE EPI ANG

C: TDA Arr ela, TDB Pol-Tri, TDC Cyn cri, TE

CAL-ULL, TEA Nar str, TEB Nar-Agr,

TEC Vio can, TED Nar-Jun, TEE Eup-Cal, TEF

Gen-Vac, TFB The-Air, TFC Arm elo, TFD Hyp-

Scl, THJ Mel pra, XDF Rum alp, XE EPI ANG,

XEA Epi ang

Dm: AE SAL HER, AEB Fes pic, TDB Pol-Tri

Agrostis rupestris All.

Dg: AA LOI-VAC, AB JUN TRI, ABA Jun tri,

AC ELY-SES, ACB Car fir, AE SAL HER, AEA

Sal her

C: ABA Jun tri, ACB Car fir, AEA Sal her

Agrostis stolonifera L.

Dg: DAC Jun bal, TC FES-PUC, TCB Jun ger, TDK Pot ans, XBL Lol-Lin

C: DAC Jun bal, MCB Mel-Bol, TC FES-PUC, TCB Jun ger, TDK Pot ans, XBL Lol-Lin

Dm: TC FES-PUC, TCB Jun ger, TDK Pot ans

Agrostis vinealis Schreb.

Dg: TEE Eup-Cal

Ahnfeltia plicata (Huds.) E.M.Fries

Dg: VE ZOS MAR, VEA Zos mar

Aira caryophyllea L.

Dg: TFB The-Air

Aira praecox L.

Dg: TF KOE-COR, TFB The-Air

C: TFB The-Air

Dm: TFB The-Air

Ajuga reptans L.

Dg: LC QUE PUB

Alchemilla pyrenaica Dyfour.

Dg: AE SAL HER, AF CAR-KOB

Alchemilla vulgaris s. l.

Dg: AE SAL HER, AEB Fes pic, TD MOL-ARR, TDB Pol-Tri

C: ADG Tri fus, AEB Fes pic, RAD Swe-Dic, TDA Arr ela, TDB Pol-Tri, TEB Nar-Agr, TEC

Vio can, XDF Rum alp

Dm: ADA Cal vil

Aldrovanda vesiculosa L.

Dg: VCA Nit fle

Alectoria ochroleuca (Hoffm.) A. Massal.

Dg: AB JUN TRI, ABA Jun tri

Alisma plantago-aquatica L.

Dg: MCC Ele-Sag, VBD Ran aqu, VD LIT UNI

C: MCC Ele-Sag, VBD Ran aqu

Alliaria petiolata (M. Bieb.) Cavara & Grande

Dg: XDD Geo-All

C: XDD Geo-All

Allium angulosum L.

Dg: TDI Cni ven

C: TDI *Cni ven*

Allium montanum Schmidt.

Dg: LE *ERI-PIN*, THA *Aly-Fes*, THB *Bro-Fes*,
THC *Dia-Ses*

C: THC *Dia-Ses*

Allium oleraceum L.

Dg: SC *THL ROT*

Allium sibiricum L.

Dg: RA *MON-CAR*, RAD *Swe-Dic*

C: RAD *Swe-Dic*

Dm: RAD *Swe-Dic*

Allium victorialis L.

Dg: TEB *Nar-Agr*

Alnus glutinosa (L.) Gaertn.

Dg: LA *ALN GLU*, LAA *Aln glu*, LBA *Aln inc*

C: KAC *Sal alb*, LA *ALN GLU*, LAA *Aln glu*,
LAB *Sal cin*, LBA *Aln inc*

Dm: LA *ALN GLU*, LAA *Aln glu*, LB *CAR-FAG*,
LBA *Aln inc*, VBD *Ran aqu*

Alnus incana (L.) Moench

Dg: KA *SAL PUR*, KAB *Sal ela*

C: KAB *Sal ela*

Dm: LBA *Aln inc*, RAB *Lyc-Cra*

Alnus viridis (Chaix) DC. in Lam. & DC.

Dg: XDF *Rum alp*

Alopecurus aequalis Sobol.

Dg: MB *BID TRI*, MBA *Bid tri*

Dm: MBA *Bid tri*

Alopecurus geniculatus L.

Dg: TDK *Pot ans*

Dm: TDK *Pot ans*

Alopecurus pratensis L.

Dg: TD *MOL-ARR*, TDI *Cni ven*, TDH *Alo pra*

C: TDI *Cni ven*, TDH *Alo pra*

Dm: TDH *Alo pra*

Alyssum alyssoides (L.) L.

Dg: TFF *Aly-Sed*

Alyssum saxatile L.

Dg: LE *ERI-PIN*, LEA *Pul-Pin*, THC *Dia-Ses*

Amaranthus retroflexus L.

Dg: XBI *Mal neg*

Ammophila arenaria (L.) Link

Dg: DA *AMM ARE*, DAA *Amm are*, DAB *Agr-Min*,
DAC *Jun bal*, DB *CAK MAR*, DBA *Atr lit*

C: DA *AMM ARE*, DAA *Amm are*, DAB *Agr-Min*,
DAC *Jun bal*, DB *CAK MAR*, DBA *Atr lit*

Dm: DAB *Agr-Min*

Anagallis arvensis L.

Dg: XB *STE MED*, XBA *Caucal*, XBB *Ver-Eup*

C: XBA *Caucal*

Anagallis foemina Mill.

Dg: XBA *Caucal*

Anastrophyllum minutum (Schreb.) R.M. Schust.

Dg: TEA *Nar str*

Anchusa arvensis (L.) M. Bieb.

Dg: XB *STE MED*

Andromeda polifolia L.

Dg: RC *OXY-SPH*, RCA *Sph mag*, RCB *Oxy-Eri*,
RCC *Oxy-Emp*

C: RC *OXY-SPH*, RCB *Oxy-Eri*, RCC *Oxy-Emp*

Androsace chamaejasme Wulfen

Dg: AC *ELY-SES*, ACB *Car fir*

C: AC *ELY-SES*, ACB *Car fir*

Androsace lactea L.

Dg: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*

Androsace septentrionalis L.

Dg: TFE *Ara tha*

Anemone narcissiflora L.

Dg: AEB *Fes pic*, AF *CAR-KOB*, AFA *Fes ver*

C: AF *CAR-KOB*, AFA *Fes ver*

Anemone nemorosa L.

Dg: LB *CAR-FAG*, LBB *Car bet*, LC *QUE PUB*,
LD *QUE ROB*

C: LB *CAR-FAG*, LBA *Aln inc*, LBB *Car bet*,
LBC *Fag syl*

Anemone sylvestris L.

Dg: KBA *Pru fru*, THE *Cir-Bra*

Angelica sylvestris L.

Dg: TD MOL-ARR, XEB *Fra ves*

C: TDF *Cal pal*, XEB *Fra ves*

Antennaria carpatica (Wahlenb.) Bluff & Fin-
gerh.

Dg: AC ELY-SES, ACB *Car fir*

Antennaria dioica (L.) Gaertn.

Dg: AC ELY-SES, ADF *Cal var*

Anthemis arvensis L.

Dg: XB STE MED, XBL *Lol-Lin*

C: XBL *Lol-Lin*

Anthemis cotula L.

Dg: XBI *Mal neg*

Anthemis ruthenica M. Bieb.

Dg: TFE *Ara tha*

Anthemis tinctoria L.

Dg: ADF *Cal var*, SC THL ROT, SCA *Sti cal*

Anthericum liliago L.

Dg: LCA *Que pub*, THD *Fes val*

Anthericum ramosum L.

Dg: LC QUE PUB, LCC *Que pet*

C: LCC *Que pet*

Dm: THF *Bro ere*

Anthoceros agrestis Paton

Dg: MA ISO-JUN, MAB *Rad lin*

C: MAB *Rad lin*

Anthoxanthum aristatum Boiss.

Dg: XBD *Arn min*

C: XBD *Arn min*

Dm: XBD *Arn min*

Anthoxanthum odoratum s. l.

Dg: AE SAL HER, AEB *Fes pic*, TE CAL-ULI,
THJ *Mel pra*

C: ADG *Tri fus*, AE SAL HER, AEA *Sal her*,
AEB *Fes pic*, KBH *Sal are*, RBB *Sph-Tom*, TD
MOL-ARR, TDA *Arr ela*, TDB *Pol-Tri*, TDD
Mol cae, TDH *Alo pra*, TE CAL-ULI, TEA *Nar*
str, TEB *Nar-Agr*, TEC *Vio can*, TED *Nar-Jun*,
TEE *Eup-Cal*, TFG *Koe alb*, THJ *Mel pra*

Anthriscus sylvestris (L.) Hoffm.

Dg: KD ROBINI, XD GAL-URT, XDB *Pet hyb*

Anthyllis vulneraria s. l.

Dg: TH FES-BRO, THC *Dia-Ses*, THF *Bro ere*,
TI VIO CAL

C: THF *Bro ere*

Anthyllis vulneraria L. subsp. *maritima* (Schwe-
igg.) Corb.

Dg: TFG *Koe alb*

C: TFG *Koe alb*

Dm: TFG *Koe alb*

Apera spica-venti (L.) P. Beauv.

Dg: XB STE MED, XBA *Caucal*, XBC *Scl ann*,
XBD *Arn min*, XBL *Lol-Lin*

C: XBA *Caucal*, XBC *Scl ann*, XBD *Arn min*,
XBL *Lol-Lin*

Dm: XBA *Caucal*, XBC *Scl ann*, XBG *Atrpli*

Aphanes arvensis L.

Dg: XB STE MED, XBC *Scl ann*

Aposeris foetida (L.) Less.

Dg: ADB *Cal aru*

Aquilegia vulgaris L.

Dg: LBD *Sor-Fag*, LE ERI-PIN, LEA *Pul-Pin*,
THB *Bro-Fes*

Arabidopsis thaliana (L.) Heynh.

Dg: XB STE MED

Arabis hirsuta (L.) Scop.

Dg: THA *Aly-Fes*

Arabis recta Vill.

Dg: TFF *Aly-Sed*

Arctium lappa L.

Dg: XCE *Arc lap*

Arctium minus (Hill) Bernh.

Dg: KD ROBINI, KDA *Che-Rob*

Arctium nemorosum Lej.

Dg: XEB *Fra ves*

C: XEB *Fra ves*

Arctium tomentosum Mill.

Dg: XCE *Arc lap*

C: XCE *Arc lap*

Dm: XCE *Arc lap*

Arenaria serpyllifolia agg.

Dg: TF *KOE-COR*, TFF *Aly-Sed*, TFH *Koe gla*

C: KAB *Sal ela*, TFE *Ara tha*, TFF *Aly-Sed*, TFH *Koe gla*

Armeria maritima s. l.

Dg: TFC *Arm elo*, TI *VIO CAL*, TIA *Arm hal*

C: TFC *Arm elo*, TI *VIO CAL*, TIA *Arm hal*

Arnica montana L.

Dg: AB *JUN TRI*, ABB *Nar-Car*

Arnoseris minima (L.) Schweigg. & Körte

Dg: XB *STE MED*, XBD *Arn min*, XBL *Lol-Lin*

C: XBD *Arn min*

Arrhenatherum elatius (L.) P. Beauv. ex J. Presl et C. Presl

Dg: TDA *Arr ela*, KD *ROBINI*

C: TDA *Arr ela*, THI *Tri med*

Dm: KD *ROBINI*, KDA *Che-Rob*, TDA *Arr ela*

Artemisia absinthium L.

Dg: SC *THL ROT*, XCA *Ono aca*

C: XCA *Ono aca*

Dm: XCA *Ono aca*

Artemisia austriaca Jacq.

Dg: TFE *Ara tha*

Artemisia campestris L.

Dg: TF *KOE-COR*, TFC *Arm elo*, TFE *Ara tha*, TFH *Koe gla*, TH *FES-BRO*, THD *Fes val*, THG *Koe-Phl*, XBJ *Sal rut*

C: TF *KOE-COR*, TFA *Cor can*, TFC *Arm elo*, TFE *Ara tha*, TFF *Aly-Sed*, TFH *Koe gla*, THD *Fes val*, THG *Koe-Phl*, XBJ *Sal rut*

Artemisia campestris L. subsp. *sericea* (Fr.) Lemke & Rothm.

Dg: DA *AMM ARE*, DAA *Amm are*, TFG *Koe alb*

C: TFG *Koe alb*

Artemisia vulgaris L.

Dg: KD *ROBINI*, SB *CYM-PAR*, XC *ART VUL*, XCE *Arc lap*

C: KD *ROBINI*, KDA *Che-Rob*, SB *CYM-PAR*, SBA *Cym-Asp*, XBG *Atrpli*, XC *ART VUL*, XCA *Ono aca*, XCB *Dau-Mel*, XCE *Arc lap*, XEB *Fra ves*

Aruncus sylvestris Kostel.

Dg: ADF *Cal var*

C: ADF *Cal var*

Dm: ADD *Ade all*

Asarum europaeum L.

Dg: ADF *Cal var*, LB *CAR-FAG*, LBF *Til-Ace*

C: ADF *Cal var*, LBF *Til-Ace*

Asparagus officinalis L.

Dg: LCA *Que pub*

Asperula cynanchica L.

Dg: KBA *Pru fru*, TH *FES-BRO*, THC *Dia-Ses*, THF *Bro ere*

Asperula tinctoria L.

Dg: LC *QUE PUB*

Asplenium adulterinum Milde

Dg: SAB *Asp cun*

Asplenium cuneifolium Viv.

Dg: SA *ASP TRI*, SAB *Asp cun*

C: SAB *Asp cun*

Dm: SAB *Asp cun*

Asplenium ruta-muraria L.

Dg: AC *ELY-SES*, ACA *Ses tat*, SA *ASP TRI*, SAA *Cystop*, SB *CYM-PAR*, SBA *Cym-Asp*, THA *Aly-Fes*, THB *Bro-Fes*, THC *Dia-Ses*

C: ACA *Ses tat*, SAA *Cystop*, THA *Aly-Fes*, THB *Bro-Fes*, THC *Dia-Ses*

Asplenium septentrionale (L.) Hoffm.

Dg: SA *ASP TRI*, SAB *Asp cun*, SAC *Asp sep*

Asplenium trichomanes L.

Dg: SA *ASP TRI*, SAA *Cystop*

C: SAA *Cystop*

Asplenium viride Huds.

Dg: AC ELY-SES, ACA Ses tat, ACB Car fir, ADF Cal var, LE ERI-PIN, LEA Pul-Pin
C: ADF Cal var

Aster alpinus L.

Dg: AC ELY-SES, ACA Ses tat, LE ERI-PIN, THB Bro-Fes, THC Dia-Ses

Aster amellus L.

Dg: SC THL ROT, THE Cir-Bra

Aster novi-belgii s. l.

Dg: TDJ Ver-Lys

Dm: TDJ Ver-Lys

Aster tripolium L.

Dg: TB THE-SAL, TBA Sal pro, TCA Puc lim

Dm: TCA Puc lim

Astragalus arenarius L.

Dg: TF KOE-COR, TFE Ara tha

Astragalus australis (L.) Lam.

Dg: LE ERI-PIN, LEA Pul-Pin, THC Dia-Ses

Astragalus danicus Retz.

Dg: THC Dia-Ses

Astragalus glycyphyllos L.

Dg: LC QUE PUB, LCA Que pub

Astrantia major L.

Dg: ADB Cal aru

Athyrium distentifolium Tausch ex Opiz

Dg: AD MUL-ACO, ADC Sal sil, ADE Dry-Ath, KC ROS-PIN, KCA Pin mug

C: ADC Sal sil, ADE Dry-Ath, KC ROS-PIN, KCA Pin mug

Dm: AD MUL-ACO, ADC Sal sil, ADE Dry-Ath, AE SAL HER, AEB Fes pic, LFC Pic abi

Athyrium filix-femina (L.) Roth

Dg: ADB Cal aru, LA ALN GLU, LAA Aln glu, LB CAR-FAG, LBC Fag syl, RA MON-CAR, RAA Car rem

C: ADB Cal aru, LAA Aln glu, LBC Fag syl, RA MON-CAR, RAA Car rem

Atrichum tenellum (Röhling) Bruch & Schimper

Dg: MAB Rad lin

Atriplex litoralis L.

Dg: DB CAK MAR, DBA Atr lit

Atriplex nitens Schkuhr

Dg: TB THE-SAL, TBA Sal pro

Atriplex prostrata s. l.

Dg: DB CAK MAR, MBB Che rub, TB THE-SAL, TBA Sal pro, TC FES-PUC, TCA Puc lim

C: MBB Che rub, TB THE-SAL, TBA Sal pro, TC FES-PUC, TCA Puc lim

Dm: MB BID TRI, MBB Che rub, TCA Puc lim

Atriplex tatarica L.

Dg: TDK Pot ans

Aulacomnium palustre (Hedw.) Schwägr.

Dg: RB SCH-CAR, RBB Sph-Tom, RC OXY-SPH, RCB Oxy-Eri

C: RBB Sph-Tom

Avena fatua L.

Dg: XB STE MED, XBA Caucal

C: XBA Caucal

Avena nuda L. emend. Mansf.

Dg: XBL Lol-Lin

Avenula pratensis (L.) Dumort

Dg: THG Koe-Phl

Avenula versicolor (Vill.) M. Lainz

Dg: AB JUN TRI, ABA Jun tri

C: ABA Jun tri

Bacidia bagliettoana (A. Massal. & De Not.) Jatta

Dg: TI VIO CAL, TIA Arm hal

C: TI VIO CAL, TIA Arm hal

Bacidina phacodes (Körb.) Vězda

Dg: TI VIO CAL, TIA Arm hal

Baeomyces rufus (Hudson) Rebent.

Dg: TI VIO CAL, TIA Arm hal

Baeothryon cespitosum (L.) A. Dietr.

Dg: RC OXY-SPH, RCB Oxy-Eri, RCC Oxy-Emp

Dm: RCC *Oxy-Emp*

Ballota nigra L.

Dg: KD *ROBINI*, KDA *Che-Rob*, XBI *Mal neg*,
XCE *Arc lap*
C: XCE *Arc lap*
Dm: XCE *Arc lap*

Barbarea vulgaris R. Br.

Dg: KAB *Sal ela*

Barbula unguiculata Hedw.

Dg: TFG *Koe alb*

Bartsia alpina L.

Dg: AC *ELY-SES*, ACB *Car fir*, AF *CAR-KOB*,
AFA *Fes ver*
C: ACB *Car fir*, AF *CAR-KOB*, AFA *Fes ver*

Batrachium aquatile s. l.

Dg: VBC *Bat flu*, VCA *Nit fle*

Batrachium circinatum (Sibth.) Fr.

Dg: VB *POTAME*, VBA *Nym alb*

Batrachium fluitans (Lam.) Wimm.

Dg: VBC *Bat flu*

Bazzania trilobata (L.) Gray

Dg: LFC *Pic abi*

Bellidiastrum michelii Cass.

Dg: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*
C: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*

Bellis perennis L.

Dg: TDC *Cyn cri*

Berberis vulgaris L.

Dg: SC *THL ROT*, THB *Bro-Fes*

Berteroa incana (L.) DC.

Dg: XCA *Ono aca*

Berula erecta (Huds.) Coville

Dg: MCE *Gly-Spa*

Betonica officinalis L.

Dg: LC *QUE PUB*, LCC *Que pet*, TDD *Mol cae*
C: LC *QUE PUB*, LCC *Que pet*

Betula pendula Roth

Dg: KBH *Sal are*, LD *QUE ROB*, LF *VAC-PIC*
C: KBH *Sal are*, LD *QUE ROB*, LDB *Que rob*,
LF *VAC-PIC*, LFB *Dic-Pin*, LFD *Vac-Pin*
Dm: LDB *Que rob*

Betula pubescens Ehrh.

Dg: LA *ALN GLU*, LAB *Sal cin*, LFD *Vac-Pin*,
RC *OXY-SPH*, RCA *Sph mag*
C: LAB *Sal cin*, LFD *Vac-Pin*, RC *OXY-SPH*,
RCA *Sph mag*
Dm: LFD *Vac-Pin*

Bidens cernua L.

Dg: MAC *Ver sup*, MB *BID TRI*, MBA *Bid tri*
C: MBA *Bid tri*

Bidens connata H.L. Mühl.

Dg: MB *BID TRI*, MBA *Bid tri*

Bidens frondosa L.

Dg: MAA *Ele ova*, MB *BID TRI*, MBA *Bid tri*,
MBB *Che rub*

Bidens radiata Thuill.

Dg: MB *BID TRI*

Bidens tripartita L.

Dg: MA *ISO-JUN*, MAC *Ver sup*, MB *BID TRI*,
MBA *Bid tri*
C: MAC *Ver sup*, MB *BID TRI*, MBA *Bid tri*

Biscutella laevigata L.

Dg: TI *VIO CAL*, TIA *Arm hal*
C: TI *VIO CAL*, TIA *Arm hal*

Blasia pusilla L.

Dg: MAB *Rad lin*

Blindia acuta (Hedwig) Bruch & Schimper

Dg: RAD *Swe-Dic*

Blysmus compressus (L.) Panz. ex Link

Dg: TC *FES-PUC*

Bolboschoenus maritimus (L.) Palla

Dg: MCB *Mel-Bol*, TC *FES-PUC*
C: MCB *Mel-Bol*
Dm: MCB *Mel-Bol*, TCA *Puc lim*

Bothriochloa ischaemum (L.) Keng

Dg: THD *Fes val*

Botrychium lunaria (L.) Sw.

Dg: AC ELY-SES, ACB *Car fir*, LE ERI-PIN

Brachypodium pinnatum (L.) P. Beauv.

Dg: LC QUE PUB, LCA *Que pub*, TH FES-BRO, THE *Cir-Bra*, THF *Bro ere*, THH *Ger san*
C: LCA *Que pub*, TH FES-BRO, THE *Cir-Bra*, THF *Bro ere*, THH *Ger san*

Dm: KBA *Pru fru*, LCA *Que pub*, TH FES-BRO, THD *Fes val*, THE *Cir-Bra*, THF *Bro ere*, THH *Ger san*, THI *Tri med*

Brachypodium sylvaticum (Huds.) P. Beauv.

Dg: LBD *Sor-Fag*

C: LBD *Sor-Fag*

Brachythecium albicans (Hedw.) Schimp.

Dg: TF KOE-COR, TFE *Ara tha*

C: TFE *Ara tha*

Brachythecium geheebii Milde

Dg: THC *Dia-Ses*

Brachythecium rivulare Schimp.

Dg: RA MON-CAR

C: RAC *Epi-Mon*

Brachythecium rutabulum (Hedw.) Schimp.

Dg: LA ALN GLU

Briza media L.

Dg: RBA *Car dav*, TE CAL-ULI, TEC *Vio can*, TH FES-BRO, THF *Bro ere*

C: RBA *Car dav*, RBB *Sph-Tom*, TDD *Mol cae*, TEC *Vio can*, THF *Bro ere*

Bromus erectus Huds.

Dg: TH FES-BRO, THF *Bro ere*

Dm: THF *Bro ere*

Bromus hordeaceus L.

Dg: XBL *Lol-Lin*

Bromus inermis Leyss.

Dg: XC ART VUL, XCC *Con-Ely*

Dm: XCC *Con-Ely*

Bromus sterilis L.

Dg: KD ROBINI, KDA *Che-Rob*, XBH *Sis off*

Dm: KD ROBINI, KDA *Che-Rob*, XBH *Sis off*

Bromus tectorum L.

Dg: XBH *Sis off*, XBJ *Sal rut*

C: XBH *Sis off*, XBJ *Sal rut*

Dm: XBH *Sis off*

Bryoerythrophyllum recurvirostrum (Huds.) P.C. Chen

Dg: SB CYM-PAR

Bryum argenteum Hedw.

Dg: MA ISO-JUN, MAB *Rad lin*

Bryum bicolor Dicks.

Dg: AE SAL HER, AEA *Sal her*

Bryum caespiticium Hedw.

Dg: SB CYM-PAR, TI VIO CAL, TIA *Arm hal*

Bryum capillare s. l.

Dg: SB CYM-PAR

Bryum pseudotriquetrum (Hedw.) P. Gaertn.

Dg: RAB *Lyc-Cra*, RB SCH-CAR, RBA *Car dav*, RBB *Sph-Tom*

C: RAB *Lyc-Cra*, RBA *Car dav*

Bryum schleicheri Schwägr.

Dg: RAD *Swe-Dic*

C: RAD *Swe-Dic*

Buckiella undulata (Hedw.) Ireland

Dg: LFC *Pic abi*

Bucklandiella microcarpa (Hedw.) Bednarek-Ochyra & Ochyra

Dg: ADC *Sal sil*

Bupleurum falcatum L.

Dg: ADF *Cal var*, LE ERI-PIN, LEA *Pul-Pin*, THB *Bro-Fes*

C: LE ERI-PIN, LEA *Pul-Pin*, THB *Bro-Fes*

Bupleurum longifolium L.

Dg: LE ERI-PIN, LEA *Pul-Pin*

Bupleurum ranunculoides L.

Dg: AC ELY-SES, ACA *Ses tat*

Butomus umbellatus L.

Dm: MCC *Ele-Sag*

Cakile maritima Scop.

Dg: DAB *Agr-Min*, DB *CAK MAR*, DBA *Atr lit*

C: DB *CAK MAR*, DBA *Atr lit*

Dm: DB *CAK MAR*, DBA *Atr lit*

Calamagrostis arundinacea (L.) Roth

Dg: ADB *Cal aru*, LC *QUE PUB*, LCC *Que pet*, LD *QUE ROB*

C: ADB *Cal aru*, LC *QUE PUB*, LCC *Que pet*, LDA *Gen-Que*

Dm: AD *MUL-ACO*, ADB *Cal aru*, LDA *Gen-Que*

Calamagrostis canescens (Weber) Roth

Dg: LA *ALN GLU*, LAA *Aln glu*, LAB *Sal cin*

C: LA *ALN GLU*, LAA *Aln glu*, LAB *Sal cin*

Dm: MCG *Car ela*

Calamagrostis epigejos (L.) Roth

Dg: XE *EPI ANG*

C: TEE *Eup-Cal*

Dm: KBC *Sam-Sal*, XBK *Era cil*, XC *ART VUL*, XCA *Ono aca*, XCB *Dau-Mel*

Calamagrostis pseudophragmites (Haller f.) Koller

Dg: KAB *Sal ela*

Calamagrostis varia (Schrad.) Host

Dg: ADF *Cal var*, LE *ERI-PIN*, LEA *Pul-Pin*, THB *Bro-Fes*

C: ADF *Cal var*, LE *ERI-PIN*, LEA *Pul-Pin*, THB *Bro-Fes*

Dm: AD *MUL-ACO*, ADF *Cal var*, LE *ERI-PIN*, LEA *Pul-Pin*

Calamagrostis villosa (Chaix) J. F. Gmel.

Dg: AD *MUL-ACO*, ADC *Sal sil*, ADE *Dry-Ath*, KC *ROS-PIN*, KCA *Pin mug*, LFC *Pic abi*

C: ADC *Sal sil*, ADE *Dry-Ath*, KC *ROS-PIN*, KCA *Pin mug*, LFC *Pic abi*

Dm: AD *MUL-ACO*, ADA *Cal vil*, LDB *Que rob*, LF *VAC-PIC*, LFC *Pic abi*

×*Calammophila baltica* (Flüggé ex Schrad.) Brand

Dg: DA *AMM ARE*, DAA *Amm are*, DAB *Agr-Min*, DB *CAK MAR*, DBA *Atr lit*

C: DAB *Agr-Min*, DB *CAK MAR*, DBA *Atr lit*

Calla palustris L.

Dg: LA *ALN GLU*, MCF *Car-Rum*

Dm: MCF *Car-Rum*

Calliergon cordifolium (Hedw.) Kindb.

