DIVERSITY AND ECOLOGICAL ANALYSIS OF SERPENTINE FLORA IN THE KOSOVO SECTION OF THE IBAR RIVER VALLEY - COMPARISON WITH THE FLORA OF NEARBY REGIONS

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(Received 7th May 2020; accepted 20th Aug 2020)

Abstract. Formation of serpentine flora and vegetation is primarily influenced by local geology and they represent an extraordinary area for botanical research studies (from both taxonomical and ecological perspective). During a sixteen-year research of serpentine terrain flora of the Ibar river middle-stream valley in northern Kosovo and Metohija, the existence of 882 taxa grouped into 83 families and 386 genera has been proven. The collected serpentine flora was analysed on taxonomical, ecological and phytogeographical basis. Out of the total number of identified taxa, 73 (8.27%) are endemic, sub-endemic, relic and endemolic. 31 taxa belong to a group of internationally significant vascular plants. Of these, 14 taxa have been protected by CITES Convention. The taxonomic structure of the serpentine flora of the Ibar river middle-stream valley is compared to the serpentine flora of Mt. Studena and Goleš Mt. (parts of Ibar serpentine massive).

Keywords: floristic composition, Ibar serpentine massif, endemism, floristic similarity, Serbia

Introduction

Serpentine is technically a mineral, but the same word is often used for all ultramafic rocks, the soils that form from them, and the unique ecosystems that form on them (Harrison and Rajakaruna, 2011). Serpentine is a ferromagnesian silicate mineral which contains high concentrations of nickel (Ni) and often chromium (Cr) and cobalt (Co) in a form available for plants (Westerbergh and Saura, 1992). Serpentine soils are often deficient in plant essential nutrients such as nitrogen (N), phosphorus (P), potassium (K), and sulfur (S) (Rajakaruna and Boyd, 2014), while ratio of calcium (Ca): magnesium (Mg) is less than 1.0, and pH values range from basic to ultrabasic (Brooks, 1987; Selvi, 2007; Pavlova, 2007; Bani et al., 2013). Owing to this chemical composition, Novák (1926) described serpentine ranges as “dead rocks”. Serpentine soils are typically recognized on the landscape as patchily distributed rock outcrops with stunted vegetation (Anacker, 2014). Serpentine outcrops are often steep and comparatively rocky, making them particularly vulnerable to erosion, which results in shallow soils (Brady et al., 2005) and stony structure (Kurt et al., 2013).

The serpentinite is rather unfavorable to plant growth, and its physical conditions also are inhospitable for many plants (Bani et al., 2013). However, plants would not be
what they are, if they weren’t able to conquer any tolerably suitable substratum by adapting to it (Vasić and Điklić, 2001). Plants adapted to grow under these constraints are called serpentinophytes (Selvi, 2007), distinguished by characteristic structural-morphological adaptations (Stevanović and Jakovljević, 2014); they posses capacity for removal and accumulation of metals (Branković et al., 2017). Many serpentine species are xeromorphic, and water deficiency has been suggested as another stress factor of many serpentine soils (Tumi, 2013). The serpentine flora contains both basophilous and acidophilous plants (Marin and Tatić, 2001). Vegetation growing on serpentinitised rocks is often reduced in height, biomass, and ground cover (Gavrilović et al., 2017).

Ultramafic outcrops (also called “serpentine”), formed during tectonic movements, are widespread but sparse, covering roughly 3% of the Earth’s surface (Guillot and Hattori, 2013). The largest serpentinite areas in Europe are in the Balkans (Stevanović et al., 2003), with an estimated size of over 1,300 km² (Pustahija, 2011).

The serpentines on the Balkan Peninsula traverse discontinuously from the northwest to central Bosnia, over western and central Serbia, Metohija, Albania, Epirus and northern Thessaly all the way to the Island of Evia, Greece (Stevanović and Jakovljević, 2014). In Bulgaria serpentinite areas are smaller and scattered (Pavlova, 2010), distributed in Southwestern & Central Bulgaria (Stevanović et al., 2003). It should be emphasized that the floristic opulence of these habitats increases with the serpentinites of western and central Serbia, over Albania to northern Pindo and the Evia Island, Greece (Stevanović and Jakovljević, 2014).

In the territory of Serbia the largest serpentinite surfaces are located in its western and central regions, as well as in Kosovo and Metohija territory, covering about 250000 ha (Stevanović et al., 2003). These serpentinite zones are distinctly delimited from the adjacent surrounding regions with a different geological substratum (e.g., limestone) (Dudić et al., 2007). Kosovo, as a part of the Balkan, hosts an ultramafic area of 487 km² within its territory (Salihaj et al., 2018). The largest complexes of serpentinite in Kosovo region are found in the valley of the Ibar River and the same are continued in a discontinuous chain through Koznica Mt. and Goleš Mt. to the southwest of Kosovo (Krasniqi and Millaku, 2007). The Ibar serpentinite massif stretches along the middle course of the Ibar River and represents a link in the extension chain of the serpentines in Bosnia-Zlatibor and the Ibar gorge-Albania direction (Prodanović et al., 2008). The identified age ranges from post-trias to lower jurassic.

The serpentinite terrains of northeastern Kosovo, i.e. the middle stream of the Ibar river, have been rarely visited and floristically researched, which resulted in scarce scientific literature (Pavlović, 1967; Rexhepi, 1979, 1992; Krasniqi et al., 1981; Randelović et al., 1982; Krivošej et al., 1993, 1995-1998; Tatić and Krivošej, 1997). A more thorough exploration of this area was started in 2003 by Prodanović, whose work resulted in publishing new chorological data on the flora of Kosovo and Metohija, and entire Serbia (Prodanović, 2007; Prodanović et al., 2004, 2008, 2010, 2012, 2013, 2018; Krivošej et al., 2003, 2011, 2013). However, a comprehensive study involving all vascular serpentine flora in the Ibar valley has not been published so far.

This paper presents a synthesis of all research studies performed in these area, both literature data and intensive field study data, starting from 2003 up to the present days. Its aim is to compile a complete checklist of floristic diversity of this area, analyse it on taxonomical, ecological and phytogeographical base and to compare the flora of two serpentinite regions in central Kosovo and central Serbia. It would be a significant scientific contribution to taxonomic and ecological studies of flora in whole Serbia.
Only a good knowledge of floristic diversity may initiate the procedures that may lead to preserving and protecting rare and endangered and internationally important species in these areas.

Materials and Methods

Study area

The intensive research studies of serpentine terrain in middle stream of the Ibar river started in March 2003 and continued till today. The researched area covers terrains in the Ibar river canyon north of Kosovska Mitrovica towards the administrative boundary of Kosovo and Metohija and central Serbia and a 50 km long village area of Donje Jarinje (Fig. 1). It should be emphasized that this highway more or less follows the Ibar river course. The actual length of the investigated area, due to naturally winding river course, is much bigger.

Figure 1. Geographical position of investigated area in Serbia (UTM 10x10 sq km)

The geographic relief of the Ibar river middle stream valley may be characterized as mountainous region – the Mountains of Rogozna, Kopaonik and Mokra raise up in the direction of the Ibar river canyon and they provide the main landscape characteristics to Kosovska Mitrovica basin. The altitude on the researched terrain varies between 500 and 900 meters above sea level. The climate of the Ibar river middle steam is defined as moderate –continental. The average air temperature is 10.2 °C. The researched area belongs to the zone with limited precipitation rate, around 614 mm.

The researched area in north Kosovo and Metohija covers the position between the Mesian and Illyrian provinces, since the Ibar river represents the farthest eastern
boundary of the Illyrian province. Due to this herbal-geographic position complex floristic and vegetation relations occur.

**Data collection**

The floral material was collected in the wider area on both sides of the river, through the gorge. The collected material was processed on usual ways for herbariums and stored in the Herbarium of the Institute for Natural Conservation of Serbia (a department in Belgrade) and some specimens are stored in the Herbarium of the Institute of Botany and Botanical Garden "Jevremovac", University of Belgrade (BEOU). The contemporary literature has been used for plant determination. The nomenclature used for all the registered species in the area under investigation was adjusted to comply with Euro+Med Plantbase (2006) and The Plant List (2013). The floristic catalogue is arranged in alphabetical order of families and genera.

The floristic elements for phytogeographic analyses have been processed and analyzed in line with herbal-geographic classification of Stevanović (1992a). The well-known Raunkiaer system (1934) amended by Stevanović (1992b) for Serbian conditions, has been used for the classification of life forms. Checklist of Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), as well as International Union for Conservation of Nature (IUCN) were used to determine the category of internationally significant and endangered species.

For the analysis of the similarity of flora in the researched area in the Ibar river valley and Studena planina/Mt. Studena and Goleš Mt., as parts of the Ibar serpentine massive, Sørensen's (1948) similarity index was used.

