



ECOLOGICAL AND PHYTOGEOGRAPHICAL CHARACTERISTICS OF RUDERAL FLORA IN KOSOVSKA MITROVICA AND ITS SURROUNDINGS

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Key word:

ruderal flora,
Kosovska Mitrovica,
floristic analysis,
phytogeographical
analysis

Ključne reči:

ruderalna flora,
Kosovska Mitrovica,
floristička analiza,
fitogeografska analiza

SYNOPSIS

Diverse types of ruderal habitats in Kosovska Mitrovica and its surroundings have revealed the presence of 386 species, subspecies, varieties or forms of vascular plants classified into 228 genera and 51 families. The defined ruderal flora was analysed on taxonomical, ecological and phytogeographical basis along with life forms, ecological and bioindicational indices and seasonal (phenological) dynamics.

SINOPSIS

Ekološko-fitogeografske karakteristike ruderalne flore Kosovske Mitrovice i njene okoline

Na različitim tipovima ruderalnih staništa, na teritoriji Kosovske Mitrovice i okoline konstatovano je prisustvo 386 vrsta, podvrsta, varijeteta ili formi vaskularnih biljaka, svrstanih u 228 rodova i 51 familiju. Ukupna utvrđena ruderalna flora je analizirana sa taksonomskog, ekološkog i fitogeografskog aspekta, uz analizu životnih formi, ekoloških-biondikacionih indeksa i sezone (fenološke) dinamike.

INTRODUCTION

As the youngest and most dynamic plant categories, conditioned by temporal or permanent anthropogenic presence and behaviour, ruderal flora and vegetation appear and survive on anthropomorphic habitats without tendency to create productive areas. Such habitats, where the soil has modified its physical and chemical properties and lost its resemblance with the primary land type, are located in the vicinity of settlements and around all types of various urban buildings and

infrastructures. Due to this, above all, great biological potential in addition to the absence of natural competitor – primary vegetation-that man destroys so as to obtain new agricultural and urban areas, ruderal plants are intensively predominant in these habitats.

General characteristics of the investigated area.-The city of Kosovska Mitrovica, with its surroundings, lies at the 42° 53' north latitude, 20° 52' east longitude , and 508-510 m altitude, and stretches to the farthest northern point of Kosovo Valley. It is situated on the alluvial area and terraces of the Ibar and Sitnica Rivers, with the volcanic cup of Zvečan dominating the city (Figure 1).



Figure 1.-Geographical position of Kosovska Mitrovica (investigated area)

The relief of Kosovska Mitrovica consists of several wholes. The largest part of the territory belongs to the mountainous region, so it is considered to be a mountainous area. The geological composition of Kosovska Mitrovica region is characterised by a complex structure, attributed to endogenic forces that had a major role in rock formation. The substructure of the area consists of Kopaonik (mountain) rocks; the subsequent tectonic motions resulted in serpentine formation (Šukrija et al., 1979). Nevertheless, the largest part of Kosovska Mitrovica soil (land, area) belongs to older chalk ("creta") period represented by flis. The youngest rocks were formed in a Quaternary Period and are represented by pebble, sand and clay, i.e. alluvial deposits of the Ibar, Sitnica and Ljušta Rivers. More than a half of the city territory and its surroundings consists of brown shallow soil with poor fertility. It should be emphasized that, influenced by industry, many types of soil have undergone degradation and "enrichment" with various waste products that reduced their fertility.

The geographic position influences the climate of Kosovska Mitrovica area. The openness towards south, central Kosovo and north, in the valley along the middle course of the Ibar River, causes extensive windiness from these directions. The surrounding mountains, Kopaonik and Rogozna, refreshingly affect these areas. Located among these mountains, Mitrovica lies in the so called "rainy shadow", hence the annual precipitation is low (600 mm on average). The average annual air temperature is 10.2 °C. All seasons are clearly distinguishable and their main feature is autumn that is warmer than spring. A high degree of windiness is not a characteristic of Kosovska Mitrovica. Almost a third of the days throughout the year is windless. The most frequent winds are those from north or north-west blowing in the valley along the middle course of the Ibar River (Ivanović, 1996)

MATERIAL AND METHODS

Intensive researches and analysis of composition quality, presence degree, ecological, fenologic and phytogeographic features of ruderal flora on 28 selected probe areas of ruderal type, were conducted in Kosovska Mitrovica and its surroundings on monthly dynamic basis during the vegetational period in 1996, with previous terrain observation performed in 1995.

The following literature was used to identify the ruderal flora in Kosovska Mitrovica: Josifović ed (1970-1977) i Saric&Diklić ed. (1989), Tutin ed. (1964-1980), Čanak&Kojić&Parabućski (1978), Mišić&Lakušić (1990), Kojić (1986), Javorka & Czapody (1975) and Pignatii (1982). Herbarium material (with approximately 400 species) is kept in the Herbarium at the Institute of Botany and the Botanical Garden of Faculty of Biology, University of Belgrade (BEOU).

Belonging of each species to the corresponding floral element was analysed in accordance with the division principles stated by Meusel et al. (1965, 1978). The classification of floral elements into basic area types and groups was conducted on the basis of floristic and vegetational flora in addition to geographical regionalisation of various parts of Serbia, prepared by Stevanović(1992).

Plant life forms were determined according to Ellenburg & Muller- Dambois division (1967), updated and elaborated for the Serbian territory according to Stevanović (1992a, 1992b).

The abbreviations for floral elements and parameters that define life forms of each individual species are given in compliance with the symbols applied by Jovanović(1994).

Ecological (bioindicational) indices for each described plant species were determined taking into consideration basic ecological factors and division provided by Kojić et al. (1994).

According to the dynamics of the plant species development during the vegetational period, identified ruderal flora was divided into 4 fenologic (seasonal) categories, represented by indices_F1-F4, that determine the increase or decrease of quantitative values (presence degree and cover value) for the period May - October. Consequently, the symbol F1 refers to the species that reach their maximum in early spring and summer months, and decline towards the end of the vegetational period.; F2 category comprises the species that increase their total number towards mid-summer and later decline in October; F3- species show permanent increase of the quantitative values (presence degree and cover values) throughout the year.; F4 category include taxa that interrupt their development in vegetational period, from May to June, when their number and presence decrease on the investigated areas to increase again in mid- summer.

RESULTS AND DISCUSSION

Various types of ruderal habitats, included in investigation, (pastures, road and path edges, treads, trash heaps, nitrified river banks of the Ibar and Stari Trg rivers, neglected grasslands within the Trepča plants, barren soil, graveyards, embankments, etc.) revealed 386 species, subspecies, varieties or forms of vascular plants out of which 44 belong to different infraspectral categories (Table 1). It is necessary to mark that not all collected species are ruderal, even though they can be traced in various anthropogenic habitats. A certain number of species are found in habitats of primary or secondary forms of vegetation, such as forests, meadows or are completely segetal (field) species. These species most probably present either the debris of the original primary communities that were prior to ruderal communities or appeared afterwards.

The overall number of 386 taxa in the ruderal flora of Kosovska Mitrovica region is classified into 228 genera and 51 families. Of these, *Dicotyledones* include 336 species (87,05%) of 197 genera and 47 families; *Monocotyledones* comprise 48 species(12,43%) of 3 families and 30 genera, whereas horsetail (*Equisetinae*) is present only with two species of *Equisetaceae*.

The most representative families in ruderal flora of Kosovska Mitrovica are: *Asteraceae* (65 representatives, 16,84%), *Poaceae* (46-11,92 %), *Fabaceae* (42-10,89%), *Brassicaceae* (32-8,29%), *Lamiaceae* (21-5,44%), *Caryophyllaceae* (Table 2). These results have been anticipated, specifically if the sinanthropic character of a

great number of this family representatives is taken into account. The same is affirmed by the occurrence analysis of certain genera in ruderal flora of Kosovska Mitrovica. The most frequent genera are *Vicia* (9 species), *Chenopodium* (8), *Trifolium* (8), *Bromus* (7), *Medicago* (7), *Ranunculus* (7), etc.

Table 2.-Families which are presented with more then 10 species

Families	No. of species	(%)
Asteraceae	65	16.84
Poaceae	46	11.92
Fabaceae	42	10.88
Brassicaceae	32	8.29
Lamiaceae	21	5.44
Caryophyllaceae	20	5.18
Apiaceae	15	3.89
Chenopodiaceae	13	3.37
Rosaceae	13	3.37
Ranunculaceae	12	3.11
Boraginaceae	11	2.85
Scrophulariaceae	11	2.85
Total	301	77.99

Table. 3.Life form spectrum of ruderal flora of Kosovska Mitrovica

Life form	No. of species	(%)
H	170	44.04
T	163	42.23
G	21	5.44
Ch	9	2.33
P	9	2.33
S	8	2.07
Hyd	6	1.55
Total	386	100.00

The analysis of certain life forms presence in ruderal flora of Kosovska Mitrovica has proved their hemicryptophytic and terophytic character, the hemicryptophytes being the most prevalent (Table 3). The dominant role of hemicryptophytes is potentially even more emphasized with the fact that among the primary annual (one year old) plants (terophytes) are 21 species that, under specific conditions, alternate as two years old forms.