Dg: LA *ALN GLU*, LAB *Sal cin*

Calliergonella cuspidata (Hedw.) Loeske

Dg: LA *ALN GLU*, RB *SCH-CAR*, RBA *Car dav*, RBB *Sph-Tom*

C: LA *ALN GLU*, LAB *Sal cin*, MCG *Car ela*, RAC *Epi-Mon*, RBA *Car dav*, RBB *Sph-Tom*

Dm: MCB *Mel-Bol*, MCG *Car ela*, MCH *Car gra*, RBA *Car dav*, RBC *Car can*

Callitriche hamulata Kütz. ex W.D.J. Koch

Dg: VBC *Bat flu*

C: VBC *Bat flu*

Callitriche palustris s. l.

Dg: VBC *Bat flu*, VBD *Ran aqu*, VD *LIT UNI*, VDB *Ele aci*

Dm: VBD *Ran aqu*

Calluna vulgaris (L.) Hull.

Dg: LF *VAC-PIC*, LFD *Vac-Pin*, RC *OXY-SPH*, RCB *Oxy-Eri*, RCC *Oxy-Emp*, TE *CAL-ULI*, TEE *Eup-Cal*

C: ABB *Nar-Car*, DAC *Jun bal*, LFB *Dic-Pin*, LFD *Vac-Pin*, RC *OXY-SPH*, RCB *Oxy-Eri*, RCC *Oxy-Emp*, TEE *Eup-Cal*, TEF *Gen-Vac*

Dm: DAC *Jun bal*, TE *CAL-ULI*, TEE *Eup-Cal*, TEF *Gen-Vac*

Caltha laeta Schott, Nyman & Kotschy

Dg: RA *MON-CAR*, RAD *Swe-Dic*

Caltha palustris L.

Dg: LA *ALN GLU*, LAA *Aln glu*

C: LAA *Aln glu*, RBA *Car dav*

Calyptogeia azurea Stotler & Crotz

Dg: LFC *Pic abi*

Calystegia sepium (L.) R. Br.

Dg: KA *SAL PUR*, KAA *Sal tri*, KAC *Sal alb*, XDA *Sen flu*

C: KA *SAL PUR*, KAA *Sal tri*, KAC *Sal alb*, XDA *Sen flu*

Dm: XDA *Sen flu*

Camelina microcarpa Andrz.

Dg: XBA *Caucal*

Campanula alpina Jacq.

Dg: AA *LOI-VAC*, AAA *Loi-Vac*, AB *JUN TRI*,
ABA *Jun tri*

C: ABA *Jun tri*

Campanula bohemica Hruby in Polivka, Domin
& Podp.

Dg: TEA *Nar str*

Campanula bononiensis L.

Dg: LCA *Que pub*

Campanula cochlearifolia Lam.

Dg: AC *ELY-SES*, ACA *Ses tat*

C: ACA *Ses tat*

Campanula glomerata L.

Dg: ADF *Cal var*, LC *QUE PUB*

Campanula latifolia L.

Dg: SB *CYM-PAR*

Campanula patula L.

Dg: TD *MOL-ARR*, TDA *Arr ela*, TDB *Pol-Tri*,
TE *CAL-ULI*, TEB *Nar-Agr*, TEC *Vio can*

C: TDA *Arr ela*, TDB *Pol-Tri*, TEB *Nar-Agr*

Campanula persicifolia L.

Dg: LBD *Sor-Fag*, LC *QUE PUB*, LCC *Que pet*

C: LBD *Sor-Fag*, LC *QUE PUB*, LCC *Que pet*

Campanula polymorpha Witasek

Dg: AA *LOI-VAC*, AAA *Loi-Vac*, AC *ELY-SES*,
ACA *Ses tat*, ACB *Car fir*, AE *SAL HER*, AEB
Fes pic, AF *CAR-KOB*, AFA *Fes ver*

C: AA *LOI-VAC*, AAA *Loi-Vac*, AC *ELY-SES*,
ACA *Ses tat*, ACB *Car fir*, AE *SAL HER*, AEB
Fes pic, AF *CAR-KOB*, AFA *Fes ver*

Campanula rapunculoides L.

Dg: LC *QUE PUB*, LE *ERI-PIN*, LEA *Pul-Pin*

Campanula rotundifolia (L.)

Dg: LE *ERI-PIN*, TI *VIO CAL*

Campanula serrata (Kit.) Hendrych

Dg: ADB *Cal aru*

Campanula sibirica L.

Dg: KBA *Pru fru*, LCA *Que pub*, SC *THL ROT*,
TH *FES-BRO*, THD *Fes val*, THE *Cir-Bra*

C: THD *Fes val*

Campanula trachelium L.

Dg: LBD *Sor-Fag*, LC *QUE PUB*

Campylium polygamum (Schimp.) Lange &
C.E.O. Jensen

Dg: VDC *Sph-Utr*

Campylium stellatum (Hedw.) Lange & C.E.O.
Jensen

Dg: RBA *Car dav*, RBB *Sph-Tom*

C: RBB *Sph-Tom*

Capsella bursa-pastoris (L.) Medik.

Dg: XA *POL-POĚ*, XB *STE MED*, XBB *Ver-*
Eup, XBE *Oxa fon*

C: XBB *Ver-Eup*, XBE *Oxa fon*

Cardamine amara L. subsp. *amara*

Dg: LA *ALN GLU*, LAA *Aln glu*, RA *MON-*
CAR, RAA *Car rem*,

C: RA *MON-CAR*, RAA *Car rem*

Dm: RA *MON-CAR*, RAA *Car rem*

Cardamine amara L. subsp. *opizii* (J. Presl & C.
Presl) Čelak.

Dg: RAD *Swe-Dic*

Cardamine flexuosa With.

Dg: RA *MON-CAR*

Cardamine trifolia L.

Dg: ADF *Cal var*

Cardaminopsis arenosa (L.) Hayek

Dg: AF *CAR-KOB*, AFA *Fes ver*, TI *VIO CAL*,
TIA *Arm hal*

C: AF *CAR-KOB*, AFA *Fes ver*, TI *VIO CAL*,
TIA *Arm hal*

Cardaminopsis halleri (L.) Hayek

Dg: TDB *Pol-Tri*, TEB *Nar-Agr*

C: TDB *Pol-Tri*

Carduus acanthoides L.

Dg: XCA *Ono aca*

Carduus collinus Waldst. & Kit.

Dg: ADF *Cal var*, LE *ERI-PIN*

Carduus glaucus Baumg.

Dg: AC *ELY-SES*, ACA *Ses tat*, ADF *Cal var*, LE *ERI-PIN*, LEA *Pul-Pin*

C: ACA *Ses tat*

Carduus personata (L.) Jacq.

Dg: XDF *Rum alp*

Carex acutiformis Ehrh.

Dg: LA *ALN GLU*, LAA *Aln glu*, MC *PHR-CAR*, MCH *Car gra*

C: LA *ALN GLU*, LAA *Aln glu*

Dm: LAA *Aln glu*, MC *PHR-CAR*, MCH *Car gra*

Carex alba Scop.

Dg: LE *ERI-PIN*, LEA *Pul-Pin*, THB *Bro-Fes*

Carex appropinquata Schumach.

Dg: LAB *Sal cin*, MCG *Car ela*

Dm: MCG *Car ela*

Carex arenaria L.

Dg: DA *AMM ARE*, DAC *Jun bal*, KBH *Sal are*, TFG *Koe alb*

C: DA *AMM ARE*, DAC *Jun bal*, KBH *Sal are*, TFG *Koe alb*

Carex atrata L.

Dg: AF *CAR-KOB*, AFA *Fes ver*

Carex bigelowii Torr. ex Schwein. subsp. *rigida* W. Schultze-Motel

Dg: ABB *Nar-Car*, AB *JUN TRI*

C: ABB *Nar-Car*

Carex brachystachys Schrank & K. Moll

Dg: AC *ELY-SES*, ACA *Ses tat*

Carex buekii Wimm.

Dg: MCD *Pha aru*

Carex canescens L.

Dg: RAC *Epi-Mon*, RB *SCH-CAR*

C: RAC *Epi-Mon*

Carex caryophyllea Latourr.

Dg: THF *Bro ere*, TI *VIO CAL*, TIA *Arm hal*

C: THF *Bro ere*, TI *VIO CAL*, TIA *Arm hal*

Carex davalliana Sm.

Dg: RB *SCH-CAR*, RBA *Car dav*

Dm: RBA *Car dav*

Carex diandra Schrank

Dg: RB *SCH-CAR*, RBB *Sph-Tom*

Dm: RBB *Sph-Tom*, RBC *Car can*

Carex digitata L.

Dg: ADF *Cal var*, LBD *Sor-Fag*, LC *QUE PUB*, LE *ERI-PIN*, LEA *Pul-Pin*

C: ADF *Cal var*, LBD *Sor-Fag*, LE *ERI-PIN*, LEA *Pul-Pin*

Carex dioica L.

Dg: RB *SCH-CAR*, RBB *Sph-Tom*

Carex distans L.

Dg: TC *FES-PUC*, TCB *Jun ger*

Carex disticha Huds.

Dg: TC *FES-PUC*, TCB *Jun ger*

Dm: MCH *Car gra*

Carex echinata Murray

Dg: RB *SCH-CAR*, RBA *Car dav*, RBB *Sph-Tom*

C: RBB *Sph-Tom*

Carex elata All.

Dg: LA *ALN GLU*, MCG *Car ela*

Dm: MCG *Car ela*

Carex elongata L.

Dg: LA *ALN GLU*, LAA *Aln glu*, LAB *Sal cin*

C: LA *ALN GLU*, LAA *Aln glu*

Carex ericetorum Pollich

Dg: TEE *Eup-Cal*

Carex firma Host

Dg: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*

C: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*

Dm: AC *ELY-SES*, ACB *Car fir*

Carex flacca Schreb.

Dg: LE *ERI-PIN*, LEA *Pul-Pin*, RBA *Car dav*

Carex flava agg.

Dg: RB SCH-CAR, RBA *Car dav*, RBB *Sph-Tom*
C: RBA *Car dav*, RBB *Sph-Tom*

Carex gracilis Curtis

Dg: MC PHR-CAR, MCH *Car gra*, TDJ *Ver-Lys*
C: MCH *Car gra*
Dm: MC PHR-CAR, MCH *Car gra*

Carex hartmanii Cajander

Dg: TDD *Mol cae*

Carex hirta L.

Dg: TI VIO CAL
C: TI VIO CAL, TIA *Arm hal*

Carex humilis Leyss.

Dg: THC *Dia-Ses*

Carex lasiocarpa Ehrh.

Dm: RBD *Sph-Car*

Carex lepidocarpa Tausch

Dg: RBA *Car dav*

Carex limosa L.

Dg: RB SCH-CAR, RBB *Sph-Tom*, RBE *Sph cus*
Dm: RBE *Sph cus*

Carex michelii Host

Dg: LCA *Que pub*

Carex montana L.

Dg: LC QUE PUB, LCC *Que pet*

Carex contigua s. l.

Dg: ADF *Cal var*, TC FES-PUC, TCB *Jun ger*

Carex nigra Reichard

Dg: RB SCH-CAR, RBC *Car can*
C: RAC *Epi-Mon*, RB SCH-CAR, RBA *Car dav*,
RBB *Sph-Tom*, RBC *Car can*, RBD *Sph-Car*,
TDG *Jun eff*, TED *Nar-Jun*
Dm: RBC *Car can*

Carex ornithopoda Willd.

Dg: LE ERI-PIN, LEA *Pul-Pin*, THB *Bro-Fes*

Carex ovalis Gooden.

Dg: TED *Nar-Jun*
C: RAC *Epi-Mon*

Carex pallescens L.

Dg: TE CAL-ULI

Carex panicea L.

Dg: RB SCH-CAR, RBA *Car dav*, RBB *Sph-Tom*,
TD MOL-ARR, TDD *Mol cae*
C: RBA *Car dav*, RBB *Sph-Tom*, TDD *Mol cae*

Carex paniculata L.

Dg: LA ALN GLU
Dm: MCF *Car-Rum*, MCH *Car gra*

Carex pilulifera L.

Dg: LD QUE ROB, TE CAL-ULI, TEB *Nar-Agr*,
TEF *Gen-Vac*
C: TEB *Nar-Agr*, TEF *Gen-Vac*

Carex praecox Schreb.

Dg: LCA *Que pub*

Carex pseudocyperus L.

Dg: LA ALN GLU, LAB *Sal cin*, MCF *Car-Rum*
C: MCF *Car-Rum*

Carex remota L.

Dg: RA MON-CAR, RAA *Car rem*
C: RAA *Car rem*
Dm: RA MON-CAR, RAA *Car rem*

Carex riparia Curtis

Dm: MCH *Car gra*

Carex rostrata Stokes

Dg: RB SCH-CAR, RBB *Sph-Tom*, RBC *Car can*,
RBE *Sph cus*
C: MCG *Car ela*, RB SCH-CAR, RBB *Sph-Tom*,
RBC *Car can*, RBD *Sph-Car*, RBE *Sph cus*
Dm: MCG *Car ela*, RB SCH-CAR, RBD *Sph-Car*

Carex secalina Wahlenb.

Dg: TC FES-PUC, TCB *Jun ger*

Carex sempervirens Vill.

Dg: AA LOI-VAC, ABA *Jun tri*, AC ELY-SES,
ACA *Ses tat*, ACB *Car fir*
C: ABA *Jun tri*, AC ELY-SES, ACA *Ses tat*, ACB
Car fir

Carex supina Wahlenb.

Dg: THC *Dia-Ses*

Carex sylvatica Huds.

Dg: LB CAR-FAG, LBC *Fag syl*, RA MON-CAR

Carex vesicaria L.

Dg: LA ALN-GLU

Dm: MCH *Car gra*

Carlina acaulis L.

Dg: AC ELY-SES, ACA *Ses tat*, ADB *Cal aru*,
TE CAL-ULI, TEB *Nar-Agr*, THF *Bro ere*

C: ADB *Cal aru*, THF *Bro ere*

Carlina vulgaris L.

Dg: LE ERI-PIN, LEA *Pul-Pin*, TI VIO CAL

C: LE ERI-PIN, LEA *Pul-Pin*

Carpinus betulus L.

Dg: LB CAR-FAG, LBB *Car bet*, LBF *Til-Ace*,
LC QUE PUB, LD QUE ROB

C: LBB *Car bet*, LBF *Til-Ace*, LCC *Que pet*

Dm: LB CAR-FAG, LBA *Aln inc*, LBB *Car bet*,
LBC *Fag syl*, LBF *Til-Ace*

Centaurea cyanus L.

Dg: XB STE MED, XBA *Caucal*, XBC *Scl ann*,
XBD *Arn min*, XBL *Lol-Lin*

C: XB STE MED, XBA *Caucal*, XBC *Scl ann*,
XBD *Arn min*, XBL *Lol-Lin*

Centaurea jacea s. l.

Dg: TD MOL-ARR, TDD *Mol cae*

C: TDD *Mol cae*

Centaurea pannonica (Heuff.) Hayek

Dg: LCA *Que pub*, THE *Cir-Bra*

Centaurea scabiosa L.

Dg: TH FES-BRO, THF *Bro ere*, THH *Ger san*

C: THF *Bro ere*, THH *Ger san*

Centaurea stoebe L.

Dg: TF KOE-COR, TFF *Aly-Sed*, TFH *Koe gla*,
TH FES-BRO, THD *Fes val*, THG *Koe-Phl*

C: TFF *Aly-Sed*, TFH *Koe gla*, THD *Fes val*,
THG *Koe-Phl*

Centaurea triumfetti All.

Dg: THB *Bro-Fes*, THC *Dia-Ses*

Centaureum pulchellum (Sw.) Druce

Dg: TC FES-PUC

Centunculus minimus L.

Dg: MA ISO-JUN, MAB *Rad lin*

Cephalanthera damasonium (Mill.) Druce

Dg: LBD *Sor-Fag*

C: LBD *Sor-Fag*

Cephalanthera longifolia (L.) Fritsch

Dg: LC QUE PUB, LCC *Que pet*

Cephalanthera rubra (L.) Rich.

Dg: LBD *Sor-Fag*

Cephalozia bicuspidata (L.) Dumort

Dg: DAC *Jun bal*

Cephalozia connivens (Dicks.) Lindb.

Dg: DAC *Jun bal*

Cephaloziella divaricata (Sm.) Schiffn.

Dg: DA AMM ARE, DAA *Amm are*

Ceramium diaphanum (Lightf.) Roth

Dg: VE ZOS MAR, VEA *Zos mar*

C: VE ZOS MAR, VEA *Zos mar*

Ceramium rubrum C. Agardh

Dg: VCC *Cha can*

Ceramium strictum Harv.

Dg: VE ZOS MAR, VEA *Zos mar*

Cerastium alpinum L.

Dg: AC ELY-SES, ACB *Car fir*, AF CAR-KOB,
AFA *Fes ver*

Cerastium cerastoides (L.) Britton

Dg: AE SAL HER, AEA *Sal her*

Cerastium glomeratum Thuill.

Dg: MAC *Ver sup*

Cerastium holosteoides Fr. emend. Hyl.

Dg: TD MOL-ARR

C: TDC *Cyn cri*, TDH *Alo pra*, TFG *Koe alb*

Cerastium semidecandrum L.

Dg: TF KOE-COR, TFE *Ara tha*, TFH *Koe gla*

C: TFE *Ara tha*, TFH *Koe gla*

Cerasus fruticosa Pall.

Dg: KB RHA-PRU, KBA Pru fru

C: KBA Pru fru

Dm: KBA Pru fru

Cerasus vulgaris Mill.

Dg: LC QUE PUB

Ceratodon purpureus (Hedw.) Brid.

Dg: TF KOE-COR, TFE Ara tha

C: TFA Cor can, TFE Ara tha, TFG Koe alb, TFH Koe gla

Dm: TFH Koe gla, XBH Sis off

Ceratophyllum demersum L.

Dg: VA LEMNET, VAC Hyd mor, VB POTAME, VBA Nym alb, VBB Potami

C: VAC Hyd mor, VBA Nym alb

Dm: VA LEMNET, VAC Hyd mor

Cerintho minor L.

Dg: SC THL ROT

Cetraria aculeata (Schreb.) Ach.

Dg: TF KOE-COR, TFA Cor can, TFH Koe gla, TI VIO CAL, TIA Arm hal

Cetraria islandica (L.) Ach.

Dg: AA LOI-VAC, AAA Loi-Vac, AB JUN TRI, ABA Jun tri, AF CAR-KOB, AFA Fes ver

C: AA LOI-VAC, AAA Loi-Vac, AB JUN TRI, ABA Jun tri, AF CAR-KOB, AFA Fes ver

Dm: AB JUN TRI, ABA Jun tri, AF CAR-KOB, AFA Fes ver

Cetraria muricata (Ach.) Eckfeldt

Dg: RCB Oxy-Eri

Chaerophyllum hirsutum L.

Dg: ADG Tri fus, RA MON-CAR, RAB Lyc-Cra, XDF Rum alp

C: ADG Tri fus, RAB Lyc-Cra, XDF Rum alp

Dm: ADD Ade all, AE SAL HER, AEB Fes pic, RAB Lyc-Cra

Chaerophyllum temulum L.

Dg: KD ROBINI, KDA Che-Rob, XDD Geo-All

C: XDD Geo-All

Chamaenerion angustifolium (L.) Scop.

Dg: KC ROS-PIN, LE ERI-PIN, XE EPI ANG

Chamomilla recutita (L.) Rauschert

Dg: XB STE MED

Chamomilla suaveolens (Pursh) Rydb.

Dg: XA POL-POË, XAA Cor-Pol, XAB Sag pro, XBI Mal neg

Chamorchis alpina (L.) Rich.

Dg: AC ELY-SES, ACB Car fir

C: ACB Car fir

Chara aculeolata Kütz.

Dg: VC CHARET, VCA Nit fle

Chara aspera Willd.

Dg: VCC Cha can

Chara baltica Bruz.

Dg: VCC Cha can

Chara canescens J.L.A. Loiseleur-Deslong

Dg: VCC Cha can

Chara contraria Braun ex Kütz.

Dg: VC CHARET, VCB Cha glo

Chara coronata J.B. Ziz ex H.W. Bisch.

Dg: VC CHARET, VCB Cha glo

Dm: VC CHARET, VCB Cha glo

Chara crassicaulis Schleich.

Dg: VC CHARET, VCB Cha glo

Dm: VC CHARET, VCB Cha glo

Chara delicatula Desv.

Dg: VC CHARET, VCA Nit fle, VCC Cha can

Dm: VCA Nit fle

Chara fragilis Desv.

Dg: VC CHARET, VCA Nit fle, VCB Cha glo

C: VCA Nit fle

Dm: VC CHARET, VCB Cha glo

Chara hispida L.

Dg: VC CHARET

Dm: VC CHARET, VCB Cha glo

Chara jubata Braun ex Kütz.

Dg: VC CHARET, VCB Cha glo

Chara polyacantha Braun
Dg: MCB *Mel-Bol*
Dm: VC CHARET, VCB *Cha glo*

Chara rudis (Braun) Leonh.
Dg: VC CHARET, VCB *Cha glo*
Dm: VC CHARET, VCB *Cha glo*

Chara tenuispina A.Braun
Dg: VC CHARET, VCB *Cha glo*

Chara tomentosa L.
Dg: VC CHARET, VCB *Cha glo*
Dm: VC CHARET, VCB *Cha glo*

Chara vulgaris L.
Dg: VC CHARET, VCA *Nit fle*
Dm: VCA *Nit fle*

Chelidonium majus L.
Dg: KD ROBINI, KDA *Che-Rob*, SB CYM-PAR
C: KD ROBINI, KDA *Che-Rob*
Dm: KD ROBINI, KDA *Che-Rob*

Chenopodium album agg.
Dg: XB STE MED, XBB *Ver-Eup*, XBE *Oxa fon*,
XBF *Spe-Ero*, XBG *Atrpli*, XBL *Lol-Lin*
C: XB STE MED, XBA *Caucal*, XBB *Ver-Eup*,
XBC *Scl ann*, XBE *Oxa fon*, XBF *Spe-Ero*, XBG
Atrpli, XBK *Era cil*, XBL *Lol-Lin*
Dm: XBG *Atrpli*

Chenopodium bonus-henricus L.
Dg: XCE *Arc lap*

Chenopodium glaucum L.
Dg: MB BID TRI, MBB *Che rub*
C: MBB *Che rub*
Dm: MB BID TRI, MBB *Che rub*

Chenopodium murale L.
Dg: XBI *Mal neg*

Chenopodium polyspermum L.
Dg: XBE *Oxa fon*

Chenopodium rubrum L.
Dg: MB BID TRI, MBB *Che rub*
C: MBB *Che rub*
Dm: MBB *Che rub*

Chenopodium vulvaria L.
Dg: XBI *Mal neg*

Chimaphila umbellata (L.) W.P.C. Barton
Dg: LF VAC-PIC, LFB *Dic-Pin*

Chondrilla juncea L.
Dg: TFH *Koe gla*

Chorda filum (L.) Stackh.
Dg: VE ZOS MAR, VEA *Zos mar*

Chrysosplenium alternifolium L.
Dg: RA MON-CAR, RAA *Car rem*
C: RA MON-CAR, RAA *Car rem*

Chrysosplenium oppositifolium L.
Dg: RA MON-CAR, RAA *Car rem*
Dm: RA MON-CAR, RAA *Car rem*

Cicerbita alpina (L.) Wallr.
Dg: AD MUL-ACO, ADC *Sal sil*, ADD *Ade all*,
ADE *Dry-Ath*
C: ADD *Ade all*
Dm: AD MUL-ACO, ADD *Ade all*

Cicuta virosa L.
Dg: MCF *Car-Rum*

Circaea lutetiana L.
Dg: LBA *Aln inc*, RA MON-CAR

Cirsium acaule Scop.
Dg: THE *Cir-Bra*

Cirsium arvense (L.) Scop.
Dg: XB STE MED, XBB *Ver-Eup*, XC ART VUL
C: KAB *Sal ela*, MCD *Pha aru*, XB STE MED,
XBA *Caucal*, XBB *Ver-Eup*, XBC *Scl ann*, XBE
Oxa fon, XBF *Spe-Ero*, XBL *Lol-Lin*, XC ART
VUL, XCB *Dau-Mel*, XCE *Arc lap*

Cirsium erisithales (Jacq.) Scop.
Dg: ADF *Cal var*

Cirsium oleraceum (L.) Scop.
Dg: LA ALN GLU

Cirsium palustre (L.) Scop.
Dg: LA ALN GLU, RB SCH-CAR
C: TDG *Jun eff*

Cirsium rivulare (Jacq.) All.

Dg: RAB *Lyc-Cra*, RB *SCH-CAR*, RBA *Car dav*,
RBB *Sph-Tom*, TD *MOL-ARR*, TDF *Cal pal*
C: RBA *Car dav*

Cirsium waldsteinii Rouy

Dg: ADB *Cal aru*

Cladium mariscus (L.) Pohl

Dg: MCG *Car ela*
Dm: MCG *Car ela*

Cladonia arbuscula s. l.

Dg: TF *KOE-COR*, TFA *Cor can*

Cladonia bellidiflora (Ach.) Schaer.

Dg: AA *LOI-VAC*, AAA *Loi-Vac*

Cladonia cervicornis (Ach.) Flot. subsp. *verticilata* (Hoffm.) Ahti

Dg: TF *KOE-COR*, TFA *Cor can*

Cladonia chlorophaea (Flörke ex Sommerf.) Spreng.

Dg: DA *AMM ARE*, DAA *Amm are*, TFG *Koe alb*, TFH *Koe gla*

Cladonia fimbriata (L.) Fr.

Dg: TF *KOE-COR*, TFG *Koe alb*

Cladonia foliacea (Huds.) Schrad.

Dg: TI *VIO CAL*, TIA *Arm hal*
C: TI *VIO CAL*, TIA *Arm hal*

Cladonia furcata (Huds.) Schrad.

Dg: TI *VIO CAL*, TIA *Arm hal*
C: TI *VIO CAL*, TIA *Arm hal*

Cladonia glauca Flörke

Dg: TI *VIO CAL*, TIA *Arm hal*
C: TI *VIO CAL*, TIA *Arm hal*

Cladonia grayi Merrill ex Sandst.

Dg: ABA *Jun tri*

Cladonia macilenta s. l.

Dg: DA *AMM ARE*, DAA *Amm are*

Cladonia pleurota s. l.

Dg: DA *AMM ARE*, DAA *Amm are*

Cladonia pocillum (Ach.) O.J. Rich

Dg: TI *VIO CAL*, TIA *Arm hal*
C: TI *VIO CAL*, TIA *Arm hal*

Cladonia portentosa (Dufour) Coem.

Dg: DA *AMM ARE*, DAA *Amm are*

Cladonia pyxidata (L.) Hoffm.

Dg: TFH *Koe gla*, TI *VIO CAL*, TIA *Arm hal*
C: TI *VIO CAL*, TIA *Arm hal*

Cladonia rangiferina (L.) Weber ex F.H. Wigg.

Dg: AB *JUN TRI*, ABA *Jun tri*
C: ABA *Jun tri*

Cladonia scabriuscula (Delise) Nyl.

Dg: DA *AMM ARE*, DAA *Amm are*, TFG *Koe alb*

Cladonia stellaris (Opiz) Pouzar & Vězda

Dg: AB *JUN TRI*, ABB *Nar-Car*

Cladonia subrangiformis Sandst.

Dg: TFH *Koe gla*

Cladonia subulata (L.) Weber ex F.H. Wigg.

Dg: TI *VIO CAL*

Cladonia uncialis (L.) F.H. Wigg.

Dg: TF *KOE-COR*, TFA *Cor can*

Cladophora fracta (Müll. ex Vahl) Kütz.

Dg: VCC *Cha can*

Cladophora glaucescens (Griffith. ex Harv.) Harv.

Dg: VE *ZOS MAR*, VEA *Zos mar*

Cladophora gracilis (Griffith.) Kütz.

Dg: VE *ZOS MAR*, VEA *Zos mar*

Cladophora rupestris (L.) Kütz.