**Results and Discussion**

**Taxonomic analysis of the flora**

Biologically, serpentine sites frequently host a depauperate flora compared to the surrounding regions (Obratov-Petković et al., 2006). Serpentine habitats are important centres for floristic differentiation and speciation (Stevanović et al., 2003) distinguished by high number of endemics. Considering the fact that the serpentine terrains with the insufficiently developed soil and unfavourable water and mineral regime, and high levels of magnesium, iron, nickel and chrome are "inhospitable" for flora development, the total number of 882 identified taxa in the investigated area still show floral treasure (Prodanović et al., 2008).

During a 16-year research of serpentine terrain flora of the Ibar river middle-stream valley, 882 taxa (species, subspecies) has been identified, which represent about 25% of total flora of Serbia. They have been grouped into 83 families and 386 genera (*Table 1*). Class *Polypodiopsida* is presented by 8 families and 13 taxa. Only two species of *Pinopsida* can be found. Floristically speaking, the richest class is *Magnoliopsida* with 867 taxa. The greatest number of taxa is noted in family *Compositae* (105), followed by *Leguminosae* (86), *Poaceae* (66), *Lamiaceae* (51), *Brassicaceae* (50), *Caryophyllaceae* (49) which coincides with the most numerous families in the flora of entire Serbia (Stevanović et al., 1995).
Table 1. Catalogue of the vascular plants observed in the serpentine terrains of Kosovo’s section of the Ibar river valley

| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| **POLYPODIOPSIDA**    |                   |                      |
| Aspleniaceae          |                   |                      |
| Asplenium adiantum-nigrum subsp. serpentini (Tausch) Heuf | Prodanović, 2007 | black spleenwort |
| Asplenium ceterach L. subsp. ceterach | Prodanović, 2007 | rustyback |
| Asplenium ruta-muraria L. | Prodanović, 2007 | wall-rue |
| Asplenium trichomanes L. | Prodanović, 2007 | maidenhair spleenwort |
| **CYSTOPTERIDACEAE**  |                   |                      |
| Cystopteris fragilis (L.) Bernh. | Prodanović, 2007 | brittle bladder-fern |
| **DENNSTAEDTIACEAE**  |                   |                      |
| Pteridium aquilinum (L.) Kuhn | Prodanović, 2007 | bracken |
| **DRYOPTERIDACEAE**   |                   |                      |
| Dryopteris filix-mas (L.) Schott | Prodanović, 2007 |                      |
| **EQUISETACEAE**      |                   |                      |
| Equisetum arvense L. | Prodanović, 2007; Krivošej et al., 2013 | field horsetail |
| Equisetum palustre L. | Prodanović, 2007 | marsh horsetail |
| **OPHIOGLOSSACEAE**   |                   |                      |
| Ophioglossum vulgatum L. | Krivošej et al., 2013 | adder’s tongue |
| **POLYPODIACEAE**     |                   |                      |
| Polypodium vulgare L. | Prodanović, 2007 | polypody |
| **PTERIDACEAE**       |                   |                      |
| Paraceterach marantae (L.) R.M. Tryon | Rexhepi, 1979; Prodanović, 2007 | |
| Cheilanthes persica (Bory) Mett. ex Kuhn | Krivošej et al., 2003; Prodanović, 2007 | |
| **PINOPSIDA**         |                   |                      |
| Juniperus communis L. | Prodanović, 2007 | common juniper |
| Juniperus oxycedrus L. | Pavlovic, 1967; Rexhepi, 1979; Rexhepi 1992; Prodanović, 2007 | western prickly juniper, caje juniper |
| **MAGNOLIOPSIDA**     |                   |                      |
| Adoxa moschatellina L. | Prodanović, 2007 | moschatel |
| Viburnum lantana L. | Prodanović, 2007 | wayfaring tree |
| **AMARANTHACEAE**     |                   |                      |
| Amaranthus albus L. | Prodanović, 2007 | tumble pigweed |
| Amaranthus blitoides S. Watson | Prodanović, 2007 | mat amaranth |
| Amaranthus retroflexus L. | Prodanović, 2007 | redroot pigweed |
| Chenopodium bonus-henricus L. | Prodanović, 2007 | poor-man’s asparagus |
| Chenopodium hybridum L. | Prodanović, 2007 | goosefoot |
| Chenopodium opulifolium Schrad. ex W.D.J. Koch & Ziz | Prodanović, 2007 | grey goosefoot |
| Chenopodium polyspermum L. | Prodanović, 2007 | manyseed goosefoot |
| Dysphania botrys (L.) Mosyakin & Clements | Prodanović, 2007 | jerusalem oak goosefoot |
| **AMARYLLIDACEAE**    |                   |                      |
| Allium carinatum subsp. pulchellum (G.Don.) Bonnier & Layens | Prodanović, 2007 | witch’s garlic |
| Allium flavum L. | Pavlovic, 1967; Prodanovic et al., 2004; Prodanovic, 2007 | small yellow onion |
| Allium moschatum L. | Prodanović, 2007 | wild onion |
| Allium pendulinum Ten. | Prodanović, 2007 | italian garlic |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| Allium scorodoprasum L. | Pavlović, 1967; Prodanović, 2007 | rocambole |
| Allium sphaerocephalum L. | Prodanović, 2007 | round-headed leek |
| Galanthus nivalis L. | Prodanović, 2007 | snowdrop |
| ANACARDIACEAE | | |
| Cotinus coggygria | Pavlović, 1967; Rexhepi, 1979; Prodanović, 2007 | smoke tree |
| APIACEAE | | |
| Aegopodium podagraria L. | Prodanović, 2007; Krivošej et al., 2013 | goutweed |
| Anthriscus caucalis M.Bieb. | Prodanović, 2007 | bur-chervil |
| Anthriscus sylvestris (L.) Hoffm. | Prodanović, 2007 | cow parsley, wild chervil |
| Bifora radians M. Bieb. | Prodanović, 2007 | wild bishop |
| Bupleurum praetatum L. | Prodanović, 2007 | hare’s-ears |
| Bupleurum rotundifolium L. | Prodanović, 2007 | round-leaved thoroughwax |
| Conium maculatum L. | Prodanović, 2007 | poison hemlock |
| Daucus carota L. | Prodanović, 2007 | wild carrot, bird’s nest |
| Eryngium campestre L. | Rexhepi, 1979; Prodanović, 2007 | field eryngo |
| Eryngium palustre Pančić & Vis. | Prodanović, 2007 | blue eryngo, flat sea holly |
| Eryngium serbicum Pančić | Prodanović, 2007; Prodanović et al., 2008 | serbian sea holly |
| Falcaria vulgaris Bernh. | Prodanović, 2007 | sickleweed |
| Foeniculum vulgare Mill. | Prodanović, 2007 | sweet fennel |
| Heracleum sphondylium L. | Prodanović, 2007 | common hogweed |
| Laser trilobum (L.) Borkh. | Prodanović, 2007 | gladich |
| Laserpitium siler | Prodanović, 2007 | laserwort |
| Laserpitium siler subsp. siler | Prodanović, 2007 | laserwort |
| Myrrhoides nodosa (L.) Cannon | Prodanović, 2007 | sweet cicely |
| Oenanthe silaifolia M.Bieb. | Prodanović, 2007; Krivošej et al., 2013 | narrow-leaved water-dropwort |
| Orlaya grandiflora (L.) Hoffm. | Prodanović, 2007 | white laceflower |
| Pastinaca sativa L. | Prodanović, 2007 | parsnip |
| Pastinaca sativa L. subsp. urens (Godr.) | Prodanović, 2007 | wild parsnip |
| Peucedanum alanticum L. | Prodanović, 2007 | hog’s fennel |
| Peucedanum austriacum (Jacq.) W.D.J. Koch | Prodanović, 2007 | giant hog’s fennel |
| Peucedanum cervaaria (L.) Cusson ex Lapeyr. | Prodanović, 2007 | hart’s word |
| Peucedanum officinalis L. | Prodanović, 2007 | marsh hog’s fennel |
| Peucedanum oreoselinum (L.) Moench | Prodanović, 2007 | mountain hog’s Fennel |
| Physospermum cornubiense (L.) DC. | Prodanović, 2007 | bladderseed |
| Scandix pecten-veneris L. | Prodanović, 2007 | Venus’ comb |
| Seseli pallassi Besser | Prodanović, 2007 | |
| Seseli scapanoides (M.Bieb.) Koso.-Pol. | Prodanović, 2007 | |
| Seseli rigidum Waldst. & Kit. | Prodanović, 2007 | |
| Seseli rigidum Waldst. & Kit. subsp. rigidum | Prodanović, 2007 | |
| Sium latifolium L. | Prodanović, 2007 | water hemlock |
| Smyrnium perfoliatum L. | Prodanović, 2007 | perlfoliate alexanders |
| Torilis japonica (Houtt.) DC. | Prodanović, 2007 | erect hedgeparsley |
| Trinia glauca (L.) Dumort. | Prodanović, 2007 | honewort |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| *APOCYNACEAE*         |                   |                      |
| *Vincetoxicum hirundinaria* Medik. | Prodanović, 2007 | white swallow-wort |
| *Vinca major* L.     | Prodanović, 2007 | greater periwinkle  |
| *ARACEAE*             |                   |                      |
| *Arum maculatum* L.  | Prodanović, 2007 | cuckoo pint          |
| *ARALIACEAE*          |                   |                      |
| *Hedera helix* L.    | Prodanović, 2007 | english ivy          |
| *ARISTOLOCHIACEAE*    |                   |                      |
| *Aristolochia clematitis* L. | Prodanović, 2007 | birthwort            |
| *Asarum europaeum* L. | Prodanović, 2007 | wild ginger          |
| *ASPARAGACEAE*        |                   |                      |
| *Anthericum liliago* L. | Pavlovic, 1967; Prodanović, 2007 | lily |
| *Asparagus officinalis* L. | Prodanović, 2007 | sparrow grass        |
| *Asparagus officinalis* subsp. glauca Lam. | Prodanović, 2007 |                      |
| *Convallaria majalis* L. | Prodanović, 2007 | lily of the valleys  |
| *Hedera helix* L.    | Prodanović, 2007 | english ivy          |
| *ORLANDOLOGIA*        |                   |                      |
| *Oxalis acetosella* L. | Prodanović, 2007 | horned sorrel        |
| *ORLANDOLOGIA*        |                   |                      |
| *Polygonatum orientale* Mill. | Prodanovic, 2007 | oriental hornbeam    |
| *Polygonatum odorum* Mill. (Mill.) Druce | Prodanovic, 2007 | fragrant Solomon's seal |
| *Ranunculus* spp.    |                   |                      |
| *Scilla bifolia* L.  | Prodanović, 2007 | twin leaf squill     |
| *BERBERIDACEAE*       |                   |                      |
| *Berberis vulgaris* L. | Prodanović, 2007 | common barberry      |
| *Epimedium alpinum* L. | Prodanović et al., 2013 | alpine barrenwort    |
| *BETULACEAE*          |                   |                      |
| *Alnus glutinosa* (L.) Gaertn. | Prodanovic, 2007; Krivosej et al., 2013 | european black alder |
| *Carpinus betulus* L. | Prodanović, 2007 | common hornbeam      |
| *Corylus avellana* L. | Prodanovic, 2007; Krivosej et al., 2004; Prodanovic, 2007 | hazel |
| *Ostrya carpinifolia* Scop. | Prodanovic et al., 2004; Prodanovic, 2007; Prodanovic, 2007 | hop-hornbeam |
| *BORAGINACEAE*        |                   |                      |
| *Anchusa azurea* Mill. | Prodanovic, 2007 | bugloss              |
| *Anchusa officinalis* L. | Prodanovic, 2007 | common bugloss, alkanet |
| *Asperugo procumbens* L. | Prodanovic, 2007 | german-madwort       |
| *Buglossoides arvensis* (L.) I.M. Johnst. | Prodanovic, 2007 | corn gromwell        |
| *Buglossoides purpurascens* (L.) I.M. Johnst. | Prodanovic, 2007 | purple gromwell      |
| *Cerinthe minor* L.  | Prodanovic, 2007 | honeyworts           |
| *Cynoglossum ceticum* Mill. | Prodanovic, 2007 | blue houndstonge     |
| *Echium vulgare* L.  | Prodanovic, 2007 | common vipersbugloss |
| *Halacysa sendtori* (Boiss.) Dörlfl. | Prodanovic, 1967; Rexhepi, 1979; Randelovic et al., 1982; Prodanovic, 2007; Prodanovic et al., 2008 | halacysa |
| *Heliotropium europaeum* L. | Prodanovic, 2007 | european turn-sole    |
| *POLYGONACEAE*        |                   |                      |
| *Polygonatum bistortoides* (L.) Druce | Prodanovic, 2007 | bistortoides         |
| *SCROPHULARIACEAE*    |                   |                      |
| *Asperugo procumbens* L. | Prodanovic, 2007 | german-madwort       |
| *Buglossoides arvensis* (L.) I.M. Johnst. | Prodanovic, 2007 | corn gromwell        |
| *Buglossoides purpurascens* (L.) I.M. Johnst. | Prodanovic, 2007 | purple gromwell      |
| *Cerinthe minor* L.  | Prodanovic, 2007 | honeyworts           |
| *Cynoglossum ceticum* Mill. | Prodanovic, 2007 | blue houndstonge     |
| *Echium vulgare* L.  | Prodanovic, 2007 | common vipersbugloss |
| *Halacysa sendtori* (Boiss.) Dörlfl. | Prodanovic, 1967; Rexhepi, 1979; Randelovic et al., 1982; Prodanovic, 2007; Prodanovic et al., 2008 | halacysa |
| *Heliotropium europaeum* L. | Prodanovic, 2007 | european turn-sole    |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| Lappula squarrosa (Retz.) Dumort. | Prodanović, 2007 | bur forget-me-not |
| Myosotis arvensis (L.) Hill. | Prodanović, 2007 | field forget-me-not |
| Myosotis discolor Pers. | Prodanović, 2007 | changing forget-me-not |
| Myosotis sarsiflora J.K.Mikan ex Pohl. | Prodanović, 2007 | forget-me-not |
| Nonnea pulla DC. | Prodanović, 2007 | monkswort |
| Onosma montana Sm. | Prodanović, 2007 | onosma |
| Pulmonaria mollissima Wulfen ex Hornem. | Prodanović, 2007 | lungwort |
| Pulmonaria officinalis L. | Prodanović, 2007 | common lungwort |
| Symphytum tuberosum L. | Prodanović, 2007 | tuberous comfrey |
| Aethionema saxatile subsp. graecum (Boiss. & Spruner) Hayek | Rexhepi, 1979; Prodanović, 2007 | burnt candytuft |
| Aethionema saxatile (L.) R.Br. subsp. saxatile | Prodanović, 2007 | burnt candytuft |
| Alliaria petiolata (M.Bieb.) Cavara & Grande | Prodanović, 2007 | garlic mustard |
| Alyssum alpinoles (L.) L. | Prodanović, 2007 | yellow alyssum |
| Alyssum markgrafti O.E.Schulz. | Pavlovic, 1967; Rexhepi, 1979; Krivošej et al., 1993; Prodanović, 2007; Prodanović et al., 2008: | |
| Alyssum montanum L. subsp. serbicicum Novák f. macrophyllum Novák | Pavlovic, 1967; Prodanović, 2007; Prodanović et al., 2008 | mountain alyssum |