The hemicryptophyte life form is largely described by trunk (stem) shapes (H scap), with 98 species, whereas the occurrence analysis of certain fenological plant categories within this life form shows the predominance of summer (estival) shapes, with 146 species. As to the hight growth, confirmed is the dominance of tall plants, which is, by all means, in accordance with a perennial character of this life form.

Table 4.-Chorological spectrum of ruderal flora of Kosovska Mitrovica

Areal type	No. of Species	%
Adventive	18	4.70
Cosmopolitan	64	16.60
Holarctic	201	52.10
Mediterranean-Continental	79	20.50
Central-European-Mediterranean	15	3.90
Central European	3	0.80
Pontic-South-Siberian	6	1.60
Total	386	100.00

One year old herbaceous plants (terophytes), are represented with 163 species, out of which the largest number (135 species) ranks among trunk (stem) forms (T scap). This high percentage of terophyte participation in life forms spectrum of ruderal plants in Kosovska Mitrovica region, results from its pronounced anthropogenic behaviour. As a rule, the higher the impact of anthropogenic factor in a ruderal habitat, the greater participation of terophytes on account of one and two year old species, which leads to the biospectrum modification (Jovanović, 1994). Summer flowering plant species are numerous, with 102 representatives; however, the increase of spring and spring- autumn species is perceptible in addition to a somewhat greater appearance of the so called "low forms".

The life form of geophytes is represented with 21 species of which rhizomatoid species are the most numerous.

The other life forms (scandentophytes, hydrophytes, hamephytes and fanerophytes) are harder to trace, which can be explained with a fact that they populate ecologically more stable habitats (with a complete absence or reduced anthropozoogenic behaviour).

Ecological indices of plant species (Pejčinović, 1998) are used for the most important ecological factors to observe the relations on habitats more thoroughly as well as to identify the ecological and geographic position of plants in the investigated area. The analysis of the ecological (bioindicational) indices for 5 most important ecological factors (humidity, acidity, nitrogen quantity, light and temperature) confirmed the dominance of plants that prefer dry to moderately dry habitats, with neutral to slightly acidic reactions fairly rich in minerals, mostly semiopen or open in character and mesothermic to thermophilic depending on the temperature regime.

If the development dynamics of the plant species throughout the vegetational season (May- October) is considered, the collected ruderal flora from Kosovska Mitrovica area proves the dominance of taxa that belong to F1 category (67,4%), which means that the largest number of taxa shows a declining seasonal tendency. The species with an increasing seasonal tendency from May to October (F3 category) are on the second position, 15,8%. F2 category represented by 53 species or 13,8%, occurs to a lesser degree. The species with a growth interruption during the vegetational period (F4) are least present in ruderal flora of Kosovska Mitrovica, with only 11 examples (2,8%). They are mostly the species of hemicryptophyte life form that take advantage of favourable temperatures and humidity in the course of spring

and early summer months and stagnate during summer droughts to "revive" again from the end of summer to the beginning of autumn.

A detailed phytogeographic analysis of Kosovska Mitrovica ruderal flora corroborated the presence of 7 basic area types that incorporate 17 areal groups (Table 4). Horologic analysis confirms the supremacy of the Holarctic area type, presented with 201 species or 52,1%. This area type includes the largest number of species that belong to the European and Western-Asian subtype (47,3%) and Euroasian group of floral elements.

Mediterranean-continental type is second according to its presence, with 79 taxa (20,5%) united in 4 different groups of area floral elements. Within area spectrum of total ruderal flora in Kosovska Mitrovica region a fairly great participation of the species with Cosmopolitan (panregional) dispersion (64 representatives) is noticeable. The cosmopolits of Euroasian and Mediterranean origin are larger in number in relation to the Cosmopolits of circumholarctic and tropical origin. Adventive area type is represented by 18 species. A slightly smaller number is ascribed to the species that belong to the Mid-European and Mediterranean areal type (3,9%), Ponto.-SouthSiberian (1,6%) and MiddleEuropean (0,8%) dispersion. A greater presence of floral elements with transient (Mediterranean-Continental and Mideuropean-Mediterranean) character is indicative of transient climatic and phytogeographic character of the investigated area or its geographical position that overlaps with the main migrational road of ruderal flora from the eastern and central Mediterranean sea to middle Europe and vice versa. (Jovanović, 1997).

CONCLUSION

The presence of 386 taxa of vascular plants (species, subspecies, varieties or forms) classified into 51 families and 228 genera was identified in the course of the research of ruderal flora performed on 28 selected locations in Kosovska Mitrovica region during the vegetational period in 1996, with previous observation in 1995. Taxonomic spectrum of families is dominated by *Asteraceae* (65), *Poaceae* (46), *Fabaceae* (42), *Brassicaceae* (32), *Lamiaceae* (21), *Caryophyllaceae* (20), *Apiaceae* (15), *Chenopodiaceae* (13), *Rosaceae* (13) i *Ranunculaceae* (12). The most frequently found genera are *Vicia* (9 vrsta), *Chenopodium* (8), *Trifolium* (8), *Bromus* (7), *Medicago* (7), *Ranunculus* (7), and they indicate their pronounced anthropogenic behaviour.

The presence analysis of particular plant life forms in ruderal flora of Kosovska Mitrovica identified their *hemicryptophytic and terophytic character* (H=44,04%, T=42,23%). The seasonal (fenologic) dynamics analysis of the identified ruderal flora shows the prevalence of taxa that achieve their maximum in early spring and summer months.

The analysis of ecological (bioindicational) indices with 5 basic ecological factors (humidity, acidity, nitrogen quantity, light and temperature) proved the dominance of plants that grow in dry and moderately dry lands (subxerophytes- 42,65,

submesophytes-34,8%, xerophytes- 11,4% and mesophytes- 8,6%), with neutrophilic to slightly acidic reactions, fairly rich in minerals in the conditions of semi-shadow or full daily light (61,5%); the largest number of taxa has more or less thermophilic character (52,6%).

Plant – geographic analysis of ruderal flora in Kosovska Mitrovica region, described the presence of 7 basic area types, classified into 17 different area groups. The most numerous group is the one with 201 species of Holarctic area type (52,1%) dominated by the species of Euro-Westernasian and Euroasian dispersion. The second position is held by Mediterranean – Continental species area type (20,5%), Cosmopolitan area type(16,6%), Adventive area type(4,7%), Mid-European-Mediterranean (3,9%), Ponto- Southsiberian (1,6%) and Mid-European (0,8%) area type.

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Tab. 1.-Overview of ruderal flora of Kosovska Mitrovica with its life forms, floristic elements, ecological indices and seasonal (fenological) indices

Family/Species	Life forms	Floristic element	Ecological indices V K N S T	Seasonal indices
ALLICEAE				
<i>Allium vineale</i> L.	v-a Mes-Meg G bulb	med-subm-pan-atl-ce	2 3 3 4 4	F ₁
AMARANTHACEAE				
<i>Amaranthus albus</i> L.	a Meg T scap	adv (sam-sram)	2 3 4 4 4	F ₃
<i>Amaranthus blitoides</i> S. Watson	a Mes-Meg T rept	adv (sam)	2 3 4 4 4	F ₃
<i>Amaranthus retroflexus</i> L.	a Mes-Alt T scap	adv (sam)	2 3 4 4 4	F ₃
APIACEAE				
<i>Aegopodium podagraria</i> L.	a Meg-Alt G rhiz scap	se-med-subm-pont-j.c.sib	3 3 4 2 3	F ₁
<i>Anthriscus caucalis</i> Bieb.	a Mes-Meg T scap	subevr-az.	3 3 4 3 3	F ₁
<i>Anthriscus cerefolium</i> (L.) Hoffm. var. <i>trichospermus</i> (Schult.) Endl.	a Meg T scap	i.subm-pan-pont-tur		F ₁
<i>Anthriscus sylvestris</i> (L.) Hoffm.	a Meg-Alt H scap	se-med-subm-pont-j.sib-i.afr	3 3 4 4 3	F ₁
<i>Bifora radians</i> M.B.	v-a Mes-Meg T scap	c.ev-c.i.med-subm-pont-or-tur	2 4 3 4 4	F ₁
<i>Conium maculatum</i> L.	a Meg H scap bienn	se-med-subm-pont-j.sr-sib-or-tur-ca-i.j.afr	3 3 4 4 4	
<i>Daucus carota</i> L.	a Meg H scap/a T scap	se-med-pont-or-tur-i.afr	2 3 2 4 3	F ₃
<i>Eryngium campestre</i> L.	a Mes-Meg H scap	med-subm-pont	1 4 3 4 4	F ₄
<i>Falcaria vulgaris</i> Bernh.	a Mes-Meg T scap	se(z.ev-j.sarm)-pont-or-tur-ca	2 4 2 4 4	F ₂
<i>Foeniculum vulgare</i> Mill.	a Meg-Alt H scap	adv (med-or-tur)		F ₁
<i>Heracleum sphondylium</i> L.	a Meg-Alt H scap	se-ev (bor)-med-subm-pont-j.c.sib	3 3 4 3 2	F ₁
<i>Orlaya grandiflora</i> (L.) Hoffm.	a Meg T scap	c.ev-med-subm-pan-z.pont	1 4 2 4 4	F ₁
<i>Pastinaca sativa</i> L.	a Meg H scap bienn	se-med-pont-j.sib	3 4 3 4 3	F ₁
<i>Scandix pecten-veneris</i> L.	v Mes-Meg T scap	se-med-subm-or-tur-ca	2 4 2 4 4	F ₁
<i>Torilis arvensis</i> (HUDS.) Link	a Meg T scap	kosm (ev-med)	2 4 3 4 4	F ₁
ARISTOLOCHIACEAE				
<i>Aristolochia clematitis</i> L.	a Mes-Meg G rad scap	subm-pont	3 4 4 3 4	F ₁
ASTERACEAE				
<i>Achillea millefolium</i> L.	a Meg H scap	evr (bor-submerid)	2 3 3 4 3	F ₂
<i>Anthemis arvensis</i> L.	a Mes-Meg T scap/a H scapp	med-subm	2 2 3 4 4	F ₁
<i>Anthemis tinctoria</i> L.	a Meg H scap bienn	se-med-subm-or-pont	1 3 2 4 4	F ₁
<i>Arctium lappa</i> L.	aut Meg-Alt H scap bienn	evr (temp-submerid)	3 3 5 4 4	F ₂
<i>Artemisia absinthium</i> L.	Meg Ch suff caesp	evr (subbor-merid)	2 3 4 5 4	F ₃
<i>Artemisia scoparia</i> W. Et K.	aut Meg-Alt H scap bienn	evr (subbor-submerid)	2 3 1 3 3	F ₃
<i>Artemisia vulgaris</i> L.	aut Meg- Alt H scap	evr-sam (subbor-merid)	3 3 4 4 3	F ₃
<i>Bellis perennis</i> L.	a Mes H ros	se-med-subm	3 3 3 4 3	F ₁
<i>Bidens tripartita</i> L.	aut Mes-Alt T scap	evr (subbor-temp)	4 3 4 4 3	F ₃
<i>Carduus acanthoides</i> L.	a Meg-Alt H scap bienn	se-med-subm-pont-j.c.sib-or-tur	2 3 4 4 4	F ₄