Dg: VE *ZOS MAR*, VEA *Zos mar*

Cladophora sericea (Huds.) Kütz.

Dg: VE *ZOS MAR*, VEA *Zos mar*

Clematis alpina (L.) Mill.

Dg: ADF *Cal var*, LE *ERI-PIN*, LEA *Pul-Pin*

Clematis vitalba L.

Dg: KD ROBINI, KDA Che-Rob

Climacium dendroides (Hedw.) F. Weber & D. Mohr

Dg: LA ALN GLU, RBB Sph-Tom

C: RBB Sph-Tom

Dm: RAB Lyc-Cra

Clinopodium vulgare L.

Dg: ADF Cal var, LC QUE PUB, LCA Que pub, LE ERI-PIN, THB Bro-Fes

C: ADF Cal var, LCA Que pub, THB Bro-Fes

Cnidium dubium (Schkuhr) Thell.

Dg: TDI Cni ven

C: TDI Cni ven

Collema tenax (Sw.) Ach. emend. Degel.

Dg: TFH Koe gla

Comarum palustre L.

Dg: LA ALN GLU, LAB Sal cin, RB SCH-CAR, RBD Sph-Car, VDC Sph-Utr

C: LAB Sal cin, MCG Car ela, RBD Sph-Car, VDC Sph-Utr

Consolida regalis Gray

Dg: XB STE MED, XBA Caucal

C: XBA Caucal

Convallaria majalis L.

Dg: LBD Sor-Fag, LC QUE PUB, LCC Que pet, LD QUE ROB, LDA Gen-Que

C: LBD Sor-Fag, LC QUE PUB, LCC Que pet, LD QUE ROB, LDA Gen-Que

Convolvulus arvensis L.

Dg: XB STE MED, XBA Caucal, XBL Lol-Lin, XCART VUL, XCC Con-Ely

C: XBA Caucal, XBB Ver-Eup, XBK Era cil, XBL Lol-Lin, XCC Con-Ely

Conyza canadensis (L.) Cronquist

Dg: XBJ Sal rut, XBK Era cil

C: XBJ Sal rut, XBK Era cil

Corallorhiza trifida Châtel.

Dg: LBD Sor-Fag

Corispermum hyssopifolium L.

Dg: XBJ Sal rut

Corispermum leptopterum (Asch.) Iljin

Dg: XBJ Sal rut

Cornus sanguinea L.

Dg: LC QUE PUB, THB Bro-Fes

C: LBD Sor-Fag, THB Bro-Fes

Coronilla varia L.

Dg: LE ERI-PIN, TH FES-BRO, THB Bro-Fes

C: ADF Cal var, LCA Que pub, LE ERI-PIN, LEA Pul-Pin, THB Bro-Fes, THC Dia-Ses, THF Bro ere, THH Ger san

Corylus avellana L.

Dg: LE ERI-PIN

C: LBB Car bet, LBF Til-Ace, LE ERI-PIN, LEA Pul-Pin

Dm: KB RHA-PRU, KBC Sam-Sal, LBB Car bet, XDC Imp-Sta

Corynephorus canescens (L.) P. Beauv

Dg: DA AMM ARE, DAA Amm are, DAC Jun bal, TF KOE-COR, TFA Cor can, TFG Koe alb, XBJ Sal rut

C: DA AMM ARE, DAA Amm are, DAC Jun bal, TF KOE-COR, TFA Cor can, TFG Koe alb, XBJ Sal rut

Dm: TFA Cor can

Cotoneaster integerrimus Medik.

Dg: THB Bro-Fes, THC Dia-Ses

C: THB Bro-Fes

Cotoneaster niger (Thunb.) Fr.

Dg: THB Bro-Fes

Crataegus laevigata (Poir.) DC.

Dg: LCA Que pub

Crataegus monogyna s. l.

Dg: KBB Ber vul, LC QUE PUB, LCA Que pub

Dm: KBB Ber vul

Crataegus xmacrocarpa Hegetschw.

Dg: LBD Sor-Fag

Cratoneuron filicinum (Hedw.) Spruce

Dg: RAB Lyc-Cra

Crepis biennis L.
Dg: KAB *Sal ela*

Crepis conyzifolia (Gouan) Dalla Torre
Dg: ADB *Cal aru*

Crepis jacquinii Tausch
Dg: AC ELY-SES, ACA *Ses tat*
C: AC ELY-SES, ACA *Ses tat*

Crepis mollis (Jacq.) Asch.
Dg: TDB *Pol-Tri*, TEB *Nar-Agr*

Crepis paludosa (L.) Moench
Dg: RA *MON-CAR*, RBA *Car dav*, RBB *Sph-Tom*
C: RBA *Car dav*, RBB *Sph-Tom*

Crepis tectorum L.
Dg: XBL *Lol-Lin*

Cruciata glabra (L.) Ehrend.
Dg: ADF *Cal var*, KAB *Sal ela*, LE *ERI-PIN*,
LEA *Pul-Pin*, TEB *Nar-Agr*
C: ADF *Cal var*, LE *ERI-PIN*, LEA *Pul-Pin*,
TEB *Nar-Agr*

Ctenidium molluscum (Hedw.) Mitt.
Dg: THC *Dia-Ses*

Cucubalus baccifer L.
Dg: KA *SAL PUR*, KAA *Sal tri*

Cymbalaria muralis P. Gaertn., B. Mey. &
Scherb.
Dg: SB *CYM-PAR*, SBA *Cym-Asp*
C: SB *CYM-PAR*, SBA *Cym-Asp*

Cynosurus cristatus L.
Dg: TD *MOL-ARR*, TDC *Cyn cri*

Cyperus flavescens L.
Dg: MAC *Ver sup*

Cyperus fuscus L.
Dg: MA *ISO-JUN*, MAA *Ele ova*
C: MA *ISO-JUN*, MAA *Ele ova*
Dm: MA *ISO-JUN*, MAA *Ele ova*

Cypripedium calceolus L.
Dg: LCA *Que pub*

Cystopteris fragilis (L.) Bernh.
Dg: SA *ASP TRI*, SAA *Cystop*, SB *CYM-PAR*
C: SAA *Cystop*

Dactylis glomerata L.
C: KAB *Sal ela*, LCA *Que pub*, TDA *Arr ela*,
TDB *Pol-Tri*, TDC *Cyn cri*, THI *Tri med*, XDE
Aeg pod, XDF *Rum alp*

Dactylis polygama Horv.
Dg: LBB *Car bet*

Dactylorhiza majalis s. l.
Dg: RB *SCH-CAR*, RBA *Car dav*, RBB *Sph-Tom*
C: RBA *Car dav*

Danthonia decumbens DC.
Dg: TE *CAL-ULI*, TEC *Vio can*
C: TEC *Vio can*

Daphne mezereum L.
Dg: LBD *Sor-Fag*, LE *ERI-PIN*
C: LBD *Sor-Fag*

Datura stramonium L.
Dm: XBI *Mal neg*

Dendranthema zawadskii (Herbich) Tzvelev
Dg: THB *Bro-Fes*, THC *Dia-Ses*

Dentaria bulbifera L.
Dg: LB *CAR-FAG*, LBC *Fag syl*, LBF *Til-Ace*

Dentaria glandulosa Waldst. & Kit.
Dg: LBC *Fag syl*

Deschampsia caespitosa (L.) P. Beauv.
Dg: AE *SAL HER*, LA *ALN GLU*, TD *MOL-ARR*

C: ABB *Nar-Car*, ADA *Cal vil*, ADG *Tri fus*, AE
SAL HER, AEA *Sal her*, AEB *Fes pic*, LA *ALN GLU*,
LAA *Aln glu*, LBA *Aln inc*, RAB *Lyc-Cra*,
RAC *Epi-Mon*, RAD *Swe-Dic*, TD *MOL-ARR*,
TDB *Pol-Tri*, TDD *Mol cae*, TDI *Cni ven*, TDF
Cal pal, TDG *Jun eff*, TDH *Alo pra*, XDF *Rum alp*
Dm: AD *MUL-ACO*, ADA *Cal vil*, ADG *Tri fus*,
KAA *Sal tri*, TDB *Pol-Tri*, TDG *Jun eff*, TDH *Alo pra*,
XDF *Rum alp*, XE *EPI ANG*, XEA *Epi ang*

Deschampsia flexuosa (L.) Trin.

Dg: AA LOI-VAC, AAA *Loi-Vac*, AB JUN TRI, ABB *Nar-Car*, AE SAL HER, AEA *Sal her*, KC ROS-PIN, KCA *Pin mug*

C: AA LOI-VAC, AAA *Loi-Vac*, AB JUN TRI, ABA *Jun tri*, ABB *Nar-Car*, ADC *Sal sil*, AE SAL HER, AEA *Sal her*, AEB *Fes pic*, KBH *Sal are*, KC ROS-PIN, KCA *Pin mug*, LFC *Pic abi*, TEA *Nar str*, TEF *Gen-Vac*

Dm: AA LOI-VAC, AAA *Loi-Vac*, AB JUN TRI, ABB *Nar-Car*, AE SAL HER, AEB *Fes pic*, TEF *Gen-Vac*

Descurainia sophia (L.) Webb ex Prantl

Dg: XBI *Mal neg*, XCA *Ono aca*

Dianthus carthusianorum L.

Dg: TH FES-BRO, THC *Dia-Ses*, THD *Fes val*, THG *Koe-Phl*, TI VIO CAL, TIA *Arm hal*

C: THC *Dia-Ses*, THD *Fes val*, THG *Koe-Phl*, TI VIO CAL, TIA *Arm hal*

Dianthus compactus Kit.

Dg: ADB *Cal aru*

Dianthus deltoides L.

Dg: TE CAL-ULL, TEC *Vio can*, TFC *Arm elo*

Dianthus plumarius L.

Dg: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*

C: ACB *Car fir*

Dianthus superbus L.

Dg: AEB *Fes pic*, AF CAR-KOB, AFA *Fes ver*

C: AF CAR-KOB, AFA *Fes ver*

Dichostylis micheliana (L.) Nees

Dg: MAA *Ele ova*

Dicranella rufescens (Dicks.) Schimp

Dg: MA ISO-JUN, MAB *Rad lin*

Dicranella varia (Hedw.) Schimp

Dg: TFG *Koe alb*

Dicranum bonjeanii De Not.

Dg: RBB *Sph-Tom*

Dicranum polysetum Sw. ex anon

Dg: LF VAC-PIC, LFD *Vac-Pin*, THJ *Mel pra*, LFB *Dic-Pin*

C: LFB *Dic-Pin*

Dictyosiphon hippuroides (Lyn.) Kütz.

Dg: VE ZOS MAR, VEA *Zos mar*

Didymodon acutus (Brid.) K. Saito

Dg: SC THL ROT

Didymodon fallax (Hedw.) R.H. Zander

Dg: TFG *Koe alb*

Digitalis grandiflora Mill.

Dg: ADF *Cal var*, LC QUE PUB, LCC *Que pet*, LE ERI-PIN, LEA *Pul-Pin*, THB *Bro-Fes*

C: ADF *Cal var*, LCC *Que pet*, THB *Bro-Fes*

Digitalis purpurea L.

Dg: XE EPI ANG, XEA *Epi ang*

Digitaria ischaemum (Schreb.) H.L. Mühl.

Dg: XBF *Spe-Ero*, XBK *Era cil*

Digitaria sanguinalis (L.) Scop.

Dg: XBK *Era cil*

Diobelonella palustris (Dicks.) Ochyra

Dg: RAD *Swe-Dic*

Dm: RAD *Swe-Dic*

Diphasiastrum alpinum (L.) Holub

Dg: AA LOI-VAC, AAA *Loi-Vac*

Diploschistes muscorum (Scop.) R. Sant.

Dg: TI VIO CAL, TIA *Arm hal*

C: TI VIO CAL, TIA *Arm hal*

Distichium capillaceum (Hedw.) Bruch & Schimp

Dg: AF CAR-KOB, AFA *Fes ver*

Ditrichum flexicaule (Schwägr.) Hampe

Dg: AC ELY-SES

Ditrichum heteromallum (Hedw.) E. Britton

Dg: AE SAL HER, AEA *Sal her*

Doronicum austriacum Jacq.

Dg: AD MUL-ACO, ADD *Ade all*, ADE *Dry-Ath*, AE SAL HER

C: ADD *Ade all*

Dm: ADD *Ade all*, ADE *Dry-Ath*, XDF *Rum alp*

Doronicum clusii (All.) Tausch

Dg: AA *LOI-VAC*, ABA *Jun tri*

Draba aizoides L.

Dg: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*

Drosera anglica Huds.

Dg: DAC *Jun bal*

Drosera intermedia Hayne

Dg: VDC *Sph-Utr*

Drosera rotundifolia L.

Dg: RB *SCH-CAR*, RBB *Sph-Tom*, RBE *Sph cus*, RC *OXY-SPH*, RCA *Sph mag*, RCB *Oxy-Eri*, RCC *Oxy-Emp*

C: RBB *Sph-Tom*, RBE *Sph cus*, RC *OXY-SPH*, RCA *Sph mag*, RCB *Oxy-Eri*, RCC *Oxy-Emp*

Dryas octopetala L.

Dg: AC *ELY-SES*, ACB *Car fir*

C: AC *ELY-SES*, ACB *Car fir*

Dm: AC *ELY-SES*, ACB *Car fir*

Dryopteris cristata (L.) A. Gray

Dg: LA *ALN GLU*, LAB *Sal cin*

Dryopteris carthusiana s. l.

Dg: ADC *Sal sil*, KC *ROS-PIN*, KCA *Pin mug*, LA *ALN GLU*, LAA *Aln glu*, LBE *Luz-Fag*, LFC *Pic abi*

C: ADC *Sal sil*, KC *ROS-PIN*, KCA *Pin mug*, LA *ALN GLU*, LAA *Aln glu*, LBE *Luz-Fag*, LDB *Que rob*, LFC *Pic abi*

Dryopteris filix-mas s. l.

Dg: LB *CAR-FAG*, LBC *Fag syl*, LBF *Til-Ace*, SA *ASP TRI*

C: LBC *Fag syl*, LBF *Til-Ace*

Echinochloa crus-galli (L.) P. Beauv.

Dg: MB *BID TRI*, XB *STE MED*, XBE *Oxa fon*, XBF *Spe-Ero*

C: XBE *Oxa fon*, XBF *Spe-Ero*

Echium vulgare L.

Dg: SC *THL ROT*, TFF *Aly-Sed*

Ectocarpus siliculosus (Dillw.) Lyn.

Dg: VCC *Cha can*, VE *ZOS MAR*, VEA *Zos mar*

Dm: VE *ZOS MAR*, VEA *Zos mar*

Elachista fucicola (Vall.) Aresch.

Dg: VE *ZOS MAR*, VEA *Zos mar*

Elatine hexandra (Lapierre) DC.

Dg: VD *LIT UNI*, VDB *Ele aci*

Elatine hydropiper L. emend. Oeder

Dg: MAA *Ele ova*, VDB *Ele aci*

Eleocharis acicularis (L.) Roem. & Schult.

Dg: MA *ISO-JUN*, MAA *Ele ova*, VD *LIT UNI*, VDB *Ele aci*

C: VDB *Ele aci*

Dm: VD *LIT UNI*, VDB *Ele aci*

Eleocharis ovata (Roth) Roem. & Schult.

Dg: MA *ISO-JUN*, MAA *Ele ova*, VD *LIT UNI*, VDB *Ele aci*

Eleocharis palustris agg.

Dg: TC *FES-PUC*, TCB *Jun ger*, MCB *Mel-Bol*, VDA *Lit uni*

C: MCB *Mel-Bol*, TCB *Jun ger*, VDA *Lit uni*

Dm: MCC *Ele-Sag*

Eleocharis quinqueflora (Hartmann) O. Schwarz

Dg: RBA *Car dav*

Elodea canadensis Michx.

Dg: VA *LEMNET*, VB *POTAME*, VBB *Potami*, VBC *Bat flu*

Dm: VB *POTAME*, VBB *Potami*

Elymus caninus (L.) L.

Dg: KA *SAL PUR*, KAB *Sal ela*

C: KAB *Sal ela*

Elymus farctus (Viv.) Runemark ex Melderis

Dg: DAB *Agr-Min*, DB *CAK MAR*

C: DAB *Agr-Min*

Elymus repens (L.) Gould

Dg: XB *STE MED*, XC *ART VUL*

C: XB *STE MED*, XBA *Caucal*, XBB *Ver-Eup*, XBC *Scl ann*, XBE *Oxa fon*, XBF *Spe-Ero*, XBG *Atrpli*, XBL *Lol-Lin*, XC *ART VUL*, XCC *Con-Ely*, XCE *Arc lap*

Dm: XCART VUL, XCC Con-Ely

Empetrum nigrum s. l.

Dg: AA LOI-VAC, DA AMM ARE, DAC Jun bal
C: DAC Jun bal

Encalypta streptocarpa Hedw.

Dg: THA Aly-Fes, THC Dia-Ses

Enteromorpha compressa (L.) Nees

Dg: VE ZOS MAR, VEA Zos mar

Enteromorpha crinita Nees

Dg: VE ZOS MAR, VEA Zos mar

Enteromorpha intestinalis (L.) Nees

Dg: VE ZOS MAR, VEA Zos mar

Enteromorpha lingulata Agardh.

Dg: VE ZOS MAR, VEA Zos mar

Enteromorpha linza (L.) Agardh.

Dg: VE ZOS MAR, VEA Zos mar

Enteromorpha spp.

Dg: VE ZOS MAR, VEA Zos mar

Dm: VE ZOS MAR, VEA Zos mar

Ephemerum serratum (Schreb. ex Hedw.) Hampe.

Dg: MAB Rad lin

Epilobium alpestre (Jacq.) Krock.

Dg: AD MUL-ACO, ADD Ade all, ADE Dry-Ath

Epilobium alsinifolium Vill.

Dg: RA MON-CAR, RAB Lyc-Cra, RAD Swe-Dic

C: RAB Lyc-Cra, RAD Swe-Dic

Epilobium anagallidifolium Lam.

Dg: AE SAL HER, RAD Swe-Dic

Epilobium collinum C.C. Gmel.

Dg: SB CYM-PAR

Epilobium hirsutum L.

Dg: XDA Sen flu

Epilobium nutans F.W. Schmidt

Dg: RAD Swe-Dic

Epilobium palustre L.

Dg: RAC Epi-Mon, TDG Jun eff

C: RAC Epi-Mon, TDG Jun eff

Epipactis atrorubens (Hoffm.) Besser

Dg: ACA Ses tat, ADF Cal var, LE ERI-PIN, LEA Pul-Pin

C: LE ERI-PIN, LEA Pul-Pin

Epipactis helleborine s. l.

Dg: LBD Sor-Fag

C: LBD Sor-Fag

Epipactis palustris (L.) Crantz

Dg: RB SCH-CAR, RBA Car dav, RBB Sph-Tom

C: RBB Sph-Tom

Equisetum arvense L.

Dg: XB STE MED

C: XB STE MED, XBB Ver-Eup, XBC Scl ann, XBD Arn min, XBE Oxa fon, XBF Spe-Ero

Equisetum fluviatile L.

Dg: LA ALN GLU, MC PHR-CAR, RBB Sph-Tom

C: RBB Sph-Tom

Dm: MCA Phr aus

Equisetum palustre L.

Dg: RAB Lyc-Cra, RB SCH-CAR, RBA Car dav, TD MOL-ARR,

C: RAB Lyc-Cra, RAC Epi-Mon, RBA Car dav, TDF Cal pal

Dm: RBA Car dav

Equisetum sylvaticum L.

Dg: ADG Tri fus, RA MON-CAR

Equisetum variegatum Schleich.

Dg: KAB Sal ela

Eragrostis minor Host

Dg: XBK Era cil

Erica tetralix L.

Dg: RC OXY-SPH, RCB Oxy-Eri, RCC Oxy-Emp

C: RCB Oxy-Eri

Dm: RCB Oxy-Eri

Eriophorum angustifolium Honck.

Dg: RB SCH-CAR, RBD Sph-Car, RBE Sph cus,
RC OXY-SPH, RCB Oxy-Eri

C: RB SCH-CAR, RBD Sph-Car, RBE Sph cus,
RCB Oxy-Eri

Dm: RBD Sph-Car, RBE Sph cus

Eriophorum latifolium Hoppe

Dg: RB SCH-CAR, RBA Car dav, RBB Sph-Tom

C: RBA Car dav, RBB Sph-Tom

Eriophorum vaginatum L.

Dg: LFD Vac-Pin, RC OXY-SPH, RCA Sph mag,
RCB Oxy-Eri, RCC Oxy-Emp

C: LFD Vac-Pin, RC OXY-SPH, RCA Sph mag,
RCB Oxy-Eri, RCC Oxy-Emp

Dm: RC OXY-SPH, RCA Sph mag, RCC Oxy-
Emp

Erodium cicutarium (L.) LHér.

Dg: XB STE MED, XBF Spe-Ero

Erophila verna (L.) Chevall.

Dg: TFE Ara tha, TFH Koe gla

Eryngium maritimum L.

Dg: DA AMM ARE, DAA Amm are

Eryngium planum L.

Dg: SC THL ROT

Erysimum cheiranthoides L.

Dg: XB STE MED, XBE Oxa fon

Erysimum odoratum Ehrh.

Dg: THA Aly-Fes

Erysimum wittmannii Zaw.

Dg: THB Bro-Fes, THC Dia-Ses

C: THB Bro-Fes

Euonymus europaea L.

Dg: LBA Aln inc

Euonymus verrucosa Scop.

Dg: LC QUE PUB, LCC Que pet

Eupatorium cannabinum L.

Dg: LA ALN GLU

Dm: XDC Imp-Sta

Euphorbia amygdaloides L.

Dg: LE ERI-PIN, LEA Pul-Pin

Euphorbia cyparissias L.

Dg: LCA Que pub, LE ERI-PIN, TFF Aly-Sed,
TH FES-BRO, THB Bro-Fes, THC Dia-Ses

C: ADF Cal var, KBA Pru fru, LCA Que pub,
LE ERI-PIN, LEA Pul-Pin, TEE Eup-Cal, TFF
Aly-Sed, TFH Koe gla, TH FES-BRO, THA Aly-
Fes, THB Bro-Fes, THC Dia-Ses, THD Fes val,
THE Cir-Bra, THF Bro ere, THG Koe-Phl, THH
Ger san

Euphorbia exigua L.

Dg: XBA Caucal

Euphorbia falcata L.

Dg: XBA Caucal

Euphorbia helioscopia L.

Dg: XB STE MED, XBA Caucal, XBB Ver-Eup

C: XBA Caucal, XBB Ver-Eup

Euphorbia serrulata Thuill.

Dg: KAB Sal ela

Euphrasia picta Wimm.

Dg: AE SAL HER, AEB Fes pic

Euphrasia rostkoviana Hayne

Dg: LE ERI-PIN, LEA Pul-Pin, TEC Vio can

Euphrasia salisburgensis Hoppe

Dg: AC ELY-SES, ACA Ses tat, ACB Car fir

C: AC ELY-SES, ACA Ses tat, ACB Car fir

Euphrasia stricta D. Wolff ex J.F. Lehm.

Dg: TFG Koe alb, TI VIO CAL, TIA Arm hal

C: TI VIO CAL, TIA Arm hal

Fagus sylvatica L.

Dg: LB CAR-FAG, LBC Fag syl, LBD Sor-Fag,
LBE Luz-Fag

C: LB CAR-FAG, LBC Fag syl, LBD Sor-Fag,
LBE Luz-Fag, LBF Til-Ace

Dm: LB CAR-FAG, LBB Car bet, LBC Fag syl,
LBD Sor-Fag, LBE Luz-Fag, LBF Til-Ace

Falcaria vulgaris Bernh.

Dg: LCA Que pub, TH FES-BRO, THD Fes val

Fallopia convolvulus (L.) Á. Löve

Dg: KD *ROBINI*, XB *STE MED*, XBA *Cau-cal*, XBB *Ver-Eup*, XBC *Scl ann*, XBD *Arn min*, XBE *Oxa fon*, XBL *Lol-Lin*

C: XB *STE MED*, XBA *Cau-cal*, XBB *Ver-Eup*, XBC *Scl ann*, XBD *Arn min*, XBE *Oxa fon*, XBF *Spe-Ero*, XBL *Lol-Lin*

Festuca airoides Lam.

Dg: AA *LOI-VAC*, AAA *Loi-Vac*, AB *JUN TRI*, ABA *Jun tri*, ABB *Nar-Car*, AF *CAR-KOB*, AFA *Fes ver*

C: AB *JUN TRI*, ABA *Jun tri*, ABB *Nar-Car*

Dm: AB *JUN TRI*, ABB *Nar-Car*

Festuca altissima All.

Dg: LBC *Fag syl*

Festuca arundinacea Schreb.

Dg: TC *FES-PUC*, TCB *Jun ger*

Dm: TCB *Jun ger*

Festuca carpatica F. Dietr.

Dg: ADE *Dry-Ath*

Festuca gigantea (L.) Vill.

Dg: XEB *Fra ves*

C: XEB *Fra ves*

Festuca heterophylla Lam.

Dg: LC *QUE PUB*, LCC *Que pet*

Festuca ovina s. l.

Dg: LC *QUE PUB*, TFD *Hyp-Scl*, THJ *Mel pra*, TI *VIO CAL*, TIA *Arm hal*

C: LC *QUE PUB*, LCC *Que pet*, LDA *Gen-Que*, TEE *Eup-Cal*, TFD *Hyp-Scl*, THJ *Mel pra*, TI *VIO CAL*, TIA *Arm hal*

Dm: TI *VIO CAL*, TIA *Arm hal*

Festuca pallens Host

Dg: LE *ERI-PIN*, LEA *Pul-Pin*, THA *Aly-Fes*, THB *Bro-Fes*, THC *Dia-Ses*

C: LE *ERI-PIN*, LEA *Pul-Pin*, THA *Aly-Fes*, THB *Bro-Fes*, THC *Dia-Ses*

Festuca picta Kit

Dg: AE *SAL HER*, AEB *Fes pic*

C: AE *SAL HER*, AEB *Fes pic*

Dm: AE *SAL HER*, AEB *Fes pic*

Festuca polesica Zapal.

Dg: DA *AMM ARE*, DAA *Amm are*

Festuca pratensis Huds.

Dg: TD *MOL-ARR*, TDH *Alo pra*

C: TDA *Arr ela*, TDH *Alo pra*

Festuca psammophila (Hack. ex Čelak.) Fritsch

Dg: TF *KOE-COR*

Dm: TFH *Koe gla*

Festuca rubra agg.

Dg: DB *CAK MAR*, TD *MOL-ARR*, TE *CAL-ULI*

C: DA *AMM ARE*, DAA *Amm are*, DAB *Agr-Min*, DB *CAK MAR*, DBA *Atr lit*, KAB *Sal ela*, RBB *Sph-Tom*, RBC *Car can*, TD *MOL-ARR*, TDA *Arr ela*, TDB *Pol-Tri*, TDD *Mol cae*, TDG *Jun eff*, TDH *Alo pra*, TE *CAL-ULI*, TEB *Nar-Agr*, TEC *Vio can*, TEF *Gen-Vac*, TFE *Ara tha*, TFG *Koe alb*, THH *Ger san*, THJ *Mel pra*

Dm: TDB *Pol-Tri*, TEB *Nar-Agr*, TEC *Vio can*

Festuca rupicola Heuff.

Dg: KBA *Pru fru*

C: KBA *Pru fru*

Festuca tatrae (Czakó) Degen

Dg: AC *ELY-SES*, ACA *Ses tat*

C: ACA *Ses tat*

Festuca trachyphylla s. l.

Dg: TFH *Koe gla*, TH *FES-BRO*, THD *Fes val*

C: TFH *Koe gla*, THD *Fes val*

Festuca valesiaca Schleich. ex Gaudin

Dg: THD *Fes val*

Festuca versicolor Tausch

Dg: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*, AF *CAR-KOB*, AFA *Fes ver*

C: AC *ELY-SES*, ACB *Car fir*, AF *CAR-KOB*, AFA *Fes ver*

Dm: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*, AF *CAR-KOB*, AFA *Fes ver*

Ficaria verna Huds.