| Alyssum montanum L. subsp. serbicicum Novák f. microphyllum Novák | Pavlovic, 1967; Prodanović, 2007 | mountain alyssum |
| Alyssum montanum L. subsp. serbicicum Novák f. serbicicum | Pavlovic, 1967; Prodanović, 2007 | mountain alyssum |
| Alyssum wierzbickii Heuff.? | Prodanović, 2007 | alpine alyssum |
| Arabidopsis arenosa (L.) Lavalrée | Prodanović, (unpublished, field observation) | rockcress |
| Arabidopsis thaliana (L.) Heynh. | Prodanović, 2007 | thale cress, mouse-ear cress |
| Arabis hirsuta (L.) Scop. | Prodanović, 2007 | hairy rock-cress |
| Arabis turrita L. | Prodanović, 2007 | rockcress, |
| Berteroa incana (L.) DC. | Prodanović, 2007 | hoary alyssum |
| Calepina irregularis (Assio) Thell. | Prodanović, 2007 | white balmmustard |
| Camelina sativa (L.) Crantz. | Prodanović, 2007 | camelina, false flax |
| Capsella bursa-pastoris (L.) Medik | Prodanović, 2007 | shepherd's purse |
| Cardamine bulbifera (L.) Crantz. | Prodanović, 2007 | coralroot |
| Cardamine graeca L. | Krivošej & Prodanović, 2011 | southern bitter-cress |
| Cardamine impatiens L. | Prodanović, 2007 | narrowleaf bittercress |
| Cardamine pratensis L. | Prodanović, 2007 | cuckoo flower, lady's smock |
| Descurainia sophia (L.) Webb. ex Prantl | Prodanović, 2007 | flaxweed |
| Diplotaxis muralis (L.) DC. | Prodanović, 2007 | wall rocket |
| Draba lasiocarpa Rochel | Prodanović, 2007 | whitlow-grasses |
| Draba muralis L. | Prodanović, 2007 | whitlowgrass |
| Erysimum cuspidatum (M. Bieb.) DC. | Prodanović, 2007 | wallflower |
| Erysimum diffusum Ehrh. | Pavlovic, 1967; Prodanović, 2007 | diffuse wallflower |
| Erysimum odoratum Ehrh. | Prodanović, (unpublished, field observation) | smelly wallflower |
| Erysimum kaemnerlei Jáv. | Prodanović, 2007 | wallflower |
| Erysimum sylvestre (Crantz) Scop. | Prodanović, 2007 | wallflower |
| Fibigia clypeata (L.) Medik | Prodanović et al., 2004; Prodanović, 2007 | false-gypsophila ankyropetalum |
| Hesperis matronalis L. | Prodanović, 2007 | mother-of-the-evening |
| Isatis tinctoria L. | Prodanović, 2007 | dyer's woad, glastum |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|---------------------|
| Lepidium campestre (L.) R.Br. | Prodanović, 2007 | field pepperwort, field cress |
| Lepidium draba L. | Prodanović, 2007 | whitetop, hoary cress |
| Lepidium ruderalle L. | Prodanović, 2007 | roadside pepperweed |
| Myagrum perfoliatum L. | Prodanović, 2007 | bird’s-eye cress, muskweed |
| Odontarrhena bertoloni subsp. scutarina (Nyár) Španiel & al. | Prodanović, 2007 | |
| Rorippa amphibia (L.) Besser | Prodanović, 2007 | great yellowcress |
| Rorippa austriaca (Crantz) Spach. | Prodanović, 2007 | austrian yellow-cress |
| Rorippa lippizensis (Wulfen) Rchb. | Prodanović, 2007 | yellowcress |
| Rorippa sylvestri s (L.) Besser | Prodanović, 2007 | creeping yellowcress, yellow fieldcress |
| Sisymbrium altissimum L. | Prodanović, 2007 | tall hedge-mustard, tumbledmustard |
| Sisymbrium loeselii L. | Prodanović, 2007 | small tumbleweed mustard |
| Sisymbrium officinale (L.) Scop. | Prodanović, 2007 | hedge mustard |
| Sisymbrium strictissimum L. | Prodanović, 2007 | perennial rocket |
| Thlaspi arvense L. | Prodanović, 2007 | stinkweed, bastard cress, fanweed |
| Thlaspi kovatsii Heuff. | Prodanović, 2007 | pennycress |
| Turritis glabra L. | Prodanović, 2007 | tower rockcress, tower mustard |
| Asyneuma canescens (Walldst. & Kit.) Griseb. & Schenk | Prodanović, 2007 | harebells |
| Asyneuma limonifolium (L.) Janch. Pavlović, 1967; Randelović et al., 1982; Prodanović, 2007 | harebells |
| Campanula cervicaria L. | Prodanović, 2007 | bristly bellflower |
| Campanula lingulata Waldst. & Kit. | Prodanović, 2007 | bellflower |
| Campanula persicifolia L. | Prodanović, 2007 | peach-leaved bellflower |
| Campanula rapunculoides L. | Prodanović, 2007 | creeping bellflower |
| Campanula rapunculus L. | Prodanović, 2007 | rampion bellflower |
| Campanula rapunculus L. f. montana Pančić | Prodanović, 2007 | rampion bellflower, rampion |
| Campanula trachelium L. | Prodanović, 2007 | nettle-leaved bellflower |
| Legousia speculum-veneris (L.) Durande ex Vill. | Prodanović, 2007 | looking glass, large Venus’s-looking-glass |
| Humulus lupulus L. | Prodanović, 2007 | common hop |
| Cephalaria leucontha (L.) Scharad. ex Roem. & Schult. | Rexhepi, 1979; Prodanović et al., 2004; Prodanović, 2007 | giant scabious |
| Knautia arvensis (L.) Coult. | Prodanović, 2007 | field scabious |
| Knautia integrifolia (Honck. ex L.) Bertol | Prodanović, 2007 | whole-leaved scabious |
| Lonicera caprifolium L. | Prodanović, 2007 | italian woodbine, perfoliate honeysuckle |
| Scabiosa argentea L. | Prodanović, (unpublished, field observation) | silver scabious |
| Scabiosa columbaria L. | Rexhepi, 1979; Prodanović, 2007 | pigeon scabious, pincushion flower |
| Scabiosa fumaroides Vis. & Pančić | Prodanović, 2007; Prodanović et al., 2008 | |
| Valeriana officinalis L. | Prodanović, 2007 | garden heliotrope, valerian |
| Valeriana tuberosa L. | Krivošej et al., 1995-1998; Prodanović, 2007 | tuberous valerian |
| Valerianella coronata (L.) DC. | Prodanović, 2007 | corn lettuce |
| Valerianella dentata (L.) Pollich | Randelović et al., 1982; Prodanović, 2007 | corn salad |
| Valerianella locusta (L.) Laterr. | Prodanović, 2007 | corn salad |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| Claviceps purpurea     | Prodanović et al., 2010 | purple blister grain |
| Crepidotus fruticosus  | Prodanović et al., 2010 | crepidotus mushroom |
| Dictyophora delavayi   | Prodanović et al., 2010 | dictyophora snailcap |
| Echinostroma subinflata| Prodanović et al., 2010 | echinostroma morchella |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| Helvella dimeris       | Prodanović et al., 2010 | helvella dimeris |
| Helvella crispa        | Prodanović et al., 2010 | helvella crispa |
| Helvella bulbosa       | Prodanović et al., 2010 | helvella bulbosa |
| Helvella rosea         | Prodanović et al., 2010 | helvella rosea |
| Helvella zonata        | Prodanović et al., 2010 | helvella zonata |
| CLASS/FAMILY/Species | Source/Literature | Common English names |
|----------------------|------------------|----------------------|
| Silene nutans L.     | Prodanović, 2007 | nottingham catchfly  |
| Silene oitea (L.) Wibel. | Prodanović, 2007, Randelović et al., 1982 | Spanish catchfly |
| Silene viscaria (L.) Jess. | Prodanović, 2007 | bladder campion |
| Stellaria aquatica (L.) Scop. | Prodanović, 2007 | giant chickweed |
| Stellaria graminea L. | Prodanović, 2007; Krivošej et al., 2013 | grassleaved stichwort |
| Stellaria holostea L. | Prodanović, 2007 | greater stichwort |
| Stellaria nemorum L. | Prodanović, 2007 | common chickweed |
| Stellaria vulgaris (Moench) Garcke | Prodanović, 2007 | bladder campion |
| Stellaria aquaticua (L.) Scop. | Prodanović, 2007 | giant chickweed |
| Stellaria graminea (L.) Wibel. | Prodanović, 2007, Randelović et al., 1982 | Spanish catchfly |
| Stellaria viscaria (L.) Jess. | Prodanović, 2007 | bladder campion |
| Stellaria aquatica (L.) Scop. | Prodanović, 2007 | giant chickweed |
| Stellaria graminea L. | Prodanović, 2007; Krivošej et al., 2013 | grassleaved stichwort |
| Stellaria holostea L. | Prodanović, 2007 | greater stichwort |
| Stellaria nemorum L. | Prodanović, 2007 | common chickweed |
| CELASTRACEAE         |                  |                      |
| Euonymus europaeus L. var. europeus f. angustifolia (Schultz) Rony | Prodanović, 2007 | European spindle |
| Euonymus europaeus L. var. grandifolia Form. f. scaberula (Beck) Jovanović | Prodanović, 2007 | European spindle |
| Euonymus latifolius (L.) Mill. | Prodanović, 2007 | Broadleaf spindle |
| Euonymus verrucosus Scop. | Prodanović, 2007 | Spindle tree |
| CISTACEAE            |                  |                      |
| Fumana bonapartei Maire et Petitm. | Pavlović, 1967; Rexhepi, 1979; Randelović et al., 1982; Prodanović, 2007; Prodanović et al., 2008 | Needle sunrose |
| Fumana procumbens (Dunal) Gren. & Godr. | Prodanović et al., 2004; Prodanović, 2007 | sprawling needle sunrose |
| Helianthemum nummularium (L.) Mill. subsp. nummularium | Prodanović et al., 2004; Prodanović, 2007 | Common rock-rose |
| Helianthemum salicifolium (L.) Mill. | Prodanović, 2007 | Rock rose, sunrose |
| CLUSIACEAE           |                  |                      |
| Hypericum barbatum Jacq. | Prodanović, 2007 | Bearded St. John’s wort |
| Hypericum hirsutum L. | Prodanović, 2007 | Hairy St. John’s wort |
| Hypericum perforatum L. | Rexhepi, 1979; Prodanović, 2007 | Perforate St. John’s wort |
| Hypericum rumelicum Boiss. | Prodanović, 2007 | St. John’s wort |
| COMPOSITAE           |                  |                      |
| Colchicum autumnale L. | Prodanović et al., 2004; Prodanović, 2007; Prodanović et al., 2013 | Autumn crocus, meadow saffron |
| COMPOSITAE           |                  |                      |
| Achillea coarctata Poir. | Prodanović, 2007 | Yarrow |
| Achillea collina (Becker ex Rchb.f.) Heimerl. | Prodanović, 2007 | Yarrow |
| Achillea crispifolia Waldst. & Kit. | Prodanović, 2007 | Yarrow |
| Achillea millefolium L. | Prodanović, 2007 | Milfoil, common yarrow |
| Achillea pseudopectinata Janka | Prodanović, 2007 | Yarrow |
| Ambrosia artemisiifolia L. | Prodanović, 2007 | Common ragweed, annual ragweed |
| Anthemis arvensis L. | Prodanović, 2007 | Corn chamomile, mayweed |
| Arctium lappa L. | Prodanović, 2007 | Greater burdock |
| Artemisia absinthium L. | Prodanović, 2007 | Absinth wormwood |
| Artemisia alba Turra | Prodanović, 2007 | White wormwood |
| Artemisia campestris L. | Prodanović, 2007 | Common sagewort |
| Artemisia scoparia Waldst. & Kitam. | Prodanović, 2007 | Virgin wormwood |
| Artemisia vulgaris L. | Prodanović, 2007 | Common mugwort |
| Bellis perennis L. | Prodanović, 2007; Prodanović et al., 2013 | Common daisy |
| Cardus candidans Waldst. & Kit. | Prodanović, 2007 | Thistle |
| Cardus nutans L. | Prodanović, 2007 | Musk thistle |
| CLASS/FAMILY/Species                  | Source/Literature       | Common English names                      |
|--------------------------------------|-------------------------|-------------------------------------------|
| Carlina acaulis L.                   | Prodanović, 2007        | stemless carline thistle, dwarf carline thistle |
| Carthamus lanatus L.                 | Prodanović, 2007        | woolly carthamus, woolly safflower         |
| Centaurea jacea L.                   | Prodanović, 2007        | brown knapweed                             |
| Centaurea orientalis L.              | Prodanović, 2007        | knapweed                                   |
| Centaurea phrygia L.                 | Rexhepi, 1979; Prodanović, 2007 | wig knapweed                              |
| Centaurea scabiosa L. subsp. frutichii (Hayek) Hayek | Prodanović, 2007 | greater knapweed                           |
| Centaurea scabiosa L. subsp. spinulosa (Spreng.) Arcang | Prodanović, 2007 | scabious knapweed, greater knapweed        |
| Centaurea solstitialis L. subsp. australis (Pančić ex A.Kern) | Prodanović, 2007 | yellow star-thistle, spotted knapweed      |
| Centaurea stoebe L.                  | Prodanović, 2007        | panicked knapweed, spotted knapweed        |
| Chondrilla juncea L.                 | Prodanović et al., 2004; Prodanović, 2007 | rush skeletonweed, nakedweed               |