<i>Carlina vulgaris</i> L.	a Meg H scap	se-subm-pont-j.sib	2 4 2 3 4	F ₂
<i>Centaurea cyanus</i> L.	a Mes-Meg T scap	kosm (med)	2 3 3 4 4	F ₁
<i>Centaurea jacea</i> L.	a Meg-Alt H scap	evr (subbor-submerid)	3 3 3 4 3	F ₁
<i>Centaurea orientalis</i> L.	a Meg-Alt H scap	pan-z.pont		F ₁
<i>Centaurea scabiosa</i> L.	a Meg-Alt H scap	se-med-pont-j.c.sib-tur	2 4 2 4 3	F ₁
<i>Centaurea solstitialis</i> L.	a Meg T scap	med-subm-or-pont-j.sib-tur	2 3 3 4 4	F ₁
<i>Centaurea stoebe</i> L. subsp. <i>micranthos</i> (Gmel.) Hayek var. <i>australis</i> (Pančić) Hayek	a Meg H scap	pan-z.pont	2 4 2 4 4	F ₃
<i>Chondrilla juncea</i> L.	a Meg-Alt H scap	med-subm-or-pont-j.sib-tur	2 4 3 4 4	F ₂
<i>Cichorium intybus</i> L.	a-aut Meg-Alt H scap	kosm (evr)	2 4 3 5 4	F ₂
<i>Cirsium arvense</i> (L.) Scop.	a Meg-Alt G rad scap	evr (subbor-merid)	3 3 4 4 4	F ₁
<i>Cirsium candelabrum</i> Gris.	a Alt H scap bienn	balk. (end)	2 3 4 3 3	F ₁
<i>Cirsium creticum</i> (Lam.) Urv. f. <i>hippolyti</i> (Bory et Chaub) Janch.	a Meg H scap bienn	med-subm		F ₁
<i>Cirsium lanceolatum</i> (L.) Scop	a Meg-Alt H scap bienn	evr (subbor-merid)	3 3 4 3 3	F ₃
<i>Crepis biennis</i> L.	a Meg-Alt H scap bienn	se-subm-pont	3 3 3 3 3	F ₃
<i>Crepis nicaensis</i> Balb.	a Mes-Meg T scap/a H scap bienn	med-subm-or	2 3 2 4 5	F ₃
<i>Crepis rhoeadifolia</i> M.B. Fiori et Paol.	a Meg-Alt H scap bienn	se-subm-pont	2 3 3 4 4	F ₃
<i>Crepis setosa</i> Hall.	a Mes-Meg T scap	c.i.med-subm-or-z.pont	2 3 3 4 5	F ₃
<i>Erigeron acer</i> L.	a Mes-Meg T scap	evr-az	2 4 2 4 3	F ₃
<i>Erigeron canadensis</i> L.	a Meg-Alt T scap	adv (sam)	2 3 3 4 4	F ₄
<i>Eupatorium cannabinum</i> L.	a Meg-Alt H scap	se-med-subm-pont-j.sib	4 4 3 3 3	F ₃
<i>Galinsoga parviflora</i> Cav.	a Mes-Meg T scap	adv (jam)	2 3 3 4 4	F ₃
<i>Hieracium bauhini</i> Besser.	a Mes H ros rept	c.ev.-sarm-pont-j.sr.sib	2 4 2 4 5	F ₁
<i>Hieracium pilosella</i> L.	a Mi-Mac H ros	SJEP	2 3 1 4 3	F ₁
<i>Inula britannica</i> L. f. <i>britannica</i>	a Mes-Meg H scap	evr (temp-merid)	4 4 3 3 4	F ₁
<i>Inula conyza</i> DC.	a Meg-Alt H scap bienn/a H scap	ev-z.az	2 4 2 3 3	F ₃
<i>Lactuca serriola</i> L.	a Meg-Alt H scap bienn/a T scap	evr (subbor-merid)-i.afr (boreosubtrop)	2 3 3 5 4	F ₂
<i>Lactuca viminea</i> (L.) Presl.	a Meg-Alt H scap bienn	med-subm-pont-pan-ir (w)-boh-burgd.	1 3 2 3 4	F ₁
<i>Lagoseris sancta</i> (Torn.) K.Maly	v-a Mes-Meg T ros/H ros	pont		F ₁
<i>Lapsana communis</i> L.	a Meg-Alt T scap	se-med-subm-pont-or-j.sib-ca	3 3 4 2 3	F ₂
<i>Leontodon crispus</i> Vill. subsp. <i>asper</i> (W. Et K.) Rohl.	a Mi-Mes H ros	med-i.subm-pont-j.sib	1 4 2 4 5	F ₁
<i>Leucanthemum vulgare</i> Lam.	v-aut Mes-Meg H scap	evr (bor-merid)	3 3 3 4 4	F ₁
<i>Matricaria chamomilla</i> L.	a Mi-Mes T scap	kosm (subm)	3 3 3 4 4	F ₁
<i>Matricaria inodora</i> L.	a-aut Meg T scap/ H scap bienn	kosm (med-subm)	3 3 3 3 3	F ₄
<i>Onopordon acanthium</i> L.	a Meg-Alt H scap bienn	evr (temp-merid)	2 3 5 4 4	F ₄
<i>Petasites hybridus</i> (L.) G.M.et Sch.	a Mes-Meg G rad	evr (bor-submerid)	4 3 4 3 3	F ₁
<i>Picris hieracioides</i> L.	a Meg-Alt H scap bienn/a H scap	evr (temp-merid)	2 4 3 4 3	F ₁
<i>Podospermum laciniatum</i> (L.) D.C.	a Mi-Meg T scap bienn/H scap	pont-c.az.-subm	2 4 3 4 5	F ₁