Dg: LB *CAR-FAG*, LBA *Aln inc*, XDB *Pet hyb*

C: LBA *Aln inc*

Filago minima (Sm.) Pers.
Dg: TF KOE-COR, TFB *The-Air*

Filipendula ulmaria (L.) Maxim.
Dg: LA ALN GLU, TD MOL-ARR, TDF *Cal pal*, TDJ *Ver-Lys*
C: TDF *Cal pal*, TDJ *Ver-Lys*
Dm: TDF *Cal pal*, TDJ *Ver-Lys*

Filipendula vulgaris Moench
Dg: LCA *Que pub*, TH FES-BRO, THG *Koe-Phl*

Fissidens dubius P. Beauv.
Dg: ACA *Ses tat*

Flavocetraria cucullata (Bellardi) Kärnefelt & Thell
Dg: AB JUN TRI, ABA *Jun tri*

Flavocetraria nivalis (L.) Kärnefelt & Thell
Dg: AB JUN TRI, ABA *Jun tri*

Fontinalis antipyretica Hedw.
Dg: VC CHARET, VCA *Nit fle*

Fossombronina wondraczekii (Corda) Lindb.
Dg: MA ISO-JUN, MAB *Rad lin*

Fragaria moschata Duchesne
Dg: LBD *Sor-Fag*, LC *QUE PUB*
C: LBD *Sor-Fag*

Fragaria vesca L.
Dg: ADF *Cal var*, KBH *Sal are*, LC *QUE PUB*, LE *ERI-PIN*, LEA *Pul-Pin*
C: ADF *Cal var*, KBH *Sal are*, LC *QUE PUB*, LCC *Que pet*, LE *ERI-PIN*, LEA *Pul-Pin*, THB *Bro-Fes*, THJ *Mel pra*

Fragaria viridis Duchesne
Dg: LCA *Que pub*, TH FES-BRO, THF *Bro ere*, THH *Ger san*
C: LCA *Que pub*, THF *Bro ere*, THH *Ger san*

Frangula alnus Mill.
Dg: LA ALN GLU, LAA *Aln glu*, LAB *Sal cin*, LD *QUE ROB*, LDB *Que rob*
C: KBH *Sal are*, LA ALN GLU, LAA *Aln glu*, LAB *Sal cin*, LD *QUE ROB*, LDB *Que rob*, LFD *Vac-Pin*
Dm: LDB *Que rob*

Fraxinus excelsior L.
Dg: LB CAR-FAG, LBA *Aln inc*, LBF *Til-Ace*
C: LBA *Aln inc*, LBD *Sor-Fag*, LBF *Til-Ace*
Dm: LB CAR-FAG, LBA *Aln inc*, LBF *Til-Ace*

Frullania tamarisci (L.) Dumortier
Dg: AC ELY-SES, ACA *Ses tat*

Fucus vesiculosus L.
Dg: VE ZOS MAR, VEA *Zos mar*
Dm: VE ZOS MAR, VEA *Zos mar*

Fulgensia fulgens (Sw.) Elenkin
Dg: TFH *Koe gla*

Fumaria officinalis L.
Dg: XBB *Ver-Eup*

Fumaria vaillantii Loisel.
Dg: XBA *Caucal*

Furcellaria fastigiata (Turner) J.V. Lamour.
Dg: VE ZOS MAR, VEA *Zos mar*

Gagea lutea (L.) Ker Gawl.
Dg: LBA *Aln inc*

Galeobdolon luteum s. l.
Dg: LB CAR-FAG, LBB *Car bet*, LBC *Fag syl*, LBF *Til-Ace*, RA *MON-CAR*
C: LB CAR-FAG, LBB *Car bet*, LBC *Fag syl*, LBF *Til-Ace*

Galeopsis angustifolia (Ehrh.) Hoffm.
Dg: SC THL ROT, SCA *Sti cal*

Galeopsis pubescens Besser
Dg: KD *ROBINI*

Galeopsis tetrahit s. l.
Dg: XB STE MED, XBL *Lol-Lin*
C: XBL *Lol-Lin*

Galinsoga ciliata (Raf.) S.F. Blake
Dg: XB STE MED, XBE *Oxa fon*

Galinsoga parviflora Cav.
Dg: XB STE MED, XBB *Ver-Eup*, XBE *Oxa fon*, XBF *Spe-Ero*, XBI *Mal neg*
C: XBE *Oxa fon*, XBF *Spe-Ero*
Dm: XBE *Oxa fon*

Galium anisophyllum Vill.

Dg: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*, AF CAR-KOB, AFA *Fes ver*

C: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*, AF CAR-KOB, AFA *Fes ver*

Galium aparine L.

Dg: KA SAL PUR, KAC *Sal alb*, KD ROBINI, XBA *Caucal*, XD GAL-URT

C: KA SAL PUR, KAA *Sal tri*, KAC *Sal alb*, KBD *Aeg-Sam*, KD ROBINI, KDA *Che-Rob*, LBA *Aln inc*, XBA *Caucal*, XBB *Ver-Eup*, XD GAL-URT, XDA *Sen flu*, XDD *Geo-All*, XDE *Aeg pod*

Dm: KAA *Sal tri*, KBD *Aeg-Sam*, KD ROBINI, KDA *Che-Rob*, TDJ *Ver-Lys*

Galium boreale L.

Dg: LC QUE PUB, LCC *Que pet*, TDD *Mol cae*, TDI *Cni ven*, TI VIO CAL

C: TDI *Cni ven*

Galium cracoviense Ehrend.

Dg: THA *Aly-Fes*, THC *Dia-Ses*

Galium mollugo agg.

Dg: ADF *Cal var*, KBH *Sal are*, LE ERI-PIN, LEA *Pul-Pin*, THB *Bro-Fes*, TI VIO CAL

C: ADF *Cal var*, KBH *Sal are*, LC QUE PUB, LCC *Que pet*, LE ERI-PIN, LEA *Pul-Pin*, SC THL ROT, SCA *Sti cal*, TDA *Arr ela*, TFG *Koe alb*, THA *Aly-Fes*, THB *Bro-Fes*, THC *Dia-Ses*, THF *Bro ere*, THI *Tri med*, THJ *Mel pra*, TI VIO CAL, TIA *Arm hal*

Galium odoratum (L.) Scop.

Dg: LB CAR-FAG, LBC *Fag syl*, LBD *Sor-Fag*, LBF *Til-Ace*

C: LBC *Fag syl*, LBD *Sor-Fag*, LBF *Til-Ace*

Galium palustre agg.

Dg: LA ALN GLU, LAA *Aln glu*, MC PHR-CAR, MCG *Car ela*

C: LA ALN GLU, LAA *Aln glu*, LAB *Sal cin*, MC PHR-CAR, MCF *Car-Rum*, MCG *Car ela*, MCH *Car gra*, RAC *Epi-Mon*, TDG *Jun eff*

Galium schultesii Vest

Dg: LC QUE PUB, LCC *Que pet*, LD QUE ROB, LDA *Gen-Que*

C: LC QUE PUB, LCC *Que pet*

Galium spurium L.

Dg: XBA *Caucal*

Galium uliginosum L.

Dg: RB SCH-CAR, RBB *Sph-Tom*, TD MOL-ARR, TDD *Mol cae*

C: RBB *Sph-Tom*

Galium verum L.

Dg: KBA *Pru fru*, LCA *Que pub*, TH FES-BRO, THD *Fes val*, THH *Ger san*, THJ *Mel pra*

C: KBA *Pru fru*, LCA *Que pub*, TH FES-BRO, THD *Fes val*, THE *Cir-Bra*, THG *Koe-Phl*, THH *Ger san*, THI *Tri med*, THJ *Mel pra*

Gentiana tinctoria L.

Dg: LC QUE PUB, LCC *Que pet*, TEE *Eup-Cal*

Gentiana asclepiadea L.

Dg: AD MUL-ACO, ADA *Cal vil*, ADB *Cal aru*, ADC *Sal sil*, ADE *Dry-Ath*

C: AD MUL-ACO, ADA *Cal vil*, ADB *Cal aru*, ADC *Sal sil*, ADE *Dry-Ath*, TEB *Nar-Agr*

Dm: ADA *Cal vil*

Gentiana clusii J.O.E. Perrier & Songeon

Dg: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*

C: ACA *Ses tat*, ACB *Car fir*, AC ELY-SES

Gentiana pneumonanthe L.

Dg: TDD *Mol cae*

Gentiana punctata L.

Dg: ADE *Dry-Ath*, AE SAL HER, AEB *Fes pic*

Gentiana verna L.

Dg: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*

C: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*

Gentianella germanica s. l.

Dg: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*, TI VIO CAL, TIA *Arm hal*

C: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*

Gentianella uliginosa (Willd.) Börner

Dg: RBA *Car dav*

Geranium columbinum L.

Dg: ADF *Cal var*

Geranium pusillum Burm. f. ex L.

Dg: XB STE MED

Geranium robertianum Burm. f. ex L.
Dg: SA ASP TRI, XDC Imp-Sta
C: ADF Cal var, SAA Cystop, XDC Imp-Sta
Dm: KAA Sal tri

Geranium sanguineum L.
Dg: LC QUE PUB, LCC Que pet, THH Ger san

Geranium sylvaticum L.
Dg: ADC Sal sil, AE SAL HER, AEB Fes pic
C: ADC Sal sil, AEB Fes pic

Geum montanum L.
Dg: ABA Jun tri, AE SAL HER, AEB Fes pic, TEA Nar str
C: ABA Jun tri, AE SAL HER, AEB Fes pic, TEA Nar str

Geum rivale L.
Dg: TD MOL-ARR

Geum urbanum s. l.
Dg: KBD Aeg-Sam, KD ROBINI, XDD Geo-All
C: KBD Aeg-Sam, KD ROBINI, KDA Che-Rob, LBA Aln inc, XDC Imp-Sta, XDD Geo-All

Glaux maritima L.
Dg: TC FES-PUC, TCA Puc lim, TCB Jun ger
Dm: TCA Puc lim

Glechoma hederacea s. l.
Dg: KA SAL PUR, KAC Sal alb
C: KA SAL PUR, KAC Sal alb

Glyceria fluitans (L.) R. Br.
Dg: MCE Gly-Spa, VBD Ran aqu
C: MCE Gly-Spa, VBD Ran aqu
Dm: MCE Gly-Spa

Glyceria maxima (Hartm.) Holmb.
Dg: MC PHR-CAR, MCA Phr aus
Dm: MC PHR-CAR, MCA Phr aus

Gnaphalium norvegicum Gunnerus
Dg: ADG Tri fus, AE SAL HER, AEB Fes pic

Gnaphalium supinum L.
Dg: AE SAL HER, AEA Sal her
C: AE SAL HER, AEA Sal her

Gnaphalium uliginosum L.
Dg: MA ISO-JUN, MAA Ele ova, MAB Rad lin, MAC Ver sup, VD LIT UNI
C: MA ISO-JUN, MAA Ele ova, MAB Rad lin, MAC Ver sup

Gratiola officinalis L.
Dg: TDI Cni ven

Gymnadenia conopsea (L.) R. Br.
Dg: AC ELY-SES

Gymnadenia odoratissima (L.) Rich.
Dg: AC ELY-SES, ACB Car fir

Gymnocarpium dryopteris (L.) Newman
Dg: KC ROS-PIN

Gymnocarpium robertianum (Hoffm.) Newman
Dg: ADF Cal var, LE ERI-PIN, LEA Pul-Pin, SC THL ROT, SCA Sti cal
C: ADF Cal var

Gymnocolea inflata (Huds.) Dumort.
Dg: DAC Jun bal

Gypsophila fastigiata L.
Dg: TI VIO CAL, TIA Arm hal
C: TI VIO CAL, TIA Arm hal

Gypsophila muralis L.
Dg: MA ISO-JUN, MAB Rad lin

Gypsophila repens L.
Dg: AC ELY-SES, ACA Ses tat, ACB Car fir, THC Dia-Ses

Hamatocaulis vernicosus (Mitt.) Hedenäs
Dg: RBB Sph-Tom

Hammarbya paludosa (L.) Kuntze
Dg: RBB Sph-Tom

Hedera helix L.
Dg: LBD Sor-Fag, SB CYM-PAR

Helianthemum nummularium s. l.
Dg: AC ELY-SES, ACA Ses tat, ACB Car fir, THF Bro ere
C: AC ELY-SES, ACA Ses tat, ACB Car fir, THF Bro ere

- Helianthemum alpestre* (Jacq.) Dunal subsp. *rupifragum* (A. Kern.) Jáv.
Dg: THC *Dia-Ses*
- Helianthus annuus* L.
Dg: DB *CAK MAR*, *DBA Atr lit*
- Helianthus tuberosus* L.
Dg: KAA *Sal tri*
- Helichrysum arenarium* (L.) Moench
Dg: TF *KOE-COR*, *TFC Arm elo*, *TFH Koe gla*
C: TFH *Koe gla*
- Heliosperma quadridentatum* (Murray) Schinz & Thell.
Dg: KAB *Sal ela*
- Helleborus purpurascens* Waldst. & Kit.
Dg: ADB *Cal aru*
- Helodium blandowii* (F. Weber & D.Mohr) Warnst
Dg: RBB *Sph-Tom*
- Hepatica nobilis* Schreb.
Dg: LBB *Car bet*, *LBD Sor-Fag*, *LC QUE PUB*
C: LBD *Sor-Fag*
- Heracleum mantegazzianum* Sommier & Levier
Dg: XD *GAL-URT*, *XDE Aeg pod*
- Heracleum sosnowskyi* Manden.
Dm: XCE *Arc lap*
- Herniaria glabra* L.
Dg: TF *KOE-COR*, *TFE Ara tha*, *XBJ Sal rut*
- Hieracium alpinum* agg.
Dg: AA *LOI-VAC*, *AAA Loi-Vac*, *AB JUN TRI*, *ABA Jun tri*, *ABB Nar-Car*
C: AA *LOI-VAC*, *AAA Loi-Vac*, *AB JUN TRI*, *ABA Jun tri*, *ABB Nar-Car*
- Hieracium atratum* Fr. (alpinum < murorum)
Dg: TEA *Nar str*
- Hieracium aurantiacum* L.
Dg: ADB *Cal aru*
- Hieracium bifidum* Kit. ex Hornem.
Dg: AF *CAR-KOB*, *AFA Fes ver*
- Hieracium bupleuroides* C.C. Gmel.
Dg: AC *ELY-SES*, *ACA Ses tat*
C: *ACA Ses tat*
- Hieracium floribundum* Wimm. & Grab.
Dg: KD *ROBINI*, *KDA Che-Rob*
- Hieracium laevigatum* Willd. (lachenalii - umbellatum)
Dg: ADF *Cal var*, *LE ERI-PIN*, *LEA Pul-Pin*
- Hieracium murorum* L.
Dg: ADF *Cal var*, *LBD Sor-Fag*, *LC QUE PUB*, *LD QUE ROB*, *LDA Gen-Que*, *LE ERI-PIN*, *LEA Pul-Pin*
C: ADF *Cal var*, *LBD Sor-Fag*, *LDA Gen-Que*, *LE ERI-PIN*, *LEA Pul-Pin*
- Hieracium pilosella* s. l.
Dg: SC *THL ROT*, *TE CAL-ULI*, *TEE Eup-Cal*, *TF KOE-COR*, *TFD Hyp-Scl*
C: KAB *Sal ela*, *TEC Vio can*, *TEE Eup-Cal*, *TF KOE-COR*, *TFA Cor can*, *TFC Arm elo*, *TFD Hyp-Scl*, *TFE Ara tha*, *THG Koe-Phl*, *THJ Mel pra*
Dm: TFE *Ara tha*
- Hieracium sabaudum* s. l.
Dg: LC *QUE PUB*, *LCC Que pet*, *LD QUE ROB*, *LDA Gen-Que*
- Hieracium schmidtii* Tausch
Dg: THC *Dia-Ses*
- Hieracium umbellatum* L.
Dg: DA *AMM ARE*, *DAA Amm are*, *KBH Sal are*, *LC QUE PUB*, *TFG Koe alb*
C: *DAA Amm are*, *KBH Sal are*, *TFG Koe alb*
- Hieracium villosum* Jacq.
Dg: AC *ELY-SES*, *ACA Ses tat*
C: *ACA Ses tat*
- Hieracium lachenalii* s. l.
Dg: AC *ELY-SES*, *ACA Ses tat*, *LE ERI-PIN*, *TEB Nar-Agr*
C: *ACA Ses tat*, *TEB Nar-Agr*

Hierochloë australis (Schrad.) Roem. & Schult.

Dg: LC QUE PUB, LCC Que pet

Hippophaë rhamnoides L.

Dg: KBH Sal are, TFG Koe alb

Hippuris vulgaris L.

Dm: MCC Ele-Sag

Holcus lanatus L.

Dg: TD MOL-ARR, TDG Jun eff, TDH Alo pra

C: TD MOL-ARR, TDA Arr ela, TDD Mol cae, TDF Cal pal, TDG Jun eff, TDH Alo pra

Dm: TDH Alo pra

Holcus mollis L.

Dg: LD QUE ROB, XE EPI ANG

Dm: TEB Nar-Agr, XE EPI ANG, XEA Epi ang

Holosteum umbellatum L.

Dg: TFH Koe gla

Homalothecium lutescens (Hedw.) H. Rob.

Dg: LCA Que pub, SC THL ROT

Homalothecium sericeum (Hedw.) Schimp.

Dg: SB CYM-PAR, THC Dia-Ses

Homogyne alpina (L.) Cass.

Dg: AA LOI-VAC, AAA Loi-Vac, AB JUN TRI, ABA Jun tri, ADE Dry-Ath, AE SAL HER, AEB Fes pic, KC ROS-PIN, KCA Pin mug, TEA Nar str

C: AA LOI-VAC, AAA Loi-Vac, AB JUN TRI, ABA Jun tri, ACB Car fir, ADB Cal aru, ADC Sal sil, ADE Dry-Ath, AEB Fes pic, KC ROS-PIN, KCA Pin mug, TEA Nar str

Honckenya peploides (L.) Ehrh.

Dg: DAB Agr-Min, DB CAK MAR, DBA Atr lit

C: DAB Agr-Min, DB CAK MAR, DBA Atr lit

Hordeum murinum L.

Dg: XBH Sis off

Dm: XBH Sis off

Hottonia palustris L.

Dg: VBD Ran aqu

C: VBD Ran aqu

Dm: VB POTAME, VBD Ran aqu

Humulus lupulus L.

Dg: KA SAL PUR, KAA Sal tri, KAC Sal alb, LA ALN GLU, TDJ Ver-Lys

C: KAA Sal tri, KAC Sal alb

Huperzia selago (L.) Bernh. ex Schrank & Mart.

Dg: AA LOI-VAC, AAA Loi-Vac, ACB Car fir, AF CAR-KOB, AFA Fes ver

C: AA LOI-VAC, AAA Loi-Vac, ACB Car fir, AF CAR-KOB, AFA Fes ver

Hydrocharis morsus-ranae L.

Dg: VA LEMNET, VAC Hyd mor, VB POTAME, VBA Nym alb

C: VAC Hyd mor

Dm: VA LEMNET, VAC Hyd mor

Hydrocotyle vulgaris L.

Dg: TDG Jun eff, VD LIT UNI

Hylacomiastrum umbratum (Ehrh. ex Hedw.) M. Fleisch. ex Broth

Dg: ADC Sal sil, KC ROS-PIN

Dm: ADC Sal sil

Hylacomium splendens (Hedw.) Schimp.

Dg: AF CAR-KOB, AFA Fes ver

C: AF CAR-KOB, AFA Fes ver

Dm: ADF Cal var, AF CAR-KOB, AFA Fes ver

Hypericum hirsutum L.

Dg: ADF Cal var

Hypericum humifusum L.

Dg: MA ISO-JUN, MAB Rad lin

Hypericum maculatum Crantz.

Dg: AD MUL-ACO, TDB Pol-Tri, TE CAL-ULI, TEB Nar-Agr, XDF Rum alp

C: ADA Cal vil, TDB Pol-Tri, TEB Nar-Agr, TEC Vio can, TEF Gen-Vac, XDF Rum alp

Dm: ADA Cal vil, XDF Rum alp

Hypericum montanum L.

Dg: LBD Sor-Fag, LC QUE PUB, LCC Que pet

Hypericum perforatum L.

Dg: LC QUE PUB, LE ERI-PIN, LEA Pul-Pin, THB Bro-Fes

C: LC QUE PUB, LCA Que pub, LCC Que pet, LE ERI-PIN, LEA Pul-Pin, TEE Eup-Cal, THB

Bro-Fes, THG *Koe-Phl*, THI *Tri med*, THJ *Mel pra*

Hypnum cupressiforme agg.

Dg: AF *CAR-KOB*, SA *ASP TRI*, SAB *Asp cun*, SAC *Asp sep*, THJ *Mel pra*

C: SAB *Asp cun*, SAC *Asp sep*, THJ *Mel pra*

Dm: SAC *Asp sep*, SB *CYM-PAR*, SBA *Cym-Asp*, TFG *Koe alb*

Hypnum jutlandicum Holmen & E. Warncke

Dg: LF *VAC-PIC*, RCB *Oxy-Eri*

Dm: TEE *Eup-Cal*

Hypnum pratense W.D.J. Koch ex Spruce

Dg: RBB *Sph-Tom*

Hypochaeris glabra L.

Dg: KAB *Sal ela*

Hypochaeris radicata L.

Dg: TF *KOE-COR*, TFB *The-Air*

Hypochoeris uniflora Vill.

Dg: AB *JUN TRI*, ABA *Jun tri*, ADB *Cal aru*

Hypogymnia physodes (L.) Nyl.

Dg: DA *AMM ARE*, DAA *Amm are*

Illecebrum verticillatum L.

Dg: MAB *Rad lin*

Impatiens glandulifera Royle

Dg: KA *SAL PUR*, KAC *Sal alb*, XDA *Sen flu*

Dm: XDA *Sen flu*

Impatiens noli-tangere L.

Dg: LA *ALN GLU*, LAA *Aln glu*, LBA *Aln inc*, RA *MON-CAR*, RAA *Car rem*

C: LAA *Aln glu*, LBA *Aln inc*, RA *MON-CAR*, RAA *Car rem*

Dm: LBA *Aln inc*

Impatiens parviflora DC.

Dm: KD *ROBINI*, KDA *Che-Rob*

Inula britannica L.

Dg: MCB *Mel-Bol*

Inula conyza DC.

Dg: THB *Bro-Fes*

C: THB *Bro-Fes*

Inula ensifolia L.

Dg: TH *FES-BRO*, THE *Cir-Bra*

Dm: THE *Cir-Bra*

Inula germanica L.

Dg: LCA *Que pub*

Inula salicina L.

Dg: LC *QUE PUB*

Iris pseudacorus L.

Dg: LA *ALN GLU*, LAA *Aln glu*, LAB *Sal cin*, MC *PHR-CAR*

C: LA *ALN GLU*, LAA *Aln glu*

Isoëtes lacustris L.

Dg: VD *LIT UNI*, VDA *Lit uni*

C: VDA *Lit uni*

Dm: VDA *Lit uni*

Jasione montana L.

Dg: DA *AMM ARE*, DAA *Amm are*, TF *KOE-COR*, TFA *Cor can*, TFD *Hyp-Scl*

Jovibarba hirta (L.) Opiz

Dg: AC *ELY-SES*, ACA *Ses tat*, LE *ERI-PIN*, THA *Aly-Fes*, THB *Bro-Fes*, THC *Dia-Ses*

C: THA *Aly-Fes*, THB *Bro-Fes*, THC *Dia-Ses*

Juncus articulatus L. emend. K. Richt.

Dg: RAC *Epi-Mon*, RBA *Car dav*, VD *LIT UNI*

C: RAC *Epi-Mon*, RBA *Car dav*

Juncus articulatus L. emend. K. Richt. subsp. *litoralis* (Patze, Mey. et Elkan) Lemke

Dg: DA *AMM ARE*, DAC *Jun bal*

Juncus balticus Willd.

Dg: DA *AMM ARE*, DAC *Jun bal*

C: DAC *Jun bal*

Juncus bufonius L.

Dg: MA *ISO-JUN*, MAA *Ele ova*, MAB *Rad lin*, MAC *Ver sup*

C: MA *ISO-JUN*, MAB *Rad lin*, MAC *Ver sup*

Dm: MAB *Rad lin*

Juncus bulbosus L.

Dg: VD *LIT UNI*, VDA *Lit uni*, VDB *Ele aci*,

VDC *Sph-Utr*

C: VD LIT UNI, VDA *Lit uni*, VDB *Ele aci*

Dm: VD LIT UNI, VDA *Lit uni*, VDB *Ele aci*

Juncus capitatus Weigel

Dg: MAB *Rad lin*

Juncus compressus Jacq.

Dg: TC FES-PUC, TCA *Puc lim*, TCB *Jun ger*

C: TC FES-PUC, TCB *Jun ger*

Dm: MAC *Ver sup*

Juncus effusus L.

Dg: LA ALN GLU, RAC *Epi-Mon*, TDG *Jun eff*

C: RAC *Epi-Mon*, TDG *Jun eff*

Dm: TDG *Jun eff*, TDJ *Ver-Lys*

Juncus gerardi Loisel.

Dg: TC FES-PUC, TCA *Puc lim*

Juncus ranarius J.O.E. Perrier & Songeon

Dg: TC FES-PUC

Juncus squarrosus L.

Dg: TED *Nar-Jun*

C: TED *Nar-Jun*

Juncus trifidus L.

Dg: AA LOI-VAC, AAA *Loi-Vac*, AB JUN TRI,

ABA *Jun tri*

C: ABA *Jun tri*

Dm: AB JUN TRI, ABA *Jun tri*

Jungermannia obovata Nees

Dg: RAD *Swe-Dic*

Jungermannia sphaerocarpa Hook.

Dg: AE SAL HER, AEA *Sal her*

Dm: AE SAL HER, AEA *Sal her*

Juniperus communis L.

Dg: LC QUE PUB, LCA *Que pub*, LE ERI-PIN,

LEA *Pul-Pin*, THB *Bro-Fes*

C: LC QUE PUB, LCA *Que pub*, LCC *Que pet*,

LE ERI-PIN, LEA *Pul-Pin*, THB *Bro-Fes*

Dm: TEE *Eup-Cal*

Juniperus communis L. subsp. *alpina* (Sm.) Če-
lak.

Dg: AA LOI-VAC, AAA *Loi-Vac*

Kernera saxatilis (L.) Rchb.

Dg: AC ELY-SES, ACA *Ses tat*

Kiaeria starkei (Web. & Mohr) I. Hagen

Dg: AE SAL HER, AEA *Sal her*

C: AEA *Sal her*

Knautia arvensis agg.

Dg: TH FES-BRO, THJ *Mel pra*

C: TEC *Vio can*, TFG *Koe alb*, THF *Bro ere*, THI

Tri med, THJ *Mel pra*

Knautia dipsacifolia Kreutzer

Dg: ADB *Cal aru*

Koeleria glauca (Spreng.) DC.

Dg: TF KOE-COR, TFA *Cor can*,

Koeleria grandis Besser ex Gorski

Dg: LC QUE PUB, LCC *Que pet*

Koeleria macrantha (Ledeb.) Schult.

Dg: TH FES-BRO, THD *Fes val*, THG *Koe-Phl*

C: THD *Fes val*

Koeleria pyramidata (Lam.) P. Beauv.

Dg: THF *Bro ere*

Lamium amplexicaule L.

Dg: XB STE MED, XBA *Caucal*, XBB *Ver-Eup*

Lamium maculatum L.

Dg: KA SAL PUR

Lamium purpureum L.