| Cichorium intybus L.                 | Prodanović, 2007        | chicory                                    |
| Cirsium arvense (L.) Scop.           | Prodanović, 2007        | creeping thistle                           |
| Cirsium creticum (Lam.) Urv.         | Prodanović, 2007        | bull thistle                               |
| Cirsium lanceolatum (L.) Hill.       | Prodanović, 2007        | bull thistle, common thistle               |
| Cota austriaca (Jacq.) Sch.Bip.      | Prodanović, 2007        | austrian chamomile                         |
| Cota tinctoria (L.) J.Gay.           | Prodanović, 2007        | golden marguerite, yellow chamomile        |
| Crepis biennis Lapeyr.               | Prodanović, 2007        | rough Hawksbeard                           |
| Crepis foetida subsp. rhexadijolia (M.Bieb.) Čelak | Prodanović, 2007 | stinking hawksbeard                        |
| Crepis sancta (L.) Bornm.            | Pavlovic, 1967; Rexhepi, 1979; Prodanović, 2007 | holy hawksbeard                           |
| Crepis setosa Haller f.              | Prodanović, 2007        | bristly hawksbeard                         |
| Crepis vulgari Pers ex Cass.         | Randelovic et al., 1982; Prodanovic, 2007 | bearded creeper                            |
| Cyanus segetum Hill                  | Prodanović, 2007        | cornflower, bachelor's button              |
| Cyanus triumfettii (All.) Dostál ex A. Löve & D.Löve | Prodanović, 2007 | mountain cornflower                        |
| Cyanus triumfettii (All.) Dostál ex A. Löve & D.Löve subsp. axillaries (Čelak.) Štepánek | Prodanović, 2007 | mountain cornflower                        |
| Doronicum columnae Ten.              | Prodanović, (unpublished, field observation) | leopard's bane                             |
| Doronicum hungaricum (Sadler) Rchb.f | Prodanović, 2007; Krivoše & Prodanović, 2011; Prodanovic et al., 2012 | leopard's bane                             |
| Doronicum orientale Hoffm.           | Prodanović, (unpublished, field observation) | leopard's bane                             |
| Echinos p rito subsp. ruthericensis (M.Bieb.) Nyman | Prodanović, 2007 | southern globethistle                      |
| Echinos spheerocephalus L.           | Prodanović, 2007        | glandular globe-thistle                    |
| Erigeron acer L.                     | Prodanovic, 2007        | bitter fleabane                            |
| Erigeron canadensis L.               | Prodanovic, 2007        | horseweed, canadian horseweed              |
| Eupatorium cannabinum L.             | Prodanovic, 2007        | hemp-agrimony, holy rope                   |
| Filago arvensis L.                   | Prodanovic, 2007        | field cottonrose                           |
| Gallatella albanica Degen            | Rexhepi 1992; Krivoše et al., 1993; Prodanovic, 2007; Prodanovic et al., 2008 |                            |
| Gallatela linosyris (L.) Rchb.       | Prodanovic, 2007        | goldilocks aster                           |
| Hieracium bauhini Besser subsp. bessorianum Spreng | Prodanovic, 2007 | hawkweed                                   |
| Hieracium bauhini Besser subsp. filiferum (Tausch) Zahn | Prodanovic, 2007 | hawkweed                                   |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| Hieracium baumhini Besser subsp. heathinum (N.P.) Zahn | Prodanović, 2007 | hawkweed |
| Hieracium baumhini Besser subsp. pseudo-kernezi Zahn | Prodanović, 2007 | hawkweed |
| Hieracium baumhini Besser subsp. pseudopsarsum Zahn | Prodanović, 2007 | hawkweed |
| Hieracium cymosum Vill. | Prodanović, 2007 | hawkweed |
| Hieracium hoppeanum Wallr. ex Nyman | Prodanović, 2007 | Hoppe’s hawkweed |
| Hieracium lachenalii var. anthemum vulgare | Prodanović, 2007 | common hawkweed, yellow hawkweed |
| Hieracium murorum L. subsp. gentile (Boreau) Sudre | Prodanović, 2007 | wall hawkweed |
| Hieracium schmidtii subsp. pallidum (Biv.) O. Bolós & Vigo | Prodanović, 2007 | Schmidt's hawkweed |
| Hieracium sabaudum L. subsp. vagum Zahn | Prodanović, 2007 | new england hawkweed, european hawkweed |
| Hypochaeris maculata L. | Prodanović, 2007 | spotted cat's ear |
| Hypochaeris radicata L. | Prodanović, 2007 | catsear, hairy cat's ear, false dandelion |
| Inula britannica L. | Prodanović, 2007 | british elecampane, british yellowhead |
| Inula conyza (Griess.) DC. | Prodanović, 2007 | ploughman's spikenard |
| Inula ensifolia L. | Rexhepi, 1979; Prodanović, 2007 | swordleaf inula |
| Inula hirta L. | Prodanović, 2007 | hairiness inula |
| Inula oculus-christi L. | Prodanović, 2007 | Christ's eye hoary fleabane |
| Inula salicina L. | Prodanović, 2007 | irish fleabane |
| Jurinea mollis (L.) Rechb. | Rexhepi, 1979; Prodanović, 2007 | |
| Klasea radiata (Waldst. & Kit.) A. Löve & D. Löve | Prodanović, 2007 | radiating outwords |
| Lactuca maralis (L.) Gaertn. | Prodanović, 2007 | wall lettuce |
| Lactuca perennis L. | Prodanović, 2007 | mountain lettuce, blue lettuce |
| Lactuca serriola L. | Prodanović, 2007 | prickly lettuce |
| Lactuca virinea (L.) J. Presl. & C. Presl. | Prodanović, 2007 | plant lettuce |
| Leonotis hispidus L. | Prodanović, 2007 | bristly hawkbit |
| Leucanthemum vulgare (Vaill) Lam. | Prodanović, 2007 | ox-eye daisy |
| Matricaria chamomilla L. | Prodanović, 2007 | chamomile |
| Onopordum acanthium L. | Prodanović, 2007 | cotton thistle |
| Petasites hybridus (L.) G. Gaertn. & al. | Prodanović, 2007 | butterbur |
| Pilosella baumhini (Schult.) Arv.-Touv. | Prodanović, 2007 | |
| Pilosella piloselloides (Vill.) Sojak | Prodanović, 2007 | hawkweed |
| Podospermum lacinatum (L.) DC. | Prodanović, 2007 | divided -eaved viper’s grass |
| Pulicaria dysenterica (L.) Gaertn. | Prodanović, 2007 | common fleabane |
| Scolymus hispanicus L. | Krasniqi et al., 1981 | golden thistle, spanish oyster thistle |
| Scorzonera austriaca Wild. f. latifolia Vis. | Pavlović, 1967; Rexhepi, 1979; Prodanović, 2007 | |
| Scorzonera hispanica L. var. glastifolia (Willd.) Wallr. | Prodanović, 2007 | black salsify, spanish salsify |
| Senecio erucifolius L. | Prodanović, 2007 | hoary ragwort |
| Senecio leucanthemifolius subsp. vernalis (Waldst. & Kit.) Greuter | Prodanović, 2007 | eastern groundsel |
| Serratula tinctoria L. | Prodanović, 2007 | dyer's plumeless saw-wort, saw-wort |
| Solidago virgaurea L. | Prodanović, 2007 | goldenrod, woundwort |
| Sonchus asper (L.) Hill subsp. glaucescens (Jord.) Ball ex Ball | Prodanović, 2007 | prickly sow-thistle |
| Tanacetum corymbosum (L.) Sch.-Bip. | Prodanović, 2007 | corymbflower tansy |
| Tanacetum vulgare L. | Prodanović, 2007 | common tansy, garden tansy |
| Taraxacum campylodes G.E.Haglund | Prodanović, 2007 | dandelion |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|------------------|----------------------|
| Tephrosia papposa (Rchb.) Schur. | Prodanović, 2007 |  |
| Tragopogon balcanicus Velen. | Prodanović, 2007 |  |
| Tragopogon dubius Scop. subsp. major (Jacq.) Vollm | Prodanović, 2007 | yellow salsify |
| Tragopogon dubius Scop. | Prodanović et al., 2004; Prodanović, 2007 | yellow salsify |
| Tragopogon pratensis subsp. orientalis (L.) Čelak. | Prodanović, 2007 | ack-go-to-bed-at-noon, meadow salsify |
| Tragopogon pterodes Petrović | Pavlović, 1967; |  |
| Xanthium farfara L. | Prodanović, 2007; Krivošej et al., 2013 | coltsfoot |
| Xanthium orientale subsp. italicum (Moretti) Greuter | Prodanović, 2007 | rough cocklebur, clotbur |
| Xeranthemum annuum L. | Pavlović, 1967; Rexhepi, 1979; Randelović et al., 1982; Prodanović, 2007 | annual everlasting, immortelle |
| CONVOLVULACEAE |  |  |
| Calystegia sepium (L.) R.Br. | Prodanović, 2007 | hedge bindweed |
| Convolvulus arvensis L. | Prodanović, 2007 | field bindweed |
| Convolvulus cantabrica L. | Pavlović, 1967; Rexhepi, 1979; Randelović et al., 1982; Prodanović et al., 2004; Prodanović, 2007 | cantabrican morning glory |
| Cuscuta epithymum (L.) L. | Prodanović, 2007 | dodder, lesser dodder |
| Cuscuta europaea L. | Prodanović, 2007 | greater dodder, european dodder |
| CORNACEAE |  |  |
| Cornus mas L. | Prodanović, 2007 | cornelian cherry dogwood |
| Cornus sanguinea L. | Prodanović, 2007 | common dogwood |
| CRASSULACEAE |  |  |
| Sedum acre L. | Rexhepi, 1979; Randelović et al., 1982; Prodanović et al., 2004; Prodanović, 2007 | goldmoss stonecrop |
| Sedum album L. | Pavlović, 1967; Rexhepi, 1979; Prodanović et al., 2004; Prodanović, 2007 | white stonecrop |
| Sedum dasyphyllum L. | Rexhepi, 1979; Prodanović, 2007 | corsican stonecrop |
| Sedum hispanicum L. | Prodanović, 2007 | spanish stonecrop |
| Sedum ochroleucum Chaix | Prodanović, 2007 | european stonecrop |
| Sedum sexangulare L. | Prodanović, 2007 | tasteless stonecrop |
| Sempervivum heuffelii Schott | Pavlović, 1967; Prodanović, 2007 | houseleeks |
| Sempervivum marmoreum Griseb. | Prodanović, 2007 | house leek (houseleek) |
| CUCURBITACEAE |  |  |
| Bryonia cretica subsp. dioica (Jacq.) Tutin | Prodanović, 2007 | english mandrake |
| Echinocystis lobata (Michx) Torr. & A. Gray | Prodanović, 2007 | wild cucumber, prickly cucumber |
| CYPERACEAE |  |  |
| Carex acuta L. | Prodanović, 2007 | acute sedge |
| Carex appropinquata Schumach. | Prodanović, 2007 | fibrous tussock-sedge |
| Carex caryophyllea Latour. | Prodanović, 2007 | vernal sedge |
| Carex distans L. | Prodanović, 2007 | distant sedge |
| Carex divulsa Stokes. | Prodanović, 2007 | grey sedge |
| Carex filiformis L. | Prodanović, 2007 | downy-fruited sedge |
| Carex hirta L. | Prodanović, 2007 | hairy sedge |
| Carex leporina L. | Prodanović, 2007 | eggbract sedge, oval sedge |
| Carex montana L. | Prodanović, 2007 | mountain, soft-leaved sedge |
| Carex muricata subsp. ptaire (F.W.Schultz.) Čelak. | Prodanović, 2007 | rough sedge, prickly sedge |
| Carex ornithopoda Willd. | Prodanović et al., 2004; Prodanović, 2007 | bird-foot sedge |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| Carex panicea L.      | Prodanović, 2007  | carnation sedge       |
| Carex pendula Huds.   | Prodanović, 2007  | pendulous sedge, hanging sedge |
| Carex riparia Curtis  | Prodanović, 2007  | greater pond sedge    |
| Carex spicata Huds.   | Prodanović, 2007  | spiked sedge          |
| Carex vulpina L.      | Prodanović, 2007  | true fox sedge        |
| Schoenoplectus lacustris (L.) Palla | Prodanović, 2007 | lakeshore bulrush     |
| CLAS/ FAMILY/Species  | Source/Literature | Common English names |
| Lomelosia palaestina (L.) Raf. | Prodanović et al., 2010 | palestine scabious |
| EUPHORBIACEAE         |                   |                      |
| Euphorbia amygdaloides L. | Prodanović, 2007; Krivošej et al., 2013 | wood spurge |
| Euphorbia barrelieri Savi | Prodanović, 2007 | spurge               |
| Euphorbia cyparissias L. | Prodanović et al., 2004; Prodanović, 2007 | cypress spurge     |
| Euphorbia esula subsp. tommasianana (Bertol.) Kuzmanov | Prodanović, 2007 | green spurge, leafy spurge |
| Euphorbia falcata L.  | Prodanović, 2007  | sickle spurge         |
| Euphorbia glabrisflora Vis. | Pavlovic, 1967; Rexhepi, 1979; Randelovic et al., 1982; Krivošej et al., 1993; Prodanović, 2007 | spurge |
| Euphorbia glareosa Pall. ex M.Bieb. | Prodanović, 2007 | spurge               |
| Euphorbia helioscopia L. | Prodanović, 2007 | sun spurge            |
| Euphorbia ilirica Lam. | Prodanović, 2007  | illyrian spurge       |