<i>Pulicaria dysenterica</i> (L.) Gaertn.	a Mes Meg H scap	se-med-subm-pont-or-tur	4 3 3 4 3	F ₁
<i>Senecio vernalis</i> W. Et K.	v Mes-Meg T scap	ev-med-subm-or-pont-j.sib	2 3 3 4 4	F ₁
<i>Senecio vulgaris</i> L.	v-aut Mi-Meg T scap	kosm (evr)	3 3 4 4 3	F ₁
<i>Solidago serotina</i> A.i E.	a Meg-Alt H scap	adv (sam)	3 3 3 4 3	F ₁
<i>Solidago virgaurea</i> L.	a Meg-Alt H scap	evr-sam (bor-temp)	3 3 3 2 3	F ₃
<i>Sonchus arvensis</i> L. var. <i>arvensis</i>	a Meg-Alt H scap	kosm (evr)	3 3 4 3 3	F ₁
<i>Sonchus arvensis</i> L. var. <i>uliginosus</i> (M.B.) Grec	a Meg-Alt H scap	kosm (evr)	3 3 4 3 3	F ₁
<i>Sonchus asper</i> (L.) Hill. subsp. <i>asper</i>	a Meg-Alt T scap/a H scap bienn	kosm (med-subm)	3 3 4 4 3	F ₁
<i>Sonchus asper</i> (L.) Hill. subsp. <i>glauscens</i> (Jord.) Hayek	a Meg-Alt H scap bienn	ev.-z.az	3 3 4 4 3	F ₁
<i>Sonchus oleraceus</i> (L.) Gou.	a Meg-Alt T scap/a H scap bienn	kosm (med-subm)	3 4 4 4 4	F ₃
<i>Tanacetum vulgare</i> L.	a Meg-Alt H scap	evr (temp-merid)	3 3 3 4 3	F ₄
<i>Taraxacum officinale</i> Weber	v-aut Mes H ros	kosm (evr)	3 3 4 4 3	F ₁
<i>Tragopogon dubius</i> Scop.	a Mes-Meg H scap bienn	se-subm-pont-or	2 3 3 4 4	F ₁
<i>Tragopogon pratensis</i> L.	a Meg H scap	subm (ev) pont-j.c.sib-tur	2 3 3 4 3	F ₁
<i>Tussilago farfara</i> L.	v Mi-Mes G rhiz	se-med-subm-pont-j.sib-ca	3 4 3 4 3	F ₁
<i>Xanthium italicum</i> Mor.	a Meg-Alt T scap	adv (sam)	3 3 4 4 5	F ₂
<i>Xanthium spinosum</i> L.	a Mes-Meg T scap	kosm (jam)	1 3 4 4 5	F ₁
<i>Xeranthemum annum</i> L.	a Mes-Meg T scap	med-subm-or-z.pont	1 3 2 4 5	F ₂
BORAGINACEAE				
<i>Anchusa officinalis</i> L.	a Meg H scap bienn/a H scap	se-i.subm-pan-z.pont	2 3 3 4 4	F ₁
<i>Asperugo procumbens</i> L.	v Mes-meg T scap	evr (bor-submerid)-sam (sin.)	2 4 5 4 3	F ₁
<i>Cerinthe minor</i> L.	v-a Mes-Meg H scap bienn/T scap	(ev)-med-subm-z.pont	2 4 3 4 5	F ₁
<i>Cynoglossum officinale</i> L.	a Mes-Meg H scap bienn	se-med-subm-pont-sr.sib	2 4 4 4 3	F ₁
<i>Echium italicum</i> L.	a-aut Meg H scao bienn	med-subm	1 4 3 4 5	F ₂
<i>Echium vulgare</i> L.	a Mes-Alt H scap bienn/a H scap	se-med-subm-pont-j.sib	1 3 3 5 4	F ₁
<i>Heliotropium europaeum</i> L.	a Mes-Meg T scap	med-subm-pan-z.pont	2 4 3 4 4	F ₁
<i>Lithospermum arvense</i> (L.) Vahl.	v-a N-Meg T scap	evr (subbor-merid)	2 3 3 3 3	F ₁
<i>Lithospermum purpureo-coeruleum</i> L.	v Mes-meg H scap	pont-subm	2 4 2 3 4	F ₁
<i>Myosotis arvensis</i> (L.) Hill.	a Mes H scap bienn/a T scap	se-med-subm-pan-pont-or	2 3 3 3 2	F ₁
<i>Myosotis sparsiflora</i> Mikan	v-a Mes-Meg T scap	se-z.subm-pont-j.sib	3 4 2 3 3	F ₁
BRASSICACEAE				
<i>Alliaria officinalis</i> Andrz.	v-a Meg H scap bienn	ev-med-z.tur	3 3 4 3 3	F ₁
<i>Alyssum alyssoides</i> (L.) L.	v Mi-Mes T scap	med-subm-pont	2 4 1 4 4	F ₁
<i>Alyssum desertorum</i> Stapf.	v Mi-Mes T scap	pan-pont-j.sib-or-tur	2 4 1 3 4	F ₁
<i>Alyssum margrafi</i> D.E. Schulz	a Mes-Meg H scap	balk (end)	2 3 1 3 3	F ₁
<i>Alyssum jancheni</i> Nyár	a Mes-Meg H scap	balk (end)		F ₁
<i>Armoracia lapathifolia</i> Gilib.	a meg-Alt G rad scap	adv (pont-kult)	3 3 4 3 4	F ₁

<i>Barbarea vulgaris</i> R. Br.	a Meg H scap	evr (subbor-merid)	3 3 3 4 3	F ₁
<i>Berteroa incana</i> (L.) DC.	a Mes H scap	se-pont-j.sib-tur	2 3 2 4 3	F ₃
<i>Calepina irregularis</i> (Asso) Thell.	a Mes-meg T scap	med-pont-tur	2 3 3 4 5	F ₁
<i>Capsella bursa pastoris</i> (L.) Med.	v-aut Mi-Meg T ros/H ros bienn	kosm (subm)	2 3 3 4 3	F ₁
<i>Cardamine hirsuta</i> L.	v-aut Mi-Mes T scap	kosm (evr)	3 2 3 3 3	F ₁
<i>Conringia orientalis</i> (L.) Andrz.	v-a Mes-meg T scap	i.med-i.subm-z.pont	1 5 2 4 4	F ₁
<i>Coronopus procumbens</i> Gilib.	v-a Mi-Mes T rept	kosm (med)		F ₁
<i>Descurainia sophia</i> (L.) Webb.	a Meg T scap/a H scap bienn	evr (temp-merid)	2 3 3 4 3	F ₁
<i>Diplotaxis muralis</i> (L.) DC.	v-a Mes T semiros/H semiros	se-subm	2 4 3 4 4	F ₂
<i>Erophila verna</i> (L.) Chevall.	v N-Mi T ros	med-pont-j.sib-tur	2 3 2 4 3	F ₁
<i>Erysimum diffusum</i> Ehrh.	a Mes-Meg H scap bienn	pont-j.sib-tur	1 3 1 4 4	F ₁
<i>Lepidium campestre</i> (L.) R.Br.	a Meg T scap/a H scap bienn	ev-subm-pont	2 4 3 4 3	F ₂
<i>Lepidium draba</i> L.	v-a Meg H scap	med-subm-pont-tur	2 4 3 3 4	F ₁
<i>Lepidium ruderale</i> L.	a Mes T scap	evr (temp-merid)	2 3 4 4 4	F ₁
<i>Myagrum perfoliatum</i> L.	v Mes T scap	i.subm-pont-tur	2 4 3 3 5	F ₁
<i>Raphanus raphanistrum</i> L.	v-a Meg T scap	evr (temp-merid)	3 2 3 4 4	F ₁
<i>Roripa austriaca</i> (Crantz.) Bess.	a Meg H scap	i.med-z.pont	4 3 3 3 4	F ₂
<i>Roripa kernerii</i> Menyh.	v-a Mi-Mes H scap bienn	panon	4 3 3 4 4	F ₁
<i>Roripa pyrenaica</i> (Lam.) Rchb.	a Mes H semiros-scap	subm (ev)	3 2 4 4 3	F ₁
<i>Roripa silvestris</i> (L.) Bess.	a Mi-Mes H scap	med-subm-pan-pont	4 4 3 4 4	F ₂
<i>Sinapis alba</i> L.	v-a Meg T scap	i.med-subm	2 4 3 4 4	F ₁
<i>Sinapis arvensis</i> L.	v-a Mes-Meg T scap	kosm (subm)	3 4 3 4 3	F ₁
<i>Sisymbrium loeselii</i> Jusl.	a Meg-Alt T scap	i.subm-pan-pont-tur	2 3 3 4 4	F ₁
<i>Syrenia cuspidata</i> (M.Bieb.)Reichenb.	a Meg T scap/a H scap bienn	i.subm-pan-z.pont-tur	3 3 2 4 4	F ₁
<i>Thlaspi arvense</i> L.	a Mes T scap	evr (temp-merid)	3 3 4 3 3	F ₁
<i>Thlaspi perfoliatum</i> L.	v Mi-Mes T scap-semiros	med-subm-pont-tur	2 4 2 4 4	F ₁
CANNABACEAE				
<i>Humulus lupulus</i> L.	a SH herb	evr-sam (subbor-temp)	4 3 4 3 3	F ₂
CARYOPHYLLACEAE				
<i>Agrostemma githago</i> L.	a Meg T scap	evr (temp-merid)	3 3 3 4 3	F ₁
<i>Arenaria serpyllifolia</i> L.	v-a Mi-mes T scap	ev-md-pont-tur	2 3 3 4 4	F ₁
<i>Cerastium brachypetalum</i> Pers.	a Mi-Mes T scap	ev-med-subm-z.pont	1 4 1 4 4	F ₁
<i>Cerastium caespitosum</i> Gilib. subsp. caespitosum	v-a Mi-Mes H scap	kosm (evr)	3 3 3 3 2	F ₁
<i>Cerastium glomeratum</i> Thuill.	a Mi-Mes T scap	kosm (med)	3 3 3 4 3	F ₁
<i>Herniaria glabra</i> L.	v-a Mi-Mes T rept/H rept bienn	evr (subbor-submerid)	2 3 2 4 3	F ₃
<i>Holosteum umbellatum</i> L. var. umbellatum	v Mi-mes T scap	evr (temp-submerid)	1 3 3 4 4	F ₁
<i>Lychnis flos cuculi</i> L.	a Meg H scap	se-ev (bor)-subm-pont-j.sib	4 3 3 4 3	F ₁
<i>Moenchia mantica</i> (L.) Bartal.	v-a Mes T scap	(ev)-c.i.med-c.i.subm-pan	3 3 2 3 4	F ₁
<i>Myosoton aquaticum</i> (L.) Moench.	a Mes-Meg H rept	evr (bor-subtemp)	4 3 4 3 3	F ₃
<i>Petrorhagia saxifraga</i> (L.) Link.	a Mes H caesp	c.i.med-pan-z.pont	1 4 2 4 4	F ₁