Dg: KD ROBINI, XB STE MED, XBB *Ver-Eup*

Laserpitium latifolium L.

Dg: ADF *Cal var*, LE ERI-PIN, LEA *Pul-Pin*,

THC *Dia-Ses*

C: ADF *Cal var*, LE ERI-PIN, LEA *Pul-Pin*

Laserpitium prutenicum L.

Dg: LC QUE PUB

Lathyrus japonicus Willd. subsp. *maritimus* (L.)

P.W. Ball

Dg: DA AMM ARE, DAA *Amm are*

Lathyrus montanus Bernh.

Dg: THJ *Mel pra*

- Lathyrus niger* Bernh.
Dg: LC *QUE PUB*, LCC *Que pet*
C: LCC *Que pet*
- Lathyrus pratensis* L.
Dg: ADF *Cal var*, TD *MOL-ARR*, TDI *Cni ven*
C: ADF *Cal var*, TDI *Cni ven*, TDF *Cal pal*
- Lathyrus tuberosus* L.
Dg: XBA *Caucal*
C: XBA *Caucal*
- Lathyrus vernus* (L.) Bernh.
Dg: LBB *Car bet*, LBD *Sor-Fag*, LC *QUE PUB*
C: LBD *Sor-Fag*
- Lavatera thuringiaca* L.
Dg: KBA *Pru fru*
- Ledum palustre* L.
Dg: LFD *Vac-Pin*, RC *OXY-SPH*, RCA *Sph mag*,
RCC *Oxy-Emp*
C: LFD *Vac-Pin*, RC *OXY-SPH*, RCA *Sph mag*
- Leersia oryzoides* (L.) Sw.
Dg: MA *ISO-JUN*, MAA *Ele ova*, MCE *Gly-Spa*
- Lembotropis nigricans* (L.) Griseb.
Dg: KBA *Pru fru*
- Lemna gibba* L.
Dg: VA *LEMNET*, VAA *Lem min*
- Lemna minor* L.
Dg: VA *LEMNET*, VAA *Lem min*, VAB *Utr vul*,
VAC *Hyd mor*, VB *POTAME*
C: VA *LEMNET*, VAA *Lem min*, VAB *Utr vul*,
VAC *Hyd mor*
Dm: VA *LEMNET*, VAA *Lem min*
- Lemna trisulca* L.
Dg: VA *LEMNET*, VAA *Lem min*, VAC *Hyd mor*
C: VA *LEMNET*, VAA *Lem min*, VAC *Hyd mor*
Dm: VA *LEMNET*, VAA *Lem min*
- Leontodon autumnalis* L.
Dg: TDC *Cyn cri*
C: TDC *Cyn cri*
- Leontodon hispidus* L.
Dg: TI *VIO CAL*
C: ADF *Cal var*, RBB *Sph-Tom*, TEB *Nar-Agr*,
TEC *Vio can*, THF *Bro ere*, TI *VIO CAL*, TIA
Arm hal
- Leontodon incanus* (L.) Schrank
Dg: AC *ELY-SES*, ACA *Ses tat*, LE *ERI-PIN*
C: ACA *Ses tat*
- Leontodon pseudotaraxaci* Schur
Dg: AC *ELY-SES*, ACB *Car fir*
- Leonurus cardiaca* L.
Dg: XBI *Mal neg*, XCE *Arc lap*
- Lepidium campestre* (L.) R. Br.
Dg: SC *THL ROT*
- Lepidium ruderales* L.
Dg: TB *THE-SAL*, XCA *Ono aca*
- Lepraria incana* (L.) Ach.
Dg: THC *Dia-Ses*
- Leptogium lichenoides* (L.) Zahlbr.
Dg: THA *Aly-Fes*
- Leucanthemopsis alpina* (L.) Heywood
Dg: AB *JUN TRI*, ABA *Jun tri*
C: ABA *Jun tri*
- Leucanthemum vulgare* Lam.
Dg: AF *CAR-KOB*, LE *ERI-PIN*
C: AF *CAR-KOB*, AFA *Fes ver*, LE *ERI-PIN*,
LEA *Pul-Pin*, TDA *Arr ela*, TEC *Vio can*
- Leucobryum glaucum* (Hedw.) Ångstr.
Dg: LF *VAC-PIC*, LFD *Vac-Pin*, RCB *Oxy-Eri*
- Leymus arenarius* (L.) Hochst.
Dg: DA *AMM ARE*, DAA *Amm are*, DAB *Agr-Min*,
DB *CAK MAR*, DBA *Atr lit*
C: DAA *Amm are*, DAB *Agr-Min*, DB *CAK MAR*,
DBA *Atr lit*
Dm: DAB *Agr-Min*
- Libanotis pyrenaica* (L.) Bourg.
Dg: THB *Bro-Fes*, THC *Dia-Ses*
C: THB *Bro-Fes*, THC *Dia-Ses*
Dm: THC *Dia-Ses*

Ligustrum vulgare L.

Dg: LCA *Que pub*

C: LCA *Que pub*

Lilium martagon L.

Dg: LC *QUE PUB*, LCC *Que pet*

Limosella aquatica L.

Dg: MA *ISO-JUN*, MAA *Ele ova*

C: MAA *Ele ova*

Limprichtia revolvens s. l.

Dg: RB *SCH-CAR*, RBA *Car dav*, RBB *Sph-Tom*

Linaria odora (M. Bieb.) Fisch.

Dg: DA *AMM ARE*, DAA *Amm are*

Linaria vulgaris Mill.

Dg: LC *QUE PUB*

Lindernia procumbens (Krock.) Borbás

Dg: MA *ISO-JUN*, MAA *Ele ova*

Linosyris vulgaris Cass.

Dg: LCA *Que pub*

Linum catharticum L.

Dg: LE *ERI-PIN*, LEA *Pul-Pin*, THE *Cir-Bra*, TI *VIO CAL*

C: ADF *Cal var*, LE *ERI-PIN*, LEA *Pul-Pin*, THE *Cir-Bra*, THF *Bro ere*

Linum usitatissimum L.

Dg: XBL *Lol-Lin*

C: XBL *Lol-Lin*

Dm: XBL *Lol-Lin*

Liparis loeselii (L.) Rich.

Dg: RBA *Car dav*

Listera cordata (L.) R. Br.

Dg: KC *ROS-PIN*, KCA *Pin mug*

Lithospermum arvense L.

Dg: XB *STE MED*, XBA *Caucal*

Lithospermum officinale L.

Dg: LCA *Que pub*

Littorella uniflora (L.) Asch.

Dg: VD *LIT UNI*, VDA *Lit uni*

Lobelia dortmanna L.

Dg: VD *LIT UNI*, VDA *Lit uni*

C: VDA *Lit uni*

Lolium perenne L.

Dg: TDC *Cyn cri*, XA *POL-POË*, XAA *Cor-Pol*

C: TDC *Cyn cri*, XAA *Cor-Pol*

Dm: TDC *Cyn cri*

Lolium remotum Schrank

Dg: XBL *Lol-Lin*

C: XBL *Lol-Lin*

Lonicera nigra L.

Dg: ADC *Sal sil*, ADF *Cal var*, KC *ROS-PIN*

C: ADC *Sal sil*

Lonicera periclymenum L.

Dg: KBH *Sal are*

C: KBH *Sal are*

Lonicera tatarica L.

Dg: KD *ROBINI*, KDA *Che-Rob*

Lonicera xylosteum L.

Dg: KBH *Sal are*, LBD *Sor-Fag*, LC *QUE PUB*

C: LBD *Sor-Fag*

Lophozia capitata Hook. Macoun

Dg: DAC *Jun bal*

Lophozia longidens (Lindb.) Macoun

Dg: ADC *Sal sil*

Lophozia lycopodioides (Wallr.) Cogn.

Dg: AB *JUN TRI*, ABA *Jun tri*

Lophozia sudetica (Nees ex Huebener) Grolle

Dg: AA *LOI-VAC*, AE *SAL HER*, AEA *Sal her*

C: AEA *Sal her*

Lotus corniculatus L.

Dg: TEC *Vio can*, THF *Bro ere*, TI *VIO CAL*

C: TEC *Vio can*, THF *Bro ere*, TI *VIO CAL*, TIA *Arm hal*

Lotus tenuis Waldst. & Kit. ex Willd.

Dg: TC *FES-PUC*, TCA *Puc lim*

Lotus uliginosus Schkuhr

Dg: RB SCH-CAR, TD MOL-ARR, TDD *Mol cae*, TDF *Cal pal*, TDG *Jun eff*
C: TDF *Cal pal*

Lunaria rediviva L.

Dg: LBF *Til-Ace*
Dm: LBF *Til-Ace*

Luronium natans (L.) Raf.

Dg: VD LIT UNI, VDB *Ele aci*

Luzula alpino-pilosa (Chaix) Breistr.

Dg: AA LOI-VAC, AAA *Loi-Vac*, ABA *Jun tri*, AE SAL HER, AEB *Fes pic*, AF CAR-KOB, AFA *Fes ver*

C: AA LOI-VAC, AAA *Loi-Vac*, ABA *Jun tri*, AE SAL HER, AEB *Fes pic*, AF CAR-KOB, AFA *Fes ver*

Dm: AA LOI-VAC, AAA *Loi-Vac*

Luzula campestris agg.

Dg: TE CAL-ULI, TEC *Vio can*

C: TDB *Pol-Tri*, TE CAL-ULI, TEB *Nar-Agr*, TEC *Vio can*, TED *Nar-Jun*, TEF *Gen-Vac*

Luzula luzulina (Vill.) Dalla Torre & Sarnth.

Dg: LFC *Pic abi*

Luzula luzuloides (Lam.) Dandy & Wilmott

Dg: ADB *Cal aru*, AE SAL HER, AEB *Fes pic*, TEA *Nar str*, TEB *Nar-Agr*

C: ADB *Cal aru*, AE SAL HER, AEB *Fes pic*, TEA *Nar str*, TEB *Nar-Agr*

Luzula pilosa (L.) Willd.

Dg: LC QUE PUB, LD QUE ROB, LDB *Que rob*, LF VAC-PIC

C: LBE *Luz-Fag*, LD QUE ROB, LDA *Gen-Que*, LDB *Que rob*

Luzula sylvatica (Huds.) Gaudin

Dg: AD MUL-ACO, ADB *Cal aru*, ADC *Sal sil*, ADG *Tri fus*, KC ROS-PIN

C: ADB *Cal aru*, ADC *Sal sil*, ADG *Tri fus*

Lychnis flos-cuculi L.

Dg: TD MOL-ARR, TDF *Cal pal*, TDH *Alo pra*
C: RBB *Sph-Tom*, TDD *Mol cae*, TDI *Cni ven*, TDF *Cal pal*, TDH *Alo pra*

Lycium barbarum L.

Dg: KBD *Aeg-Sam*

Dm: KBD *Aeg-Sam*, SB CYM-PAR, SBA *Cym-Asp*

Lycopodiella inundata (L.) Holub

Dg: DAC *Jun bal*

Lycopodium annotinum L.

Dg: LF VAC-PIC, LFC *Pic abi*

Lycopus europaeus L.

Dg: LA ALN GLU, LAA *Aln glu*, LAB *Sal cin*

C: KAB *Sal ela*, LA ALN GLU, LAA *Aln glu*, LAB *Sal cin*, MCF *Car-Rum*

Lysimachia nemorum L.

Dg: ADG *Tri fus*, RA MON-CAR, RAA *Car rem*

C: ADG *Tri fus*

Lysimachia nummularia L.

Dg: KA SAL PUR

Lysimachia thyrsoflora L.

Dg: LA ALN GLU

Lysimachia vulgaris L.

Dg: LA ALN GLU, LAA *Aln glu*, LAB *Sal cin*, TDJ *Ver-Lys*

C: LA ALN GLU, LAA *Aln glu*, LAB *Sal cin*, LDB *Que rob*, MCF *Car-Rum*, MCG *Car ela*, TDG *Jun eff*, TDJ *Ver-Lys*

Lythrum salicaria L.

Dg: LA ALN GLU, MC PHR-CAR, TDJ *Ver-Lys*

C: LA ALN GLU, LAA *Aln glu*, LAB *Sal cin*, MCG *Car ela*, MCH *Car gra*, TDG *Jun eff*, TDJ *Ver-Lys*

Maianthemum bifolium (L.) F.W. Schmidt

Dg: LB CAR-FAG, LBB *Car bet*, LBE *Luz-Fag*, LC QUE PUB, LD QUE ROB, LDB *Que rob*

C: LBB *Car bet*, LBC *Fag syl*, LBE *Luz-Fag*, LDB *Que rob*

Dm: LBD *Sor-Fag*

Malaxis monophyllos (L.) Sw.

Dg: TI VIO CAL, TIA *Arm hal*

Malva neglecta Wallr.

Dg: XBI *Mal neg*

C: XBI *Mal neg*
Dm: XBI *Mal neg*

Marchantia aquatica (Nees) Burgeff
Dg: RAB *Lyc-Cra*

Matricaria maritima L. subsp. *inodora* (L.) Do-
stál
Dg: XB *STE MED*, XBA *Caucal*, XBE *Oxa fon*
C: XBA *Caucal*, XBB *Ver-Eup*, XBC *Scl ann*,
XBE *Oxa fon*, XBG *Atrpli*

Medicago falcata L.
Dg: LCA *Que pub*, TH *FES-BRO*, THB *Bro-Fes*,
THD *Fes val*, THE *Cir-Bra*
C: KBA *Pru fru*, LCA *Que pub*, TFF *Aly-Sed*, TH
FES-BRO, THB *Bro-Fes*, THD *Fes val*, THE *Cir-*
Bra, THF *Bro ere*, THG *Koe-Phl*, THH *Ger san*

Medicago lupulina L.
Dg: LE *ERI-PIN*
C: ADF *Cal var*, KAB *Sal ela*

Medicago minima (L.) L.
Dg: TFH *Koe gla*

Meesia triquetra (L. ex Jolycl) Ångstr.
Dg: RAD *Swe-Dic*

Melampyrum arvense L.
Dg: TH *FES-BRO*

Melampyrum cristatum L.
Dg: LCA *Que pub*, THH *Ger san*

Melampyrum nemorosum L.
Dg: LC *QUE PUB*, LCC *Que pet*

Melampyrum pratense L.
Dg: KBH *Sal are*, LC *QUE PUB*, LD *QUE ROB*,
LDA *Gen-Que*, LF *VAC-PIC*, LFB *Dic-Pin*, THJ
Mel pra
C: LDA *Gen-Que*, THJ *Mel pra*

Melandrium album (Mill.) Garcke
Dg: XC *ART VUL*

Melandrium noctiflorum (L.) Fr.
Dg: XB *STE MED*, XBA *Caucal*
C: XBA *Caucal*

Melandrium rubrum (Weigel) Garcke
Dg: ADD *Ade all*

Melica nutans L.
Dg: ADF *Cal var*, LBB *Car bet*, LBD *Sor-Fag*,
LC *QUE PUB*, LCC *Que pet*, LE *ERI-PIN*
C: ADF *Cal var*, LBB *Car bet*, LBD *Sor-Fag*, LC
QUE PUB, LCC *Que pet*

Melica transsylvanica Schur
Dg: THB *Bro-Fes*
C: THB *Bro-Fes*
Dm: THA *Aly-Fes*

Melilotus alba Medik.
Dm: XC *ART VUL*

Melilotus dentata (Waldst. & Kit.) Pers.
Dg: TC *FES-PUC*

Melittis melissophyllum L.
Dg: LBD *Sor-Fag*, LC *QUE PUB*, LCC *Que pet*
C: LC *QUE PUB*, LCC *Que pet*

Mentha aquatica L.
Dg: MCB *Mel-Bol*
C: MCB *Mel-Bol*

Mentha longifolia (L.) L.
Dg: KAB *Sal ela*
C: KAB *Sal ela*

Menyanthes trifoliata L.
Dg: RB *SCH-CAR*, RBB *Sph-Tom*
C: RBB *Sph-Tom*
Dm: RAB *Lyc-Cra*

Mercurialis perennis L.
Dg: LB *CAR-FAG*, LBC *Fag syl*, LBD *Sor-Fag*,
LBF *Til-Ace*
C: LBD *Sor-Fag*, LBF *Til-Ace*
Dm: LBF *Til-Ace*

Meum athamanticum Jacq.
Dg: TDB *Pol-Tri*

Milium effusum L.
Dg: ADC *Sal sil*, ADD *Ade all*, LB *CAR-FAG*,
LBB *Car bet*
C: ADC *Sal sil*

Minuartia kitaibelii (Nyman) Pwal.

Dg: AC ELY-SES, ACA *Ses tat*

C: ACA *Ses tat*

Minuartia sedoides (L.) Hiern

Dg: AC ELY-SES, ACB *Car fir*

Minuartia verna (L.) Hiern

Dg: AC ELY-SES, ACB *Car fir*

Minuartia viscosa (Schreb.) Schinz & Thell.

Dg: TFH *Koe gla*

Mnium hornum Hedw.

Dg: LA ALN GLU, LAA *Aln glu*

Moehringia trinervia (L.) Clairv.

Dg: KBH *Sal are*, LD *QUE ROB*

C: KBH *Sal are*

Molinia caerulea s. l.

Dg: LFD *Vac-Pin*, RC *OXY-SPH*, TDD *Mol cae*

C: LDB *Que rob*, LFD *Vac-Pin*, RCA *Sph mag*,
RCB *Oxy-Eri*, TDD *Mol cae*

Dm: LD *QUE ROB*, LDB *Que rob*, LFD *Vac-Pin*,
RB *SCH-CAR*, RBA *Car dav*, RBD *Sph-Car*,
TD *MOL-ARR*, TDD *Mol cae*

Montia fontana s. l.

Dg: RAC *Epi-Mon*

C: RAC *Epi-Mon*

Mutellina purpurea (Poir.) Thell.

Dg: AA *LOI-VAC*, ABA *Jun tri*, AE *SAL HER*,
AEA *Sal her*, AEB *Fes pic*, AF *CAR-KOB*, AFA
Fes ver

C: AA *LOI-VAC*, AAA *Loi-Vac*, ABA *Jun tri*,
ADA *Cal vil*, AE *SAL HER*, AEA *Sal her*, AEB
Fes pic, AF *CAR-KOB*, AFA *Fes ver*

Dm: ADG *Tri fus*, AE *SAL HER*, AEB *Fes pic*

Mycelis muralis (L.) Dumort.

Dg: LBD *Sor-Fag*

C: LBC *Fag syl*, LBD *Sor-Fag*

Mycobilia sabuletorum (Schreb.) Hafellner

Dg: TI *VIO CAL*, TIA *Arm hal*

C: TI *VIO CAL*, TIA *Arm hal*

Mylia anomala (Hook.) Gray

Dg: RC *OXY-SPH*

Myosotis arvensis (L.) Hill

Dg: XB *STE MED*, XBA *Caucal*, XBB *Ver-Eup*,

XBC *Scl ann*, XBE *Oxa fon*

C: XBA *Caucal*, XBC *Scl ann*

Myosotis palustris agg.

Dg: LA *ALN GLU*, RA *MON-CAR*, RAC *Epi-*

Mon

C: ADD *Ade all*, ADG *Tri fus*, MCE *Gly-Spa*,
RAB *Lyc-Cra*, RAC *Epi-Mon*, TDF *Cal pal*

Myosotis sparsiflora Pohl

Dg: KD *ROBINI*, KDA *Che-Rob*

Myosotis stricta Link ex Roem. & Schult.

Dg: TFE *Ara tha*, TFH *Koe gla*, XB *STE MED*

Myosotis sylvatica Ehrh. ex Hoffm.

Dg: KAB *Sal ela*

Myosoton aquaticum (L.) Moench

Dg: MB *BID TRI*, MCD *Pha aru*

Myosurus minimus L.

Dg: MA *ISO-JUN*, MAC *Ver sup*

C: MAC *Ver sup*

Myrica gale L.

Dg: LAB *Sal cin*

Dm: LAB *Sal cin*

Myricaria germanica (L.) Desv.

Dg: KA *SAL PUR*, KAB *Sal ela*

C: KAB *Sal ela*

Dm: KAB *Sal ela*

Myriophyllum alternifolium DC.

Dg: VD *LIT UNI*, VDA *Lit uni*

C: VDA *Lit uni*

Myriophyllum spicatum L.

Dg: VB *POTAME*, VBA *Nym alb*, VBB *Potami*,

VC *CHARET*

Myriophyllum verticillatum L.

Dg: VB *POTAME*, VBA *Nym alb*, VBB *Potami*,

VBC *Bat flu*

Dm: VB *POTAME*, VBB *Potami*

Myrrhis odorata (L.) Scop.

Dg: XDF *Rum alp*

- Najas marina* L.
Dg: VC CHARET, VCA *Nit fle*
- Najas minor* All.
Dg: VBB *Potami*
- Nardia scalaris* Gray
Dg: AE SAL HER, AEA *Sal her*
- Nardus stricta* L.
Dg: AB JUN TRI, ADB *Cal aru*, AE SAL HER, TE CAL-ULI, TEA *Nar str*, TEB *Nar-Agr*, TEC *Vio can*, TED *Nar-Jun*
C: ABB *Nar-Car*, ADB *Cal aru*, AEA *Sal her*, TE CAL-ULI, TEA *Nar str*, TEB *Nar-Agr*, TEC *Vio can*, TED *Nar-Jun*, TEF *Gen-Vac*
Dm: AA LOI-VAC, AAA *Loi-Vac*, AE SAL HER, AEB *Fes pic*, TE CAL-ULI, TEA *Nar str*, TEB *Nar-Agr*, TEC *Vio can*, TED *Nar-Jun*, TEF *Gen-Vac*, XE EPI ANG, XEA *Epi ang*
- Nasturtium officinale* R. Br.
Dg: MCE *Gly-Spa*
Dm: MCE *Gly-Spa*
- Neckera crispa* Hedw.
Dg: AC ELY-SES, ACA *Ses tat*, THC *Dia-Ses*
- Neckera pumila* Hedw.
Dg: THC *Dia-Ses*
- Neottia nidus-avis* (L.) Rich.
Dg: LBD *Sor-Fag*
- Neslia paniculata* (L.) Desv.
Dg: XB STE MED, XBA *Caucal*
- Niphotrichum canescens* (Hedw.) Bednarek-Ochyra & Ochyra
Dg: AF CAR-KOB, AFA *Fes ver*, TFH *Koe gla*
C: AF CAR-KOB, AFA *Fes ver*, TFH *Koe gla*
- Niphotrichum elongatum* (Ehrh. ex Frisvoll) Bednarek-Ochyra & Ochyra
Dg: AE SAL HER, AEA *Sal her*
- Niphotrichum ericoides* (Brid.) Bednarek-Ochyra & Ochyra
Dg: AE SAL HER, AEA *Sal her*
- Nitella mucronata* (Braun) Miq.
Dg: VC CHARET, VCB *Cha glo*
- Nitella syncarpa* (Thuill.) Kütz.
Dg: VC CHARET, VCA *Nit fle*
C: VCA *Nit fle*
Dm: VC CHARET, VCA *Nit fle*
- Nitellopsis obtusa* (Desv.) J. Groves
Dg: VC CHARET, VCB *Cha glo*
Dm: VC CHARET, VCB *Cha glo*
- Nuphar lutea* (L.) Sibth. & Sm.
Dg: VA LEMNET, VAC *Hyd mor*, VB POTAME, VBA *Nym alb*, VBC *Bat flu*
C: VAC *Hyd mor*, VBA *Nym alb*
Dm: VB POTAME, VBA *Nym alb*
- Nymphaea alba* L.
Dg: VB POTAME, VBA *Nym alb*, VCA *Nit fle*
C: VBA *Nym alb*
Dm: VB POTAME, VBA *Nym alb*
- Nymphoides peltata* (S.G. Gmel.) Kuntze
Dg: VBA *Nym alb*
Dm: VBA *Nym alb*
- Odontites verna* s. l.
Dg: XBA *Caucal*
- Odontoschisma sphagni* (Dicks.) Dumort.
Dg: RCB *Oxy-Eri*
- Oenanthe aquatica* (L.) Poir.
Dg: MB BID TRI, MCC *Ele-Sag*
Dm: MCC *Ele-Sag*
- Oenothera biennis* s. l.
Dg: XBJ *Sal rut*, XCA *Ono aca*
- Oligotrichum hercynicum* (Hedw.) Lam. & DC.
Dg: AE SAL HER, AEA *Sal her*
C: AEA *Sal her*
- Ononis repens* L.
Dg: TFG *Koe alb*
- Ononis spinosa* L.
Dg: TH FES-BRO, THE *Cir-Bra*

Onopordon acanthium L.

Dg: XCA *Ono aca*

Dm: XCA *Ono aca*

Ophioglossum vulgatum L.

Dg: TDD *Mol cae*

Oreochloa disticha (Wulfen) Link

Dg: AA *LOI-VAC*, AB *JUN TRI*, ABA *Jun tri*

C: ABA *Jun tri*

Oreopteris limbosperma (Bellardi ex All.) Holub

Dg: ADC *Sal sil*, ADG *Tri fus*

Origanum vulgare L.

Dg: ADF *Cal var*, KBA *Pru fru*, LC *QUE PUB*,
LE *ERI-PIN*

C: ADF *Cal var*, KBA *Pru fru*

Orobanche alba Stephan ex Willd.

Dg: THC *Dia-Ses*

Orobanche pallidiflora Wimm. & Grab.

Dg: XDF *Rum alp*

Orthilia secunda (L.) House

Dg: KBH *Sal are*, LBD *Sor-Fag*, LF *VAC-PIC*

Oxalis acetosella L.

Dg: ADC *Sal sil*, ADD *Ade all*, KC *ROS-PIN*,
LB *CAR-FAG*, LBC *Fag syl*, LBE *Luz-Fag*, RA
MON-CAR

C: ADC *Sal sil*, ADD *Ade all*, ADE *Dry-Ath*, KC
ROS-PIN, KCA *Pin mug*, LB *CAR-FAG*, LBB
Car bet, LBC *Fag syl*, LBE *Luz-Fag*, LBF *Til-Ace*,
LFC *Pic abi*, RA *MON-CAR*, RAA *Car rem*

Oxalis fontana s. l.

Dg: SB *CYM-PAR*, XBE *Oxa fon*

Oxycoccus palustris s. l.

Dg: LFD *Vac-Pin*, RB *SCH-CAR*, RBE *Sph cus*,
RC *OXY-SPH*, RCA *Sph mag*, RCB *Oxy-Eri*,
RCC *Oxy-Emp*

C: LFD *Vac-Pin*, RBE *Sph cus*, RC *OXY-SPH*,
RCA *Sph mag*, RCB *Oxy-Eri*, RCC *Oxy-Emp*

Dm: RBD *Sph-Car*, RBE *Sph cus*, RC *OXY-SPH*,
RCA *Sph mag*, RCC *Oxy-Emp*

Oxyria digyna (L.) Hill

Dg: AF *CAR-KOB*, AFA *Fes ver*

Oxyrrhynchium hians (Hedw.) Loeske

Dg: KA *SAL PUR*

Oxystegus tenuirostris (Hook & Taylor) Lindb.

Dg: AE *SAL HER*, AEB *Fes pic*

Oxytropis pilosa (L.) DC.

Dg: THD *Fes val*

Pachypleurum simplex (L.) Rchb.

Dg: AC *ELY-SES*, ACB *Car fir*

Padus avium Mill.

Dg: LA *ALN GLU*, LBA *Aln inc*

C: LBA *Aln inc*

Dm: KAC *Sal alb*

Paludella squarrosa (Hedw.) Brid.

Dg: RBB *Sph-Tom*

Dm: RBB *Sph-Tom*

Palustriella commutata (Hedw.) Ochyra

Dg: RAB *Lyc-Cra*

C: RAB *Lyc-Cra*

Dm: ADG *Tri fus*, RAB *Lyc-Cra*, RAD *Swe-Dic*

Palustriella decipiens (De Not.) Ochyra

Dm: RAB *Lyc-Cra*, RAD *Swe-Dic*

Papaver argemone L.