| Euphorbia myrsinites L. | Rexhepi, 1979; Randelovic et al., 1982; Prodanović, 2007 | myrtle spurge, blue spurge |
| Euphorbia platystyllos L. | Prodanović, 2007 | broadleaved spurge    |
| Euphorbia salicifolia Host. | Prodanović, 2007 | spurge               |
| Euphorbia stricta L.  | Prodanović, 2007  | tintern spurge        |
| Euphorbia taurinensis All. | Prodanović, 2007 | spurge               |
| Mercurialis ovata Sternb. & Hoppe | Prodanović, 2007 |                      |
| Mercurialis perennis L. | Prodanović, 2007  | dog's mercury         |
| FAGACEAE              |                   |                      |
| Quercus cerris L.     | Prodanović, et al., 2004; Prodanović, 2007 | turkey oak            |
| Quercus frainetto Ten. | Prodanović et al., 2004; Prodanović, 2007 | hungarian oak         |
| Quercus petraea (Matt.) Liebl. | Prodanović, 2007 | sessile oak           |
| Quercus pubescens Wild. | Pavlovic, 1967; Prodanović et al., 2004; Prodanović, 2007 | downy oak, pubescent oak |
| GENTIANACEAE          |                   |                      |
| Gentiana cruciata L.  | Prodanović, 2007  | cross gentian         |
| GERANIACEAE           |                   |                      |
| Erodium ciconium (L.) L’ Hér. | Prodanović, 2007 | redstem filaree, redstem stork's bill |
| Erodium cicutarium (L.) L’Hér. | Prodanović, 2007 | redstem filaree, redstem stork's bill |
| Geranium columbinum L. | Prodanović, 2007  | long-stalked crane's bill, longstalk crane's bill |
| Geranium dissectum Jusl. | Prodanović, 2007 | cut-leaved crane's bill |
| Geranium lucidum L.   | Prodanović, 2007  | shining cranesbill, shiny geranium |
| Geranium molle L.     | Prodanović, 2007  | dove's-foot crane's bill |
| Geranium phaeum L.    | Prodanović, 2007  | dusky crane's bill    |
| Geranium pyrenaicum Burm.f. | Prodanović, 2007 | hedgerow cranesbill   |
| Geranium robertianum L. | Prodanović, 2007 | herb-Robert, red robin |
| Geranium sanguineum L. | Prodanović, 2007  | bloody crane's bill   |
| IRIDACEAE             |                   |                      |
| CLASS/ FAMILY/Species                                                                 | Source/Literature                                                                 | Common English names                        |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------|
| Crocus chrysanthus (Herb.) Herb.                                                    | Prodanović, 2007                                                                  | golden crocus                               |
| Iris graminea L.                                                                     | Prodanović, 2007; Krivošej et al., 2013                                          | grass leaved iris                           |
| Iris pseudacorus L.                                                                  | Prodanović, 2007                                                                  | yellow iris, water flag                      |
| Iris reichenbachii Heuff.                                                            | Prodanović, 2007                                                                  |                                             |
| JUNCACEAE                                                                           |                                                                                   |                                             |
| Juncus bufonius L.                                                                   | Prodanović, 2007                                                                  | toad rush                                   |
| Juncus compressus Jacq.                                                              | Prodanović, 2007                                                                  | compressed rush                             |
| Juncus inflexus L.                                                                   | Prodanović, 2007                                                                  | hard rush, blue rush                        |
| Luzula campestris (L.) DC.                                                           | Prodanović, 2007                                                                  | field wood-rush                             |
| Luzula forsteri (Sm.) DC.                                                             | Prodanović, 2007                                                                  | southern wood-rush                          |
| LAMIACEAE                                                                           |                                                                                   |                                             |
| Ajuga chamaepitys (L.) Schreb.                                                       | Prodanović et al., 2004; Prodanović, 2007                                        | yellow bugle, ground-pine                   |
| Ajuga chamaepitys subsp.chia (Schreb.) Arcang.                                       | Prodanović, 2007                                                                  | yellow bugle, ground-pine                   |
| Ajuga genevensis L.                                                                  | Prodanović, 2007; Krivošej et al., 2013                                          | blue bugle, geneva bugleweed               |
| Ajuga laxmannii (Murray) Benth.                                                      | Prodanović, 2007                                                                  | bugleweed, ground pine                      |
| Ballota nigra L.                                                                     | Prodanović, 2007                                                                  | black horehound                             |
| Clinopodium acinos (L.) Kuntze                                                      | Prodanović et al., 2004; Prodanović, 2007                                        | basil thyme, spring savory                  |
| Clinopodium alpinum (L.) Kuntze                                                     | Prodanović, 2007                                                                  | alpine calamint                             |
| Clinopodium nepeta subsp. glandulosus (Rej.) Govaerts                               | Prodanović, 2007                                                                  | lesser calamint                             |
| Clinopodium thymifolium (Scop.) Kuntze                                              | Prodanović, 2007                                                                  | clinopodium thymifolium from the wild       |
| Clinopodium vulgar L.                                                                | Prodanović, 2007                                                                  | wild basil                                  |
| Galeopsis speciosa Mill.                                                             | Prodanović, 2007                                                                  | arge-flowered hempnettle                    |
| Glechoma hederacea L.                                                                | Prodanović, 2007                                                                  | creeping charlie                            |
| Glechoma hirsuta Waldst.& Kit.                                                       | Prodanović, 2007                                                                  | ground-ivy                                  |
| Lamium amplexicaule L.                                                               | Prodanović, 2007                                                                  | common henbit                               |
| Lamium bifidum subsp. balcanicum Velen.                                              | Prodanović, 2007                                                                  | dead-nettles                                |
| Lamium galeobdolon (L.) L.                                                           | Prodanović, 2007                                                                  | yellow archangel, yellow dead nettle        |
| Lamium garganicum L. subsp. garganicum                                               | Prodanović, 2007                                                                  | large dead nettle                           |
| Lamium garganicum L. subsp. glabratnum (Griseb.) Briq.                               | Prodanović, 2007                                                                  | large dead nettle                           |
| Lamium purpureum L.                                                                  | Prodanović, 2007                                                                  | red dead-nettle                             |
| Leonurus cardiaca L.                                                                 | Prodanović, 2007                                                                  | motherwort in english                       |
| Lycopus europaeus L.                                                                 | Prodanović, 2007                                                                  | gypsywort                                   |
| Marrubium peregrinum L.                                                              | Prodanović, 2007                                                                  | horehound                                   |
| Marrubium vulgare L.                                                                 | Prodanović, 2007                                                                  | white horehound, common horehound           |
| Melittis melissophyllum L.                                                           | Prodanović, 2007                                                                  | bastard balm                                |
| Mentha aquatica L.                                                                   | Prodanović, 2007                                                                  | water mint                                  |
| Mentha longifolia (L.) L.                                                            | Prodanović, 2007; Krivošej et al., 2013                                          | asian mint                                  |
| Nepeta cataria L.                                                                    | Prodanović, 2007                                                                  | catnip, catswort                            |
| Origanum vulgare L.                                                                  | Prodanović, 2007                                                                  | origanum, wild marjoram                     |
| Phlomis tuberosa L.                                                                  | Prodanović et al., 2018                                                           | tuberous jerusalem sage                     |
| Prunella laciniata (L.) L.                                                           | Randelović et al., 1982; Prodanović, 2007                                        | cutleaf selfheal                            |
| Prunella vulgaris L.                                                                  | Prodanović, 2007                                                                  | common self-heal, heal-all                  |
