

VIOLA PYRENAICA RAMOND EX DC IN THE NORTHERN PART OF THE DINARIC MOUNTAINS (THE PLATEAUS OF TRNOVSKI GOZD AND NANOS, SLOVENIA)

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Abstract

The article describes new localities of a south-European montane species *Viola pyrenaica* in the Julian Alps and in the Trnovski gozd and Nanos plateaus (the northern part of the Dinaric mountains). It has been established that in the localities known so far in Slovenia, the species grows on similar sites as elsewhere in the Alps and other mountain ranges of the Balkan Peninsula, above all on overgrown screes, stony grasslands, on forest edges, in light forests on stony ground and in tall herb communities on calcareous bedrock in the submontane, montane and subalpine belt (450 to 1600 m a.s.l.). The floristic composition of the communities in which it grows is presented in four tables. On the Trnovski gozd plateau it was found in various successional stages of abandoned pastures or grasslands of the association *Genisto sericeae-Seslerietum kalnikensis* and in open coppice stands of hop hornbeam and flowering ash, which are classified into the association *Seslerio autumnalis-Ostryetum carpinifoliae*.

Key words: *Viola pyrenaica*, syntaxonomy, *Carpinion orientalis*, *Satureion subspicatae*, the Julian Alps, the Trnovski gozd plateau, the Nanos plateau, the Dinaric mountains, Slovenia.

Izveček

V članku smo opisali nova nahajališča južnoevropske montanske vrste *Viola pyrenaica* v Julijskih Alpah ter v Trnovskem gozdu in pod Nanosom (severni del Dinarskega gorstva). Ugotavljamo, da ta vrsta na doslej znanih nahajališčih v Sloveniji uspeva na podobnih rastiščih kot drugod v Alpah in v gorovjih Balkanskega polotoka, predvsem na poraslem grušču, v kamnitih travščih, na gozdnih robovih, v svetlih kamnitih gozdovih in v združbah visokih steblik na apnenčasti podlagi v submontanskem, montanskem in subalpinskem pasu (450 do 1600 m nm. v.). Floristično sestavo združb, v katerih uspeva, prikazujemo v štirih tabelah. V Trnovskem gozdu smo jo našli v različnih stadijih zaraščanja na travščih iz asociacije *Genisto sericeae-Seslerietum kalnikensis* in v vrzelastih panjevskih sestojih črnega gabra in malega jesena, ki jih uvrščamo v asociacijo *Seslerio autumnalis-Ostryetum carpinifoliae*.

Ključne besede: *Viola pyrenaica*, sintaksonomija, *Carpinion orientalis*, *Satureion subspicatae*, Julijske Alpe, Trnovski gozd, Nanos, Dinarsko gorstvo, Slovenija.

1. INTRODUCTION

In Slovenia, the south-European montane species *Viola pyrenaica* has had the status of rare species so far and is included into the Red list of vascular plants (Wraber & Skoberne 1989: 336, Wraber et al. 2002: 8910). During our research in the last

few years (Surina 2004: 232–233, Dakskobler 2005: 183–184) we have discovered several new localities and concluded that on account of its early blooming the species has probably been a slightly overlooked representative of Slovenian montane (Alpine) flora. This hypothesis was tested in 2006 and the results are presented in this article.

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2. METHODS

The flora and vegetation were researched applying the standard Central-European methods (Ehrendorfer & Hamman 1965, Braun-Blanquet 1964). Field data (floristic and phytosociological relevés) were entered into the FloVegSi database (T. Seliškar et al. 2003). This application was used also in the preparation of maps, including the distribution map. The relevés were arranged into the phytosociological tables applying numerical methods (hierarchical classification, PCoA ordination method). Program package SYN-TAX (Podani 2001) was used. Combined cover-abundance values were transformed into the ordinal scale following van der Maarel (1979). The nomenclature follows the *Mala flora Slovenije* (Martinčič et al. 1999) for vascular plants, and Frahm & Frey (1992) and Martinčič (2003) for mosses. Syntaxonomical units and their authors are listed in the Appendix. When describing new localities we used basic topographical maps of the Republic of Slovenia 1: 5 000 and 1: 10 000 (GURS), as well as the *Atlas of Slovenia* in the scale of 1: 50 000 (3rd edition, 1996).

3. RESULTS

3.1 Distribution of *Viola pyrenaica* in the Julian Alps

Viola pyrenaica is disjunctly distributed in the larger part of the Alps as well as in other south- and Central-European mountain ranges (Aeschmann et al. 2004: 436). The localities known so far in the Julian Alps (Mayer 1954: 10, Wraber & Skoberne 1989: 336, Surina 2004: 232–233, Dakskobler 2005: 183–184) are now supplemented with the following new data (written in bold are the localities in the new quadrants of the Central-European flora mapping):

9749/4 (UTM VM11): the Bača Valley, Trtnik, around 630 to 700 m a.s.l., road bank, breccia, stony grassland. Leg. & det. I. Dakskobler, 1. 4. 2006 and 17. 3. 2007, working herbarium ZRC SAZU.

9749/4 (UTM VM12): the Bohinj region, Lisec near Mt. Črna prst, the saddle under Mali Lisec, 1590 m a.s.l., in a tall herb community (*Centaureo julicae-Laserpitietum sileris* s. lat. – relevé 1 in Table 1). Leg. & det. I. Dakskobler, 9. 8. 2006, working herbarium ZRC SAZU.

9749/4 (UTM VM22): the Bača Valley, stony gullies, stony grasslands, tall herb communities under the Slatnik ridge, at about 1250 to 1420 m a.s.l. Leg. & det. I. Dakskobler, 14. 5. 2006, working herbarium ZRC SAZU.

9749/1 (UTM VM12): the Bohinj region, the left bank of the Sava Bohinjka river, at about 520 m s. s. l., screes under Rsnik, which are overgrown with pioneer woods of *Picea abies*, *Fraxinus excelsior*, *Acer pseudoplatanus*, *Carpinus betulus*, *Tilia platyphyllos*, *Corylus avellana*, *Frangula alnus* etc. Leg. & det. I. Dakskobler, I. Veber & B. Zupan, 25. 5. 2007, working herbarium ZRC SAZU.

9750/3 (UTM VM22): the Bača Valley, stony grasslands and gullies on the sunny slopes of the Lajnar ridge above the upper Bača Valley, near Kovce, at about 1200 to 1350 m a.s.l. Leg. & det. I. Dakskobler, 14. 5. 2006, working herbarium ZRC SAZU.

9747/1 (UTM UM82): the Krn mountains, the slopes of Morizna opposite the village of Trnovo: Labrje, at about 490 to 660 m a.s.l., limestone, hillside scree (talus), debris rocks, a hop hornbeam and flowering ash community (*Fraxino ornio-Ostryetum* s. lat.) – relevés 1 to 5 in Table 3. Leg. & det. I. Dakskobler, 12. 5. 2006, working herbarium ZRC SAZU.

9647/4 (UTM UM93): the Bovec region, the Lepena valley, the left bank of the Lepenica along the snowlip under Peščenek: under Bulovec, stony grassland, together with *Genista radiata*, *Festuca calva*, *Primula veris* subsp. *columnae*, *Vinca minor*, *Verbascum lychnitis*, *Carduus crassifolius*, *Aconitum angustifolium*, *A. lycoctonum*, *Fragaria vesca*, *Cruciata glabra*, *Viola riviniana*, *Dactylis glomerata*, *Mercurialis perennis*, *Calamagrostis varia* etc., at about 460 m a.s.l. Leg. & det. I. Dakskobler, 4. 5. 2006, working herbarium ZRC SAZU.

9647/4 (UTM UM92): the Bovec region, the Lepena valley, on the right bank of the Lepenica: stony grassland opposite the Kavšč homestead, at about 480 m a.s.l., together with *Brachypodium rupestre*, *Bromus erectus* agg., *Cytisus pseudoprocumbens*, *Chamaecytisus purpureus*, *Medicago falcata*, *Acinos alpinus* etc. Leg. & det. I. Dakskobler, 16. 5. 2006, working herbarium ZRC SAZU.

9648/3 (UTM UM92): the Bovec region, the upper part of the Lepena valley, stony meadows and for-

est edges along the road towards the end of the valley near the Štefan homestead and upstream from the Gajger homestead at about 620 to 670 m a.s.l.; stony grasslands under Okroglica near the path to the Lepenica waterfall, at about 800 m a.s.l. Leg. & det. I. Dakskobler, 4. 5. 2006, working herbarium ZRC SAZU.

9648/4 (UTM VM02): the Bohinj region, hillside scree under Stador, above the Črno jezero, in open pioneer stand of *Acer pseudoplatanus*, 1350 m a.s.l. Leg. & det. I. Dakskobler & B. Zupan, 7. 9. 2007, working herbarium ZRC SAZU.

9647/1 (UTM UM83): the Bovec region, the Možnica valley, the upper part of the valley between Mirnik and Korita, hillside scree under the Jezersko sedlo–Lašte ridge (to the west of Mt. Jerebica), at about 930 to 1050 m a.s.l., communities on overgrown screes – see Table 2. Leg. & det. I. Dakskobler, 26. 6. 2006, working herbarium ZRC SAZU.

9646/4 (UTM UM72): The Bovec region, the Učja valley, on the slopes of Mt. Vrh Planje, on localities Pod Pustim gozdom and Pusti gozd, at about 750 to 950 m a.s.l., dolomite limestone, rendzina, pioneer woods (*Ostrya carpinifolia*, *Fraxinus ornus*, *Fraxinus excelsior*) on abandoned formerly hay-fields and pastures, partly in beech forest (*Ostrya-Fagetum*). Leg. & det. I. Dakskobler, 23. 4. 2007, working herbarium ZRC SAZU (in the same area also in Italian territory, at about 1140 m a.s.l., on stony grassland with dominant *Genista radiata* and *Festuca calva*).

3.2 Characterization of the *Viola pyrenaica* sites in the Julian Alps

In the Julian Alps, *Viola pyrenaica* has so far been recorded in the altitudinal belt at between 450 and 1600 m a.s.l., i.e. in the submontane, montane, altimontane and subalpine belt, up to, or just above, the timberline. Geological bedrock is limestone and (or), dolomite, but also common is hillside scree and (or) debris rocks. The soil is shallow, raw (Lithosols) or rendzina. The species was recorded in a wet rock crevice community together with *Saxifraga hostii* (the locality Home near Mt. Črna prst), on moist, slightly nitrophilous and already quite overgrown montane screes (the Možnica valley, Table 2), on subalpine screes which are being overgrown with shrub or tree species – *Rhamnus fal-*

lax, *Rubus idaeus*, *Acer pseudoplatanus* (the locality Home near Mt. Črna prst, under Stador above the Črno jezero), on stony dealpine grasslands from the class *Festuco-Brometea* (the Lepena valley opposite the Kavšč homestead, Trtnik near Podbrdo), in tall herb communities (associations *Centaureo julicae-Laserpitietum sileris* – Table 1, *Eryngio alpinae-Caricetum ferrugineae* – Dakskobler et al. 2005, Table 1) – under Mts. Šavnik, Lajnar, Kobla and Liseč and in Home, on stony subalpine grasslands with *Genista radiata* (under Planina nad Sočo and under Vrh Planje in the Učja valley), on subalpine grasslands with *Festuca calva* as the dominant species – *Avenastro parlatorei-Festucetum calvae* (under Škrbina in the Krn mountains – Surina 2004), in stony hop hornbeam and flowering ash coppice forests (*Fraxino ornii-Ostryetum* s. lat., inc. *Cytisantho-Ostryetum*, *Seslerio albicantis-Ostryetum*): Podčela near Bovec – relevés 6–8 in Table 3, Morizna – relevés 1 to 5 in Table 3, Izgora, also in stony pioneer hop hornbeam forests on beech sites (relevé 9 in Table 3) and in beech forests (*Ostryo-Fagetum*, *Ranunculo platanifolii-Fagetum*) – the Bala and the Učja valleys. Sunny aspects prevail, although it inhabits also shady aspects (e.g. in the Lepena valley). In the Julian Alps it has been recorded in communities of the following classes, orders and alliances: *Elyno-Seslerietea* (alliance *Caricion austroalpinae*); *Festuco-Brometea* (alliance *Mesobromion* = *Bromion erecti*), *Quercio-Fagetea* (order *Quercetalia pubescentis*, alliance *Carpinion orientalis*; order *Fagetalia sylvaticae*, alliance *Aremonio-Fagion*), *Erico-Pinetea* (alliance *Erico-Fraxinion ornii*); its occurrence was determined also in transitional communities, successional stages which are similar to the communities of classes *Mulgedio-Aconitetea* (order *Adenostyletalia*), *Thlaspietea rotundifolii* (order *Stipetalia calamagrostis*) and *Trifolio-Geranietea* (order *Origanetalia vulgaris*). Since it occurs in various communities, it is difficult to assess its phytosociological affinity or characterization as a diagnostic species of some of the above-mentioned higher syntaxonomic units. Aeschmann et al. (2004: 436) characterize it with a questionmark (?) as a diagnostic species of subalpine spruce forests, rich in tall herbs (suballiance *Chrysanthemo rotundifoliae-Piceenion*).