f. cinerascens Th. Wolf.				
Saponaria officinalis L.	a Meg H scap	se-med-pont-j.sib	2 4 3 3 3	F ₁
Scleranthus annuus L. subsp. polycarpus (Torn.) Thell.	v-aut Mi-Mes T scap/H bienn	evr (temp-submerid)	2 1 2 3 3	F ₁
Scleranthus dichotomus Schur	v-aut Mi-Mes H scap	i.subm-pan	1 4 1 4 4	F ₁
Silene alba (Mill.) Krause	a Meg H scap bienn/a H scap	evr (temp-submerid)	2 3 4 4 3	F ₁
Silene armeria L.	a Meg T scap/H scap bienn	evr-sam (temp-submerid)	2 2 1 4 4	F ₁
Silene conica L. subsp. conica Gusul.	v-a Mi-Mes T scap	evr (temp-submerid)	1 3 2 4 4	F ₂
Silene vulgaris (Moench) Garcke	a Meg H scap/a G rad	evr (bor-merid)	2 3 2 4 3	F ₁
Stellaria graminea L.	a Mes-Meg H scap	evr (bor-submerid)	3 2 3 3 3	F ₁
Stellaria media (L.) Vill.	v-aut Mi T rept	kosm (med)	3 3 4 3 3	F ₄
CHENOPODIACEAE				
Atriplex patula L.	aut Meg-Alt T scap	evr-sam (subbor-merid)	3 4 4 3 3	F ₃
Atriplex rosea L.	a-aut Mes-Meg T scap	med-subm-pan-pont.j.sib-or	3 3 3 4 4	F ₃
Atriplex tatarica L.	a Meg-Alt T scap	evr (temp-merid)	3 3 3 3 3	F ₃
Chenopodium album L. var. album	a Meg-Alt T scap	evr (bor-merid)	2 3 4 3 3	F ₃
Chenopodium botrys L.	a Mes-Meg T scap	evr (temp-merid)	2 3 3 4 5	F ₃
Chenopodium hybridum L.	a Mes-Meg T scap	evr (temp-merid)	3 4 4 4 3	F ₁
Chenopodium murale L.	a Meg-Alt T scap	kosm (med)	2 3 5 4 4	F ₃
Chenopodium opulifolium Scharad.	a Meg T scap	kosm (med)	2 3 3 4 4	F ₃
Chenopodium polyspermum L.	a Meg T scap	evr	3 3 4 3 3	F ₃
Chenopodium strictum Roth. subsp. stiatiforme	a Meg T scap	ev-z.az	2 3 3 4 4	F ₃
Chenopodium suecicum Murr var. viride (L.) Wahlenb	a Mes-Alt T scap	evr (temp-submerid)		F ₃
Kochia scoparia (L.) Scharad.	a Meg-Alt T scap	adv (ca)	2 3 3 4 4	F ₃
Salsola ruthenica Iljin.	a Mes-Alt T scap	pan-pont-j.sib-tur-ca	3 3 4 5 4	F ₃
CISTACEAE				
Fumana procumbens (Dunal.) Gren.	a Mes Ch suff rept	z.i.c.med-subm-se-z.pont-or	1 4 1 4 4	F ₁
CONVOLVULACEAE				
Calystegia sepium (L.) R.Br.	a SH herb	kosm (evr-sam)	4 4 4 3 3	F ₁
Convolvulus arvensis L.	a SG herb rhiz	kosm (med)	2 4 3 4 3	F ₂
CRASSULACEAE				
Sedum acre L.	N-Mi Ch herb caesp succ	atl-se-med	1 3 1 5 3	F ₁
CUCURBITACEAE				
Bryonia alba L.	a SG tub herb	sarm-i.subm-pont-j.sib	3 3 3 4 4	F ₁
CUSCUTACEAE				
Cuscuta epithyllum (L.) L.	ST par	atl-se-med-subm-pan-pont-j.sib	2 3 1 4 3	F ₁
CYPERACEAE				

<i>Carex hirta</i> L.	a Mes-Meg G rhiz caesp	ev-med-pont	3 3 3 3 3	F ₁
<i>Carex vulpina</i> L. f. <i>nemorosa</i> (Rebent.) Koch.	a Meg H caesp	evr (temp-submerid)	3 3 2 4 4	F ₁
<i>Cyperus fuscus</i> L.	a Mes emer Hyd T scap	evr (subbor-merid)	4 3 3 4 3	F ₁
<i>Heleocharis palustris</i> (L.) R.Br.	a Mes-Meg emer Hyd G rhiz	kosm (evr)	4 4 2 4 3	F ₁
DIPSACACEAE				
<i>Dipsacus laciniatus</i> L.	a Meg-Alt H scap bienn	c.ev-sarm-i.subm-pont-j.sib-or	3 4 4 4 5	F ₁
<i>Knautia arvensis</i> (L.) Goult	a Mes-Meg H scap/a H scap bienn	ev (boreo)-se-med-subm-pont-j.sib	2 3 2 4 3	F ₁
<i>Scabiosa ucranica</i> L.	v-a Meg H scap bienn/H scap	i.subm-pan-z.pont	1 5 1 5 5	F ₃
EQUISETACEAE				
<i>Equisetum arvense</i> L.	a Mes-Meg G rhiz scap	evr-sam (bor-temp)	3 3 3 3 3	F ₁
<i>Equisetum palustris</i> L.	a Meg G rhiz	evr-sam (bor-temp)	4 3 2 4 3	F ₃
EUPHORBIACEAE				
<i>Euphorbia cyparissias</i> L.	a Mes-Meg H scap	atl-se-c.subm-pan-sarm	2 3 2 4 3	F ₁
<i>Euphorbia helioscopia</i> L.	a Mi-Meg T scap	kosm (evr)	3 3 4 4 4	F ₁
<i>Euphorbia seguierana</i> Neck. subsp. <i>niciciana</i> (Borbas ex Novak) Reich.	a Mes-Meg G rad caesp	evr (temp-submerid)		F ₁
<i>Euphorbia stricta</i> L.	v-a Mes-Meg T scap/H bienn	ev-z.az.	3 4 3 3 4	F ₁
FABACEAE				
<i>Anthyllis vulneraria</i> L.	a Mes-Meg H scap	ev-med-subm-z.pont	1 4 2 4 3	F ₁
<i>Astragalus cicer</i> L. f. <i>microphyllus</i> (L.) Acherson et Graebn.	a Mes-Meg H scap	j.atl-subm-pont-sarm	2 4 3 3 3	F ₁
<i>Astragalus glycyphyllos</i> L.	a Mes-Meg H scap-rept	ev.i-subm-pont-j.sib-tur	2 3 2 3 4	F ₁
<i>Astragalus hamosus</i> L. f. <i>multiflorus</i>	v-a Mes-Meg T scap	med-subm-tur	1 5 2 4 4	F ₁
<i>Coronilla varia</i> L.	a Meg H scap	se-med-subm-pont-or	2 4 2 3 3	F ₁
<i>Dorycnium herbaceum</i> Vill.	Mes Ch suff caesp	med (ap-balk) c.subm-pan-pont	1 4 2 3 4	F ₁
<i>Galega officinalis</i> L.	a Meg H scap	c.i.subm-pan-pont-or	4 3 3 3 4	F ₂
<i>Genista tinctoria</i> L.	Meg fo dec Ch suff caesp	se-sarm-subm-pont-j.c.sib	3 2 2 4 3	F ₁
<i>Lathyrus aphaca</i> L.	a Mes T scap/ST herb	med-subm-pont-j.tur	2 3 3 3 4	F ₁
<i>Lathyrus sphaericus</i> Retz.	a Mes-Meg T scap	med-subm	1 4 2 3 5	F ₁
<i>Lathyrus tuberosus</i> L.	a Meg G tub rept	se-subm-pont-j.sib-or-i.afr	2 4 2 4 4	F ₁
<i>Lotus corniculatus</i> L.	a Mes H scap	ev-med-pont-j.sib-or-i.afr	2 4 3 4 3	F ₄
<i>Medicago arabica</i> (L.) Huds.	a Meg T scap	med-subm-or-tur	2 3 3 4 5	F ₁
<i>Medicago falcata</i> L.	a Mes-Meg H scap	ev-med-subm-pont-j.sib	2 4 2 4 4	F ₁
<i>Medicago lupulina</i> L.	a Mes T scap/a H scap	evr (temp-merid)-i.afr	2 4 3 3 4	F ₂
<i>Medicago minima</i> (L.) Bartal.	a Mi-Mes T scap	evr (submerid-merid)-i.afr.	1 4 1 4 3	F ₁
<i>Medicago orbicularis</i> (L.) All.	a Mes T scap	med-subm-or-tur	1 3 2 4 5	F ₂
<i>Medicago rigidula</i> (L.) Desr.	a Mi-Mes T scap	med-subm-or	1 3 2 4 5	F ₁
<i>Medicago sativa</i> L.	a Mes-Meg H scap	med-subm-or	2 4 3 4 4	F ₂
<i>Melilotus albus</i> Medic.	a Meg T scap/a H scap bienn	kosm (evr)	2 3 2 4 3	F ₁
<i>Melilotus officinalis</i> (L.) Pallas	a Meg-Alt H scap bienn	ev-subm-pont-j.sib-or-tur	2 4 3 4 3	F ₂