| Salvia amplexicaulis Lam.                                                            | Prodanović, 2007                                                                  | stem-clasping sage                          |
| Salvia nemorosa L.                                                                  | Prodanović, 2007                                                                  | woodland sage, balkan clary                 |
| Salvia pratensis L. subsp. poezogensis (Watzl) Diklic                                | Prodanović, 2007; Prodanović et al., 2008                                         | meadow sage                                 |
| Salvia sclarea L.                                                                    | Prodanović et al., 2004; Prodanović                                            | salvia romana, clary sage                   |
| CLASS/ FAMILY/Species                  | Source/Literature                  | Common English names                                      |
|---------------------------------------|------------------------------------|-----------------------------------------------------------|
| **Salvia verticillata L.**            | Prodanović, 2007                   | lilac sage                                                |
| **Scutellaria altissima L.**          | Prodanović, 2007                   | tall skullcap                                             |
| **Scutellaria galericulata L.**       | Prodanović, 2007                   | marsh skullcap, hooded skullcap                           |
| **Sideritis montana L.**              | Prodanović et al., 2004; Prodanović, 2007 | mountain ironwor                                         |
| **Stachys germanica L.**              | Prodanović, 2007                   | downy woundwort                                           |
| **Stachys officinalis (L.) Trevis**   | Prodanović, 2007                   | common hedgenettle, betony                                |
| **Stachys paliestris L.**             | Prodanović, 2007                   | marsh woundwort                                           |
| **Stachys recta** subsp. baldacii (K. Malý) Hayek | Ranđelović et al., 1982; Rexhepi, 1979; Prodanović, 2007 | stiff hedgenettle                                         |
| **Stachys recta** L. subsp. recta var. chrysophaea (Panić) Hayek L. chrysophae | Prodanović, 2007                   | stiff hedgenettle                                         |
| **Stachys scarica** (Gris.) Hayek     | Prodanović et al., 2004; Prodanović, 2007 | wall germander                                            |
| **Teucrium chamaedrys L.**            | Prodanović et al., 2004; Prodanović, 2007 | mountain germander                                        |
| **Teucrium montanum L.**              | Pavlović, 1967; Randelović et al, 1982; Prodanović, 2007 | mountain germander                                        |
| **Thymus longicaulis C. Presl.**      | Pavlović, 1967                     | thyme                                                     |
| **Thymus pulegioides** subsp. montanus (Benth.) Ronniger. | Prodanović, 2007                   | broad-leaved thyme                                        |
| **Ziziphora capitata L.**             | Prodanović, 2007                   | oriental zizifora                                         |
| **LEGUMINOSAE**                       |                                    |                                                           |
| **Amorpha fruticosa L.**              | Prodanović, 2007                   | false indigo bush                                         |
| **Astragalus cicer L.**               | Prodanović, 2007                   | chickpea milkvetch                                        |
| **Astragalus dasyanthus Pall.**       | Prodanović, 2007; Prodanović et al., 2008; Prodanović et al., 2012 | milkvetch                                                |
| **Astragalus glycyphyllus L.**        | Prodanović, 2007                   | liquorice milkvetch                                       |
| **Astragalus humosus L.**             | Prodanović, 2007                   | southern milk vetch                                       |
| **Astragalus onobrychis L.**          | Pavlović, 1967; Randelović et al, 1982; Prodanović, 2007 | sainfoin milk vetch                                      |
| **Chamaecytisus ciliatus var. alpestris (Schr.) Diklić** | Prodanović, 2007                   |                                                           |
| **Colutea arborescens L.**            | Prodanović, 2007                   | bladder senna                                             |
| **Coronilla scorpioides (L.) Koch.**  | Prodanović, 2007                   | yellow crown vetch, annual scorpion-vetch                |
| **Cytisus austriacus** subsp. heuffelii (Wierz.) Asch. & Graebn | Prodanović, 2007                   | broom                                                     |
| **Cytisus decumbens** (Durande) Spach. | Ranđelović et al., 1982; Prodanović, 2007 | scotch broom                                              |
| **Cytisus hirsutus L.**               | Prodanović, 2007                   | clustered broom                                           |
| **Cytisus procumbens** (Willd.) Spreng. | Prodanović, 2007                   | broom                                                     |
| **Dorycnium pentaphyllum** subsp. germanicum (Gremli) Gams | Pavlović, 1967; Rexhepi, 1979; Prodanović, 2007 | prostrate canary clover, badassi                          |
| **Genista januensis** Viv.            | Prodanović et al., 2004; Prodanović, 2007 | prostrate canary clover, badassi                          |
| **Genista sagittalis L.**             | Prodanović, 2007; Krivošej et al., 2013 | winged broom                                             |
| **Genista tinctoria L.**              | Prodanović, 2007                   | dyer's greenweed, dyer's broom                           |
| **Hippocrepis comosa L.**             | Prodanović, 2007                   | horseshoe vetch                                           |
| **Hippocrepis emergus** (L.) Lassen   | Ranđelović et al., 1982; Prodanović, 2007 | scorpion senna                                           |
| **Lathyrus hallersteinii** Baunig.    | Prodanović, 2007                   | yellow pea                                                |
| **Lathyrus hirsutus L.**              | Prodanović, 2007                   | caley pea, singletary pea, hairy vetchling                |
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| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| Lathyrus latifolius L. | Prodanović, 2007 | everlasting-pea, perennial pea |
| Lathyrus niger (L.) Bernh. | Prodanović, 2007 | black pea |
| Lathyrus nissolia L. | Prodanović, 2007 | grass vetching, grass pea |
| Lathyrus pannonicus (Jacq.) Garcke | Prodanović, 2007 | felted vetch |
| Lathyrus pratensis L. | Prodanović, 2007; Krivošej et al., 2013 | meadow vetching |
| Lathyrus setifolius L. | Prodanović, 2007 | narrow-leaved red vetching |
| Lathyrus sphaericus Retz. | Prodanović, 2007 | grass pea, round-seeded vetching |
| Lathyrus tuberosus L. | Prodanović, 2007 | tuberous pea, tuberous vetching |
| Lathyrus venetus (Mill.) Wohlf. | Prodanović et al., 2004; Prodanović, 2007 | bushy vetching |
| Lathyrus vernus (L.) Bernh. | Prodanović, 2007 | spring vetching, spring pea |
| Lembotropis nigricans (L.) Griseb. | Randelović et al., 1982; Prodanović, 2007 | black broom |
| Lens nigricans (M. Bieb.) Godr. | Prodanović, 2007 | lens |
| Lotus corniculatus L. | Prodanović, 2007 | birdfoot trefoil |
| Medicago arabica (L.) Huds. | Prodanović, 2007 | spotted medick |
| Medicago falcata L. | Randelović et al., 1982; Prodanović, 2007 | yellow lucerne, sickle alfalfa |
| Medicago lupulina L. | Prodanović et al., 2004; Prodanović, 2007 | black medick, nonesuch |
| Medicago minima (L.) L. | Prodanović, 2007 | little burclover |
| Medicago orbicularis (L.) Bartal. | Prodanović, 2007 | blackdisk medick, button clover |
| Medicago prostrata Jacq. | Pavlović, 1967; Rexhepi, 1979; Prodanović, 2007 | alfalfa, wild |
| Medicago rigidula (L.) All. | Prodanović, 2007 | tifton burclover, rigid medick |
| Medicago sativa L. | Prodanović, 2007 | lucerne |
| Melilotus albus Medik. | Prodanović, 2007 | honey clover, white melilot |
| Melilotus officinalis (L.) Pall. | Prodanović, 2007 | yellow sweet clover |
| Onobrychis alba (Waldst. & Kit.) Desv. | Prodanović, 2007 | sainfoin |
| Onobrychis vicifolia Scop. | Prodanović, 2007 | common sainfoin |
| Ononis spinosa subsp. birtica (Jacq.) Gams | Prodanović, 2007 | spiny restharrow |
| Ononis pusilla L. | Prodanović, 2007 | |
| Oxytropis pilosa (L.) DC. | Prodanović, 2007; Prodanović et al., 2012 | hairy milk vetch |
| Pisum sativum subsp. elatius (M.Bieb.) Asch.& Graebn. | Prodanović, 2007 | dun pea |
| Robinia pseudoacacia L. | Prodanović, 2004; Prodanović, 2007 | black locust |
| Securigera elegans (Panic) Lassen | Prodanović, 2007 | crownvetch |
| Securigera varia (L.) Lassen | Prodanović et al., 2004; Prodanović, 2007 | purple crownvetch |
| Trifolium angustifolium L. | Prodanović, 2007 | narrowleaf crimson clover |
| Trifolium arvense L. | Prodanović, 2007 | hare's-foot clover |
| Trifolium dalmaticum Vis. | Prodanović, 2007 | dalmatian clover |
| Trifolium fragiferum L. | Prodanović, 2007 | strawberry clover |
| Trifolium glomeratum L. | Krivošej & Prodanović, 2011 | clustered clover |
| Trifolium hirtum All. | Prodanović, 2007 | rose clover |
| Trifolium incarnatum L. | Prodanović, 2007 | crimson clover, italian clover |
| Trifolium medium L. | Prodanović, 2007 | zigzag clover |
| Trifolium montanum L. | Prodanović, 2007; Krivošej et al., 2013 | mountain clover |
| Trifolium ochroleucon Huds. | Prodanović, 2007 | sulphur clover |
| Trifolium pratensis Schreb. | Prodanović, 2007; Krivošej et al., 2013 | clover |
| Trifolium pignantii Fauch & Chaub. | Prodanović, 2007 | clover |
| Trifolium pratense L. | Prodanović, 2007 | red clover |
| Trifolium repens L. | Prodanović, 2007 | white clover, landino clover |
| Trifolium striatum L. | Prodanović, 2007 | knotted clover |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| **Trifolium strictum** Jusl | Prodanović, 2007; Krivošej & Prodanović, 2011 | upright clover |
| **Trifolium trichopterum** Pancic | Pavlović, 1967; Prodanović, 2007 | |
| **Trigonella esculenta** Wild. | Prodanović, 2007 | fenugreek |
| **Trigonella gladiata** M. Bieb. | Prodanović et al., 2010 | fenugreek |
| **Vicia cracca** L. | Prodanović, 2007 | tufted vetch, cow vetch, bird vetch |
| **Vicia cracca** subsp. *incana* (Gouan) Rouy. | Prodanović, 2007 | large-flowered vetch, large yellow vetch |
| **Vicia hirsuta** (L.) Gray | Prodanović, 2007 | hairy tare, hairy vetch |
| **Vicia lathyroides** L. | Prodanović, 2007 | spring vetch |
| **Vicia pannonica** Crantz | Prodanović, 2007 | hungarian vetch |
| **Vicia pisiformis** L. | Prodanović, 2007 | pea vetch |
| **Vicia sativa** L. | Prodanović, 2007 | common vetch |
| **Vicia sativa** subsp. *nigra* (L.) Ehrh. | Prodanović, 2007 | common vetch, garden vetch |
| **Vicia sparsiflora** Ten. | Prodanović, 2007 | vetch |
| **Vicia tenuifolia** Roth. | Prodanović, 2007 | fine-leaved vetch, cow vetch |
| **Vicia villosa** Roth. | Prodanović, 2007 | winter vetch, hairy vetch |