3.3 Distribution of *Viola pyrenaica* in the southeastern European mountains

In general, *Viola pyrenaica* Ramond ex DC (= *V. sciaphila* Koch) is distributed in south-European mountains from Cantabria and the Pyrenees to

the Caucasus (Gams & Becker 1925: 645, Strid 1989: 616, Aichele & Schwegler 1995: 277). According to Valentine et al. (1968: 273) it thrives on subalpine sites in the Pyrenees, the Alps, in the Central Apennines and in the mountain ranges of the Balkan Peninsula. Hess et al. (1977: 740) mention similar distribution. Meusel et al. (1978: 170) characterize it as (Rifanian) + Pyrenean + Cottian- northern- and eastern-Alpine (disjunct)-Illyrian-eastern-Mediterranean montane floral element. The locality in the Central Apennines is mentioned also by Pignatti (1982: 106). Hayek (1927, reprint from 1975: 504) describes localities in the Balkans, namely in Serbia, Bulgaria and Greece (Thessalia, Epirus). Its sites and distribution in Greece are described also by Strid (1989: 616). According to Hayek (ibid.), the taxon *Viola prenja* Beck (= *V. pyrenaica* var. *prenja* K. Maly) grows in Bosnia and Herzegovina. In Albania, *Viola pyrenaica* grows in the subalpine belt (Qosja et al. 1992: 304). Trinajstić (1975: 46–47) reports that within former Yugoslavia the species was distributed in Slovenia, Bosnia and Herzegovina and in Serbia, inhabiting dry grasslands, subalpine pastures and rocks (rockwalls). He associates *Viola pyrenaica* with the taxon *V. prenja* = *V. pyrenaica* var. *prenja*. Diklić (1972: 142) lists its localities in eastern (Rtanj) and southeastern Serbia (Sarлак). Here, this species grows on shady rockwalls, on scree slopes, on subalpine meadows, in light montane and subalpine forests and scrub communities, mostly (although not exclusively) on limestone. Similar stony sites are inhabited by *Viola pyrenaica* also in territory of the Republic of Macedonia, in mountain chains of Galičica and Bistra (Erben 1995: 514). Željka Bjelčić (in litt.) forwarded the list of its localities in Bosnia and Herzegovina, which is followed also in this article. The herbarium of the National museum (Zemaljski muzej) in Sarajevo (SARA) keeps specimens of this species, collected by K. Maly in Mt. Preslica near Ivan planina (1300 m a.s.l.), in Mt. Palež near Trebević planina (770 to 840 m a.s.l.) and on Jahorina (Kalaidžin Kamen, 1420 m a.s.l.). Brandis collected the species near Travnik (Derventa). Beck (1916: 367 or 1919: 191) reports that Pyrenean violet in Bosnia and Herzegovina grows on cold habitats from the montane to the alpine belt. He mentions a localities in Bosnia (Gajić, Donje Hrasno). Surina (in litt.) recorded the violet on Troglav above Livanjsko polje, in the stand of the association *Festucetum bosniacae* at the altitude of about 1700 m. So far, we have not had information on the growth of *Viola pyrenaica* in the north-

ern part of the Dinaric mountains in Slovenia nor in Croatia (Šegulja 1997: 17–18, Nikolić, in litt.)

3.4 Localities and sites of *Viola pyrenaica* on the southern edge of the Trnovski gozd plateau and under the Nanos plateau (the northern part of the Dinaric mountains)

0149/2 (UTM VL18): the southern edge of the Trnovski gozd plateau between Col and Otlica, near the village of Gozd, stony sites on and under the Sončnica – Podrta gora ridge and onward towards Leskov školj; limestone, 870 to 900 m a.s.l. (Figure 2 and Table 4). Leg. & det. I. Dakskobler & J. Peljhan, 27. 9. 2005, J. Peljhan, 9. 4. 2006 and I. Dakskobler, 21. 4. 2006, working herbarium ZRC SAZU.

0150/3 (UTM VL27): the slopes of the Nanos plateau above the village of Podnanos, near the road Podnanos–Nanos, limestone, stony sites on forest edge between coppice forest of *Ostrya carpinifolia* and *Quercus pubescens* and steep rocky slopes, 550 m a.s.l. Leg. & det. I. Dakskobler & B. Vreš, 24. 5. 2007, working herbarium ZRC SAZU.

Viola pyrenaica was found on the southern edge of the Trnovski gozd plateau, on the ridge between Col and Otlica, at the contact of the Dinaric and sub-Mediterranean phytogeographical region of Slovenia (according to Wraber 1969) – Figures 1, 2. It grows on overgrown rocky ground (relevés 1 and 2 in Table 4), on forest edges (relevé 6 in Table 4), on steep stony slopes, in gullies and on former pastures that are being overgrown with tall herbs. These are mostly various stages of overgrowth of stony grasslands from the association *Genisto sericeae-Seslerietum kalnikensis* (relevés 1 to 9 in Table 4), which have not yet been given a more thorough synsystematic classification. Often they are the stages with *Laserpitium siler* as their dominant species.

Viola pyrenaica was recorded also in light coppice forest stands, under the ridge, on sunny slopes above the Vipava Valley (relevés 10 to 13 in Table 4). These stands, dominated by hop hornbeam (*Ostrya carpinifolia*) and flowering ash (*Fraxinus ornus*), with addition of whitebeam (*Sorbus aria*), pubescent oak (*Quercus pubescens*) and in places also beech (*Fagus sylvatica*) and Montpellier maple

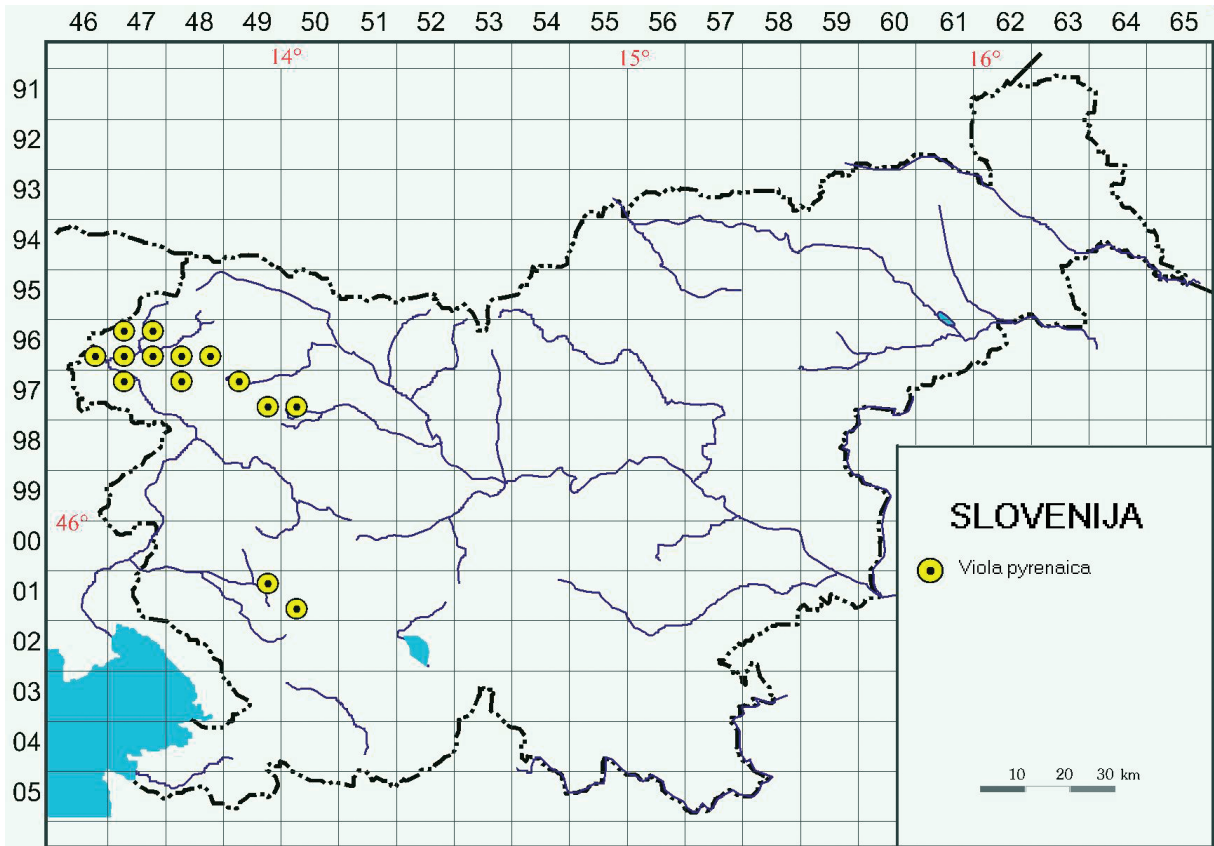


Figure 1: Distribution of *Viola pyrenaica* in Slovenia / Slika 1: Razširjenost vrste *Viola pyrenaica* v Sloveniji

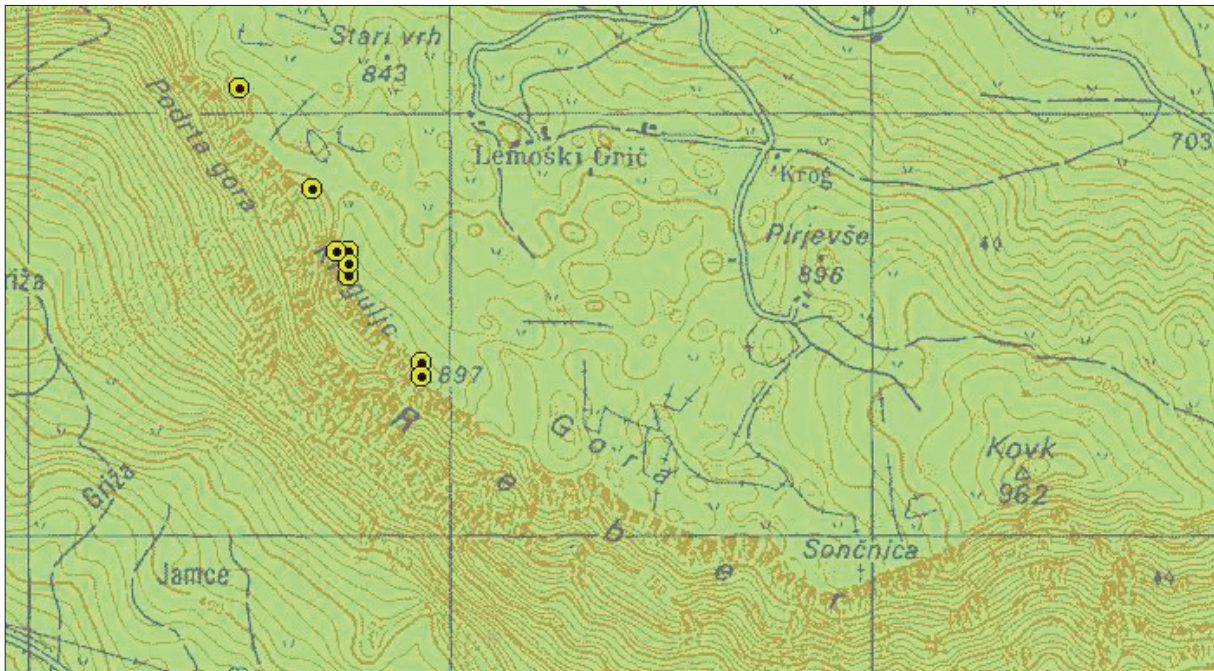


Figure 2: Localities of *Viola pyrenaica* in the southern part of the Trnovski gozd plateau (Source: State topographical map 1: 25 000, GURS)

Slika 2: Nahajališča vrste *Viola pyrenaica* na južnem robu Trnovskega gozda (Vir: Državna topografska karta RS 1: 25 000, GURS)

(*Acer monspessulanum*), are classified into the association *Seslerio autumnalis-Ostryetum carpinifoliae*. These, at least in part, secondary stands originated on potential sites of beech communities from the associations *Seslerio autumnalis-Fagetum* and (or) *Lamio orvalae-Fagetum*.

Viola pyrenaica on the southern edge of the Trnovski gozd plateau was found to grow in communities which are physiognomically similar to those elsewhere in the Julian Alps (tall herb communities, hop hornbeam coppice stands – compare Table 4 with Tables 1 and 3); the latter, however, are significantly different regarding their floristic composition. Communities in the Julian Alps have more diagnostic species from classes *Elyno-Seslerietea* and *Mulgedio-Aconitetea*, and beech forest species from the order *Fagetalia sylvaticae* grow more abundantly within them. On the southern edge of the Trnovski gozd plateau, these communities consist of considerably more Illyrian-sub-Mediterranean species, character and differential species of the order *Scorzoneretalia villosae* (= *Scorzonero-Chrysopogonetalia*); also more abundant are some of the diagnostic species of the classes *Trifolio-Geranietea* and (because of even rockier sites) *Asplenietea trichomanis*, and of the order *Quercetalia pubescentis*.

The new locality of *Viola pyrenaica* on the slopes of the Nanos plateau above Podnanos is entirely in sub-Mediterranean phytogeographical region of Slovenia. Here it thrives in sub-Mediterranean fringe community, together with species *Anthericum ramosum*, *Asparagus tenuifolius*, *Carex humilis*, *Centaurea triumfettii*, *Coronilla emeris* subsp. *emeroides*, *Cotinus coggygria*, *Dianthus monspessulanus*, *Dictamnus albus*, *Genista sericea*, *G. sylvestris*, *Inula hirta*, *I. spiraeifolia*, *Iris pallida* subsp. *illyrica*, *Polygonatum odoratum*, *Seseli gouanii*, *Thalictrum minus* etc.

4. DISCUSSION AND CONCLUSIONS

Numerous new localities of the south-European montane species *Viola pyrenaica* were found in the course of floristic and vegetation research of the last several years in the Julian Alps. In our opinion, this species, at least in the Soča region of this mountain range, is not as rare and endangered as we used to believe (Wraber & Skoberne 1989: 336, Wraber et al. 2002: 8910). It is more likely that its localities get overlooked because of the plant's early blooming, as well as on account of the fact that it is often overshadowed by other plants, most often tall herbs, during the vegetation season.

Similar factors may be the reason why this species has been overlooked also in the northern part of the Dinaric mountains, where for the time being its occurrence is determined only on the southern edge of the Trnovski gozd plateau between Col and Otlica above the Vipava Valley and on the slopes of the Nanos plateau (southwestern Slovenia). In this region, it grows on similar sites and in (physiognomically) similar plant communities to those in the Julian Alps (in the submontane and montane belt, on calcareous bedrock, on stony grasslands which are being overgrown with tall herbs, in stony hop hornbeam – *Ostrya carpinifolia* and flowering ash – *Fraxinus ornus* forests, on forest edges), but with a considerably different floristic composition. These communities are therefore classified into other associations and higher syntaxonomical units (grasslands that are being overgrown are treated as successional stages on the sites of the association *Genista sericeae-Seslerietum kalnikensis* from the alliance *Satureion subspicatae*; stony forests, on the other hand, are classified into the association *Seslerio autumnalis-Ostryetum* and into the alliance *Carpinion orientalis*).