Dg: XB *STE MED*, XBC *Scl ann*

Papaver rhoeas L.

Dg: XB *STE MED*, XBA *Caucal*

C: XBA *Caucal*

Parietaria officinalis L.

Dg: SB *CYM-PAR*

Paris quadrifolia L.

Dg: LB *CAR-FAG*, LBF *Til-Ace*

Parnassia palustris L.

Dg: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*, AF
CAR-KOB, AFA *Fes ver*

C: AC *ELY-SES*, ACB *Car fir*, AF *CAR-KOB*,
AFA *Fes ver*

Pedicularis hacquetii Graf

Dg: AE *SAL HER*, AEB *Fes pic*

- Pedicularis oederi* Vahl
Dg: AC ELY-SES, ACB Car fir
- Pedicularis palustris* L.
Dg: RBB Sph-Tom
- Pedicularis sudetica* L.
Dg: RAD Swe-Dic
- Pedicularis sylvatica* L.
Dg: TED Nar-Jun
- Pedicularis verticillata* L.
Dg: AC ELY-SES, ACA Ses tat, ACB Car fir
C: AC ELY-SES, ACA Ses tat
- Pellia endiviifolia* (Dicks.) Dumort.
Dg: RAB Lyc-Cra
- Pellia epiphylla* (L.) Corda
Dg: ADE Dry-Ath, ADG Tri fus
- Pellia neesiana* (Gottsche) Limpr.
Dg: RAB Lyc-Cra
- Peltigera canina* (L.) Willd.
Dg: TFG Koe alb
- Peltigera rufescens* (Weiss) Humb.
Dg: TFH Koe gla
- Peplis portula* L.
Dg: MA ISO-JUN, MAA Ele ova, MAB Rad lin,
MAC Ver sup
Dm: MAC Ver sup
- Petasites albus* (L.) Gaertn.
Dg: ADD Ade all, RA MON-CAR, RAA Car rem
Dm: ADD Ade all, RA MON-CAR, RAA Car rem
- Petasites hybridus* (L.) P. Gaertn., B. Mey. & Scherb.
Dg: KA SAL PUR, KAB Sal ela, XD GAL-URT,
XDB Pet hyb
C: XDB Pet hyb
Dm: XD GAL-URT, XDB Pet hyb
- Petasites kablikianus* Tausch ex Bercht.
Dm: XDB Pet hyb
- Petasites spurius* (Retz.) Rchb.
Dg: DAB Agr-Min, DB CAK MAR, DBA Atr lit
C: DAB Agr-Min, DB CAK MAR, DBA Atr lit
- Petrorhagia prolifera* (L.) P.W. Ball & Heywood
Dg: SC THL ROT, TFF Aly-Sed, TFH Koe gla
- Peucedanum cervaria* (L.) Lapeyr.
Dg: LC QUE PUB, THH Ger san
C: THH Ger san
- Peucedanum oreoselinum* (L.) Moench
Dg: LC QUE PUB, LCC Que pet
C: LCC Que pet
- Peucedanum palustre* (L.) Moench
Dg: LA ALN GLU, LAA Aln glu, LAB Sal cin
C: LA ALN GLU, LAA Aln glu, LAB Sal cin
- Phaeoceros laevis* (L.) Prosk.
Dg: MA ISO-JUN, MAB Rad lin
- Phalaris arundinacea* L.
Dg: KA SAL PUR, KAA Sal tri, KAC Sal alb,
MC PHR-CAR, MCD Pha aru
C: KA SAL PUR, KAA Sal tri, KAC Sal alb,
MCD Pha aru, TDJ Ver-Lys, XDA Sen flu
Dm: MC PHR-CAR, MCD Pha aru, MCH Car gra
- Phegopteris connectilis* (Michx.) Watt
Dg: ADE Dry-Ath
- Philonotis caespitosa* Jur.
Dg: RAC Epi-Mon
C: RAC Epi-Mon
- Philonotis fontana* (Hedw.) Brid.
Dg: RAC Epi-Mon
C: RAC Epi-Mon
Dm: RAC Epi-Mon
- Philonotis marchica* (Hedw.) Brid.
Dg: MAC Ver sup
- Philonotis seriata* Mitt.
Dg: RAD Swe-Dic
- Phleum phleoides* (L.) H. Karst.
Dg: TFH Koe gla, TH FES-BRO, THD Fes val,
THG Koe-Phl

C: KBA *Pru fru*, TFH *Koe gla*, THD *Fes val*, THG *Koe-Phl*

Dm: TFH *Koe gla*, THA *Aly-Fes*, THG *Koe-Phl*

Phleum pratense L.

Dg: TD MOL-ARR

Phleum rhaeticum (Humphries) Rauschert

Dg: AD MUL-ACO, ADG *Tri fus*, AE SAL HER, AEB *Fes pic*, TEA *Nar str*

C: ADG *Tri fus*

Phragmites australis (Cav.) Trin. ex Steud.

Dg: MC PHR-CAR, TC FES-PUC

C: MCA *Phr aus*, MCB *Mel-Bol*, MCF *Car-Rum*, TC FES-PUC, TCA *Puc lim*, TCB *Jun ger*

Dm: MC PHR-CAR, MCA *Phr aus*, MCB *Mel-Bol*, MCF *Car-Rum*, TCB *Jun ger*

Phyllitis scolopendrium (L.) Newman

Dg: LBF *Til-Ace*

Phyllophora brodiaei L.

Dg: VE ZOS MAR, VEA *Zos mar*

Phyteuma orbiculare L.

Dg: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*, AEB *Fes pic*, AF CAR-KOB, AFA *Fes ver*

C: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*, AF CAR-KOB, AFA *Fes ver*

Phyteuma spicatum L.

Dg: AD MUL-ACO, ADB *Cal aru*, ADG *Tri fus*, AE SAL HER, AEB *Fes pic*, TDB *Pol-Tri*, TEB *Nar-Agr*

C: ADB *Cal aru*, ADG *Tri fus*, AEB *Fes pic*, TDB *Pol-Tri*, TEB *Nar-Agr*

Picea abies (L.) H.Karst.

Dg: KC ROS-PIN, LE ERI-PIN, LEA *Pul-Pin*, LF VAC-PIC, LFC *Pic abi*

C: ADC *Sal sil*, KC ROS-PIN, KCA *Pin mug*, LBE *Luz-Fag*, LE ERI-PIN, LEA *Pul-Pin*, LF VAC-PIC, LFB *Dic-Pin*, LFC *Pic abi*

Dm: LBE *Luz-Fag*, LF VAC-PIC, LFC *Pic abi*

Picris hieracioides L.

Dg: SC THL ROT, TEB *Nar-Agr*

Pilaiella littoralis (L.) Kjellm.

Dg: VCC *Cha can*, VE ZOS MAR, VEA *Zos mar*

Dm: VE ZOS MAR, VEA *Zos mar*

Pilularia globulifera L.

Dg: VDB *Ele aci*

Pimpinella major (L.) Huds.

Dg: ADF *Cal var*, LE ERI-PIN, LEA *Pul-Pin*,

C: ADF *Cal var*, LE ERI-PIN, LEA *Pul-Pin*

Pimpinella saxifraga L.

Dg: TH FES-BRO, TI VIO CAL

C: ACA *Ses tat*, ADF *Cal var*, TDA *Arr ela*, TEC *Vio can*, TH FES-BRO, THB *Bro-Fes*, THE *Cir-Bra*, THF *Bro ere*, THG *Koe-Phl*, THI *Tri med*, TI VIO CAL, TIA *Arm hal*

Pinguicula alpina L.

Dg: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*

Pinguicula vulgaris L.

Dg: RB SCH-CAR, RBA *Car dav*, RBB *Sph-Tom*

Pinus mugo Turra

Dg: ADC *Sal sil*, KC ROS-PIN, KCA *Pin mug*

C: ADC *Sal sil*, KC ROS-PIN, KCA *Pin mug*

Dm: ADC *Sal sil*, KC ROS-PIN, KCA *Pin mug*, RCA *Sph mag*

Pinus sylvestris L.

Dg: LE ERI-PIN, LEA *Pul-Pin*, LF VAC-PIC, LFB *Dic-Pin*, LFD *Vac-Pin*, RC OXY-SPH, RCB *Oxy-Eri*

C: KBH *Sal are*, LC QUE PUB, LCA *Que pub*, LDB *Que rob*, LE ERI-PIN, LEA *Pul-Pin*, LF VAC-PIC, LFB *Dic-Pin*, LFD *Vac-Pin*, RC OXY-SPH, RCA *Sph mag*, RCB *Oxy-Eri*, RCC *Oxy-Emp*, TFG *Koe alb*, TI VIO CAL, TIA *Arm hal*

Dm: KBH *Sal are*, LC QUE PUB, LCA *Que pub*, LD QUE ROB, LDA *Gen-Que*, LDB *Que rob*, LE ERI-PIN, LEA *Pul-Pin*, LF VAC-PIC, LFB *Dic-Pin*, LFC *Pic abi*, LFD *Vac-Pin*, RC OXY-SPH, RCA *Sph mag*, TEE *Eup-Cal*

Placidium squamulosum (Ach.) O. Breuss

Dg: TFH *Koe gla*

Plagiochila porelloides (Torrey ex Nees) Lindenb.

Dg: RAB *Lyc-Cra*

Plagiomnium affine s. l.

Dg: THJ *Mel pra*

C: RBB *Sph-Tom*, THJ *Mel pra*

Plagiomnium undulatum (Hedw.) T.J. Kop

Dg: LA ALN GLU, RA MON-CAR

Plagiopus oederiana (Sw.) Limpr.

Dg: AC ELY-SES, ACA *Ses tat*

Plagiothecium curvifolium Schlieph. ex Limpr.

Dg: LF VAC-PIC, LFC *Pic abi*

Plagiothecium ruthei Limpr.

Dg: LA ALN GLU

Plantago arenaria Waldst. & Kit.

Dg: XBJ *Sal rut*

C: XBJ *Sal rut*

Plantago intermedia Gilib.

Dg: MA ISO-JUN, MAA *Ele ova*, MB *BID TRI*,
TC *FES-PUC*, TCA *Puc lim*

C: MA ISO-JUN, MAA *Ele ova*

Plantago lanceolata L.

Dg: TD MOL-ARR, TDA *Arr ela*, TE CAL-ULI,
TEC *Vio can*

C: KAB *Sal ela*, TD MOL-ARR, TDA *Arr ela*,
TDB *Pol-Tri*, TDC *Cyn cri*, TDH *Alo pra*, TEC
Vio can, TFC *Arm elo*, TFD *Hyp-Scl*, THF *Bro*
ere, XCA *Ono aca*

Plantago major s. l.

Dg: TDC *Cyn cri*, XA POL-POË, XAA *Cor-Pol*,
XAB *Sag pro*

C: TDC *Cyn cri*, XA POL-POË, XAA *Cor-Pol*,
XAB *Sag pro*

Plantago maritima L.

Dg: TC *FES-PUC*, TCA *Puc lim*

Plantago media L.

Dg: TH *FES-BRO*, THE *Cir-Bra*, THF *Bro ere*

C: THE *Cir-Bra*, THF *Bro ere*

Platanthera bifolia (L.) Rich.

Dg: LC *QUE PUB*

Platismatia glauca (L.) W.L. Culb. & C.F. Culb.

Dg: DA AMM ARE, DAA *Amm are*

Pleurochaete squarrosa (Brid.) Lindb

Dg: THD *Fes val*

Pleurozium schreberi (Willd ex Brid.) Mitt.

Dg: LF VAC-PIC, LFB *Dic-Pin*, LFD *Vac-Pin*,
THJ *Mel pra*

C: KBH *Sal are*, LF VAC-PIC, LFB *Dic-Pin*,
LFD *Vac-Pin*, TEF *Gen-Vac*, THJ *Mel pra*

Dm: LDA *Gen-Que*, LF VAC-PIC, LFB *Dic-Pin*,
LFD *Vac-Pin*, TE CAL-ULI, TEE *Eup-Cal*, TEF
Gen-Vac, THJ *Mel pra*

Poa alpina L.

Dg: AC ELY-SES, ACA *Ses tat*

Poa annua s. l.

Dg: XA POL-POË, XAA *Cor-Pol*, XAB *Sag pro*

C: XA POL-POË, XAA *Cor-Pol*, XAB *Sag pro*

Dm: XA POL-POË, XAB *Sag pro*

Poa chaixii Vill.

Dg: AD MUL-ACO, ADB *Cal aru*, ADG *Tri fus*,
TEB *Nar-Agr*

C: TEB *Nar-Agr*

Poa compressa L.

C: THA *Aly-Fes*

Dm: LE ERI-PIN, LEA *Pul-Pin*, XCB *Dau-Mel*

Poa laxa Haenke

Dg: AA LOI-VAC, AAA *Loi-Vac*

Poa nemoralis L.

Dg: LBD *Sor-Fag*, LC *QUE PUB*, LD *QUE ROB*,
SA *ASP TRI*

C: ADF *Cal var*, LBB *Car bet*, LBD *Sor-Fag*, LC
QUE PUB, LCC *Que pet*, LDA *Gen-Que*, SAC
Asp sep

Poa pratensis s. l.

Dg: TH *FES-BRO*, THJ *Mel pra*

C: KBH *Sal are*, LC *QUE PUB*, LCA *Que pub*,
LCC *Que pet*, TDA *Arr ela*, TDI *Cni ven*, TDH
Alo pra, TFC *Arm elo*, TFG *Koe alb*, TFH *Koe*
gla, TH *FES-BRO*, THD *Fes val*, THF *Bro ere*,
THG *Koe-Phl*, THH *Ger san*, THI *Tri med*, THJ
Mel pra, XCC *Con-Ely*

Poa subcaerulea Sm.

Dg: TC *FES-PUC*, TCB *Jun ger*

- Poa trivialis* L.
Dg: KA SAL PUR
C: KA SAL PUR, KAC *Sal alb*, TDH *Alo pra*, XEB *Fra ves*
- Pogonatum urnigerum* (Hedw.) P. Beauv.
Dg: AE SAL HER, AEA *Sal her*
C: AEA *Sal her*
- Pohlia annotina* (Hedw.) Lindb
Dg: MAB *Rad lin*
- Pohlia melanodon* (Brid.) A.J. Shaw
Dg: MA ISO-JUN
- Pohlia nutans* (Hedw.) Lindb
Dg: DA AMM ARE, DAC *Jun bal*
C: DAC *Jun bal*
Dm: DAC *Jun bal*
- Pohlia wahlenbergii* (F. Weber & D. Mohr)
Dg: RAD *Swe-Dic*, RBA *Car dav*
- Polygala amara* L. subsp. *brachyptera* (Chodat) Hayek
Dg: AC ELY-SES, ACA *Ses tat*, LE ERI-PIN, LEA *Pul-Pin*
C: ACA *Ses tat*
- Polygala comosa* Schkuhr
Dg: THB *Bro-Fes*, THF *Bro ere*
- Polygala vulgaris* s. l.
Dg: TE CAL-ULI, TEC *Vio can*
C: TEC *Vio can*
- Polygonatum multiflorum* (L.) All.
Dg: LB CAR-FAG, LBB *Car bet*, LBF *Til-Ace*
- Polygonatum odoratum* (Mill.) Druce
Dg: LC QUE PUB, LCC *Que pet*, LE ERI-PIN, THB *Bro-Fes*, THC *Dia-Ses*
C: LC QUE PUB, LCC *Que pet*, THB *Bro-Fes*
- Polygonatum verticillatum* (L.) All.
Dg: AD MUL-ACO, ADC *Sal sil*, ADD *Ade all*
- Polygonum amphibium* s. l.
Dg: MC PHR-CAR
- Polygonum aviculare* agg.
Dg: XA POL-POË, XAA *Cor-Pol*, XB STE MED, XBL *Lol-Lin*
C: XA POL-POË, XAA *Cor-Pol*, XBA *Caucal*, XBE *Oxa fon*, XBI *Mal neg*, XBL *Lol-Lin*
Dm: XAA *Cor-Pol*
- Polygonum bistorta* L.
Dg: AB JUN TRI, ABB *Nar-Car*, AF CAR-KOB, AFA *Fes ver*,
C: AB JUN TRI, ABA *Jun tri*, ABB *Nar-Car*, ADC *Sal sil*, AEB *Fes pic*, AF CAR-KOB, AFA *Fes ver*
- Polygonum hydropiper* L.
Dg: MA ISO-JUN, MAC *Ver sup*, MB BID TRI, MBA *Bid tri*
C: MAC *Ver sup*, MB BID TRI, MBA *Bid tri*
Dm: MB BID TRI, MBA *Bid tri*
- Polygonum lapathifolium* s. l.
Dg: MB BID TRI, MBB *Che rub*, XB STE MED, XBL *Lol-Lin*
C: MB BID TRI, MBA *Bid tri*, MBB *Che rub*, XBE *Oxa fon*, XBL *Lol-Lin*
Dm: MBA *Bid tri*
- Polygonum minus* Huds.
Dg: MB BID TRI, MBA *Bid tri*
- Polygonum mite* Schrank
Dg: MB BID TRI, MBA *Bid tri*
- Polygonum persicaria* L.
Dg: MA ISO-JUN, MB BID TRI, XB STE MED, XBL *Lol-Lin*
C: XBL *Lol-Lin*
- Polygonum viviparum* L.
Dg: AC ELY-SES, ACB *Car fir*
C: ACB *Car fir*
- Polypodium vulgare* L.
Dg: KBH *Sal are*, SA ASP TRI, SAB *Asp cun*, SAC *Asp sep*
C: KBH *Sal are*, SA ASP TRI, SAB *Asp cun*, SAC *Asp sep*
Dm: SAC *Asp sep*
- Polysiphonia nigrescens* (Huds.) Grev. ex Harv.
Dg: VCC *Cha can*, VE ZOS MAR, VEA *Zos mar*

C: VE ZOS MAR, VEA *Zos mar*

Polysiphonia violacea (Roth) Spreng.

Dg: VE ZOS MAR, VEA *Zos mar*

Polystichum aculeatum (L.) Roth

Dg: LBF *Til-Ace*

Polystichum lonchitis (L.) Roth

Dg: ADC *Sal sil*

Polytrichastrum alpinum (Hedwig) G.L. Smith, Mem.

Dg: AA LOI-VAC, AAA *Loi-Vac*, AF CAR-KOB, AFA *Fes ver*

C: AA LOI-VAC, AAA *Loi-Vac*, AF CAR-KOB, AFA *Fes ver*

Dm: AA LOI-VAC, AAA *Loi-Vac*

Polytrichastrum formosum s. l.

Dg: LBE *Luz-Fag*, LD *QUE ROB*, LF *VAC-PIC*, LFC *Pic abi*

C: LBE *Luz-Fag*, LFC *Pic abi*

Dm: LFC *Pic abi*

Polytrichastrum pallidisetum (Hedwig) G.L. Sm., Mem.

Dg: AE SAL *HER*, AEA *Sal her*

Polytrichum commune Hedw.

Dg: DAC *Jun bal*, LFD *Vac-Pin*

C: DAC *Jun bal*, LFD *Vac-Pin*

Dm: DA *AMM ARE*, DAC *Jun bal*

Polytrichum juniperinum Hedw.

Dg: TEE *Eup-Cal*

Polytrichum piliferum Hedw.

Dg: AA LOI-VAC, ABA *Jun tri*, TF *KOE-COR*, TFA *Cor can*, TFB *The-Air*

C: ABA *Jun tri*, TFA *Cor can*

Polytrichum strictum Menzies ex Bird.

Dg: RC *OXY-SPH*, RCA *Sph mag*, RCB *Oxy-Eri*, RCC *Oxy-Emp*

C: RCA *Sph mag*

Populus alba L.

Dg: KAC *Sal alb*

Populus nigra L.

Dg: KA SAL *PUR*, KAC *Sal alb*

Dm: KA SAL *PUR*, KAC *Sal alb*

Populus tremula L.

Dg: KBH *Sal are*

C: KBH *Sal are*

Populus xcanadensis Moench

Dg: TDJ *Vér-Lys*

Portulaca oleracea L.

Dg: XBK *Era cil*

Potamogeton alpinus Balb.

Dg: VBB *Potami*

Potamogeton crispus L.

Dg: VB *POTAME*, VBA *Nym alb*, VBB *Potami*

Potamogeton gramineus L.

Dg: VCA *Nit fle*

Potamogeton lucens L.

Dg: VB *POTAME*, VBB *Potami*, VC *CHARET*, VCB *Cha glo*

Dm: VB *POTAME*, VBB *Potami*

Potamogeton natans L.

Dg: VB *POTAME*, VBA *Nym alb*, VBC *Bat flu*, VC *CHARET*, VCA *Nit fle*

Dm: VB *POTAME*, VBB *Potami*

Potamogeton nodosus Poir.

Dg: VBC *Bat flu*

C: VBC *Bat flu*

Dm: VBC *Bat flu*

Potamogeton obtusifolius Mert. & W.D.J. Koch

Dm: VBB *Potami*

Potamogeton pectinatus L.

Dg: VCC *Cha can*, VE ZOS MAR, VEA *Zos mar*

Potamogeton perfoliatus L.

Dg: VB *POTAME*, VDA *Lit uni*

Dm: VDA *Lit uni*

Potamogeton praelongus Wulfen

Dg: VDA *Lit uni*

Potamogeton pusillus agg.

Dg: VBB *Potami*

Potamogeton rutilus Wolfg.

Dg: VAB *Utr vul*

Dm: VAB *Utr vul*

Potentilla alba L.

Dg: LC *QUE PUB*, LCC *Que pet*

Potentilla anserina L.

Dg: TC *FES-PUC*, TCB *Jun ger*

C: MAC *Ver sup*, TC *FES-PUC*, TCB *Jun ger*, TDK *Pot ans*

Dm: TC *FES-PUC*, TCB *Jun ger*, TDK *Pot ans*, XAB *Sag pro*

Potentilla arenaria Borkh.

Dg: TH *FES-BRO*, THD *Fes val*, THG *Koe-Phl*, TI *VIO CAL*

C: THD *Fes val*, THG *Koe-Phl*, TI *VIO CAL*, TIA *Arm hal*

Potentilla argentea L.

Dg: TF *KOE-COR*, TFD *Hyp-Scl*, TFE *Ara tha*, XCA *Ono aca*

C: TFE *Ara tha*, XCA *Ono aca*

Potentilla aurea L.

Dg: AA *LOI-VAC*, AB *JUN TRI*, ACB *Car fir*, AE *SAL HER*, AEA *Sal her*, AEB *Fes pic*, TEA *Nar str*, TEB *Nar-Agr*

C: ACB *Car fir*, AE *SAL HER*, AEA *Sal her*, AEB *Fes pic*, TEA *Nar str*, TEB *Nar-Agr*

Potentilla collina Wibel

Dg: SC *THL ROT*, SCA *Sti cal*

Potentilla crantzii (Crantz) Beck ex Fritsch

Dg: AC *ELY-SES*, ACB *Car fir*

C: ACB *Car fir*

Potentilla erecta (L.) Raeusch.

Dg: RB *SCH-CAR*, RBA *Car dav*, TE *CAL-ULI*, TEB *Nar-Agr*, TEC *Vio can*, TED *Nar-Jun*

C: ADB *Cal aru*, ADG *Tri fus*, RBA *Car dav*, RBB *Sph-Tom*, TDB *Pol-Tri*, TDD *Mol cae*, TE *CAL-ULI*, TEB *Nar-Agr*, TEC *Vio can*, TED *Nar-Jun*, TEF *Gen-Vac*

Potentilla heptaphylla L.

Dg: THF *Bro ere*

Potentilla neummanniana Rchb.

Dg: TFF *Aly-Sed*

Potentilla pusilla Host

Dg: THA *Aly-Fes*, THB *Bro-Fes*

Potentilla reptans L.

Dg: TDI *Cni ven*

C: TDI *Cni ven*

Potentilla supina L.

Dg: MA *ISO-JUN*, MAA *Ele ova*, MBB *Che rub*

Prenanthes purpurea L.

Dg: ADC *Sal sil*

Primula auricula L.

Dg: AC *ELY-SES*, ACA *Ses tat*

C: AC *ELY-SES*, ACA *Ses tat*

Primula elatior (L.) Hill

Dg: ADD *Ade all*, AE *SAL HER*, AEB *Fes pic*

C: ADD *Ade all*, AEB *Fes pic*

Primula minima L.

Dg: AC *ELY-SES*, ACB *Car fir*

C: ACB *Car fir*

Primula veris L.

Dg: LC *QUE PUB*

Prunella grandiflora (L.) Scholler

Dg: TH *FES-BRO*, THE *Cir-Bra*, THH *Ger san*

Prunella vulgaris L.

Dg: RBA *Car dav*

C: KAB *Sal ela*, RBA *Car dav*

Prunus cerasifera Ehrh.

Dg: KD *ROBINI*, KDA *Che-Rob*

Prunus serotina (Ehrh.) Borkh.

Dg: KAB *Sal ela*

Prunus spinosa L.

Dg: KB *RHA-PRU*, KBB *Ber vul*, LCA *Que pub*

C: KBB *Ber vul*, LCA *Que pub*, THH *Ger san*

Dm: KB *RHA-PRU*, KBB *Ber vul*

Pseudoleskea incurvata (Hedw.) Loeske

Dg: AE SAL HER, AEB *Fes pic*

Pseudorchis albida (L.) Á. Löve & D. Löve

Dg: AC ELY-SES, ACB *Car fir*

Pseudoscleropodium purum (Hedw.) M. Fleisch.
ex Broth

Dg: KBH *Sal are*, THJ *Mel pra*

C: KBH *Sal are*, THJ *Mel pra*

Dm: KBH *Sal are*

Psora decipiens (Hedw.) Hoffm.

Dg: TFH *Koe gla*

Pteridium aquilinum (L.) Kuhn

Dg: LC QUE PUB, LCC *Que pet*, LD QUE ROB,
LDA *Gen-Que*, LDB *Que rob*, XE EPI ANG,
XEA *Epi ang*

C: LD QUE ROB, LDB *Que rob*

Dm: LD QUE ROB, LDB *Que rob*, XE EPI
ANG, XEA *Epi ang*

Pterygoneurum subsessile (Brid.) Jur.

Dg: THD *Fes val*

Ptilidium pulcherrimum (Weber) Vain

Dg: AB JUN TRI, ABB *Nar-Car*

Puccinellia distans (Jacq.) Parl.

Dg: TB THE-SAL, TBA *Sal pro*, TC FES-PUC,
TCA *Puc lim*

C: TB THE-SAL, TBA *Sal pro*, TC FES-PUC,
TCA *Puc lim*

Dm: TB THE-SAL, TBA *Sal pro*, TC FES-PUC,
TCA *Puc lim*

Pulicaria vulgaris Gaertn.

Dg: MA ISO-JUN, MAC *Ver sup*, MB BID TRI

C: MAC *Ver sup*

Dm: MAC *Ver sup*

Pulmonaria angustifolia L.

Dg: LC QUE PUB, LCC *Que pet*

Pulmonaria officinalis s. l.

Dg: LB CAR-FAG, LBB *Car bet*, LBF *Til-Ace*

C: LBF *Til-Ace*

Pulsatilla alba Rchb.

Dg: AEB *Fes pic*, AF CAR-KOB, AFA *Fes ver*

C: AF CAR-KOB, AFA *Fes ver*

Pyrola chlorantha Sw.

Dg: LBD *Sor-Fag*, THJ *Mel pra*

Pyrus communis L.

Dg: LC QUE PUB, LCA *Que pub*

Pyrus pyrastrer (L.) Burgsd.

Dg: LCA *Que pub*

Quercus petraea (Matt.) Liebl.