<i>Onobrychis viciaefolia</i> Scop.	a Meg H scap	adv (med;kult)	2 4 2 4 4	F ₁
<i>Ononis arvensis</i> L.	fo dec Mes Ch suff caesp	i.subm-pan-sarm-pont-j.sib	2 4 2 4 3	F ₁
<i>Ononis spinosa</i> L.	fo dec Mes-Meg Ch suff caesp	atl-c.ev	2 3 2 4 5	F ₁
<i>Robinia pseudo-acacia</i> L.	fo dec Mes P scap	adv (sam)	2 3 4 3 4	F ₁
<i>Trifolium campestre</i> Schreb.	a Mes T scap	ev-med-subm-z.pont-or-tur	2 3 2 4 3	F ₁
<i>Trifolium dubium</i> Sibth.	v-a Mi-Mes T scap	ev-z.az	3 3 2 3 3	F ₁
<i>Trifolium fragiferum</i> L.	a Mes H rept	ev-med-subm-pont-j.sib-or-tur	3 4 2 4 4	F ₁
<i>Trifolium incarnatum</i> L.	a Mes-Meg T scap	subatl-med-subm	2 3 3 4 5	F ₁
<i>Trifolium patens</i> Schreb.	a Mes-Meg T scap	(ev) med-subm	4 3 2 4 4	F ₁
<i>Trifolium pratense</i> L.	a Mes H scap	ev-med-subm-pont-j.sib	3 3 3 3 3	F ₂
<i>Trifolium repens</i> L.	a Mi H rept	kosm (evr)	3 3 4 4 3	F ₁
<i>Trifolium resupinatum</i> L.	a Mes T scap	med-subm-or-tur	3 3 2 4 5	F ₁
<i>Vicia angustifolia</i> L. var. <i>cordata</i> (Wulfen) Boiss.	v-a Mes-Meg T scap/H scap bienn	ev-z.az	2 3 3 4 4	F ₁
<i>Vicia cracca</i> L. var. <i>linearis</i> Petern	a Meg-Alt H scap/SH herb	evr (bor-merid)	3 3 3 4 3	F ₂
<i>Vicia grandiflora</i> Scop.	a Meg T scap/ST herb	i.subm-pan-z.pont	2 3 2 3 3	F ₁
<i>Vicia hirsuta</i> (L.) S.F.Gray f. <i>fissa</i> (Frol) Beck.	a Mes-Meg T scap/ST herb	ev-med-pont-j.sib	2 3 2 4 3	F ₁
<i>Vicia lutea</i> L.	v-a Mes-Meg T scap	z.c.med-subm-or-tur	2 3 2 3 5	F ₂
<i>Vicia pannonica</i> Crantz	a Mes-Meg T scap/ST herb	ev-med-subm-z.pont	2 3 2 3 3	F ₁
<i>Vicia sativa</i> L.	a Mes-Meg T scap/ST herb	kosm (med;kult)	3 3 3 3 3	F ₂
<i>Vicia striata</i> M. Bieberst.	a Mes-Meg T scap	i.med-i.subm-or	2 4 3 3 5	F ₁
<i>Vicia villosa</i> Roth.	a Meg-Alt T scap/ST herb	c.i.subm-sarm-pont	2 3 3 3 4	F ₁
FUMARIACEAE				
<i>Fumaria officinalis</i> L.	a Mi-Mes T scap	ev-med-subm-pont-or	2 3 4 3 3	F ₁
GERANIACEAE				
<i>Erodium cicutarium</i> (L.) L' Herit	v-a Mi-Mes T semiros-scap	evr (submerid-merid)	2 3 3 4 3	F ₁
<i>Geranium dissectum</i> L.	a Mi-Meg T scap	atl-c.ev-med-subm-pan-or	2 3 3 4 4	F ₁
<i>Geranium molle</i> L.	a Mi-mes T scap/a H scap bienn	se-sarm-med-subm	2 3 3 4 3	F ₁
<i>Geranium pyrenaicum</i> Burm.	a Mes-Meg H scap	atl-c.ev-med-subm	3 3 3 3 4	F ₁
HYPERICACEAE				
<i>Hypericum perforatum</i> L.	a Mes-Meg H scap	se-med-pont-j.sr.sib-or-tur	2 3 3 3 3	F ₁
JUNCACEAE				
<i>Juncus articulatus</i> L. var. <i>articulatus</i> f. <i>articulatus</i>	a Mes-Meg G rhiz caesp	evr-sam (bor-merid)	4 3 2 4 3	F ₁
LAMIACEAE				
<i>Ajuga genevensis</i> L.	a Mi-Mes H semiros	se-subm-pont	2 3 2 3 3	F ₁
<i>Ajuga reptans</i> L.	a Mes H rept	se-med-subm	3 3 3 3 3	F ₁
<i>Ballota nigra</i> L.	a Meg H scap	se-med-subm-pont-or-tur	3 3 4 4 4	F ₄
<i>Galeopsis ladanum</i> L.	a Mes-Meg T scap	evr (temp-submerid)-sam (sin)	2 4 2 4 2	F ₁

<i>Glechoma hederacea</i> L.	a Mes-Meg H rept/Ch herb rept	evr (subor-submerid)	3 3 3 3 3	F ₁
<i>Lamium amplexicaule</i> L.	v Mi-Mes T scap	evr (temp-submerid)-i.afr	2 3 4 3 3	F ₁
<i>Lamium maculatum</i> L. var. <i>nemorale</i> Rchb.	v-a Mes-Meg H scap	se-subm-z.pont	3 3 3 3 3	F ₁
<i>Lamium purpureum</i> L.	v Mi-Mes T scap	se-med-subm-pont	3 4 4 4 3	F ₁
<i>Lycopus europaeus</i> L.	a Mes-Meg H scap/emerg Hyd G rhiz	evr (subbor-merid)	5 3 3 3 3	F ₃
<i>Marrubium peregrinum</i> L.	a Meg-Alt H scap	balk-pan-z.pont	2 3 3 4 4	F ₄
<i>Mentha aquatica</i> L. f. <i>ortmanniana</i> (Op.) H.Br.	a Mes-Meg H scap	evr (subbor-submerid)-afr (boreosubtrop)	5 3 3 3 3	F ₃
<i>Mentha longifolia</i> (L.) Huds. subsp. <i>longifolia</i>	a Mes-Meg H scap	evr (temp-merid)-afr (boreosubtrop)	4 4 4 3 3	F ₃
<i>Prunella vulgaris</i> L.	a Mi-Mes H scap-semiros	evr-sam (subbor-submerid)	3 3 3 4 3	F ₁
<i>Salvia amplexicaulis</i> Lam.	a Meg-Alt H scap	i.med-i.subm	2 4 3 4 4	F ₂
<i>Salvia nemorosa</i> L.	a Mes-Meg H scap	sarm-i.subm-pont-j.sib-or-tur		F ₃
<i>Salvia pratensis</i> L.	a Mes-Meg H scap	subm-pont-j.sib		F ₁
<i>Salvia verticillata</i> L.	a Mes-Meg H scap	se-subm-pont-j.sib		F ₂
<i>Scutellaria galericulata</i> L.	a Mi-Meg G rhiz scap	evr-sam (bor-temp)	4 3 3 3 3	F ₁
<i>Stachys palustris</i> L.	a Mes-Meg H scap	evr-sam (bor-submerid)	4 3 3 3 3	F ₁
<i>Teucrium chamaedrys</i> L.	Mes Ch suff caesp	med-subm-z.pont-or	1 4 1 4 3	F ₂
<i>Thymus moesiacus</i> Vel. subvar. <i>farinulentus</i> Ronn. in Hayek	v-a Mi-Mes Ch herb rept	balk (end.)	1 3 2 3 5	F ₁
LILIACEAE				
<i>Ornithogalum umbellatum</i> L.	v Mi G bulb scap	se-med-subm-pan-z.pont	3 4 3 4 4	F ₁
LINACEAE				
<i>Linum austriacum</i> L.	a Mi-Meg H scap	subm-pan-pont-(herc)	1 4 2 4 4	F ₁
LYTHRACEAE				
<i>Lythrum salicaria</i> L. var. <i>tomentosum</i> (Mill.) D	a Meg-Alt H scap	kosm (evr)	4 3 3 3 3	F ₂
MALVACEAE				
<i>Althaea hirsuta</i> L.	a Mes-Meg T scap	med-subm-pan-pont-or	2 4 3 4 5	F ₁
<i>Althaea rosea</i> (L.) Cav.	a Meg-Alt H scap	adv (kult)		F ₃
<i>Malva pusilla</i> Sm.	a-aut Mes-Meg T scap	evr (temp-submerid)	2 3 3 4 4	F ₁
<i>Malva sylvestris</i> L.	a Meg-Alt H scap bienn/a H scap	kosm (evr)	2 3 4 4 4	F ₁
OENOTHERACEAE				
<i>Chamaenerion angustifolium</i> (L.) Scop.	a Meg-Alt H scap	evr-sam (bor-submerid)		F ₁
<i>Epilobium hirsutum</i> L. var. <i>villosum</i> (roch.) Hausskn.	a Mes-Meg H scap	evr (subbor-merid)-afr (boreo-austrosubtrop)	4 4 4 3 4	F ₁
OLEACEAE				
<i>Ligustrum vulgare</i> L.	fo dec NP caesp	atl-se-med-subm-or	3 4 2 3 4	F ₁
PAPAVERACEAE				
<i>Chelidonium majus</i> L.	v-a Mes-Meg H semiros	evr (temp-submerid)	3 3 4 3 3	F ₁
<i>Papaver dubium</i> L.	a Meg T scap	atl-se-med-subm-z.pont-or-afr (boreosubtrop)	2 3 3 3 3	F ₁