In the Julian Alps and on the southern edge of the Trnovski gozd and Nanos plateaus, *Viola pyrenaica* has so far been found within the communities of the following higher synsystematic units: class *Elyno-Seslerietea* (alliance *Caricion austroalpinae*); class *Festuco-Brometea* (alliance *Mesobromion* = *Bromion erecti*, alliance *Satureion subspicatae*), class *Erico-Pinetea* (alliance *Erico-Fraxinion orni*) and class *Quercu-Fagetea* (order *Quercetalia pubescentis*, alliance *Carpinion orientalis*; order *Fagetalia sylvaticae*, alliance *Aremonio-Fagion*, suballiance *Ostryo-Fagenion*); its occurrence has also been determined in the succession stages similar to the communities from the classes *Mulgedio-Aconitetea* (above all from the order *Adenostyletalia*), *Thlaspietea rotundifolii* (order *Stipetalia calamagrostis*, alliance *Stipion calamagrostis*) and *Trifolio-Geranietea* (within the latter to the communities of the alliance *Geranion sanguinei* and, in the Trnovski gozd and Nanos plateaus, suballiance *Dictamno-Ferulagenion*). Because it occurs within different communities it is difficult to characterize it as a diagnostic species of one of the above-mentioned higher synsystematic units. We have established that the sites of *Viola pyrenaica* on the localities known so far in Slovenia are similar to those in the other parts of the Alps and the Dinaric mountains; these sites are above all overgrown screes, stony grasslands, forest edges, light stony forests, tall herb communities in the

submontane, montane, altimontane and subalpine belt (450 to 1600 m a.s.l.).

5. POVZETEK

Vrsta *Viola pyrenaica* Ramond ex DC v severnem delu Dinarskega gorstva (Trnovski gozd in Nanos, Slovenija)

Pri florističnih in vegetacijskih raziskavah v letih 2006 in 2007 smo v Julijskih Alpah našli precej novih nahajališč južnoevropske gorske vrste *Viola pyrenaica*: v južnih Julijskih Alpah, v soseščini Črne prsti pod Lajnarjem, Slatnikom, Šavnikom in Liscem ter v Trtniku nad Podbrdom; v Bohinju na levem bregu Save Bohinjke pod Rsnikom in pod Stadorjem nad Črnim jezerom; v Krnskem pogorju v Morizni pod grebenom Polovnika in na Bovškem v dolinah Možnice, Učje in Lepene. Menimo, da to vsaj v posoškem delu tega gorovja ni zelo redka in ogrožena vrsta, kar smo mislili doslej (Wraber & Skoberne 1989: 336, Wraber et al. 2002: 8910), pač pa njena nahajališča zaradi zgodnjega pomladanskega cvetenja in ker jo v glavni vegetacijski sezoni prerasejo druge rastline, pogosto visoke steblikle, najbrž večkrat spregledamo.

Morda smo iz podobnih razlogov ta vrsto doslej spregledali tudi v severnem delu Dinarskega gorstva, kjer za zdaj ugotavljamo le njeno pojavljanje na južnem robu Trnovskega gozda med Colom in Otlico nad Vipavsko dolino – 0149/2 (UTM VL18) ter na pobočjih Nanosa nad Podnanosom (0150/3, UTM VL27). Na južnem robu Trnovskega gozda, na in pod grebenom Sončnica–Podrta gora–Leskov školj, uspeva na podobnih rastiščih in v fiziognomsko (po videzu) podobnih rastlinskih združbah kot v Julijskih Alpah: v montanskem pasu, na karbonatni podlagi, na kamnitih traviščih, ki se zaraščajo z visokimi steblikami, v kamnitih gozdovih črnega gabra in malega jesena in na gozdnih robovih. Toda floristična sestava teh združb je precej drugačna, zato jih uvrščamo v druge asociacije in višje sintaksonomske enote. Zaraščajoča travišča obravnavamo kot sukcesijske stadije na rastiščih asociacije *Genisto sericeae-Seslerietum kalnikensis* iz zveze *Satureion subspicatae*, kamnite gozdove pa uvrščamo v asociacijo *Seslerio autumnalis-Ostryetum* in v zvezo *Carpinion orientalis*. Pod Nanosom smo pirenejsko vijolico popisali na kamnitem robu submediteranskega panjevskega gozda črnega gabra in puhastega hrasta (*Ostryo-Quercetum pubescentis*), v združbi z vrstami *Anthericum ram-*

osum, *Asparagus tenuifolius*, *Carex humilis*, *Centaurea triumfettii*, *Coronilla emerus* subsp. *emeroides*, *Cotinus coggygria*, *Dianthus monspessulanus*, *Dictamnus albus*, *Genista sericea*, *G. sylvestris*, *Inula hirta*, *I. spiraeifolia*, *Iris pallida* subsp. *illyrica*, *Polygonatum odoratum*, *Seseli gouanii*, *Thalictrum minus* idr.

V Julijskih Alpah in v severnem delu Dinarskega gorstva smo doslej vrsto *Viola pyrenaica* našli v združbah naslednjih višjih sinsistematskih enot: razred *Elyno-Seslerietea* (zveza *Caricion austroalpinae*); razred *Festuco-Brometea* (zveza *Mesobromion* oz. *Bromion erecti*, zveza *Satureion subspicatae*), razred *Erico-Pinetea* (zveza *Erico-Fraxinion ornii*) in razred *Quercio-Fagetea* (red *Quercetalia pubescentis*, zveza *Carpinion orientalis*; red *Fagetalia sylvaticae*, zveza *Aremonio-Fagion*, podzveza *Ostryo-Fagenion*), prav tako smo ugotovili njeno pojavljanje v sukcesijskih stadijih, ki so podobni združbam iz razredov *Mulgedio-Aconitetea* (predvsem reda *Adenostyletalia*), *Thlaspietea rotundifolii* (iz reda *Stipatalia calamagrostis* in zveze *Stipion calamagrostis*) in *Trifolio-Geranietea* (v slednjem združbam zveze *Geranion sanguinei* in, v Trnovskem gozdu in pod Nanosom, podzveze *Dictamno-Ferulagenion*). Zaradi različnih združb, v katerih se pojavlja, jo je težko označiti kot diagnostično vrsto katere od naštetih višjih sinsistematskih enot. Ugotavljamo, da so rastišča vrste *Viola pyrenaica* na doslej znanih nahajališčih v Sloveniji podobna tistim v drugih delih Alp in Dinarskega gorstva, torej predvsem porasel grušč, kamnita travišča, gozdni robovi, svetli kamniti gozdovi, združbe visokih steblik v submontanskem, montanskem, altimontanskem in subalpinskem pasu (450 do 1600 m n. m. v.).

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8. APPENDIX

List of syntaxa mentioned in the article with authors:

Asplenietea trichomanis Br.-Bl. in Meier & Br.-Bl. 1934

Thlaspietea rotundifoliae Br.-Bl. in Br.-Bl. & Jenny 1926

Stipetalia calamagrostis Oberdorfer & Seibert in Oberdorfer 1977 (= *Galio-Parietarietalia officinalis* Boşcaiu et al. 1966)

Stipion calamagrostis Jenny-Lips ex Quantin 1932

Koelerio-Corynephoretea Klika in Klika & Novák 1941 (= *Sedo-Scleranthetea* Br.-Bl. 1955)

Molinio-Arrhenatheretea R. Tx. 1937 em. R. Tx. 1970

Poo alpinae-Trisetalia Ellmauer & Mucina 1993

Calluno-Ulicetea Br.-Bl. & R. Tx. ex Klika 1948

Festuco-Brometea Br.-Bl. & Tx. 1943

Mesobromion erecti (Br.-Bl. & Moor 1938) Oberdorfer 1957 = *Bromion erecti* Br.-Bl. (1925) 1936

Scorzoneretalia villosae Horvatić 1975 (= *Scorzonero-Chrysopogonetalia* Horvatić & Horvat in Horvatić 1958)

Satureion subspicatae Horvat 1962

Genisto sericeae-Seslerietum juncifoliae Poldini 1980 var. geogr. *Sesleria kalnikensis* Poldini 2005 = *Genisto sericeae-Seslerietum kalnikensis*

Elyno-Seslerietea Br.-Bl. 1948

Caricion austroalpinae Sutter 1962

Centaureo julicae-Laserpitetum sileris Dakskobler 2003 nom. prov.

Eryngio alpinae-Caricetum ferrugineae Seljak ex Dakskobler, Franz & Seljak 2005

Avenastro parlatorei-Festucetum calvae Aichinger 1933 corr. Franz 1980

Seslerietalia juncifoliae Horvat 1930

Festucetum bosniacae Horvat 1930

Trifolio-Geranietea Th. Müller 1962

Origanetalia vulgaris Th. Müller 1962

Geranion sanguinei Tüxen in Th. Müller 1962

Dictamno-Ferulagenion van Gils, Keyzers & Launspach 1975

Epilobietea angustifolii R. Tx. & Preising in R. Tx. 1950

Mulgedio-Aconitetea Hadač & Klika in Klika 1948

Adenostyletalia G. & J. Br.-Bl. 1931

Erico-Pinetea I. Horvat 1959

Erico-Fraxinion orni Horvat 1959

Ostryo carpinifoliae-Fraxinetum orni Aichinger 1933 – *Fraxino orni-Ostryetum carpinifoliae* Aichinger 1933 corr. Franz 2002

Cytisantho-Ostryetum M. Wraber 1961

Vaccinio-Piceetea Br.-Bl. 1939 emend. Zupančič (1976) 2000

Chrysanthemo rotundifoliae-Piceenion (Krajina 1933) Theurillat in Aeschimann et al. 2004

Rhamno-Prunetea Rivas Goday & Borja Carbonell 1961

Quercu-Fagetea Br.-Bl. & Vlieg. 1937

Fagetalia sylvaticae Pawł. in Pawł. et al. 1928

Aremonio-Fagion (Ht. 1938) Borhidi in Török, Podani & Borhidi 1989

Lamio orvalae-Fagetum (Ht. 1938) Borhidi 1963

Ranunculo platanifoliae-Fagetum Marinček et al. 1993

Ostryo-Fagenion Borhidi 1963

Ostryo-Fagetum M. Wraber ex Trinajstić 1972

Seslerio autumnalis-Fagetum (Ht.) M. Wraber ex Borhidi 1963

Quercetalia pubescentis Klika 1933

Ostryo-Carpinion orientalis Horvat 1954 em. 1958

Seslerio albicantis-Ostryetum Lausi et al. 1982 corr. Poldini et Vidali 1995

Seslerio autumnalis-Ostryetum I. Horvat & Horvatić 1950 corr. Zupančič 1999

Ostryo-Quercetum pubescentis (Ht. 1950) Trinajstić 1974

Quercetalia roboris-petraeae R. Tx. 1931

ABBREVIATIONS – OKRAJŠAVE

Parent material (Geološka podlaga)

A – limestone – apnenec
 Gr – talus – pobočni grušč
 Mo – moraine (til) – morena (til)

Soil types (Talni tipi)

R – rendzina – rendzina
 Li – Lithosols – litosol

Tables (Tabele) 1–4

Table 1: Tal herbs communities with *Viola pyrenaica* in the southern Julian Alps

Tabela 1: Združbe visokih steblik z vrsto *Viola pyrenaica* v južnih Julijskih Apah

Number of relevé (Številka popisa)	1	2	3	4	5	6
Working number (Delovna št. popisa)	212047	212394	212389	212395	212390	212396
Altitude in m (Nadmorska višina v m)	1600	1440	1470	1500	1470	1520
Aspect (Lega)	SE	SW	SSW	SW	SW	SW
Slope in degrees (Nagib v stopinjah)	10	40	40	40	45	35
Parent material (Matična podlaga)	A	A	A	A	A	A
Soil (Tla)	R	R	R	R	R	R
Stoniness in % (Kamnitost v %)	0	10	10	5	5	10
Cover in % (Zastiranje v %):						
Shrub layer (Grmovna plast)	E2 10	.	.	.	.	.
Herb layer (Zeliščna plast)	E1 90	100	100	100	100	100
Relevé area (Velikost popisne ploskve)	m ² 15	20	20	20	20	20
Number of species (Število vrst)	41	34	52	59	45	55
Date of taking relevé (Datum popisa)	8/9/2006	7/14/2005	7/14/2005	7/14/2005	7/14/2005	7/14/2005
Locality (Nahajališče)	Lisec	Šavnik	Šavnik	Šavnik	Šavnik	Šavnik
Quadrant (Kvadrant)	9749/4	9749/4	9749/4	9749/4	9749/4	9749/4

Pr. Fr.