Dg: LC QUE PUB, LCC *Que pet*, LD QUE ROB,
LDA *Gen-Que*, THJ *Mel pra*

C: LC QUE PUB, LCC *Que pet*, LD QUE ROB,
LDA *Gen-Que*, THJ *Mel pra*

Dm: LBB *Car bet*, LC QUE PUB, LCC *Que pet*,
LD QUE ROB, LDA *Gen-Que*, LDB *Que rob*

Quercus pubescens Willd.

Dg: LCA *Que pub*

Quercus robur L.

Dg: LC QUE PUB, LCA *Que pub*, LD QUE
ROB, LDB *Que rob*, LF VAC-PIC, THJ *Mel pra*

C: KBC *Sam-Sal*, KBH *Sal are*, LBA *Aln inc*,
LBB *Car bet*, LC QUE PUB, LCA *Que pub*, LCC
Que pet, LD QUE ROB, LDB *Que rob*, LF VAC-
PIC, LFB *Dic-Pin*, LFD *Vac-Pin*, THJ *Mel pra*

Dm: KBC *Sam-Sal*, KBH *Sal are*, LB CAR-FAG,
LBA *Aln inc*, LBB *Car bet*, LC QUE PUB, LCA
Que pub, LCC *Que pet*, LD QUE ROB, LDA
Gen-Que, LDB *Que rob*

Radiola linoides Roth.

Dg: MA ISO-JUN, MAB *Rad lin*

Ranunculus acris L.

Dg: TD MOL-ARR, TDB *Pol-Tri*, TDH *Alo pra*

C: RBA *Car-dav*, RBB *Sph-Tom*, TD MOL-
ARR, TDA *Arr ela*, TDB *Pol-Tri*, TDD *Mol cae*,
TDI *Cni ven*, TDF *Cal pal*, TDH *Alo pra*,
TEB *Nar-Agr*, TEC *Vio can*

Ranunculus alpestris L.

Dg: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*

C: ACB *Car fir*

Ranunculus auricomus agg.

Dg: TD MOL-ARR

Ranunculus bulbosus L.

Dg: SC THL ROT

Ranunculus flammula L.

Dg: VD LIT UNI, VDB Ele aci

Ranunculus oreophilus M. Bieb

Dg: ACB Car fir, AF CAR-KOB, AFA Fes ver

C: AF CAR-KOB, AFA Fes ver

Ranunculus platanifolius L.

Dg: AD MUL-ACO, ADC Sal sil, ADD Ade all, ADE Dry-Ath, AE SAL HER

C: ADC Sal sil, ADD Ade all

Ranunculus polyanthemus s. l.

Dg: LC QUE PUB, LCC Que pet

Ranunculus pseudomontanus Schur

Dg: ABA Jun tri, AC ELY-SES, ACA Ses tat, ACB Car fir

C: AC ELY-SES, ACA Ses tat, ACB Car fir

Ranunculus repens L.

Dg: RA MON-CAR, TD MOL-ARR

C: KAB Sal ela, RAA Car rem, RAC Epi-Mon, TDC Cyn cri, TDI Cni ven, TDF Cal pal, TDG Jun eff, TDH Alo pra, TDK Pot ans, XDF Rum alp, XEB Fra ves

Ranunculus sardous Crantz.

Dg: MAC Ver sup

Ranunculus sceleratus L.

Dg: MA ISO-JUN, MAA Ele ova, MB BID TRI, MBA Bid tri

Raphanus raphanistrum L.

Dg: XB STE MED, XBC Scl ann, XBF Spe-Ero, XBL Lol-Lin

C: XBL Lol-Lin

Reynoutria japonica Houtt.

Dg: XDE Aeg pod

Dm: XDE Aeg pod

Rhamnus cathartica L.

Dg: LC QUE PUB, LCA Que pub, LE ERI-PIN, LEA Pul-Pin

C: LCA Que pub

Rhinanthus alpinus Baumg.

Dg: AE SAL HER, AEB Fes pic

Rhinanthus minor L.

Dg: TI VIO CAL, TIA Arm hal

C: TI VIO CAL, TIA Arm hal

Rhizomnium punctatum s. l.

Dg: RA MON-CAR, RAA Car rem, RAB Lyc-Cra, RAD Swe-Dic

C: RAD Swe-Dic

Rhodiola rosea L.

Dg: AEB Fes pic, AF CAR-KOB, AFA Fes ver

C: AF CAR-KOB, AFA Fes ver

Rhodomela subfusca (Woodward) Agardh

Dg: VE ZOS MAR, VEA Zos mar

Rhynchospora alba (L.) Vahl

Dg: RB SCH-CAR, RBE Sph cus, RC OXY-SPH

C: RBE Sph cus

Dm: RB SCH-CAR, RBE Sph cus

Rhytidiadelphus squarrosus (Hedw.) Warnst.

Dm: AB JUN TRI, ABB Nar-Car, ADC Sal sil

Rhytidiadelphus triquetrus (Hedw.) Warnst.

Dg: AF CAR-KOB, AFA Fes ver

Rhytidium rugosum (Ehrh. ex Hedw.) Kindb.

Dg: THC Dia-Ses

Ribes alpinum L.

Dg: KBH Sal are

C: KBH Sal are

Ribes nigrum L.

Dg: LA ALN GLU, LAA Aln glu

Ribes petraeum Wulfen in Jacq.

Dg: ADC Sal sil, KC ROS-PIN, KCA Pin mug

C: ADC Sal sil

Ribes spicatum s. l.

Dg: KBH Sal are

Riccardia multifida (L.) Gray

Dg: RAB Lyc-Cra

- Riccia cavernosa* Hoffm.
Dg: MAA *Ele ova*, VD *LIT UNI*, VDB *Ele aci*
- Riccia ciliata* Hoffm.
Dg: MAB *Rad lin*
- Riccia fluitans* L. emend. Lorb.
Dg: VA *LEMNET*, VAA *Lem min*
- Riccia glauca* L.
Dg: MA *ISO-JUN*, MAB *Rad lin*
C: MAB *Rad lin*
- Riccia sorocarpa* Bisch.
Dg: MA *ISO-JUN*, MAB *Rad lin*
- Ricciolepis natans* (L.) Corda
Dg: VA *LEMNET*
- Rivularia atra* Roth ex Bornet & Flahault
Dg: VE *ZOS MAR*, VEA *Zos mar*
- Robinia pseudacacia* L.
Dg: KD *ROBINI*, KDA *Che-Rob*
C: KD *ROBINI*, KDA *Che-Rob*
Dm: KD *ROBINI*, KDA *Che-Rob*
- Rorippa amphibia* (L.) Besser
Dg: MB *BID TRI*, MCC *Ele-Sag*
Dm: MCC *Ele-Sag*
- Rorippa palustris* (L.) Besser
Dg: MA *ISO-JUN*, MAA *Ele ova*, MB *BID TRI*,
MBA *Bid tri*
C: MAA *Ele ova*, MBA *Bid tri*
- Rorippa sylvestris* (L.) Besser
Dg: KAB *Sal ela*
- Rosa canina* L.
Dg: KB *RHA-PRU*, KBH *Sal are*, LC *QUE PUB*
C: KBA *Pru fru*, KBB *Ber vul*, KBH *Sal are*
- Rosa pendulina* L.
Dg: ADC *Sal sil*
- Rosa rubiginosa* s. l.
Dg: SC *THL ROT*
- Rosa rugosa* Thunb.
Dg: TFG *Koe alb*
- Rosa sherardii* Davies
Dg: LCA *Que pub*
- Rubus caesius* L.
Dg: KA *SAL PUR*, KAA *Sal tri*, KAC *Sal alb*
C: KA *SAL PUR*, KAA *Sal tri*, KAC *Sal alb*,
KBH *Sal are*, LCA *Que pub*
Dm: KAC *Sal alb*
- Rubus fruticosus* agg.
Dg: LD *QUE ROB*, LDB *Que rob*
C: LDB *Que rob*
- Rubus idaeus* L.
Dg: ADC *Sal sil*, KC *ROS-PIN*, XE *EPI ANG*
C: ADB *Cal aru*, ADC *Sal sil*, ADD *Ade all*,
ADE *Dry-Ath*, KBC *Sam-Sal*, KC *ROS-PIN*,
KCA *Pin mug*, XE *EPI ANG*, XEA *Epi ang*
Dm: ADA *Cal vil*, TEB *Nar-Agr*
- Rubus saxatilis* L.
Dg: ADF *Cal var*, LC *QUE PUB*, LCA *Que pub*,
LE *ERI-PIN*, LEA *Pul-Pin*
- Rumex acetosa* L.
Dg: TD *MOL-ARR*, TDB *Pol-Tri*, TDH *Alo pra*,
TE *CAL-ULI*
C: RAC *Epi-Mon*, TD *MOL-ARR*, TDA *Arr ela*,
TDB *Pol-Tri*, TDD *Mol cae*, TDI *Cni ven*, TDF
Cal pal, TDH *Alo pra*, TEB *Nar-Agr*, TEC *Vio*
can
- Rumex acetosella* s. l.
Dg: TF *KOE-COR*, TFB *The-Air*, XBD *Arn min*,
XBL *Lol-Lin*
C: TEE *Eup-Cal*, TF *KOE-COR*, TFA *Cor can*,
TFB *The-Air*, TFC *Arm elo*, TFD *Hyp-Scl*, TFE
Ara tha, TFG *Koe alb*, XBD *Arn min*, XBL *Lol-*
Lin
- Rumex alpestris* Jacq.
Dg: AD *MUL-ACO*, ADC *Sal sil*, ADE *Dry-Ath*,
AE *SAL HER*, AEB *Fes pic*, XDF *Rum alp*
C: ADC *Sal sil*, ADE *Dry-Ath*, ADG *Tri fus*,
AEB *Fes pic*, XDF *Rum alp*
- Rumex alpinus* L.
Dg: XDF *Rum alp*
C: XDF *Rum alp*
Dm: XDF *Rum alp*

Rumex hydrolapathum Huds.

Dg: MC PHR-CAR

Rumex maritimus L.

Dg: MA ISO-JUN, MAA *Ele ova*, MB BID TRI,

MBA *Bid tri*, MBB *Che rub*

C: MAA *Ele ova*

Dm: MB BID TRI, MBA *Bid tri*, MBB *Che rub*

Rumex obtusifolius L.

Dg: KAB *Sal ela*

Rumex palustris Sm.

Dg: TDJ *Ver-Lys*

Rumex scutatus L.

Dg: ADF *Cal var*, LE ERI-PIN, LEA *Pul-Pin*

Rumex thyrsiflorus Fingerh.

Dg: TI VIO CAL, TIA *Arm hal*

C: TI VIO CAL, TIA *Arm hal*

Sagina procumbens L.

Dg: MA ISO-JUN, MAB *Rad lin*

Salicornia europaea L.

Dg: TB THE-SAL, TBA *Sal pro*

C: TB THE-SAL, TBA *Sal pro*

Dm: TB THE-SAL, TBA *Sal pro*, TCA *Puc lim*

Salix alba L.

Dg: KA SAL PUR, KAA *Sal tri*, KAC *Sal alb*

C: KAC *Sal alb*

Dm: KA SAL PUR, KAC *Sal alb*

Salix alpina Scop.

Dg: AC ELY-SES, ACB *Car fir*

C: ACB *Car fir*

Salix aurita L.

Dg: DAC *Jun bal*

Salix caprea L.

Dg: KBH *Sal are*

Salix cinerea L.

Dg: LA ALN GLU, LAB *Sal cin*

C: LA ALN GLU, LAB *Sal cin*

Dm: LA ALN GLU, LAB *Sal cin*

Salix fragilis L.

Dg: KA SAL PUR, KAA *Sal tri*, KAC *Sal alb*

C: KA SAL PUR, KAA *Sal tri*, KAC *Sal alb*

Dm: KA SAL PUR, KAA *Sal tri*, KAC *Sal alb*

Salix herbacea L.

Dg: ABA *Jun tri*, AEA *Sal her*

Salix lapponum L.

Dg: RAD *Swe-Dic*

Salix pentandra L.

Dg: LA ALN GLU, LAB *Sal cin*

Salix purpurea L.

Dg: KA SAL PUR, KAA *Sal tri*, KAB *Sal ela*

C: KAA *Sal tri*, KAB *Sal ela*

Dm: KAA *Sal tri*

Salix repens s. l.

Dg: DA AMM ARE, DAC *Jun bal*

C: DAC *Jun bal*

Salix reticulata L.

Dg: AC ELY-SES, ACB *Car fir*

C: ACB *Car fir*

Salix retusa L.

Dg: AC ELY-SES, ACB *Car fir*

Salix silesiaca Willd.

Dg: ADC *Sal sil*, AF CAR-KOB, AFA *Fes ver*,

KC ROS-PIN, KCA *Pin mug*, LE ERI-PIN, LEA *Pul-Pin*

C: ADC *Sal sil*, AF CAR-KOB, AFA *Fes ver*, KC ROS-PIN, KCA *Pin mug*

Salix triandra L.

Dg: KA SAL PUR, KAA *Sal tri*

C: KAA *Sal tri*

Dm: KA SAL PUR, KAA *Sal tri*

Salix viminalis L.

Dg: KA SAL PUR, KAA *Sal tri*

C: KAA *Sal tri*

Dm: KAA *Sal tri*

Salsola kali L.

Dg: DB CAK MAR, DBA *Atr lit*, XBJ *Sal rut*

C: DB CAK MAR, DBA *Atr lit*

Salvia pratensis L.

Dg: KBA *Pru fru*, TH *FES-BRO*, THD *Fes val*,
THE *Cir-Bra*, THG *Koe-Phl*, THH *Ger san*

C: KBA *Pru fru*, THD *Fes val*, THE *Cir-Bra*,
THG *Koe-Phl*, THH *Ger san*

Salvia verticillata L.

Dg: ADF *Cal var*, LE *ERI-PIN*, LEA *Pul-Pin*, SC
THL ROT, THB *Bro-Fes*, THE *Cir-Bra*

C: ADF *Cal var*, THB *Bro-Fes*, THE *Cir-Bra*

Salvinia natans (L.) All.

Dg: VA *LEMNET*, VAA *Lem min*, VAC *Hyd
mor*

Dm: VA *LEMNET*, VAA *Lem min*

Sambucus ebulus L.

Dg: KAB *Sal ela*

Sambucus nigra L.

Dg: KB *RHA-PRU*, KBD *Aeg-Sam*, KD *ROBI-
NI*, KDA *Che-Rob*

C: KBD *Aeg-Sam*, KD *ROBINI*, KDA *Che-Rob*

Dm: KB *RHA-PRU*, KBD *Aeg-Sam*, KD *ROBI-
NI*, KDA *Che-Rob*

Sambucus racemosa L.

Dg: SB *CYM-PAR*

Sanguisorba minor Scop.

Dg: LE *ERI-PIN*, SC *THL ROT*, TH *FES-BRO*,
THB *Bro-Fes*, THF *Bro ere*

C: THB *Bro-Fes*, THE *Cir-Bra*, THF *Bro ere*

Sanguisorba officinalis L.

Dg: TD *MOL-ARR*, TDD *Mol cae*, TDI *Cni ven*

C: TDD *Mol cae*, TDI *Cni ven*

Sanicula europaea L.

Dg: LB *CAR-FAG*, LBC *Fag syl*, LBD *Sor-Fag*

Sanionia uncinata (Hedw.) Loeske

Dg: AE *SAL HER*, AEA *Sal her*

Saxifraga adscendens L.

Dg: ADF *Cal var*

Saxifraga aizoides L.

Dg: AC *ELY-SES*, ACB *Car fir*

C: ACB *Car fir*

Saxifraga caesia L.

Dg: AC *ELY-SES*, ACB *Car fir*

Saxifraga paniculata Mill.

Dg: AC *ELY-SES*, ACA *Ses tat*, AF *CAR-KOB*,
AFA *Fes ver*, THC *Dia-Ses*

C: AF *CAR-KOB*, AFA *Fes ver*, THC *Dia-Ses*

Saxifraga tridactylites L.

Dg: TFE *Ara tha*

Scabiosa canescens Waldst. & Kit

Dg: THD *Fes val*

Scabiosa columbaria L.

Dg: SC *THL ROT*

Scabiosa lucida Vill.

Dg: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*, LE
ERI-PIN, THB *Bro-Fes*

C: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*

Scabiosa ochroleuca L.

Dg: SCTHL *ROT*, TH *FES-BRO*, THA *Aly-Fes*,
THB *Bro-Fes*, THE *Cir-Bra*, THF *Bro ere*, TI
VIO CAL

C: THA *Aly-Fes*, THB *Bro-Fes*, THE *Cir-Bra*,
THF *Bro ere*, TI *VIO CAL*, TIA *Arm hal*

Scapania nemorea (L.) Grolle

Dg: RAC *Epi-Mon*

C: RAC *Epi-Mon*

Scapania parvifolia Warnst.

Dg: AA *LOI-VAC*, AAA *Loi-Vac*

Scapania subalpina (Nees ex Lindenb.) Dumort.

Dg: RAD *Swe-Dic*

Scapania uliginosa (Sw. ex Lindenb.) Dumort.

Dg: RAD *Swe-Dic*

C: RAD *Swe-Dic*

Scapania undulata (L.) Dumort

Dg: RA *MON-CAR*

Scheuchzeria palustris L.

Dg: RBE *Sph cus*

Dm: RBE *Sph cus*

Schoenoplectus lacustris (L.) Palla

Dg: VAB *Utr vul*

Dm: MCA *Phr aus*

Schoenoplectus tabernaemontani (C.C. Gmel.)
Palla

Dg: MCB *Mel-Bol*, TC *FES-PUC*, TCB *Jun ger*

C: MCB *Mel-Bol*

Schoenus nigricans L.

Dg: RBA *Car dav*

Scilla bifolia L.

Dg: ADB *Cal aru*

Scirpus radicans Schkuhr

Dg: MCC *Ele-Sag*

Dm: MCC *Ele-Sag*

Scirpus sylvaticus L.

Dg: LA *ALN GLU*, TDF *Cal pal*

C: RAC *Epi-Mon*, TDF *Cal pal*

Dm: TDF *Cal pal*

Sciuro-hypnum oedipodium (Mitt.) Ignatov &
Huttunen

Dg: THJ *Mel pra*

Sciuro-hypnum populeum (Hedw.) Ignatov &
Huttunen

Dg: SB *CYM-PAR*

Scleranthus annuus L.

Dg: XB *STE MED*, XBC *Scl ann*, XBD *Arn min*,
XBL *Lol-Lin*

C: XBD *Arn min*, XBL *Lol-Lin*

Scleranthus perennis L.

Dg: TF *KOE-COR*, TFA *Cor can*, TFE *Ara tha*

Scleranthus polycarpus L.

Dg: TF *KOE-COR*, TFB *The-Air*

Scorpidium scorpioides (Hedw.) Limpr.

Dg: VD *LIT UNI*, VDC *Sph-Utr*

Dm: VD *LIT UNI*, VDC *Sph-Utr*

Scorzonera humilis L.

Dg: LC *QUE PUB*, LCC *Que pet*

Scutellaria galericulata L.

Dg: LA *ALN GLU*, LAA *Aln glu*

C: LA *ALN GLU*, LAA *Aln glu*

Scutellaria hastifolia L.

Dg: TDI *Cni ven*

Sedum acre L.

Dg: TF *KOE-COR*, TFE *Ara tha*, TFF *Aly-Sed*,
TFG *Koe alb*, TFH *Koe gla*

C: TFC *Arm elo*, TFE *Ara tha*, TFF *Aly-Sed*,
TFG *Koe alb*, TFH *Koe gla*, THA *Aly-Fes*, THB
Bro-Fes

Dm: TFF *Aly-Sed*, TFH *Koe gla*

Sedum album L.

Dg: SAB *Asp cun*, SB *CYM-PAR*

Sedum alpestre Vill.

Dg: AE *SAL HER*, AEA *Sal her*, AEB *Fes pic*

C: AEA *Sal her*

Sedum fabaria W.D.J. Koch

Dg: AD *MUL-ACO*, ADC *Sal sil*, KC *ROS-PIN*

Sedum maximum (L.) Hoffm.

Dg: LC *QUE PUB*, LCC *Que pet*

C: LC *QUE PUB*, LCC *Que pet*

Sedum reflexum L.

Dg: TFH *Koe gla*

Sedum sexangulare L.

Dg: SC *THL ROT*, TF *KOE-COR*, TFF *Aly-Sed*,
TFH *Koe gla*,

Sedum spurium M. Bieb.

Dg: T *HC Dia-Ses*

Selaginella selaginoides (L.) P. Beauv. ex Schrank
& Mart.

Dg: AC *ELY-SES*, ACB *Car fir*, AF *CAR-KOB*,
AFA *Fes ver*

C: AC *ELY-SES*, ACB *Car fir*

Selinum carvifolia (L.) L.

Dg: TD *MOL-ARR*, TDD *Mol cae*

C: TDD *Mol cae*

Sempervivum tectorum L.

Dg: SC *THL ROT*, SCA *Sti cal*

Senecio carniolicus Willd.

Dg: AA LOI-VAC, AAA *Loi-Vac*, AB JUN TRI, ABA *Jun tri*

C: ABA *Jun tri*

Senecio fluviatilis Wallr.

Dg: KA SAL PUR, KAA *Sal tri*

Senecio nemorensis agg.

C: ADC *Sal sil*

Senecio subalpinus W.D.J. Koch

Dg: AD MUL-ACO, ADG *Tri fus*

C: ADG *Tri fus*

Senecio vernalis Waldst. & Kit

Dg: TFH *Koe gla*

Serratula tinctoria L.

Dg: LC QUE PUB, LCC *Que pet*, TDD *Mol cae*, TDI *Cni ven*

C: LCC *Que pet*

Seseli annuum L.

Dg: TH FES-BRO, THF *Bro ere*

C: THF *Bro ere*

Sesleria tatrae (Degen) Deyl

Dg: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*

C: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*

Sesleria varia (Jacq.) Wettst.

Dg: LE ERI-PIN, LEA *Pul-Pin*, THC *Dia-Ses*

C: THC *Dia-Ses*

Dm: AC ELY-SES, LE ERI-PIN, LEA *Pul-Pin*, THC *Dia-Ses*

Setaria pumila (Poir.) Roem. & Schult.

Dg: XB STE MED, XBF *Spe-Ero*, XBL *Lol-Lin*

C: XBF *Spe-Ero*, XBL *Lol-Lin*

Setaria viridis (L.) P. Beauv.

Dg: XB STE MED, XBF *Spe-Ero*, XBJ *Sal rut*, XBK *Era cil*

C: XBF *Spe-Ero*

Sherardia arvensis L.

Dg: XBA *Caucal*

Sibbaldia procumbens L.

Dg: AE SAL HER, AEA *Sal her*

Silaum silaus (L.) Schinz & Thell.

Dg: TDD *Mol cae*, TDI *Cni ven*

Silene acaulis (L.) Jacq.

Dg: AC ELY-SES, ACB *Car fir*

C: ACB *Car fir*

Silene chlorantha (Willd.) Ehrh.

Dg: TFH *Koe gla*

Silene nemoralis Waldst. & Kit.

Dg: ADF *Cal var*, LE ERI-PIN, THB *Bro-Fes*, THC *Dia-Ses*

Silene nutans L.

Dg: LC QUE PUB, LCC *Que pet*, THA *Aly-Fes*

C: LC QUE PUB, LCC *Que pet*

Silene otites s. l.

Dg: TF KOE-COR, TFH *Koe gla*

C: TFH *Koe gla*

Silene vulgaris (Moench) Garcke

Dg: SAB *Asp cun*, TI VIO CAL, TIA *Arm hal*

C: SAB *Asp cun*, TI VIO CAL, TIA *Arm hal*

Sinapis arvensis L.

Dg: XB STE MED, XBA *Caucal*, XBB *Ver-Eup*, XBE *Oxa fon*

C: XBA *Caucal*, XBB *Ver-Eup*

Sisymbrium altissimum L.

Dg: XBJ *Sal rut*

Sisymbrium loeselii L.

Dg: KD ROBINI, KDA *Che-Rob*

Sisymbrium officinale (L.) Scop.

Dg: XBG *Atrpli*, XBI *Mal neg*

C: XBI *Mal neg*

Sium latifolium L.

Dg: VBD *Ran aqu*

Solanum dulcamara L.

Dg: KA SAL PUR, KAA *Sal tri*, LA ALN GLU, LAA *Aln glu*, LAB *Sal cin*

C: LA ALN GLU, LAA *Aln glu*, LAB *Sal cin*

Soldanella carpatica Vierh.

Dg: AA LOI-VAC, AC ELY-SES, ACB Car fir, AE SAL HER, AEB Fes pic, AF CAR-KOB, AFA Fes ver

C: ACB Car fir, AE SAL HER, AEB Fes pic, AF CAR-KOB, AFA Fes ver

Solidago alpestris Waldst. & Kit.

Dg: ADB Cal aru

Solidago canadensis s. l.

Dg: KD ROBINI, KDA Che-Rob

Solidago gigantea Aiton

Dg: KD ROBINI

Dm: KAA Sal tri, XCB Dau-Mel

Solidago virgaurea

Dg: AA LOI-VAC, AE SAL HER, AEB Fes pic, AF CAR-KOB, AFA Fes ver, LC QUE PUB

C: AA LOI-VAC, AAA Loi-Vac, ADC Sal sil, AE SAL HER, AEB Fes pic, AF CAR-KOB, AFA Fes ver, KBH Sal are, LC QUE PUB, LCC Que pet, TFG Koe alb

Sonchus arvensis L.

Dg: XB STE MED, XBB Ver-Eup

C: XBB Ver-Eup

Sonchus asper (L.) Hill.

Dg: XBB Ver-Eup

Sonchus oleraceus L.

Dg: TB THE-SAL, TBA Sal pro

Sorbus aira (L.) Crantz

Dg: ADF Cal var, LE ERI-PIN, LEA Pul-Pin

Sorbus aucuparia L. emend. Hedl.

Dg: ADC Sal sil, KBH Sal are, KC ROS-PIN, LBD Sor-Fag, LD QUE ROB, LDB Que rob

C: ADC Sal sil, KBC Sam-Sal, KBH Sal are, KC ROS-PIN, KCA Pin mug, LAA Aln glu, LBB Car bet, LBD Sor-Fag, LBE Luz-Fag, LC QUE PUB, LCC Que pet, LD QUE ROB, LDA Gen-Que, LDB Que rob, LF VAC-PIC, LFB Dic-Pin, LFC Pic abi, THJ Mel pra

Dm: ADC Sal sil

Sorbus torminalis (L.) Crantz

Dg: LC QUE PUB, LCC Que pet

Sparganium angustifolium F. Michx

Dg: VDA Lit uni

Sparganium emersum Rehmman

Dg: MCC Ele-Sag

Dm: MCC Ele-Sag

Sparganium erectum Rehmman

Dm: MCA Phr aus

Spergula arvensis L.

Dg: MAB Rad lin, XB STE MED, XBC Scl ann, XBD Arn min, XBF Spe-Ero

C: XBC Scl ann, XBD Arn min

Spergula arvensis L. subsp. *maxima* (Weihe) Schwarz

Dg: XBL Lol-Lin

C: XBL Lol-Lin

Spergula morisonii Boreau

Dg: TF KOE-COR, TFA Cor can, TFB The-Air

Spergularia rubra (L.) J. Presl & C. Presl

Dg: MA ISO-JUN, XBL Lol-Lin

C: XBL Lol-Lin

Spergularia salina J. Presl & C. Presl

Dg: TB THE-SAL, TBA Sal pro, TC FES-PUC, TCA Puc lim

C: TB THE-SAL, TBA Sal pro, TCA Puc lim

Dm: TCA Puc lim

Sphacelaria cirrosa (Roth) Agardh

Dg: VCC Cha can

Sphagnum capillifolium s. l.

Dg: AF CAR-KOB, AFA Fes ver, LFD Vac-Pin, RC OXY-SPH, RCA Sph mag, RCB Oxy-Eri, RCC Oxy-Emp

C: RCB Oxy-Eri, RCC Oxy-Emp

Dm: RCB Oxy-Eri

Sphagnum compactum Lam. & DC.