Papaver rhoeas L.	a Meg t scap	ev-med-subm-pont-j.sib-or	3 4 3 3 3	F ₁
PLANTAGINACEAE				
Plantago lanceolata L.	a Mi-Meg H ros	evr (subbor-temp)	3 3 3 3 3	F ₂
Plantago major L.	a Mes-Meg H ros	kosm (evr-sam)	3 3 3 4 3	F ₂
Plantago media L.	a Mes-Meg H ros	evr (temp-submerid)	2 4 2 4 3	F ₃
POACEAE				
Achnatherum calamagrostis (L.) Beauv.	a Meg-Alt H scap	JEP (južnoevropsko planinska)		F ₁
Agropyron repens (L.) Beauv. f. aristatum (Neilr.) Hayek.	a Mes-Meg G rhiz caesp	kosm (evr)	3 3 4 4 3	F ₂
Agrostis alba L.	a Mes-Alt H scap	evr-sam (bor-submerid)	4 3 3 4 3	F ₂
Alopecurus myosuroides Huds.	a Mes-Meg T caesp	atl-med-subm-or-tur	3 3 3 4 5	F ₁
Alopecurus pratensis L.	a Meg-Alt H caesp	evr (subbor-submerid)	3 3 4 3 3	F ₁
Andropogon ischaemum L.	a Mes H caesp	evr (temp-merid)	2 3 2 5 5	F ₁
Anthoxanthum odoratum L.	a Mes-Meg H caesp	ev-med-subm-z.pont-sr.sib	3 2 3 4 3	F ₁
Apera spica-venti (L.) Beauv.	a Mes-Meg T scap	ev-subm-pont-j.sr.sib	3 2 3 3 3	F ₁
Briza media L.	a Mes-Meg H caesp	evr (subbor-submerid)	3 3 2 4 3	F ₁
Bromus commutatus Schrader	a Meg T scap	subatl-se-c.subm	2 3 3 3 4	F ₁
Bromus inermis Leyssr	a Meg-Alt H caesp	evr (subbor-temp)-sam(temp-submerid)	2 4 3 4 3	F ₁
Bromus mollis L. subsp. hordeaceus	a Mi-Meg T scap	kosm (ev-med-subm-z.pont)	3 3 3 3 3	F ₂
Bromus racemosus L.	v-a Mes-Meg T scap	ev-z.az	4 3 3 3 3	F ₁
Bromus squarosus L.	a Mes-Meg T scap	med-subm-pan-pont-j.sib-or-tur	2 3 3 4 4	F ₁
Bromus sterilis L.	a Mes-Meg T caesp	se-sarm-med-subm-pont-or	2 3 4 3 3	F ₁
Bromus tectorum L.	a Mes-Meg T scap	ev-med-subm-pont-j.sib-or-tur	1 3 3 4 4	F ₁
Cynodon dactylon (L.) Pers.	a Mes G rhiz rept-caesp	kosm (med-or-tur)	2 3 3 4 5	F ₂
Dactylis glomerata L.	a Meg H caesp	ev-med-subm-pont-j.sib-or-tur-ca	3 3 4 3 3	F ₁
Digitaria sanguinalis (L.) Scop.	a Mes T caesp-rept	evr-sam (subbor-merid)	2 3 3 4 4	F ₃
Eragrostis pilosa (L.) Beauv.	a Mes-Meg T caesp	kosm (med)	1 2 3 4 5	F ₁
Festuca arundinacea Schreb. var. orientalis (Kern.) Hack.	a Meg-Alt H caesp	subm-pont-j.sib-tur	4 4 3 4 3	F ₁
Festuca pratensis Huds.	a Meg H caesp	ev-subm-pont-j.sib-ca	3 3 3 4 3	F ₁
Festuca rubra L. subsp. rubra	a Mes-Meg H caesp	evr-sam (bor-merid)	3 3 3 3 3	F ₁
Festuca valesiaca Schleicher ex Gaudin	a Meg H caesp	ev-subm-pont-j.sib-ca	1 3 2 4 4	F ₁
Glyceria fluitans (L.) R.Br.	v-aut Meg-Alt Hyd G rhiz	evr (bor-submerid)-sam	5 3 3 3 3	F ₂
Holcus lanatus L.	a Meg H caesp	atl-med-se-sarm-z.pont	3 3 3 4 3	F ₁
Hordeum murinum L.	a Mes T caesp	med-subm-sarm-z.pont	2 3 4 4 4	F ₁
Hordeum murinum L. subsp. leporinum (Link) A.et G.	a Mes T caesp	med-subm-sarm-z.pont	2 3 4 4 4	F ₁
Koeleria macrantha (Lebedev.) Schultes	a Mes H scap	evr-sam (temp-submerid)		F ₁
Lolium perenne L.	a Mes H caesp	ev-med-subm	3 3 4 4 3	F ₂

<i>Lolium remotum</i> Schrank	a Mes-Alt T scap	evr (temp)	2 3 3 4 4	F ₂
<i>Melica ciliata</i> L.	a Mes-Meg H caesp	se-med-subm (ev)	1 4 1 4 4	F ₂
<i>Panicum crus-galli</i> (L.) Beauv. var. <i>brevisetum</i> Doell.	a Meg-Alt T caesp	kosm (subtrop-trop)	3 3 4 3 4	F ₁
<i>Phragmites communis</i> Trin	Alt emer Hyd G rhiz	kosm (evr-sam)	5 3 3 3 3	F ₁
<i>Poa annua</i> L.	v-aut N-Mes T caesp	kosm (evr-sam)	3 3 4 4 3	F ₁
<i>Poa bulbosa</i> L. f. <i>vivipara</i>	a Mes-Meg H scap	ev-med-subm-pont-j.sib-or-tur-ca	2 3 2 4 4	F ₁
<i>Poa compressa</i> L.	a Mes H caesp	kosm (evr)	2 4 2 4 3	F ₁
<i>Poa pratensis</i> L. subsp. <i>angustifolia</i> (L.) Sm.	a Mes-Meg H caesp	kosm (evr-sam)	3 3 3 3 3	F ₁
<i>Sclerochloa dura</i> (L.) Beauv.	v N-Mi T caesp	med-subm-pont-or-tur	1 3 3 5 5	F ₁
<i>Setaria glauca</i> (L.) P.B.	a-aut Mes-Meg T caesp	kosm (evr-sam)	2 3 3 4 4	F ₁
<i>Setaria viridis</i> (L.) Beauv.	a-aut Mes-Meg T caesp	kosm (evr-sam)	2 3 4 4 4	F ₁
<i>Sorghum halepense</i> (L.) Pers.	a-aut Meg-Alt G rhiz caesp	adv (paleotrop)	2 2 3 4 5	F ₁
<i>Triticum cylindricum</i> Ces.	a Mi-Mes T scap	i.med-subm-pont-or-tur		F ₁
<i>Triticum ovatum</i> Gren. et Godr.	v-a Mes T caesp	med-subm-tur		F ₁
<i>Triticum villosum</i> M.B.	a Mes-Meg T scap	med-subm		F ₁
<i>Vulpia myorus</i> (L.) Gmel.	a Mes-Meg T caesp	se-med-subm-z.pont-or-tur-ca	1 2 2 4 4	F ₃
POLYGONACEAE				
<i>Bilderdykia convolvulus</i> (L.) Dumort	a Mes-Meg T scap/SH herb	kosm (evr)	3 3 3 3 3	F ₁
<i>Bilderdykia dumetorum</i> (L.) Dumort	a Meg T scap/SH herb	evr (temp-submerid)	3 3 3 3 3	F ₁
<i>Polygonum aviculare</i> L.	a-aut Mi-Meg T rept	kosm (trop)	3 3 4 4 3	F ₃
<i>Polygonum lapathifolium</i> L.	a-aut Meg T scap	evr (bor-trop)-sam (subbor-boreotrop)	3 3 4 3 3	F ₃
<i>Polygonum persicaria</i> L.	a-aut Meg T scap	evr (bor-merid)	3 3 4 3 3	F ₃
<i>Rumex acetosella</i> L.	a Mes-Meg H scap	evr-sam (bor-merid)	2 1 1 5 3	F ₂
<i>Rumex crispus</i> L.	a Meg-Alt H scap	kosm (evr)	3 3 3 4 3	F ₂
<i>Rumex obtusifolius</i> L.	a Meg H scap	se-subm-pont	3 3 4 4 3	F ₁
<i>Rumex pulcher</i> L.	v-a Mes-meg H scap/v-a T scap	med-subm-or	2 3 3 4 4	F ₁
PORTULACACEAE				
<i>Portulaca oleraceae</i> L.	a Mes T scap	adv (az)	3 3 4 4 3	F ₃
PRIMULACEAE				
<i>Anagalis arvensis</i> L.	v-aut Mi T rept	kosm (med)	3 3 3 3 3	F ₁
<i>Anagalis femina</i> Mill.	v-aut Mi T rept	se-med-subm-z.pont	2 4 3 4 3	F ₁
RANUNCULACEAE				
<i>Adonis flammea</i> Jacq.	a Mes-Meg T scap	subm-se-pan-z.pont-or	2 5 2 3 4	F ₁
<i>Clematis vitalba</i> L.	a dec S lig	se-med-subm	3 4 3 3 3	F ₂
<i>Consolida orientalis</i> (Gay.)Schrodinger	a Meg T scap	med-or-tur-z.pont	2 3 2 3 4	F ₁
<i>Consolida regalis</i> S.F.Grey	a Mes-Meg T scap	se-subm-pont-j.sib	2 4 3 3 4	F ₃
<i>Nigella damascena</i> L.	a Mes T scap	med-subm-or	2 4 3 4 5	F ₁
<i>Ranunculus arvensis</i> L.	a Mes-Meg T scap-semiros	se-med-or-tur-ca	2 4 3 3 4	F ₁
<i>Ranunculus ficaria</i> L.	v Mi-Mes G scap	evr (bor-submerid)	3 3 4 3 3	F ₁