Caricion austroalpinae

<i>Centaurea haynaldii</i> subsp. <i>julica</i>	E1	+	+	1	1	1	1	6	100
<i>Festuca calva</i>	E1	.	+	1	2	1	1	5	83
<i>Scorzonera rosea</i>	E1	.	.	+	+	.	.	2	33
<i>Gentiana lutea</i> subsp. <i>symphyandra</i>	E1	+	.	.	.	.	.	1	17

Elyno-Seslerietea

<i>Betonica alopecuroides</i>	E1	1	1	1	1	1	1	6	100
<i>Carduus crassifolius</i>	E1	+	1	1	1	1	+	6	100
<i>Helianthemum grandiflorum</i>	E1	+	1	1	1	1	1	6	100
<i>Scabiosa lucida</i>	E1	r	.	1	+	+	1	5	83
<i>Campanula witasekiana</i>	E1	.	+	+	+	.	+	4	67
<i>Sesleria caerulea</i> subsp. <i>calcaria</i>	E1	.	.	1	2	2	2	4	67
<i>Phyteuma orbiculare</i>	E1	.	.	+	+	.	+	3	50
<i>Thymus praecox</i> subsp. <i>polytrichus</i>	E1	.	.	.	+	+	+	3	50

Number of relevé (Številka popisa)		1	2	3	4	5	6	Pr.	Fr.
<i>Potentilla crantzii</i>	E1	.	.	.	+	.	+	2	33
<i>Cerastium strictum</i>	E1	.	.	.	.	+	+	2	33
<i>Rhinanthus glacialis</i>	E1	+	.	.	.	.	.	1	17
<i>Acinos alpinus</i>	E1	.	.	.	+	.	.	1	17
<i>Ranunculus montanus</i>	E1	.	.	.	.	+	.	1	17
<i>Anthyllis vulneraria</i> subsp. <i>alpestris</i>	E1	.	.	.	.	.	+	1	17
<i>Carex sempervirens</i>	E1	.	.	.	.	.	1	1	17
<i>Galium anisophyllum</i>	E1	.	.	.	.	.	+	1	17
<i>Polygala alpestris</i>	E1	.	.	.	.	.	+	1	17
<i>Thesium alpinum</i>	E1	.	.	.	.	.	+	1	17
Mulgedio-Aconitetea									
<i>Silene vulgaris</i> subsp. <i>antelopum</i>	E1	1	1	+	1	+	+	6	100
<i>Hypericum maculatum</i>	E1	.	+	+	+	+	+	5	83
<i>Serratula tinctoria</i> subsp. <i>macrocephala</i>	E1	1	.	2	1	+	2	5	83
<i>Viola pyrenaica</i>	E1	1	.	+	+	+	+	5	83
<i>Polygonatum verticillatum</i>	E1	3	.	+	.	.	+	3	50
<i>Lathyrus occidentalis</i> var. <i>montanus</i>	E1	+	.	.	+	.	+	3	50
<i>Aconitum lycoctonum</i> subsp. <i>ranunculifolium</i>	E1	.	.	+	1	.	+	3	50
<i>Astrantia major</i>	E1	.	.	+	+	.	+	3	50
<i>Pimpinella major</i> subsp. <i>rubra</i>	E1	.	.	+	+	.	+	3	50
<i>Veratrum album</i>	E1	.	.	+	+	.	+	3	50
<i>Eryngium alpinum</i>	E1	2	.	.	+	.	.	2	33
<i>Rumex alpestris</i>	E1	+	.	.	+	.	.	2	33
<i>Calamagrostis arundinacea</i>	E1	.	+	+	.	.	.	2	33
<i>Poa hybrida</i>	E1	1	.	.	.	.	.	1	17
<i>Sorbus chamaemespilus</i>	E1	1	.	.	.	.	.	1	17
<i>Carduus carduelis</i>	E1	+	.	.	.	.	.	1	17
<i>Crepis pyrenaica</i>	E1	+	.	.	.	.	.	1	17
<i>Heracleum montanum</i>	E1	+	.	.	.	.	.	1	17
<i>Myrrhis odorata</i>	E1	+	.	.	.	.	.	1	17
<i>Thalictrum aquilegifolium</i>	E1	+	.	.	.	.	.	1	17
<i>Allium victorialis</i>	E1	.	.	.	+	.	.	1	17
Trifolio-Geranietea s. lat.									
<i>Laserpitium siler</i>	E1	3	3	4	3	4	4	6	100
<i>Iris graminea</i>	E1	+	+	+	1	+	+	6	100
<i>Arabis pauciflora</i>	E1	+	.	+	+	+	+	5	83
<i>Thalictrum minus</i>	E1	.	1	1	+	+	+	5	83
<i>Silene nutans</i>	E1	.	.	+	+	+	+	4	67
<i>Polygonatum odoratum</i>	E1	.	1	+	.	1	.	3	50
<i>Peucedanum schottii</i>	E1	.	+	+	.	+	.	3	50
<i>Laserpitium latifolium</i>	E1	.	.	+	1	.	.	2	33
<i>Tanacetum corymbosum</i> subsp. <i>clusii</i>	E1	.	.	+	+	.	.	2	33
<i>Lilium carnolicum</i>	E1	.	.	+	.	+	.	2	33
<i>Origanum vulgare</i>	E1	+	.	.	.	.	.	1	17
<i>Vicia sylvatica</i>	E1	+	.	.	.	.	.	1	17
<i>Vincetoxicum hirsutinaria</i>	E1	.	1	.	.	.	.	1	17
<i>Valeriana collina</i>	E1	.	.	.	+	.	.	1	17

Number of relevé (Številka popisa)		1	2	3	4	5	6	Pr.	Fr.
Festuco-Brometea									
<i>Buphthalmum salicifolium</i>	E1	+	+	+	+	+	+	6	100
<i>Carex humilis</i>	E1	.	2	1	1	2	1	5	83
<i>Bromus erectus</i> agg.	E1	.	1	1	+	1	1	5	83
<i>Gymnadenia conopsea</i>	E1	.	+	+	+	+	+	5	83
<i>Koeleria pyramidata</i> agg.	E1	.	+	1	1	2	1	5	83
<i>Prunella grandiflora</i>	E1	.	.	+	.	+	+	3	50
<i>Thlaspi praecox</i>	E1	.	.	+	+	+	.	3	50
<i>Linum viscosum</i>	E1	.	+	1	.	.	.	2	33
<i>Allium senescens</i>	E1	.	+	.	.	1	.	2	33
<i>Hippocrepis comosa</i>	E1	.	+	.	.	+	.	2	33
<i>Carlina acaulis</i> subsp. <i>caulescens</i>	E1	.	.	.	+	.	+	2	33
<i>Centaurea triumfettii</i>	E1	.	.	.	.	+	.	1	17
Poo alpinae-Trisetalia									
<i>Phleum hirsutum</i>	E1	+	.	+	1	+	+	5	83
<i>Festuca nigrescens</i>	E1	.	+	2	1	1	1	5	83
<i>Traunsteinera globosa</i>	E1	.	+	+	+	+	1	5	83
<i>Trollius europaeus</i>	E1	+	.	.	.	.	+	2	33
<i>Ranunculus nemorosus</i>	E1	.	.	.	.	.	+	1	17
Molinio-Arrhenatheretea									
<i>Galium mollugo</i>	E1	+	+	1	+	+	+	6	100
<i>Lotus corniculatus</i>	E1	.	.	+	+	.	+	3	50
<i>Dactylis glomerata</i>	E1	1	.	.	+	.	.	2	33
<i>Vicia sepium</i>	E1	.	.	.	+	.	.	1	17
<i>Trifolium pratense</i>	E1	.	.	.	.	.	+	1	17
Calluno-Ulicetea									
<i>Phyteuma zahlbruckneri</i>	E1	.	.	1	1	+	.	3	50
<i>Anthoxanthum odoratum</i>	E1	.	.	.	+	.	.	1	17
<i>Carex pallescens</i>	E1	.	.	.	+	.	.	1	17
Erico-Pinetea									
<i>Cirsium erisithales</i>	E1	1	.	1	1	+	1	5	83
<i>Peucedanum austriacum</i> var. <i>rablense</i>	E1	+	.	+	1	+	+	5	83
<i>Genista radiata</i>	E1	3	4	.	.	.	.	2	33
<i>Calamagrostis varia</i>	E1	.	2	.	.	+	.	2	33
<i>Chamaecytisus hirsutus</i> subsp. <i>ciliatus</i>	E1	.	.	+	.	.	.	1	17
Fagetalia sylvaticae									
<i>Mercurialis perennis</i>	E1	1	1	1	1	1	1	6	100
<i>Knautia drymeia</i>	E1	+	.	+	1	+	+	5	83
<i>Symphytum tuberosum</i>	E1	.	.	+	.	+	.	2	33
<i>Acer pseudoplatanus</i>	E1	+	.	.	.	.	.	1	17
<i>Galium laevigatum</i>	E1	+	.	.	.	.	.	1	17
<i>Melica nutans</i>	E1	.	+	.	.	.	.	1	17
<i>Poa nemoralis</i>	E1	.	+	.	.	.	.	1	17
<i>Lilium martagon</i>	E1	.	.	.	+	.	.	1	17
<i>Myosotis sylvatica</i>	E1	.	.	.	+	.	.	1	17
Quercu-Fagetea s. lat.									
<i>Ornithogalum pyrenaicum</i>	E1	+	1	1	+	+	+	6	100

Number of relevé (Številka popisa)		1	2	3	4	5	6	Pr.	Fr.
<i>Carex digitata</i>	E1	+	.	+	.	.	.	2	33
<i>Luzula luzuloides</i>	E1	.	.	.	+	.	.	1	17
<i>Anemone nemorosa</i>	E1	.	.	.	.	.	+	1	17
<i>Asplenietea trichomanis</i>									
<i>Sedum maximum</i>	E1	+	+	.	.	.	.	2	33
<i>Primula auricula</i>	E1	.	.	.	.	+	+	2	33
<i>Saxifraga hostii</i>	E1	.	.	.	.	.	+	1	17
Other species (Druge vrste)									
<i>Rubus idaeus</i>	E1	.	+	.	+	.	.	2	33

Table 2: Communities with *Viola pyrenaica* on overgrown screes in the Možnica valley (the Julian Alps, the Bovec region)

Tabela 2: Združbe z vrsto *Viola pyrenaica* na poraslih meliščih v dolini Možnice (Julijske Alpe, Bovško)

Number of relevé (Številka popisa)		1	2	3	
Working number (Delovna št. popisa)		212377	212378	212379	
Altitude in m (Nadmorska višina v m)		930	940	1050	
Aspect (Lega)		SE	SE	SE	
Slope in degrees (Nagib v stopinjah)		25	30	30	
Parent material (Matična podlaga)		Gr	Gr	Gr	
Soil (Tla)		Li	Li	Li	
Stoniness in % (Kamnitost v %)		60	30	30	
Cover in % (Zastiranje v %):					
Herb layer (Zeliščna plast)	E1	60	70	70	
Relevé area (Velikost popisne ploskve)	m ²	10	20	20	
Number of species (Število vrst)		25	48	49	
Date of taking relevé (Datum popisa)		6/26/2006	6/26/2006	6/26/2006	
Locality (Nahajališče)		Možnica	Možnica	Možnica	
Quadrant (Kvadrant)		9647/1	9647/1	9647/1	
					Pr.
Character species of the alliance <i>Stipion calamagrostis</i>					
<i>Geranium macrorrhizum</i>	E1	.	+	2	2
<i>Scrophularia juratensis</i>	E1	.	+	.	1
Differential species of the alliance <i>Stipion calamagrostis</i>					
FB <i>Galium lucidum</i>	E1	r	1	1	3
TG <i>Vincetoxicum hirundinaria</i>	E1	1	.	2	2
TG <i>Origanum vulgare</i>	E1	+	.	.	1
AT <i>Sedum album</i>	E1	.	+	.	1
<i>Thlaspietea rotundifolii</i> s. lat.					
<i>Iris pallida</i> subsp. <i>cengialti</i>	E1	1	2	3	3
<i>Viola pyrenaica</i>	E1	2	+	1	3
<i>Aconitum lycoctonum</i> subsp. <i>ranunculifolium</i>	E1	.	1	1	2
<i>Heracleum pollinianum</i>	E1	.	+	+	2
<i>Moehringia muscosa</i>	E1	+	.	.	1
<i>Rumex scutatus</i>	E1	.	+	.	1
<i>Silene vulgaris</i> subsp. <i>glareosa</i>	E1	.	+	.	1

Number of relevé (Številka popisa)		1	2	3	Pr.
<i>Gymnocarpium robertianum</i>	E1	.	.	+	1
<i>Polystichum lonchitis</i>	E1	.	.	+	1
<i>Campanula spicata</i>	E1	.	.	+	1
Festuco-Brometea					
<i>Euphorbia cyparissias</i>	E1	+	1	1	3
<i>Bromus erectus</i> agg.	E1	r	+	+	3
<i>Ajuga genevensis</i>	E1	+	.	+	2
<i>Teucrium chamaedrys</i>	E1	+	1	.	2
<i>Arabis hirsuta</i>	E1	.	+	+	2
<i>Anthyllis vulneraria</i>	E1	+	.	.	1
<i>Peucedanum oreoselinum</i>	E1	+	.	.	1
<i>Carlina acaulis</i>	E1	.	+	.	1
<i>Galium purpureum</i>	E1	.	+	.	1
<i>Bupthalmum salicifolium</i>	E1	.	.	+	1
<i>Carex humilis</i>	E1	.	.	+	1
<i>Stachys recta</i>	E1	.	.	+	1
Trifolio-Geranietea					
<i>Clinopodium vulgare</i>	E1	+	+	1	3
<i>Thalictrum minus</i>	E1	+	1	+	3
<i>Verbascum alpinum</i>	E1	+	+	+	3
<i>Silene nutans</i>	E1	+	+	.	2
<i>Valeriana collina</i>	E1	.	1	1	2
<i>Laserpitium latifolium</i>	E1	.	+	+	2
<i>Verbascum lychnitis</i>	E1	.	+	.	1
<i>Digitalis grandiflora</i>	E1	.	+	.	1
<i>Laserpitium siler</i>	E1	.	+	.	1
<i>Thesium bavarum</i>	E1	.	.	+	1
Elyno-Seslerietea					
<i>Carduus crassifolius</i>	E1	+	+	.	2
<i>Betonica alopecuroides</i>	E1	.	1	1	2
<i>Acinos alpinus</i>	E1	.	+	.	1
<i>Campanula witasekiana</i>	E1	.	+	.	1
<i>Cerastium strictum</i>	E1	.	1	.	1
<i>Festuca calva</i>	E1	.	.	+	1
<i>Thymus praecox</i> subsp. <i>polytrichus</i>	E1	.	.	+	1
Molinio-Arrhenatheretea					
<i>Dactylis glomerata</i>	E1	.	+	+	2
<i>Veronica chamaedrys</i>	E1	.	+	+	2
<i>Lotus corniculatus</i>	E1	.	+	.	1
<i>Ranunculus sardous</i>	E1	.	+	.	1
Mulgedio-Aconitetea					
<i>Hesperis candida</i>	E1	.	+	+	2
<i>Silene vulgaris</i> subsp. <i>antelopum</i>	E1	.	+	+	2
<i>Silene dioica</i>	E1	.	.	+	1
<i>Veratrum album</i>	E1	.	.	+	1
Epilobietea angustifoliae					
<i>Galeopsis speciosa</i>	E1	+	+	.	2