Dg: RC OXY-SPH, RCB Oxy-Eri

Sphagnum contortum Schultz

Dg: RBB Sph-Tom

Sphagnum cuspidatum Ehrh. ex Hoffm.

Dg: RBE Sph cus, RC OXY-SPH, RCB Oxy-Eri

Dm: MCF *Car-Rum*, RBE *Sph cus*, RC *OXY-SPH*, RCA *Sph mag*, RCB *Oxy-Eri*, RCC *Oxy-Emp*

Sphagnum denticulatum Brid.

Dg: RC *OXY-SPH*, RCB *Oxy-Eri*

Dm: RBE *Sph cus*, RCB *Oxy-Eri*, VDC *Sph-Utr*

Sphagnum fimbriatum Wilson in Hook.

Dg: RC *OXY-SPH*

Sphagnum fuscum (Schimp.) H.Klinggr.

Dg: RCB *Oxy-Eri*

Sphagnum girgensohnii Russow

Dg: LFC *Pic abi*

Sphagnum magellanicum Brid.

Dg: LFD *Vac-Pin*, RC *OXY-SPH*, RCA *Sph mag*, RCB *Oxy-Eri*, RCC *Oxy-Emp*

C: RCC *Oxy-Emp*

Dm: RBE *Sph cus*, RC *OXY-SPH*, RCA *Sph mag*, RCB *Oxy-Eri*, RCC *Oxy-Emp*

Sphagnum molle Sull.

Dg: RCB *Oxy-Eri*

Sphagnum obtusum Warnst.

Dg: RBB *Sph-Tom*

Sphagnum palustre s. l.

Dg: LA *ALN GLU*, LAB *Sal cin*, RC *OXY-SPH*

Sphagnum papillosum Lindb.

Dg: RC *OXY-SPH*, RCB *Oxy-Eri*

Dm: RBE *Sph cus*

Sphagnum recurvum agg.

Dg: LFD *Vac-Pin*, RB *SCH-CAR*, RBD *Sph-Car*, RBE *Sph cus*, RC *OXY-SPH*, RCA *Sph mag*, RCB *Oxy-Eri*, RCC *Oxy-Emp*

C: LFD *Vac-Pin*, RAC *Epi-Mon*, RBD *Sph-Car*, RBE *Sph cus*, RC *OXY-SPH*, RCA *Sph mag*, RCB *Oxy-Eri*, RCC *Oxy-Emp*

Dm: ADA *Cal vil*, LAB *Sal cin*, LFD *Vac-Pin*, MCF *Car-Rum*, RB *SCH-CAR*, RBC *Car can*, RBD *Sph-Car*, RBE *Sph cus*, RC *OXY-SPH*, RCA *Sph mag*, RCB *Oxy-Eri*, RCC *Oxy-Emp*, VDC *Sph-Utr*

Sphagnum squarrosum Crome in Hoppe

Dg: LA *ALN GLU*, LAB *Sal cin*, RAD *Swe-Dic*

Sphagnum subsecundum Mees in J.W. Sturm

Dg: RAD *Swe-Dic*

Dm: VDC *Sph-Utr*

Sphagnum tenellum (Brid.) Pers. ex Brid.

Dg: RC *OXY-SPH*, RCB *Oxy-Eri*

Sphagnum teres (Schimp.) Ångstr.

Dg: RB *SCH-CAR*, RBB *Sph-Tom*

C: RBB *Sph-Tom*

Sphagnum warnstorffii Russow

Dg: RBB *Sph-Tom*

Dm: RBB *Sph-Tom*

Spirodela polyrhiza (L.) Schleid.

Dg: VA *LEMNET*, VAA *Lem min*, VAC *Hyd mor*, VB *POTAME*, VBA *Nym alb*

C: VA *LEMNET*, VAA *Lem min*, VAC *Hyd mor*

Dm: VA *LEMNET*, VAA *Lem min*

Spirulina subsalsa Oersted

Dg: VE *ZOS MAR*, VEA *Zos mar*

Squamarina lentigera (Weber) Poelt

Dg: TFH *Koe gla*

Stachys alpina L.

Dg: ADF *Cal var*

Stachys annua (L.) L.

Dg: XBA *Caucal*

Stachys germanica L.

Dg: ADF *Cal var*, THB *Bro-Fes*

Stachys palustris L.

Dg: KA *SAL PUR*

Stachys recta L.

Dg: KBA *Pru fru*, TH *FES-BRO*, THD *Fes val*

Stachys sylvatica L.

Dg: LB *CAR-FAG*, LBA *Aln inc*, RA *MON-CAR*, XEB *Fra ves*

C: LBA *Aln inc*, XEB *Fra ves*

Steinia geophana (Nyl.) Stein
Dg: TI VIO CAL, TIA Arm hal

Stellaria graminea L.
Dg: TD MOL-ARR, TDB Pol-Tri, TE CAL-ULI,
TEC Vio can
C: TDB Pol-Tri, TEC Vio can

Stellaria holostea L.
Dg: LB CAR-FAG, LBB Car bet

Stellaria media agg.
Dg: XB STE MED, XBA Caucal, XBB Ver-Eup,
XBC Scl ann, XBE Oxa fon
C: XB STE MED, XBA Caucal, XBB Ver-Eup,
XBC Scl ann, XBE Oxa fon, XBG Atrpli

Stellaria nemorum L.
Dg: ADC Sal sil, ADD Ade all, RA MON-CAR,
RAA Car rem
C: ADC Sal sil, ADD Ade all, RA MON-CAR,
RAA Car rem

Stellaria uliginosa Murray
Dg: RA MON-CAR, RAB Lyc-Cra
C: RAC Epi-Mon

Stipa capillata L.
Dg: TH FES-BRO, THD Fes val
C: THD Fes val
Dm: TFF Aly-Sed, TH FES-BRO, THD Fes val,
THG Koe-Phl

Stipa joanni Čelak
Dg: THG Koe-Phl
Dm: THG Koe-Phl

Stipa pulcherrima K. Koch
Dg: THD Fes val

Straminergon stramineum (Dicks. ex Brid.) He-
denäs
Dg: RB SCH-CAR, RC OXY-SPH
C: RAC Epi-Mon

Stratiotes aloides L.
Dg: VA LEMNET, VAB Utr vul, VAC Hyd mor,
VB POTAME
C: VAC Hyd mor
Dm: VA LEMNET, VAC Hyd mor

Streptopus amplexifolius (L.) DC.
Dg: AD MUL-ACO, ADC Sal sil, ADG Tri fus

Succisa pratensis Moench
Dg: TDD Mol cae
C: TDD Mol cae

Swertia perennis L.
Dg: AC ELY-SES, ACB Car fir, RAD Swe-Dic
C: RAD Swe-Dic

Symphytum cordatum Waldst. & Kit. ex Willd.
Dg: LBF Til-Ace

Symphytum officinale L.
Dg: KA SAL PUR, KAA Sal tri, TDJ Ver-Lys
C: KAA Sal tri, TDJ Ver-Lys

Syntrichia ruralis (Hedw.) F. Weber & D. Mohr
Dg: TFH Koe gla

Tanacetum corymbosum (L.) Sch. Bip. subsp.
clusii (Fisch.) Hand.-Mazz.
Dg: ADB Cal aru, LE ERI-PIN, LEA Pul-Pin

Tanacetum vulgare L.
Dg: XC ART VUL, XCB Dau-Mel

Taraxacum laevigatum (Willd.) DC.
Dg: THA Aly-Fes

Taraxacum nigricans (Kit) Rchb.
Dg: AE SAL HER, AEB Fes pic

Taraxacum sect. *Palustria*
Dg: TC FES-PUC

Taraxacum sect. *Ruderalia*
Dg: KD ROBINI, XA POL-POĚ
C: KBH Sal are, KD ROBINI, KDA Che-Rob,
LBD Sor-Fag, SB CYM-PAR, SBA Cym-Asp,
TDA Arr ela, TDC Cyn cri, TDH Alo pra, XA
POL-POĚ, XAA Cor-Pol, XAB Sag pro

Teesdalia nudicaulis (L.) R. Br.
Dg: TF KOE-COR, TFA Cor can, XBD Arn min

Teucrium botrys L.
Dg: TFF Aly-Sed

Teucrium chamaedrys L.

Dg: LCA *Que pub*, SC *THL ROT*, SCA *Sti cal*,
THE *Cir-Bra*

Teucrium montanum L.

Dg: LE *ERI-PIN*, LEA *Pul-Pin*, THB *Bro-Fes*,
THC *Dia-Ses*

C: THB *Bro-Fes*

Teucrium scordium L.

Dg: MCB *Mel-Bol*

Thalictrum aquilegifolium L.

Dg: ADD *Ade all*, AE *SAL HER*, AEB *Fes pic*

Thalictrum flavum L.

Dg: TDJ *Ver-Lys*

Thalictrum lucidum L.

Dg: TDJ *Ver-Lys*

C: TDJ *Ver-Lys*

Thalictrum minus L.

Dg: KBA *Pru fru*, TH *FES-BRO*

Thalictrum simplex L.

Dg: THC *Dia-Ses*

Thelypteris palustris Schott.

Dg: LA *ALN GLU*, LAA *Aln glu*, LAB *Sal cin*,
MCF *Car-Rum*

C: LA *ALN GLU*, LAA *Aln glu*, LAB *Sal cin*,
MCF *Car-Rum*

Dm: LAB *Sal cin*, MCF *Car-Rum*, VAB *Utr vul*

Thesium alpinum L.

Dg: AC *ELY-SES*, ACA *Ses tat*

Thesium linophyllum L.

Dg: TH *FES-BRO*, THE *Cir-Bra*, THH *Ger san*

Thlaspi arvense L.

Dg: XB *STE MED*, XBB *Ver-Eup*

Thymus alpestris Tausch ex A. Kern.

Dg: AE *SAL HER*, AEB *Fes pic*

Thymus carpathicus Čelak

Dg: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*,
THC *Dia-Ses*

C: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*

Thymus marschallianus Willd.

Dg: KBA *Pru fru*

Thymus pulegioides L.

Dg: LE *ERI-PIN*, TE *CAL-ULI*, TEC *Vio can*,
TH *FES-BRO*, THA *Aly-Fes*, THF *Bro ere*, TI
VIO CAL

C: TEC *Vio can*, THA *Aly-Fes*, THF *Bro ere*,
THG *Koe-Phl*, TI *VIO CAL*, TIA *Arm hal*

Thymus serpyllum L. emend. Fr.

Dg: TF *KOE-COR*, TFC *Arm elo*, TFH *Koe gla*

C: TFC *Arm elo*, TFH *Koe gla*

Tilia cordata Mill.

Dg: LB *CAR-FAG*, LBB *Car bet*, LBF *Til-Ace*,
LC *QUE PUB*

C: LBB *Car bet*

Dm: LBB *Car bet*, LBF *Til-Ace*

Tilia platyphyllos Scop.

Dg: LBF *Til-Ace*

Tofieldia calyculata (L.) Wahlenb.

Dg: AC *ELY-SES*, ACA *Ses tat*

C: ACA *Ses tat*

Tolypella nidifica (O.F. Müll.) Leonh.

Dg: VCC *Cha can*

C: VCC *Cha can*

Tomentypnum nitens (Hedw.) Loeske

Dg: RB *SCH-CAR*, RBB *Sph-Tom*

C: RBB *Sph-Tom*

Toninia sedifolia (Scop.) Timdal

Dg: TFH *Koe gla*

Torilis japonica (Houtt.) DC.

Dg: XDD *Geo-All*

Tortella inclinata (R. Hedw.) Limpr.

Dg: TFF *Aly-Sed*,

Tortella tortuosa (Hedw.) Limpr.

Dg: AF *CAR-KOB*, AFA *Fes ver*, THA *Aly-Fes*,
TI *VIO CAL*, TIA *Arm hal*

C: AF *CAR-KOB*, AFA *Fes ver*, TI *VIO CAL*,
TIA *Arm hal*

Tortula acaulon (With.) R.H. Zander, Bull.
Dg: MAB *Rad lin*

Tortula muralis Hedw.
Dg: SB *CYM-PAR*, SC *THL ROT*

Tortula subulata Hedw.
Dg: SB *CYM-PAR*

Tortula truncata (Hedwig) Mitt.
Dg: MA *ISO-JUN*, MAB *Rad lin*

Trapa natans L. s. l.
Dg: VB *POTAME*, VBA *Nym alb*
Dm: VBA *Nym alb*

Trapeliopsis flexuosa (Fr.) Coppins & James
Dg: TI *VIO CAL*, TIA *Arm hal*

Trapeliopsis granulosa (Hoffm.) Lumbsch
Dg: TFH *Koe gla*

Traunsteinera globosa (L.) Rchb.
Dg: AEB *Fes pic*

Trichodon cylindricus (Hedw.) Schimp.
Dg: MA *ISO-JUN*, MAB *Rad lin*

Trichostomum crispulum Bruch in F.A. Müll
Dg: AC *ELY-SES*, ACA *Ses tat*

Trientalis europaea L.
Dg: LD *QUE ROB*, LDB *Que rob*, LF *VAC-PIC*,
LFC *Pic abi*
C: LDB *Que rob*

Trifolium alpestre L.
Dg: LC *QUE PUB*, LCC *Que pet*
C: LC *QUE PUB*, LCC *Que pet*

Trifolium arvense L.
Dg: TF *KOE-COR*, TFC *Arm elo*, TFD *Hyp-Scl*,
TFH *Koe gla*
C: TFH *Koe gla*

Trifolium aureum Pollich
Dg: THJ *Mel pra*

Trifolium fragiferum L.
Dg: TC *FES-PUC*, TCB *Jun ger*
Dm: TCB *Jun ger*

Trifolium hybridum L.
Dg: KAB *Sal ela*

Trifolium medium L.
Dg: THI *Tri med*, THJ *Mel pra*
C: THI *Tri med*
Dm: THI *Tri med*

Trifolium montanum L.
Dg: TH *FES-BRO*, THF *Bro ere*

Trifolium pratense s. l.
Dg: TD *MOL-ARR*
C: KAB *Sal ela*, TDA *Arr ela*, TDH *Alo pra*, TFG
Koe alb

Trifolium repens L.
Dg: TDC *Cyn cri*, XA *POL-POË*
C: KAB *Sal ela*, RAC *Epi-Mon*, TDC *Cyn cri*,
TDH *Alo pra*, TEC *Vio can*

Trifolium rubens L.
Dg: LC *QUE PUB*, LCC *Que pet*

Triglochin maritimum L.
Dg: TC *FES-PUC*, TCA *Puc lim*, TCB *Jun ger*
C: TC *FES-PUC*, TCB *Jun ger*

Triglochin palustre L.
Dg: RBA *Car dav*, TC *FES-PUC*

Trisetum alpestre (Host) P. Beauv.
Dg: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*
C: AC *ELY-SES*, ACA *Ses tat*, ACB *Car fir*

Trisetum flavescens (L.) P. Beauv.
Dg: TD *MOL-ARR*, TDA *Arr ela*, TDB *Pol-Tri*

Tussilago farfara L.
Dg: KAB *Sal ela*
C: KAB *Sal ela*

Typha angustifolia L.
Dg: MCB *Mel-Bol*
Dm: MCA *Phr aus*

Typha latifolia L.
Dg: MC *PHR-CAR*
Dm: MCA *Phr aus*

Ulmus glabra Huds.

Dg: KD ROBINI, LBD *Sor-Fag*, LBF *Til-Ace*

Ulmus minor Mill. emend. Richens

Dg: LCA *Que pub*,

Ulva clathrata (Roth) C. Agardh

Dg: VE ZOS MAR, VEA *Zos mar*

Urtica dioica L.

Dg: KA SAL PUR, KD ROBINI, MCD *Pha aru*, XD GAL-URT, XDA *Sen flu*

C: KA SAL PUR, KAA *Sal tri*, KAC *Sal alb*, KB RHA-PRU, KBC *Sam-Sal*, KBD *Aeg-Sam*, KD ROBINI, KDA *Che-Rob*, LA ALN GLU, LAA *Aln glu*, LBA *Aln inc*, LBF *Til-Ace*, MCD *Pha aru*, RA MON-CAR, RAA *Car rem*, XBI *Mal neg*, XCE *Arc lap*, XD GAL-URT, XDA *Sen flu*, XDB *Pet hyb*, XDC *Imp-Sta*, XDD *Geo-All*, XDE *Aeg pod*, XDF *Rum alp*, XEB *Fra ves*

Dm: KA SAL PUR, KAA *Sal tri*, KAC *Sal alb*, KBD *Aeg-Sam*, MCD *Pha aru*, XCE *Arc lap*, XD GAL-URT, XDA *Sen flu*, XDC *Imp-Sta*, XDD *Geo-All*, XDE *Aeg pod*

Urtica urens L.

Dg: XBI *Mal neg*

C: XBI *Mal neg*

Utricularia australis R. Br.

Dg: VAB *Utr vul*

Utricularia intermedia Hayne

Dg: VD LIT UNI, VDC *Sph-Utr*,

Utricularia minor L.

Dg: VD LIT UNI, VDC *Sph-Utr*

C: VDC *Sph-Utr*

Utricularia ochroleuca R.W. Hartm.

Dg: VD LIT UNI, VDC *Sph-Utr*

Dm: VDC *Sph-Utr*

Utricularia vulgaris L.

Dg: VA LEMNET, VAB *Utr vul*, VC CHARET, VCA *Nit fle*

C: VAB *Utr vul*

Dm: VAB *Utr vul*

Vaccinium myrtillus L.

Dg: AA LOI-VAC, AB JUN TRI, AF CAR-KOB, AFA *Fes ver*, KC ROS-PIN, KCA *Pin mug*, LF VAC-PIC, LFC *Pic abi*

C: AA LOI-VAC, AAA *Loi-Vac*, AB JUN TRI, ABA *Jun tri*, ABB *Nar-Car*, ACB *Car fir*, ADA *Cal vil*, ADB *Cal aru*, ADC *Sal sil*, AE SAL HER, AEA *Sal her*, AEB *Fes pic*, AF CAR-KOB, AFA *Fes ver*, KC ROS-PIN, KCA *Pin mug*, LBE *Luz-Fag*, LD QUE ROB, LDA *Gen-Que*, LDB *Que rob*, LF VAC-PIC, LFB *Dic-Pin*, LFC *Pic abi*, LFD *Vac-Pin*, TEA *Nar str*, TEB *Nar-Agr*, TEF *Gen-Vac*, THJ *Mel pra*

Dm: AA LOI-VAC, AAA *Loi-Vac*, ADB *Cal aru*, ADC *Sal sil*, KC ROS-PIN, KCA *Pin mug*, LBE *Luz-Fag*, LD QUE ROB, LDA *Gen-Que*, LDB *Que rob*, LF VAC-PIC, LFB *Dic-Pin*, LFC *Pic abi*, LFD *Vac-Pin*, TE CAL-ULI, TEA *Nar str*, TEF *Gen-Vac*

Vaccinium uliginosum s. l.

Dg: AA LOI-VAC, LFD *Vac-Pin*, RC OXY-SPH, RCA *Sph mag*, RCC *Oxy-Emp*

C: LFD *Vac-Pin*, RCC *Oxy-Emp*

Dm: AA LOI-VAC, AAA *Loi-Vac*, RCB *Oxy-Eri*

Vaccinium vitis-idaea L.

Dg: AA LOI-VAC, AAA *Loi-Vac*, AB JUN TRI, ABA *Jun tri*, AC ELY-SES, ACB *Car fir*, AF CAR-KOB, FA *Fes ver*, KC ROS-PIN, KCA *Pin mug*, LF VAC-PIC, LFB *Dic-Pin*, LFD *Vac-Pin*

C: AA LOI-VAC, AAA *Loi-Vac*, AB JUN TRI, ABA *Jun tri*, ABB *Nar-Car*, AC ELY-SES, ACB *Car fir*, AF CAR-KOB, AFA *Fes ver*, KC ROS-PIN, KCA *Pin mug*, LF VAC-PIC, LFB *Dic-Pin*, LFD *Vac-Pin*

Valeriana dioica L.

Dg: RB SCH-CAR,

Valeriana simplicifolia Kabath

Dg: RAB *Lyc-Cra*, RBA *Car dav*, RBB *Sph-Tom*

Valeriana tripteris L.

Dg: ADF *Cal var*, AF CAR-KOB, AFA *Fes ver*, LE ERI-PIN, LEA *Pul-Pin*

C: ADF *Cal var*

Valerianella dentata (L.) Pollich

Dg: XBA *Caucal*

Veratrum lobelianum Bernh.

Dg: AD MUL-ACO, ADA *Cal vil*, ADC *Sal sil*,
ADD *Ade all*, ADE *Dry-Ath*, KC ROS-PIN

C: ADA *Cal vil*, ADC *Sal sil*, ADD *Ade all*, ADE
Dry-Ath

Dm: AD MUL-ACO, ADA *Cal vil*

Verbascum chaixii Vill. subsp. *austriacum* (Schott
ex Roem. & Schult.) Hayek

Dg: SC THL ROT, SCA *Sti cal*

Verbascum nigrum L.

Dg: KAB *Sal ela*

Verbena officinalis L.

Dg: KAB *Sal ela*

Veronica alpina L.

Dg: AC ELY-SES, ACB *Car fir*

Veronica anagallis-aquatica L.

Dg: MA ISO-JUN, MAA *Ele ova*, MAC *Ver sup*

Veronica aphylla L.

Dg: AC ELY-SES, ACA *Ses tat*, ACB *Car fir*

Veronica arvensis L.

Dg: XB STE MED

Veronica austriaca L.

Dg: THC *Dia-Ses*

Veronica beccabunga L.

C: RAC *Epi-Mon*

Veronica chamaedrys L.

Dg: LC QUE PUB

C: ADF *Cal var*, KBH *Sal are*, LC QUE PUB,
LCC *Que pet*, TDA *Arr ela*, TDB *Pol-Tri*, TEB
Nar-Agr, TEC *Vio can*, THI *Tri med*, THJ *Mel*
pra, XDF *Rum alp*

Veronica dillenii Crantz

Dg: TF KOE-COR, TFA *Cor can*, TFE *Ara tha*,
TFH *Koe gla*

C: TFE *Ara tha*, TFH *Koe gla*

Veronica fruticans Jacq.

Dg: AC ELY-SES, ACA *Ses tat*, LE ERI-PIN

Veronica hederifolia L.

Dg: KD ROBINI, KDA *Che-Rob*

Veronica longifolia L.

Dg: TDJ *Ver-Lys*

C: TDJ *Ver-Lys*

Veronica montana L.

Dg: RA MON-CAR

Veronica officinalis L.

Dg: LC QUE PUB, LCC *Que pet*, TE CAL-ULI,
TEB *Nar-Agr*, THJ *Mel pra*

C: LC QUE PUB, LCC *Que pet*, TEB *Nar-Agr*,
HJ *Mel pra*

Veronica persica Poir.

Dg: XB STE MED, XBA *Caucal*, XBB *Ver-Eup*,
XBE *Oxa fon*

C: XBA *Caucal*, XBB *Ver-Eup*

Veronica polita Fr.

Dg: XBA *Caucal*

Veronica serpyllifolia L.

Dg: MA ISO-JUN

Veronica spicata L.

Dg: TH FES-BRO, THG *Koe-Phl*

C: THG *Koe-Phl*

Veronica teucrium L.

Dg: LC QUE PUB, LCA *Que pub*, THH *Ger san*

Veronica triphyllos L.

Dg: XB STE MED

Veronica verna L.

Dg: TFE *Ara tha*

C: TFE *Ara tha*

Viburnum opulus L.

Dg: LBD *Sor-Fag*

Vicia angustifolia L.

Dg: XB STE MED, XBC *Scl ann*, XBD *Arn min*,
XBL *Lol-Lin*

C: XBL *Lol-Lin*

Vicia cassubica L.

Dg: LC QUE PUB, LCC *Que pet*,

Vicia cracca L.

Dg: LE *ERI-PIN*, TD *MOL-ARR*, TDI *Cni ven*
C: LE *ERI-PIN*, LEA *Pul-Pin*, TDA *Arr ela*,
TDB *Pol-Tri*, TDD *Mol cae*, TDI *Cni ven*

Vicia hirsuta (L.) Gray

Dg: XB *STE MED*, XBC *Scl ann*
C: XBC *Scl ann*

Vicia lathyroides L.

Dg: TFH *Koe gla*

Vicia sylvatica L.

Dg: ADF *Cal var*

Vicia tenuifolia Roth

Dg: THH *Ger san*
Dm: THH *Ger san*

Vicia tetrasperma (L.) Schreb

Dg: XB *STE MED*

Vicia villosa Roth

Dg: XB *STE MED*,

Vincetoxicum hirundinaria Medik.

Dg: LC *QUE PUB*, LCA *Que pub*, LCC *Que pet*,
LE *ERI-PIN*, LEA *Pul-Pin*, THA *Aly-Fes*, THB
Bro-Fes, THC *Dia-Ses*
C: ADF *Cal var*, LC *QUE PUB*, LCA *Que pub*,
LCC *Que pet*, LE *ERI-PIN*, LEA *Pul-Pin*, THA
Aly-Fes, THB *Bro-Fes*, THC *Dia-Ses*

Viola alpina Jacq.

Dg: AC *ELY-SES*, ACB *Car fir*

Viola arvensis Murray

Dg: XB *STE MED*, XBA *Caucal*, XBC *Scl ann*,
XBD *Arn min*, XBL *Lol-Lin*
C: XB *STE MED*, XBA *Caucal*, XBB *Ver-Eup*,
XBC *Scl ann*, XBD *Arn min*, XBE *Oxa fon*, XBF
Spe-Ero, XBL *Lol-Lin*

Viola biflora L.

Dg: ADG *Tri fus*, AF *CAR-KOB*, AFA *Fes ver*,
RAB *Lyc-Cra*, RAD *Swe-Dic*
C: ADG *Tri fus*, RAB *Lyc-Cra*, RAD *Swe-Dic*

Viola canina L.

Dg: TE *CAL-ULI*, TEC *Vio can*

Viola collina Besser

Dg: SC *THL ROT*

Viola hirta L.

Dg: LCA *Que pub*, LE *ERI-PIN*, LEA *Pul-Pin*,
THB *Bro-Fes*
C: LCA *Que pub*, THB *Bro-Fes*

Viola mirabilis L.

Dg: LCA *Que pub*

Viola palustris L.

Dg: LA *ALN GLU*, RAC *Epi-Mon*, RB *SCH-*
CAR
C: RAC *Epi-Mon*

Viola reichenbachiana Jord. ex Boreau

Dg: LB *CAR-FAG*, LBB *Car bet*, LBC *Fag syl*,
LD *QUE ROB*
C: LBB *Car bet*, LBC *Fag syl*

Viola riviniana Rechb.

Dg: LC *QUE PUB*, LCA *Que pub*, LCC *Que pet*

Viola rupestris F.W. Schmidt.

Dg: THC *Dia-Ses*

Viola stagnina Kit.

Dg: TDI *Cni ven*

Viola tricolor s. l.

Dg: SC *THL ROT*

Viscaria vulgaris Röhl.

Dg: LC *QUE PUB*, LCC *Que pet*, SAB *Asp cun*

Viscum album L.

Dg: LCA *Que pub*

Vulpia myuros (L.) C.C. Gmel.

Dg: TFB *The-Air*

Warnstorfia fluitans (Hedw.) Loeske

Dg: RBE *Sph cus*

Warnstorfia sarmentosa (Wahlenb.) Hedenäs

Dg: RAD *Swe-Dic*

Weissia controversa Hedw.

Dg: TI *VIO CAL*, TIA *Arm hal*

Wolffia arrhiza (L.) Horkel ex Wimm.

Dg: VA LEMNET, VAA Lem min

Dm: VA LEMNET, VAA Lem min

Zannichellia palustris L.

Dg: VCC Cha can

Zostera marina L.

Dg: VCC Cha can, VE ZOS MAR, VEA Zos ma



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