Ranunculus millefoliatus Vahl.	v-a Mes H scap/G tub	c.i.med-subm		F ₁
Ranunculus repens L.	a Mes-Meg H rept	evr (bor-submerid)	4 3 3 3 3	F ₂
Ranunculus sardous Cr. var. sardous	a Mes-Meg T scap-semiros	se-med-subm	4 3 3 4 4	F ₁
Ranunculus sceleratus L.	a Mes-Meg emer Hyd T semiros	kosm (evr)	4 4 5 4 4	F ₁
Ranunculus serbicus Vis.	a Meg H scap/G rhiz	sr.balk.j.apen (subend)	2 3 3 2 2	F ₂
RESEDACEAE				
Reseda lutea L.	a Mes-Meg H scap/a T scap	se-med-subm-pont-or	2 4 3 4 4	F ₁
Reseda luteola L.	a Mes-Alt H scap bienn/T scap	atl-se-med-subm-or	2 4 2 4 4	F ₁
ROSACEAE				
Agrimonia eupatoria L.	a Meg H scap	ev-med-subm-or-pont-j.sib-tur	2 4 3 4 3	F ₁
Crataegus monogyna Jacq.	fo dec NP caesp	se-med-subm-pont	3 4 2 4 3	F ₁
Filipendula hexapetala Gilib.	a Meg H scap	evr (subbor-submerid)	2 3 2 4 4	F ₁
Fr agaria vesca L.	a Mes H rept	evr (subbor-submerid)-sam (temp)	3 3 3 3 3	F ₁
Geum urbanum L.	a Meg H scap	se-pont-j.sr.sib-tur	3 3 4 2 3	F ₁
Potentilla argentea L. var. argentea	a Mes-Meg H scap	evr (temp-submerid)	1 3 1 4 3	F ₁
Potentilla argentea L. var. dissecta Wallr.	a Mes-Meg H scap	evr (temp-submerid)	1 3 1 4 3	F ₁
Potentilla hirta L. var. pedata (Willd.) Koch. f. pedata	a Mes-Meg H scap	(ev) med-subm-z.pont	1 4 2 4 5	F ₂
Potentilla reptans L.	a Mi-Mes H rept	kosm (evr)	3 3 2 3 3	F ₁
Rosa canina L.	fo dec NP caesp	ev-med-subm-pont-or-tur	3 3 2 3 3	F ₁
Rubus caesius L.	fo dec NP rept	evr (temp-submerid)	4 3 5 3 4	F ₁
Rubus discolor Weihe et Nees	fo dec NP rept	atl.z.c.med-subm		F ₃
Sanguisorba minor Scop. subsp. minor	a Mes-Meg H scap	evr (temp-submerid)	2 4 2 4 3	F ₂
RUBIACEAE				
Galium aparine L.	Mes-Meg ST herb	kosm (evr)	3 3 3 3 3	F ₂
Galium cruciata (L.) Scop. f. cruciata	v-a Mes-Meg H scap	evr (temp-submerid)	3 3 3 4 3	F ₁
Galium lucidum All.	a Mes-Meg H scap	med-subm-se	1 4 1 4 3	F ₁
Galium mollugo L.	a Meg-Alt H scap	se-med-subm	3 3 3 3 3	F ₂
Galium verum L.	a Mes-Meg H scap	kosm (med)	2 4 2 4 3	F ₂
SALICACEAE				
Salix triandra L.	fo dec Mes P caesp-scap	evr (bor-submerid)	4 4 3 4 3	F ₁
SAMBUCACEAE				
Sambucus ebulus L.	a Alt G rad scap/a H scap	se-med-subm-pont-j.sib-or-tur	3 4 4 4 4	F ₂
Sambucus nigra L.	fo dec Mi P scap	se-med-subm-pont-j.sib	3 3 4 3 4	F ₁
SANTALACEAE				

<i>Thesium ramosum</i> Hayne	a Mes H scap/H bienn	evr (temp-submerid)	2 4 1 3 3	F ₁
SCROPHULARIACEAE				
<i>Linaria concolor</i> Gris. var. <i>concolor</i>	a Mes-Meg H scap	balk (end)	1 3 1 4 3	F ₃
<i>Linaria vulgaris</i> Mill.	a-aut Mes-Meg H scap	evr (subbor-submerid)	3 3 3 4 3	F ₃
<i>Melampyrum arvense</i> L.	a Mes-Meg T scap	evr (temp-submerid)	2 4 3 4 3	F ₁
<i>Rhinanthus major</i> L.	v-a Mes-Meg T scap	se		F ₁
<i>Verbascum phlomoides</i> L.	a Meg-Alt H ros bienn	se-med (ev)-subm (ev)-pan-z.pont	2 4 3 4 5	F ₂
<i>Veronica anagalis-aquatica</i> L.	a Mes-Meg H scap	kosm (evr)	5 3 3 4 3	F ₁
<i>Veronica arvensis</i> L.	v-a N-Mes T scap	kosm (med)	3 3 3 3 3	F ₁
<i>Veronica beccabunga</i> L.	v-a Mes-Meg H rept	evr (bor-submerid)	5 3 4 3 3	F ₁
<i>Veronica chamaedrys</i> L.	v-a Mi-Mes H scap	se-subm-pont-j.sib	3 3 3 3 3	F ₁
<i>Veronica hederifolia</i> L.	v Mi-Mes T scap	se-med-subm-pont	3 3 4 3 3	F ₁
<i>Veronica persica</i> Poir.	v-aut N-Mes T scap	kosm (med-subm)	3 4 4 3 3	F ₁
SOLANACEAE				
<i>Datura stramonium</i> L.	a-aut Meg-Alt T scap	kosm (evr-sam)	3 3 4 4 4	F ₃
<i>Hyosciamus niger</i> L.	a-aut Mes-Meg T scap/H scap bienn	evr (temp-merid)	2 3 5 4 3	F ₁
<i>Lycium vulgare</i> Dum.	fo dec NP caesp	adv (med)		F ₁
<i>Physalis alkekengi</i> L.	a-aut Mes-Meg G rhiz rept	se-med-subm-z.pont	3 4 4 3 4	F ₁
<i>Solanum dulcamara</i> L.	a Meg-Alt S lig	evr (temp-submerid)	4 3 4 3 3	F ₃
<i>Solanum nigrum</i> L.	v-aut Mes-Meg T scap	kosm (evr-sam)	3 3 4 4 3	F ₃
TYPHACEAE				
<i>Typha angustifolia</i> L.	Alt emer Hyd G rhiz	evr-sam (subbor-temp)	5 3 3 4 4	F ₁
URTICACEAE				
<i>Urtica dioica</i> L.	a Mes-Alt H scap	evr-sam (bor-temp)	3 3 5 3 3	F ₄
<i>Urtica urens</i> L.	a Mes-Meg T scap	evr-sam (bor-temp)	3 3 5 4 3	F ₁
VALERIANACEAE				
<i>Valerianella carinata</i> Lois.	v Mi-Mes T scap	atl-se-med-subm	2 4 3 4 4	F ₃
<i>Valerianella locusta</i> (L.) Betcke	a Mes T scap	kosm (med)	3 3 3 4 3	F ₃
<i>Valerianella turgida</i> (Stev.) Betcke	v Mes T scap	i.med-subm		F ₃
VERBENACEAE				
<i>Verbena officinalis</i> L.	a Mes-Meg H scap	kosm (evr-s.afr)	2 3 4 4 3	F ₃
VIOLACEAE				
<i>Viola tricolor</i> L. subsp. <i>tricolor</i>	v-a Mes T scap	evr (temp-submerid)	3 3 3 3 3	F ₁