Number of relevé (Številka popisa)		1	2	3	Pr.
<i>Carex muricata</i>	E1	.	+	.	1
<i>Fragaria vesca</i>	E1	.	.	+	1
Galio-Urticetea					
<i>Urtica dioica</i>	E1	+	+	.	2
<i>Fallopia dumetorum</i>	E1	+	.	.	1
<i>Lamium maculatum</i>	E1	.	+	.	1
Quercetalia pubescentis					
<i>Primula veris</i> subsp. <i>columnae</i>	E1	.	1	1	2
<i>Rosa glauca</i>	E1	.	+	+	2
<i>Arabis turrata</i>	E1	+	.	.	1
<i>Fraxinus ornus</i>	E1	+	.	.	1
<i>Peucedanum schottii</i>	E1	.	1	.	1
<i>Clematis recta</i>	E1	.	+	.	1
<i>Sorbus aria</i>	E2	.	.	+	1
Fagetalia sylvaticae					
<i>Campanula trachelium</i>	E1	+	.	+	2
<i>Salvia glutinosa</i>	E1	.	+	+	2
<i>Geranium robertianum</i>	E1	+	.	.	1
<i>Brachypodium sylvaticum</i>	E1	+	.	.	1
<i>Myosotis sylvatica</i>	E1	.	+	.	1
<i>Acer pseudoplatanus</i>	E1	.	.	+	1
<i>Galium laevigatum</i>	E1	.	.	1	1
<i>Melica nutans</i>	E1	.	.	1	1
<i>Mercurialis perennis</i>	E1	.	.	1	1
<i>Cardamine enneaphyllos</i>	E1	.	.	+	1
<i>Cyclamen purpurascens</i>	E1	.	.	+	1
<i>Fraxinus excelsior</i>	E1	.	.	+	1
<i>Galeobdolon flavidum</i>	E1	.	.	+	1
Quercio-Fagetea					
<i>Clematis vitalba</i>	E1	.	+	.	1
<i>Carex digitata</i>	E1	.	.	+	1
Erico-Pinetea					
<i>Aster amellus</i>	E1	.	+	.	1
<i>Carex ornithopoda</i>	E1	.	.	+	1
<i>Cirsium erisithales</i>	E1	.	.	+	1

Table 3: *Ostrya carpinifolia* stands with *Viola pyrenaica* in the Julian Alps (the Bovec region)

Tabela 3: Sestoji črnega gabra z vrsto *Viola pyrenaica* v Julijskih Alpah (Bovško)

Number of relevé (Številka popisa)		1	2	3	4	5	6	7	8	9		
Working number (Delovna št. popisa)		212383	212385	212387	212384	212386	212376	212381	212382	212388		
Altitude in m (Nadmorska višina v m)		490	620	610	590	660	440	440	470	810		
Aspect (Lega)		SSE	SW	SW	SW	SE	S	S	S	SW		
Slope in degrees (Nagib v stopinjah)		45	45	45	30	35	30	30	45	10		
Parent material (Matična podlaga)		A	A	A	Gr	A	Gr	Gr	A	Mo		
Soil (Tla)		R	R	R	R	R	R	R	R	R		
Stoniness in % (Kamnitost v %)		60	30	50	20	30	30	60	70	30		
Cover in % (Zastiranje v %):												
Upper tree layer (Zgornja drevesna plast)	E3b	70	80	60	90	70	90	80	70	90		
Lower tree layer (Spodnja drevesna plast)	E3a	.	.	.	.	20	.	10	10	.		
Shrub layer (Grmovna plast)	E2	40	30	50	40	30	30	30	40	10		
Herb layer (Zeliščna plast)	E1	60	70	70	70	70	70	60	60	70		
Moss layer (Mahovna plast)	E0	10	10	5	10	10	20	40	30	20		
Maximum diameter (Največji prsni premer)	cm	20	25	20	30	25	25	25	25	20		
Maximum height (Največja drevesna višina)	m	8	10	8	17	16	12	15	10	14		
Relevé area (Velikost popisne ploskve)	m ²	200	400	200	400	200	200	400	200	400		
Number of species (Število vrst)		77	89	54	87	68	86	75	69	53		
Date of taking relevé (Datum popisa)		5/12/2006	5/12/2006	5/12/2006	5/12/2006	5/12/2006	6/6/2005	6/6/2005	6/6/2005	5/16/2005		
Locality (Nahajališče)		Morizna	Morizna	Morizna	Morizna	Morizna	Podčela	Podčela	Podčela	Bala		
Quadrant (Kvadrant)		9747/1	9747/1	9747/1	9747/1	9747/1	9647/3	9647/3	9647/3	9647/2		
<i>Ostryo-Carpinion orientalis</i>												
<i>Ostrya carpinifolia</i>	E3b	3	4	3	4	3	5	5	4	4	Pr.	Cl.
<i>Ostrya carpinifolia</i>	E3a	.	.	.	.	.	.	+	.	.	9	V
<i>Ostrya carpinifolia</i>	E2b	.	.	+	.	.	+	.	.	.	1	I
<i>Ostrya carpinifolia</i>	E2a	+	.	.	.	.	.	.	.	.	2	II
<i>Ostrya carpinifolia</i>	E1	.	.	.	.	.	.	+	.	.	1	I
<i>Coronilla emerus</i> subsp. <i>emeroides</i>	E2a	1	1	1	.	.	.	.	.	.	1	I
<i>Frangula rupestris</i>	E2a	.	.	1	.	.	.	.	.	.	3	II
<i>Frangula rupestris</i>	E1	.	.	+	.	.	.	.	.	.	1	I
<i>Quercetalia pubescentis</i>												
<i>Fraxinus ornus</i>	E3b	3	2	2	2	2	1	1	3	+	9	V
<i>Fraxinus ornus</i>	E3a	.	1	.	1	1	.	.	.	.	3	II
<i>Fraxinus ornus</i>	E2b	1	1	1	1	.	2	2	2	1	8	V
<i>Fraxinus ornus</i>	E2a	2	2	1	3	1	2	2	2	.	8	V
<i>Fraxinus ornus</i>	E1	.	1	.	.	+	1	.	+	.	4	III
<i>Cornus mas</i>	E2b	2	1	+	2	1	+	.	+	.	7	IV
<i>Cornus mas</i>	E2a	+	.	.	.	+	.	+	+	.	4	III
<i>Cornus mas</i>	E1	.	.	.	.	.	+	.	.	.	1	I
<i>Sorbus aria</i>	E3b	.	1	.	.	1	.	.	.	.	2	II
<i>Sorbus aria</i>	E3a	.	+	.	+	.	.	.	.	.	2	II

Number of relevé (Številka popisa)		1	2	3	4	5	6	7	8	9	Pr.	Cl.
<i>Sorbus aria</i>	E2b	.	.	+	+	+	.	+	+	.	5	III
<i>Sorbus aria</i>	E2a	+	.	.	+	.	+	+	.	.	4	III
<i>Sorbus aria</i>	E1	.	+	.	+	.	.	.	.	+	3	II
<i>Arabis turrita</i>	E1	1	1	.	1	1	+	.	.	.	5	III
<i>Melittis melissophyllum</i>	E1	1	1	1	1	1	.	.	.	.	5	III
<i>Euonymus verrucosa</i>	E2a	.	+	+	+	1	.	.	.	.	4	III
<i>Peucedanum schottii</i>	E1	+	.	.	+	.	.	.	+	+	4	III
<i>Tamus communis</i>	E1	+	.	+	+	+	.	.	.	.	4	III
<i>Campanula persicifolia</i>	E1	+	+	.	1	.	.	.	.	.	3	II
<i>Clematis recta</i>	E1	+	.	+	.	.	.	.	.	.	2	II
<i>Convallaria majalis</i>	E1	.	+	.	.	+	.	.	.	.	2	II
<i>Primula veris</i> subsp. <i>columnae</i>	E1	.	.	.	.	.	+	.	.	1	2	II
<i>Tanacetum corymbosum</i>	E1	+	.	.	.	.	.	.	.	.	1	I
<i>Hypericum montanum</i>	E1	.	+	.	.	.	.	.	.	.	1	I
<i>Quercus pubescens</i>	E1	.	+	.	.	.	.	.	.	.	1	I
Aremonio-Fagion												
<i>Cyclamen purpurascens</i>	E1	1	1	1	1	+	1	+	+	1	9	V
<i>Anemone trifolia</i>	E1	+	.	.	1	1	.	.	.	.	3	II
<i>Helleborus niger</i>	E1	+	+	.	.	1	.	.	.	.	3	II
<i>Cardamine enneaphyllos</i>	E1	.	+	.	.	.	.	.	.	.	1	I
Fagetalia sylvaticae												
<i>Campanula trachelium</i>	E1	+	+	.	1	+	1	1	+	.	7	IV
<i>Salvia glutinosa</i>	E1	r	+	.	+	.	+	+	.	+	6	IV
<i>Brachypodium sylvaticum</i>	E1	.	.	.	+	+	+	+	.	1	5	III
<i>Galium laevigatum</i>	E1	+	+	.	1	1	.	.	.	.	4	III
<i>Lathyrus vernus</i>	E1	+	1	.	+	+	.	.	.	.	4	III
<i>Asarum europaeum</i> subsp. <i>caucasicum</i>	E1	+	.	.	1	1	.	.	.	.	3	II
<i>Acer pseudoplatanus</i>	E1	.	r	.	.	+	.	.	.	+	3	II
<i>Mercurialis perennis</i>	E1	.	.	.	+	1	.	.	.	+	3	II
<i>Mycelis muralis</i>	E1	.	.	.	+	.	+	+	.	.	3	II
<i>Neottia nidus-avis</i>	E1	.	.	.	+	+	.	+	.	.	3	II
<i>Dryopteris filix-mas</i>	E1	.	.	.	+	.	+	+	.	.	3	II
<i>Carpinus betulus</i>	E3b	.	.	.	+	.	.	.	.	.	1	I
<i>Carpinus betulus</i>	E3a	.	r	.	.	.	.	.	.	.	1	I
<i>Carpinus betulus</i>	E2a	.	.	.	.	.	.	+	.	.	1	I
<i>Carpinus betulus</i>	E1	.	r	.	+	.	.	.	.	.	2	II
<i>Tilia cordata</i>	E3a	.	r	.	.	.	.	.	.	.	1	I
<i>Tilia cordata</i>	E2a	.	+	.	.	.	.	+	.	.	2	II
<i>Tilia cordata</i>	E1	.	.	.	.	.	+	.	.	.	1	I
<i>Fraxinus excelsior</i>	E3b	.	.	.	r	.	.	.	.	1	2	II
<i>Fraxinus excelsior</i>	E2a	.	.	.	.	.	.	.	.	1	1	I
<i>Fraxinus excelsior</i>	E1	.	.	.	.	.	.	.	.	1	1	I
<i>Galeobdolon flavidum</i>	E1	.	.	.	+	.	.	.	.	+	2	II
<i>Tilia platyphyllos</i>	E3b	.	.	.	.	+	.	.	.	.	1	I
<i>Tilia platyphyllos</i>	E3a	.	r	.	.	.	.	.	.	.	1	I
<i>Tilia platyphyllos</i>	E2b	.	+	.	.	.	.	.	.	+	2	II
<i>Tilia platyphyllos</i>	E2a	.	.	.	.	.	.	.	.	+	1	I
<i>Tilia platyphyllos</i>	E1	.	.	.	.	+	+	.	.	.	2	II
<i>Fagus sylvatica</i>	E3b	.	.	.	.	.	.	.	.	+	1	I
<i>Fagus sylvatica</i>	E3a	.	r	.	.	.	.	.	.	.	1	I
<i>Fagus sylvatica</i>	E2a	.	.	.	.	.	.	.	.	+	1	I

Number of relevé (Številka popisa)		1	2	3	4	5	6	7	8	9	Pr.	Cl.
<i>Fagus sylvatica</i>	E1	.	.	.	.	.	+	.	.	+	2	II
<i>Euphorbia amygdaloides</i>	E1	1	.	.	.	.	.	.	.	.	1	I
<i>Laburnum alpinum</i>	E2b	.	.	.	.	.	.	.	.	+	1	I
<i>Myosotis sylvatica</i>	E1	.	.	.	.	.	.	.	.	+	1	I
<i>Polygonatum multiflorum</i>	E1	.	.	.	.	.	.	.	.	+	1	I
<i>Prunus avium</i>	E2a	.	.	.	.	.	.	.	.	+	1	I
<i>Senecio fuchsii</i>	E1	.	.	.	.	.	.	.	.	+	1	I
<i>Acer platanoides</i>	E2a	.	.	.	.	.	.	.	.	+	1	I
<i>Acer platanoides</i>	E1	.	.	.	.	.	.	.	.	+	1	I
<i>Daphne mezereum</i>	E2a	.	.	.	.	.	.	.	.	+	1	I
Quercetalia roboris												
<i>Hieracium racemosum</i>	E1	+	.	.	.	+	.	.	.	.	2	II
<i>Festuca heterophylla</i>	E1	.	.	.	+	.	+	.	.	.	2	II
<i>Quercus robur</i>	E1	.	.	.	.	.	r	+	.	.	2	II
<i>Frangula alnus</i>	E2a	.	.	.	.	.	.	+	.	.	1	I
<i>Frangula alnus</i>	E1	.	.	.	.	.	.	+	.	.	1	I
<i>Pteridium aquilinum</i>	E1	r	.	.	.	.	.	.	.	.	1	I
<i>Melampyrum pratense</i>	E1	.	.	.	.	.	.	+	.	.	1	I
<i>Chamaecytisus supinus</i>	E1	.	.	.	.	.	.	.	1	.	1	I
Quercu-Fagetea												
<i>Viola riviniana</i>	E1	+	+	.	+	+	+	+	+	+	8	V
<i>Carex digitata</i>	E1	1	1	+	1	1	+	.	.	.	6	IV
<i>Vinca minor</i>	E1	1	1	.	1	1	.	2	.	3	6	IV
<i>Corylus avellana</i>	E3	.	.	.	.	.	.	.	.	1	1	I
<i>Corylus avellana</i>	E2b	.	.	.	+	1	+	1	.	1	5	III
<i>Corylus avellana</i>	E1	.	.	.	.	.	+	.	.	.	1	I
<i>Hepatica nobilis</i>	E1	+	1	.	1	+	.	.	.	+	5	III
<i>Clematis vitalba</i>	E2b	.	.	.	+	+	.	1	+	.	4	III
<i>Clematis vitalba</i>	E1	.	.	.	.	.	1	.	.	.	1	I
<i>Primula vulgaris</i>	E1	1	+	.	1	1	.	.	.	.	4	III
<i>Lonicera xylosteum</i>	E2a	.	.	.	1	.	+	+	.	.	3	II
<i>Acer campestre</i>	E3a	.	.	.	.	.	.	+	.	.	1	I
<i>Acer campestre</i>	E2b	.	.	.	.	.	.	+	+	.	2	II
<i>Acer campestre</i>	E2a	.	.	.	.	.	.	.	+	.	1	I
<i>Acer campestre</i>	E1	.	+	.	.	.	+	.	.	.	2	II
<i>Quercus petraea</i>	E1	.	+	.	.	+	.	.	.	.	2	II
<i>Cephalanthera longifolia</i>	E1	.	.	.	+	.	.	.	.	+	2	II
<i>Cruciata glabra</i>	E1	.	.	.	+	.	.	.	.	2	2	II
<i>Helleborus odoratus</i>	E1	.	.	.	+	1	.	.	.	.	2	II
<i>Veratrum nigrum</i>	E1	.	.	.	+	+	.	.	.	.	2	II
<i>Geum urbanum</i>	E1	.	.	.	.	+	.	+	.	.	2	II
<i>Hedera helix</i>	E1	.	.	.	.	+	+	.	.	.	2	II
<i>Pyrus pyraster</i>	E2a	.	.	.	.	.	+	+	.	.	2	II
<i>Viola mirabilis</i>	E1	.	+	.	.	.	.	.	.	.	1	I
<i>Dactylis polygama</i>	E1	.	.	.	.	+	.	.	.	.	1	I
<i>Listera ovata</i>	E1	.	.	.	.	+	.	.	.	.	1	I
Rhamno-Prunetea												
<i>Rhamnus catharticus</i>	E2a	.	+	.	.	+	1	1	+	.	5	III
<i>Crataegus monogyna</i>	E2b	+	.	.	.	.	.	.	.	.	1	I
<i>Crataegus monogyna</i>	E2a	+	+	.	.	.	+	+	+	.	5	III

Number of relevé (Številka popisa)		1	2	3	4	5	6	7	8	9	Pr.	Cl.
<i>Ligustrum vulgare</i>	E2a	+	.	.	.	.	+	+	+	.	4	III
<i>Ligustrum vulgare</i>	E1	.	.	.	.	.	+	.	.	.	1	I
<i>Cornus sanguinea</i>	E2b	.	.	.	.	.	.	+	.	.	1	I
<i>Cornus sanguinea</i>	E2a	.	.	.	+	.	.	.	.	.	1	I
<i>Cornus sanguinea</i>	E1	.	.	.	.	.	+	.	.	.	1	I
<i>Euonymus europaea</i>	E2a	.	.	.	.	+	.	.	.	.	1	I
<i>Rhamnus saxatilis</i>	E2a	.	.	.	.	.	.	.	+	.	1	I
<i>Rosa glauca</i>	E2a	.	.	+	.	.	.	.	.	.	1	I
<i>Rosa canina</i>	E2a	.	.	.	.	.	.	.	+	.	1	I
<i>Viburnum lantana</i>	E2a	.	.	.	.	.	+	.	.	.	1	I
<i>Berberis vulgaris</i>	E2a	.	.	.	.	.	.	.	+	.	1	I
Trifolio-Geranietea												
<i>Silene nutans</i>	E1	1	+	+	+	+	+	+	1	.	8	V
<i>Campanula rapunculoides</i>	E1	+	+	+	1	1	+	+	.	.	7	IV
<i>Clinopodium vulgare</i>	E1	+	+	.	1	+	+	1	1	.	7	IV
<i>Libanotis sibirica</i> subsp. <i>montana</i>	E1	+	+	+	+	+	+	.	1	.	7	IV
<i>Vincetoxicum hirundinaria</i>	E1	1	+	1	.	+	.	+	+	+	7	IV
<i>Viola hirta</i>	E1	+	+	1	+	+	+	.	1	.	7	IV
<i>Anthericum ramosum</i>	E1	+	1	1	+	+	.	.	+	.	6	IV
<i>Polygonatum odoratum</i>	E1	.	+	1	+	+	.	+	.	+	6	IV
<i>Digitalis grandiflora</i>	E1	+	+	.	+	+	.	.	.	.	4	III
<i>Valeriana collina</i>	E1	+	+	.	+	+	.	.	.	.	4	III
<i>Lilium carnolicum</i>	E1	r	+	.	+	.	.	.	.	.	3	II
<i>Thesium bavarum</i>	E1	+	+	+	.	.	.	.	.	.	3	II
<i>Thalictrum minus</i>	E1	.	.	+	+	.	.	.	.	.	2	II
<i>Trifolium rubens</i>	E1	.	.	.	+	.	.	.	+	.	2	II
<i>Laserpitium latifolium</i>	E1	.	.	.	.	+	.	.	.	+	2	II
<i>Lembotropis nigricans</i>	E1	.	.	.	.	.	+	.	+	.	2	II
<i>Verbascum lychnitis</i>	E1	.	.	.	.	.	+	.	+	.	2	II
<i>Origanum vulgare</i>	E1	1	.	.	.	.	.	.	.	.	1	I
<i>Inula conyza</i>	E1	.	.	.	+	.	.	.	.	.	1	I
<i>Valeriana nemorensis</i>	E1	.	.	.	+	.	.	.	.	.	1	I
<i>Achillea distans</i>	E1	.	.	.	.	.	.	+	.	.	1	I
<i>Astragalus glycyphyllos</i>	E1	.	.	.	.	.	.	+	.	.	1	I
Festuco-Brometea												
<i>Carex humilis</i>	E1	3	1	1	1	+	3	2	1	.	8	V
<i>Galium purpureum</i>	E1	+	+	1	+	.	+	+	1	.	7	IV
<i>Buphthalmum salicifolium</i>	E1	.	+	+	.	.	1	+	1	+	6	IV
<i>Dianthus monspessulanus</i>	E1	1	1	.	+	.	1	1	1	.	6	IV
<i>Genista tinctoria</i>	E1	+	1	.	+	.	+	1	1	.	6	IV
<i>Peucedanum oreoselinum</i>	E1	+	+	+	.	.	+	+	+	.	6	IV
<i>Teucrium chamaedrys</i>	E1	1	+	1	+	.	+	.	+	.	6	IV
<i>Allium carinatum</i>	E1	+	.	.	+	+	.	.	+	+	5	III
<i>Arabis hirsuta</i>	E1	+	+	.	.	.	1	+	.	+	5	III
<i>Euphorbia cyparissias</i>	E1	.	+	1	+	.	+	+	.	.	5	III
<i>Galium lucidum</i>	E1	.	.	+	+	.	+	+	+	.	5	III
<i>Ajuga genevensis</i>	E1	1	+	.	+	.	.	.	+	.	4	III
<i>Brachypodium rupestre</i>	E1	+	.	.	.	.	1	.	+	.	3	II
<i>Bromus erectus</i> agg.	E1	1	.	.	+	.	.	.	+	.	3	II
<i>Satureja montana</i> subsp. <i>variegata</i>	E1	+	.	1	.	.	.	.	+	.	3	II

Number of relevé (Številka popisa)		1	2	3	4	5	6	7	8	9	Pr.	Cl.
<i>Scabiosa triandra</i>	E1	+	.	+	.	.	.	.	+	.	3	II
<i>Centaurea triumfettii</i>	E1	.	+	+	.	.	.	.	+	.	3	II
<i>Stachys recta</i>	E1	.	1	+	.	.	.	.	.	.	2	II
<i>Medicago lupulina</i>	E1	.	.	.	.	.	+	.	+	.	2	II
<i>Pimpinella saxifraga</i>	E1	.	.	.	.	.	+	+	.	.	2	II
<i>Helianthemum ovatum</i>	E1	.	.	+	.	.	.	.	.	.	1	I
<i>Allium carinatum</i> subsp. <i>pulchellum</i>	E1	.	.	.	.	.	+	.	.	.	1	I
<i>Poa angustifolia</i>	E1	.	.	.	.	.	+	.	.	.	1	I
<i>Carlina vulgaris</i>	E1	.	.	.	.	.	.	+	.	.	1	I
<i>Hippocrepis comosa</i>	E1	.	.	.	.	.	.	.	+	.	1	I
<i>Dactylorhiza sambucina</i>	E1	.	.	.	.	.	.	.	.	+	1	I
Molinio-Arrhenatheretea												
<i>Veronica chamaedrys</i>	E1	+	.	.	+	.	.	+	.	+	4	III
<i>Achillea millefolium</i>	E1	.	+	.	+	+	+	.	.	.	4	III
<i>Galium mollugo</i>	E1	.	.	.	.	.	r	.	+	+	3	II
<i>Centaurea jacea</i>	E1	.	+	.	.	.	+	.	.	.	2	II
<i>Dactylis glomerata</i>	E1	.	.	.	.	.	+	+	.	.	2	II
<i>Lathyrus pratensis</i>	E1	.	.	.	.	.	1	+	.	.	2	II
<i>Phyteuma zahlbruckneri</i>	E1	.	.	.	.	+	.	.	.	.	1	I
<i>Lotus corniculatus</i>	E1	.	.	.	.	.	+	.	.	.	1	I
<i>Trifolium pratense</i>	E1	.	.	.	.	.	+	.	.	.	1	I
<i>Ranunculus nemorosus</i>	E1	.	.	.	.	.	.	.	.	+	1	I
<i>Taraxacum officinale</i>	E1	.	.	.	.	.	.	.	.	+	1	I
Elyno-Seslerietea												
<i>Festuca calva</i>	E1	r	+	.	r	.	+	.	+	+	6	IV
<i>Sesleria caerulea</i> subsp. <i>calcaria</i>	E1	1	3	4	.	.	+	.	1	.	5	III
<i>Acinos alpinus</i>	E1	+	+	.	.	.	+	.	1	.	4	III
<i>Carduus crassifolius</i>	E1	+	+	+	.	.	.	.	.	.	3	II
<i>Betonica alopecuros</i>	E1	.	+	.	.	.	.	.	.	.	1	I
<i>Phyteuma orbiculare</i>	E1	.	+	.	.	.	.	.	.	.	1	I
<i>Asperula aristata</i>	E1	.	.	+	.	.	.	.	.	.	1	I
<i>Ranunculus carinthiacus</i>	E1	.	.	.	.	.	.	.	.	+	1	I
Erico-Pinetea												
<i>Aster amellus</i>	E1	+	+	1	.	.	+	+	1	.	6	IV
<i>Calamagrostis varia</i>	E1	+	+	.	+	+	+	+	.	.	6	IV
<i>Polygala chamaebuxus</i>	E1	.	+	1	.	.	+	.	.	.	3	II
<i>Epipactis atrorubens</i>	E1	.	.	.	.	.	+	+	+	.	3	II
<i>Carex ornithopoda</i>	E1	.	.	+	.	.	.	.	.	+	2	II
<i>Chamaecytisus hirsutus</i>	E1	.	+	+	.	.	.	.	.	.	2	II
<i>Genista radiata</i>	E2a	.	r	3	.	.	.	.	.	.	2	II
<i>Carex alba</i>	E1	.	.	.	3	3	.	.	.	.	2	II
<i>Amelanchier ovalis</i>	E2b	.	.	+	.	.	.	.	.	.	1	I
<i>Amelanchier ovalis</i>	E2a	.	.	+	.	.	.	.	.	.	1	I
<i>Leontodon incanus</i>	E1	.	.	1	.	.	.	.	.	.	1	I
<i>Peucedanum austriacum</i> var. <i>rablense</i>	E1	.	.	.	.	.	.	.	.	+	1	I
Vaccinio-Piceetea												
<i>Solidago virgaurea</i>	E1	r	+	.	+	.	.	.	.	.	3	II
<i>Hieracium murorum</i>	E1	+	+	.	.	.	.	.	.	.	2	II
<i>Picea abies</i>	E2a	.	.	.	.	.	1	1	.	.	2	II
<i>Oxalis acetosella</i>	E1	.	.	.	.	.	.	.	.	2	1	I

Number of relevé (Številka popisa)		1	2	3	4	5	6	7	8	9	Pr.	Cl.
<i>Picea abies</i>	E1	.	.	.	.	.	.	.	.	+	1	I
<i>Thlaspietea rotundifolii</i> s. lat.												
<i>Viola pyrenaica</i>	E1	+	.	+	.	+	+	1	.	1	6	IV
<i>Hieracium glaucum</i>	E1	.	+	.	.	.	+	+	+	.	4	III
<i>Hieracium porrifolium</i>	E1	+	+	+	.	.	.	.	.	.	3	II
<i>Hieracium bifidum</i>	E1	.	.	+	.	.	1	1	.	.	3	II
<i>Aconitum angustifolium</i>	E1	.	.	.	+	.	.	.	.	.	1	I
<i>Hesperis candida</i>	E1	.	.	.	.	+	.	.	.	.	1	I
<i>Geranium macrorrhizum</i>	E1	.	.	.	.	.	.	1	.	.	1	I
<i>Aconitum lycoctonum</i>	E1	.	.	.	.	.	.	.	.	1	1	I
<i>Asplenieta trichomanis</i> s. lat.												
<i>Asplenium ruta-muraria</i>	E1	1	1	+	+	1	1	1	1	+	9	V
<i>Moehringia muscosa</i>	E1	1	+	1	1	1	1	1	+	.	8	V
<i>Asplenium trichomanes</i>	E1	1	+	.	+	1	1	1	1	.	7	IV
<i>Campanula carnica</i>	E1	+	+	+	.	.	+	+	1	.	6	IV
<i>Polypodium vulgare</i>	E1	.	+	.	+	+	1	1	.	.	5	III
<i>Sedum album</i>	E1	.	+	.	.	.	+	+	+	.	4	III
<i>Sedum maximum</i>	E1	+	.	.	+	.	.	+	.	.	3	II
<i>Campanula spicata</i>	E1	.	+	+	.	.	.	.	+	.	3	II
<i>Ceterach officinarum</i> s. lat.	E1	.	.	+	.	.	.	.	+	.	2	II
<i>Festuca stenantha</i>	E1	.	.	.	.	.	+	.	1	.	2	II
<i>Sedum hispanicum</i>	E1	.	.	.	.	.	.	1	+	.	2	II
<i>Asplenium adiantum-nigrum</i>	E1	.	.	.	.	.	+	.	.	.	1	I
<i>Saxifraga hostii</i>	E1	.	.	.	.	.	.	.	+	.	1	I
<i>Silene hayekiana</i>	E1	.	.	.	.	.	.	.	+	.	1	I
Other species (Druge vrste)												
<i>Fragaria vesca</i>	E1	1	+	.	1	1	1	+	+	+	8	V
<i>Juniperus communis</i>	E2b	.	.	.	.	.	.	+	1	.	2	II
<i>Juniperus communis</i>	E2a	.	.	.	.	.	+	1	1	.	3	II
<i>Juniperus communis</i>	E1	.	.	.	.	.	+	+	.	.	2	II
<i>Torilis japonica</i>	E1	.	.	.	.	r	.	+	.	.	2	II
<i>Festuca</i> sp.	E1	+	.	.	.	.	.	.	.	.	1	I
<i>Rubus caesius</i>	E2a	.	.	.	+	.	.	.	.	.	1	I
<i>Juglans regia</i>	E1	.	.	.	.	.	+	.	.	.	1	I
Mosses and lichens (Mahovi in lišaji)												
<i>Homalothecium sericeum</i>	E0	1	+	+	1	.	+	.	+	+	7	IV
<i>Anomodon viticulosus</i>	E0	+	+	.	1	+	.	2	2	.	6	IV
<i>Schistidium apocarpum</i>	E0	1	+	+	1	.	.	.	1	+	6	IV
<i>Homalothecium lutescens</i>	E0	.	.	.	1	.	2	2	2	1	5	III
<i>Ctenidium molluscum</i>	E0	.	+	.	+	+	.	1	.	.	4	III
<i>Hypnum cupressiforme</i>	E0	.	.	.	1	.	+	1	.	1	4	III
<i>Peltigera canina</i>	E0	.	.	.	+	.	.	+	+	.	3	II
<i>Porella platyphylla</i>	E0	.	.	.	.	.	+	+	+	.	3	II
<i>Tortella tortuosa</i>	E0	1	.	.	.	.	.	.	.	+	2	II
<i>Neckera crispa</i>	E0	.	1	.	.	+	.	.	.	.	2	II
<i>Anomodon attenuatus</i>	E0	.	.	.	+	1	.	.	.	.	2	II
<i>Isothecium alopecuroides</i>	E0	.	.	.	+	1	.	.	.	.	2	II
<i>Rhytidium rugosum</i>	E0	.	+	.	.	.	.	.	.	.	1	I
<i>Cladonia pyxidata</i>	E0	.	.	.	+	.	.	.	.	.	1	I
<i>Thuidium delicatulum</i>	E0	.	.	.	.	.	.	+	.	.	1	I

Number of relevé (Številka popisa)	I									II				I		II		
	1	2	3	4	5	6	7	8	9	10	11	12	13	Pr.	Fr.	Pr.	Fr.	
<i>Dianthus tergestinus</i>	E1	+	+	+	.	+	.	+	+	.	.	.	.	6	67	0	0	6
<i>Satureja subspicata</i> subsp. <i>liburnica</i>	E1	.	+	.	.	+	.	.	1	+	.	.	.	4	44	0	0	4
<i>Iris pallida</i> subsp. <i>illyrica</i>	E1	.	.	.	2	.	.	.	.	+	.	+	.	2	22	1	25	3
<i>Gentiana verna</i> subsp. <i>tergestina</i>	E1	.	.	.	.	.	.	.	r	.	.	.	.	1	11	0	0	1
SV <i>Scorzoneretalia villosae</i>																		
<i>Pseudolysimachion barrelieri</i>	E1	.	+	+	+	1	+	.	+	+	+	.	+	7	78	2	50	9
<i>Potentilla tommasiniana</i>	E1	.	.	+	1	+	+	+	+	.	.	.	.	6	67	0	0	6
<i>Sanguisorba muricata</i>	E1	.	.	+	1	+	.	+	+	+	.	.	.	6	67	0	0	6
<i>Potentilla australis</i>	E1	.	.	.	.	.	.	.	+	.	.	.	.	1	11	0	0	1
FB <i>Festuco-Brometea</i>																		
<i>Allium carinatum</i> subsp. <i>pulchellum</i>	E1	+	+	+	+	+	.	+	1	1	+	1	.	8	89	3	75	11
<i>Bromus erectus</i> agg.	E1	+	+	1	+	1	+	1	+	+	+	.	+	9	100	2	50	11
<i>Galium lucidum</i>	E1	.	+	+	+	1	2	1	+	+	+	.	+	8	89	2	50	10
<i>Dianthus monspessulanus</i>	E1	+	.	+	+	+	+	.	+	+	+	.	+	7	78	2	50	9
<i>Carex humilis</i>	E1	1	+	1	.	1	2	.	1	+	.	.	+	7	78	1	25	8
<i>Centaurea triumfettii</i>	E1	1	+	+	1	1	1	.	+	+	.	.	.	8	89	0	0	8
<i>Euphorbia cyparissias</i>	E1	.	.	+	+	+	1	+	+	+	.	+	.	7	78	1	25	8
<i>Teucrium montanum</i>	E1	+	+	+	+	+	+	.	.	+	.	.	.	7	78	0	0	7
<i>Anthyllis vulneraria</i>	E1	.	.	+	+	+	+	+	.	+	.	.	.	6	67	1	25	7
<i>Melica ciliata</i>	E1	+	+	1	+	+	.	.	.	.	+	.	.	5	56	1	25	6
<i>Globularia cordifolia</i>	E1	+	.	.	+	+	.	+	+	.	.	.	.	5	56	0	0	5
<i>Festuca rupicola</i>	E1	.	.	.	+	+	+	1	1	.	.	.	.	5	56	0	0	5
<i>Peucedanum oreoselinum</i>	E1	.	.	.	.	+	+	.	.	.	.	+	.	2	22	2	50	4
<i>Poa angustifolia</i>	E1	.	.	.	.	.	+	.	.	.	1	2	+	1	11	3	75	4
<i>Teucrium chamaedrys</i>	E1	.	.	+	1	.	.	.	+	.	.	.	+	3	33	1	25	4
<i>Thymus pulegioides</i>	E1	.	.	.	.	+	.	+	+	1	.	.	.	4	44	0	0	4
<i>Orobancha gracilis</i>	E1	+	.	.	+	.	.	.	.	+	.	.	.	3	33	0	0	3
<i>Allium senescens</i>	E1	.	.	+	+	.	.	.	+	.	.	.	.	3	33	0	0	3
<i>Ajuga genevensis</i>	E1	.	.	.	+	.	.	.	+	.	.	.	+	2	22	1	25	3
<i>Helianthemum ovatum</i>	E1	.	.	.	+	.	+	1	.	.	.	.	.	3	33	0	0	3
<i>Plantago media</i> (inc. var. <i>urvilleana</i>)	E1	.	.	.	.	.	.	+	+	+	.	.	.	3	33	0	0	3
<i>Dorycnium germanicum</i>	E1	.	.	.	.	+	.	.	1	.	.	.	.	2	22	0	0	2
<i>Trifolium montanum</i>	E1	.	.	.	.	.	.	1	1	.	.	.	.	2	22	0	0	2
<i>Scabiosa triandra</i>	E1	.	.	.	.	.	.	.	+	+	.	.	.	2	22	0	0	2
<i>Koeleria pyramidata</i>	E1	.	.	.	.	.	.	.	+	+	.	.	.	2	22	0	0	2
<i>Centaurea pannonica</i>	E1	.	.	.	.	.	.	.	+	+	.	.	.	2	22	0	0	2
<i>Galium purpureum</i>	E1	.	.	.	+	.	.	.	.	.	.	.	.	1	11	0	0	1
<i>Stachys recta</i>	E1	.	.	.	.	+	.	.	.	.	.	.	.	1	11	0	0	1
<i>Thlaspi praecox</i>	E1	.	.	.	.	.	.	.	+	.	.	.	.	1	11	0	0	1
<i>Hippocrepis comosa</i>	E1	.	.	.	.	.	.	.	.	1	.	.	.	1	11	0	0	1
<i>Gymnadenia conopsea</i>	E1	.	.	.	.	.	.	.	.	+	.	.	.	1	11	0	0	1
<i>Pimpinella saxifraga</i>	E1	.	.	.	.	.	.	.	.	+	.	.	.	1	11	0	0	1
<i>Briza media</i>	E1	.	.	.	.	.	.	.	.	+	.	.	.	1	11	0	0	1
<i>Festuca valesiaca</i>	E1	.	.	.	.	.	.	.	.	+	.	.	.	1	11	0	0	1
<i>Brachypodium rupestre</i>	E1	.	.	.	.	.	.	.	.	.	1	.	.	0	0	1	25	1
<i>Carlina vulgaris</i>	E1	.	.	.	.	.	.	.	.	.	+	.	.	0	0	1	25	1
<i>Medicago lupulina</i>	E1	.	.	.	.	.	.	.	.	.	.	+	.	0	0	1	25	1
<i>Arabis hirsuta</i>	E1	.	.	.	.	.	.	.	.	.	.	+	.	0	0	1	25	1
<i>Allium carinatum</i> subsp. <i>carinatum</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1

Number of relevé (Številka popisa)	I									II				I		II			
	1	2	3	4	5	6	7	8	9	10	11	12	13	Pr.	Fr.	Pr.	Fr.		
TG Trifolio-Geranietea																			
<i>Libanotis sibirica</i> subsp. <i>pyrenaica</i>	E1	+	1	.	+	1	+	2	1	1	+	.	+	.	8	89	2	50	10
<i>Valeriana collina</i>	E1	.	.	+	+	+	+	+	.	+	+	1	1	+	6	67	4	100	10
<i>Bupleurum exaltatum</i>	E1	+	+	+	.	1	+	+	1	+	.	.	+	.	8	89	1	25	9
<i>Polygonatum odoratum</i>	E1	.	.	.	.	+	.	.	1	.	+	3	+	2	2	22	4	100	6
<i>Ruta divaricata</i>	E1	+	.	.	+	1	+	.	+	+	.	.	.	.	6	67	0	0	6
<i>Verbascum chaixii</i>	E1	.	.	+	+	+	.	.	.	.	+	+	.	+	3	33	3	75	6
<i>Achillea distans</i>	E1	.	.	.	.	.	.	+	.	.	1	2	+	+	1	11	4	100	5
<i>Clinopodium vulgare</i>	E1	.	.	.	.	.	.	.	.	+	1	1	+	+	1	11	4	100	5
<i>Geranium sanguineum</i>	E1	.	.	1	+	.	.	.	.	.	+	+	.	.	2	22	2	50	4
<i>Laserpitium latifolium</i>	E1	.	.	.	.	.	.	.	.	+	.	1	.	+	1	11	2	50	3
<i>Thalictrum minus</i>	E1	.	.	+	.	.	+	.	.	.	.	+	.	.	2	22	1	25	3
<i>Hypericum perforatum</i>	E1	.	.	.	.	+	.	.	.	.	.	+	.	+	1	11	2	50	3
<i>Origanum vulgare</i>	E1	.	.	.	.	.	.	.	.	.	+	+	.	.	0	0	2	50	2
<i>Paeonia officinalis</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	+	0	0	2	50	2
<i>Trifolium alpestre</i>	E1	.	.	.	.	.	.	.	+	.	.	.	.	.	1	11	0	0	1
<i>Trifolium rubens</i>	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	1	11	0	0	1
<i>Viola hirta</i>	E1	.	.	.	.	.	.	.	.	+	.	.	.	.	1	11	0	0	1
<i>Silene nutans</i>	E1	.	.	.	.	.	.	.	.	.	.	+	.	.	0	0	1	25	1
<i>Digitalis grandiflora</i>	E1	.	.	.	.	.	.	.	.	.	.	+	.	.	0	0	1	25	1
<i>Vincetoxicum hirundinaria</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	0	0	1	25	1
<i>Lilium bulbiferum</i>	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Inula conyza</i>	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
QP Quercetalia pubescentis																			
<i>Arabis turrata</i>	E1	.	.	+	+	1	1	.	.	.	1	1	1	1	4	44	4	100	8
<i>Coronilla emerus</i> subsp. <i>emeroides</i>	E2a	+	+	1	+	.	.	.	.	.	.	.	.	+	4	44	1	25	5
<i>Ostrya carpinifolia</i>	E3b	.	.	.	.	.	.	.	.	.	4	1	3	4	0	0	4	100	4
<i>Ostrya carpinifolia</i>	E2b	.	.	.	.	.	2	.	.	.	+	.	.	.	1	11	1	25	2
<i>Ostrya carpinifolia</i>	E2a	.	.	.	.	.	.	+	.	.	.	.	.	.	1	11	0	0	1
<i>Fraxinus ornus</i>	E3	.	.	.	.	.	.	.	.	.	.	4	2	+	0	0	3	75	3
<i>Fraxinus ornus</i>	E2b	.	.	.	.	.	.	.	.	.	.	.	2	.	0	0	1	25	1
<i>Fraxinus ornus</i>	E2a	.	.	.	.	.	.	.	.	.	+	+	1	+	0	0	4	100	4
<i>Fraxinus ornus</i>	E1	+	.	.	+	+	.	.	.	.	.	.	.	+	3	33	1	25	4
<i>Mercurialis ovata</i>	E1	.	.	.	.	+	.	.	.	.	.	+	+	.	1	11	2	50	3
<i>Cnidium silaifolium</i>	E1	.	.	.	.	+	.	.	.	.	1	.	+	.	1	11	2	50	3
<i>Asparagus tenuifolius</i>	E1	.	.	.	.	.	.	.	.	.	+	.	+	+	0	0	3	75	3
<i>Campanula persicifolia</i>	E1	.	.	.	.	.	.	.	.	.	+	+	1	.	0	0	3	75	3
<i>Frangula rupestris</i>	E2a	+	.	.	.	.	r	.	.	.	.	.	.	.	2	22	0	0	2
<i>Melittis melissophyllum</i>	E1	.	.	.	.	.	.	.	.	.	1	+	.	.	0	0	2	50	2
<i>Quercus pubescens</i>	E3b	.	.	.	.	.	.	.	.	.	1	.	+	.	0	0	2	50	2
<i>Quercus pubescens</i>	E2b	.	.	.	.	.	.	.	.	.	+	.	+	.	0	0	2	50	2
<i>Quercus pubescens</i>	E2a	.	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Euonymus verrucosa</i>	E2b	.	.	.	.	.	.	.	.	.	r	.	+	.	0	0	2	50	2
<i>Euonymus verrucosa</i>	E2a	.	.	.	.	.	.	.	.	.	.	+	.	.	0	0	1	25	1
<i>Hypericum perforatum</i> subsp. <i>veronense</i>	E1	.	.	.	.	.	.	.	+	.	.	.	.	.	1	11	0	0	1
<i>Hypericum montanum</i>	E1	.	.	.	.	.	.	.	.	.	.	+	.	.	0	0	1	25	1
<i>Peucedanum schottii</i>	E1	+	.	.	0	0	1	25	1
<i>Acer monspessulanum</i>	E3b	+	0	0	1	25	1
<i>Acer monspessulanum</i>	E2b	1	0	0	1	25	1

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	1	2	3	4	5	6	7	8	9	10	11	12	13	Pr.	Fr.	Pr.	Fr.				
<i>Acer monspessulanum</i>	E2a	1	0	0	1	25	1			
<i>Cornus mas</i>	E2a	+	0	0	1	25	1			
F <i>Fagetalia sylvaticae</i>																					
<i>Geranium robertianum</i>	E1	+	+	+	+	0	0	4	100	4
<i>Acer platanoides</i>	E1	+	1	.	1	11	1	25	2		
<i>Asarum europaeum</i> subsp. <i>caucasicum</i>	E1	1	1	0	0	2	50	2		
<i>Salvia glutinosa</i>	E1	+	+	0	0	2	50	2		
<i>Campanula trachelium</i>	E1	+	1	0	0	2	50	2		
<i>Fagus sylvatica</i>	E3b	+	1	0	0	2	50	2		
<i>Fagus sylvatica</i>	E2b	+	0	0	1	25	1		
<i>Fagus sylvatica</i>	E2a	.	.	.	.	.	+	.	.	.	.	.	.	1	11	0	0	1
<i>Acer pseudoplatanus</i>	E3a	+	0	0	1	25	1		
<i>Acer pseudoplatanus</i>	E2a	+	0	0	1	25	1		
<i>Acer pseudoplatanus</i>	E1	.	.	.	.	.	.	.	.	.	.	.	.	1	11	0	0	1
<i>Mercurialis perennis</i>	E1	.	.	.	.	.	.	.	.	.	.	.	.	0	0	1	25	1
<i>Poa nemoralis</i>	E1	+	0	0	1	25	1		
<i>Prunus avium</i>	E1	+	0	0	1	25	1		
<i>Corydalis solida</i>	E1	r	0	0	1	25	1		
<i>Fraxinus excelsior</i>	E2b	r	0	0	1	25	1		
<i>Dryopteris filix-mas</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Polystichum aculeatum</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Aruncus dioicus</i>	E1	.	.	.	.	.	.	.	.	.	.	.	1	0	0	1	25	1
<i>Cyclamen purpurascens</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Daphne mezereum</i>	E2a	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Thalictrum aquilegifolium</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Calamintha grandiflora</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Mycelis muralis</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Epipactis helleborine</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Rhamnus fallax</i>	E2a	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Tilia platyphyllos</i>	E3b	r	0	0	1	25	1		
QF <i>Quercus-Fagetea</i>																					
<i>Galanthus nivalis</i>	E1	.	.	.	+	.	1	1	1	1	1	2	22	4	100	6
<i>Chamaecytisus supinus</i>	E1	.	.	+	+	+	3	33	1	25	4		
<i>Hepatica nobilis</i>	E1	+	1	1	+	1	11	3	75	4	
<i>Cruciata glabra</i>	E1	.	.	.	.	.	.	.	.	.	.	.	.	2	22	0	0	2
<i>Carex digitata</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	1	11	1	25	2
<i>Viola riviniana</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	2	50	2
<i>Anemone nemorosa</i>	E1	1	1	0	0	2	50	2		
<i>Corylus avellana</i>	E2b	+	1	0	0	2	50	2		
<i>Primula vulgaris</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Hypericum hirsutum</i>	E1	.	.	.	.	.	.	.	.	.	.	.	1	0	0	1	25	1
<i>Taxus baccata</i>	E2a	.	.	.	.	.	.	.	.	.	.	.	r	0	0	1	25	1
<i>Geum urbanum</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Solidago virgaurea</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
RP <i>Rhamno-Prunetea</i> s. lat.																					
<i>Prunus mahaleb</i>	E2b	+	0	0	1	25	1		
<i>Prunus mahaleb</i>	E2a	+	+	.	+	.	.	.	3	33	1	25	4			
<i>Euonymus europaea</i>	E2b	1	0	0	1	25	1			
<i>Euonymus europaea</i>	E2a	+	2	1	11	3	75	4		

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<i>Rhamnus catharticus</i>	E2b	+	+	.	+	0	0	3	75	3	
<i>Rhamnus catharticus</i>	E2a	+	+	+	.	.	1	11	2	50	3	
<i>Rosa canina</i>	E2b	+	+	.	+	0	0	3	75	3	
<i>Rosa canina</i>	E2a	.	.	.	.	.	.	.	+	+	.	.	+	1	11	2	50	3
<i>Rosa glauca</i>	E2b	.	.	.	.	.	.	.	.	.	+	+	+	0	0	3	75	3
<i>Rosa glauca</i>	E2a	.	.	.	.	.	.	.	.	.	+	.	+	0	0	2	50	2
<i>Amelanchier ovalis</i>	E2a	.	.	.	.	.	+	.	.	.	.	.	.	1	11	0	0	1
<i>Viburnum lantana</i>	E2b	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Viburnum lantana</i>	E2a	.	.	.	.	.	.	.	+	.	.	.	.	1	11	0	0	1
<i>Rosa pendulina</i>	E2a	.	.	.	.	.	.	.	.	+	.	.	.	0	0	1	25	1
MA Molinio-Arrhenatheretea																			
<i>Lotus corniculatus</i>	E1	.	.	.	.	+	.	1	1	+	.	.	.	4	44	0	0	4
<i>Lathyrus pratensis</i>	E1	.	.	.	.	+	.	.	.	.	+	1	+	1	11	3	75	4
<i>Veronica chamaedrys</i>	E1	+	2	1	2	0	0	4	100	4
<i>Festuca rubra</i> agg.	E1	.	.	+	.	.	+	.	.	+	.	.	.	3	33	0	0	3	
<i>Dactylis glomerata</i> s. lat. (inc. <i>D. polygama</i>)	E1	.	.	.	.	.	.	.	.	.	1	1	.	0	0	2	50	2
<i>Thalictrum simplex</i> subsp. <i>galioides</i>	E1	.	.	.	.	.	.	.	.	.	.	.	.	1	11	0	0	1
<i>Trifolium pratense</i>	E1	.	.	.	.	.	.	.	.	.	.	.	.	1	11	0	0	1
<i>Silene latifolia</i> subsp. <i>alba</i>	E1	.	.	.	.	.	.	.	.	.	+	.	.	0	0	1	25	1
<i>Vicia cracca</i>	E1	.	.	.	.	.	.	.	.	.	+	.	.	0	0	1	25	1
<i>Galium mollugo</i>	E1	.	.	.	.	.	.	.	.	.	.	+	.	0	0	1	25	1
<i>Poa trivialis</i>	E1	.	.	.	.	.	.	.	.	.	.	.	2	0	0	1	25	1
<i>Taraxacum officinale</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
ES Elyno-Seslerietea																			
<i>Phleum hirsutum</i>	E1	.	.	1	1	.	.	+	.	+	1	+	+	1	4	44	4	100	8
<i>Cerastium strictum</i>	E1	.	.	1	+	1	.	+	+	.	.	.	.	5	56	0	0	5
<i>Acinos alpinus</i>	E1	.	.	.	.	+	.	+	+	+	.	.	+	4	44	1	25	5
KC Koelerio-Corynephoretea																			
<i>Sedum album</i>	E1	+	+	1	+	+	+	.	.	.	+	.	+	6	67	3	75	9	
<i>Sedum sexangulare</i>	E1	.	.	+	+	+	.	.	+	+	.	.	.	5	56	0	0	5	
<i>Lactuca perennis</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
TR Thlaspietea rotundifolii																			
<i>Viola pyrenaica</i>	E1	1	1	2	2	1	1	1	1	2	2	1	1	9	100	4	100	13	
<i>Seseli gouanii</i>	E1	+	+	.	+	+	+	.	.	.	.	.	.	5	56	0	0	5
<i>Stachys subcrenata</i>	E1	.	+	+	+	+	+	+	.	.	.	.	.	6	67	0	0	6
<i>Dryopteris submontana</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	0	0	2	50	2
<i>Viola pinnata</i>	E1	.	.	.	.	.	.	.	.	+	.	.	.	1	11	0	0	1
<i>Anthriscus fumarioides</i>	E1	.	.	.	.	.	.	.	.	.	.	.	1	0	0	1	25	1
AT Asplenietea trichomanis																			
<i>Phyteuma scheuchzeri</i> subsp. <i>columnae</i>	E1	+	+	+	+	+	+	+	+	+	+	+	1	9	100	4	100	13	
<i>Asplenium trichomanes</i>	E1	.	+	+	+	+	.	.	.	.	.	.	+	4	44	4	100	8
<i>Erysimum sylvestre</i>	E1	+	+	+	+	+	.	1	.	.	.	.	.	6	67	0	0	6
<i>Ceterach officinarum</i> s. lat.	E1	.	+	+	+	.	.	.	.	.	.	.	+	3	33	3	75	6
<i>Saxifraga crustata</i>	E1	+	.	+	r	+	.	.	.	.	.	.	.	4	44	1	25	5
<i>Sedum maximum</i>	E1	.	.	+	.	.	.	.	.	.	1	1	+	1	11	4	100	5
<i>Asplenium ruta-muraria</i>	E1	.	+	+	.	.	.	.	.	.	.	.	+	2	22	3	75	5
<i>Silene saxifraga</i>	E1	+	+	.	.	+	3	33	0	0	3	
<i>Primula auricula</i>	E1	.	.	+	+	2	22	0	0	2	
<i>Campanula spicata</i>	E1	+	+	2	22	0	0	2	

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<i>Moehringia muscosa</i>	E1	+	+	0	0	2	50	2				
<i>Polypodium vulgare</i>	E1	+	+	0	0	2	50	2			
<i>Micromeria thymifolia</i>	E1	0	0	1	25	1				
<i>Cystopteris fragilis</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	0	0	1	25	1			
<i>Valeriana tripteris</i>	E1	.	.	.	.	.	.	.	.	.	.	.	+	.	0	0	1	25	1			
<i>Sedum hispanicum</i>	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1			
<i>Campanula pyramidalis</i>	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1			
O Other species (Druge vrste)																						
<i>Fragaria vesca</i>	E1	.	.	.	.	.	+	+	.	.	.	.	.	+	+	.	1	2	22	3	75	5
<i>Rubus idaeus</i>	E2a	.	.	.	.	.	+	.	+	.	.	.	.	.	2	22	1	25	3			
<i>Juniperus communis</i>	E2b	.	.	.	.	.	.	+	.	.	.	.	.	.	1	11	0	0	1			
<i>Juniperus communis</i>	E2a	.	.	.	.	.	.	+	.	+	1	.	.	.	3	33	0	0	3			
<i>Potentilla erecta</i>	E1	.	.	.	.	.	.	.	.	+	+	.	.	.	2	22	0	0	2			
<i>Fallopia dumetorum</i>	E1	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	.	0	0	2	50	2
<i>Lamium maculatum</i>	E1	.	.	.	.	.	.	.	.	.	.	.	.	1	.	.	1	0	0	2	50	2
<i>Rubus caesius</i>	E2a	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	0	0	1	25	1
ML Mosses and lichens (Mahovi in lišaji)																						
<i>Homalothecium lutescens</i>	E0	.	.	.	.	.	1	1	+	.	.	.	.	+	.	.	1	3	33	2	50	5
<i>Homalothecium sericeum</i>	E0	.	.	+	.	+	1	.	.	.	.	.	.	.	+	.	3	33	1	25	4	
<i>Ctenidium molluscum</i>	E0	.	.	.	.	.	2	.	.	.	.	.	.	+	.	1	.	1	11	2	50	3
<i>Isothecium alopecuroides</i>	E0	.	.	.	.	.	+	.	.	.	.	.	.	.	+	.	+	1	11	2	50	3
<i>Porella platyphylla</i>	E0	.	.	+	.	.	.	.	.	.	.	.	.	.	.	+	1	11	1	25	2	
<i>Hypnum cupressiforme</i>	E0	.	.	.	.	+	+	.	.	.	.	.	.	.	.	.	2	22	0	0	2	
<i>Homalothecium philippeanum</i>	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	+	0	0	2	50	2
<i>Marchantia polymorpha</i>	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	.	0	0	2	50	2
<i>Tortella tortuosa</i>	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	+	0	0	2	50	2
<i>Polytrichum formosum</i>	E0	.	.	.	.	.	.	.	.	.	.	.	.	+	.	.	.	0	0	1	25	1
<i>Neckera crispa</i>	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	0	0	1	25	1
<i>Rhytidiadelphus triquetrus</i>	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	.	0	0	1	25	1
<i>Anomodon viticulosus</i>	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Plagiomnium cuspidatum</i>	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Schistidium apocarpum</i>	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1
<i>Peltigera canina</i>	E0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	+	0	0	1	25	1