**LILIACEAE**

| **Erythronium dens-canis** L. | Prodanović, 2007 | dog's tooth violet |
| **Fritillaria montana** Hoppe ex W.D.J. Koch | Prodanović, 2007 | missionbells |
| **Gagea lutea** (L.) Ker Gawl. | Prodanović, 2007 | yellow star-of-bethlehem |
| **Gagea pusilla** (F.W.Schmidt) Sweet | Prodanović, 2007 | yellow star-of-bethlehem |
| **Lilium martagon** L. | Prodanović, 2007 | martagon lily, turk's cap lily |
| **Tulipa sylvestris** L. | Prodanović, 2007 | wild tulip, woodland tulip |
| **Tulipa serbica** Tatić & Krivošej | Tatić & Krivošej, 1997; Prodanović, 2007; Prodanović et al., 2008 | serbian tulip |

**LINACEAE**

| **Linum bienne** Mill. | Prodanović, 2007 | pale, narrowleaf flax |
| **Linum austriacum** L. | Prodanović, 2007 | austrian flax |
| **Linum flavum** Waldst. & Kit. | Prodanović, 2007 | golden flax, yellow flax |
| **Linum nervosum** Waldst. & Kit. | Prodanović, 2007 | narrow-leaved flax |

**LYTHRACEAE**

| **Lythrum salicaria** L. | Prodanović, 2007 | purple loosestrife |

**MALVACEAE**

| **Althaea hirsuta** L. | Prodanović, 2007 | hairy marshmallow |
| **Althaea officinalis** L. | Prodanović, 2007 | marshmallow |
| **Lavatera thuringiaca** L. | Krasniqi et al., 1981; Prodanović, 2007 | garden tree-mallow |
| **Malva sylvestris** L. | Prodanović, 2007 | high mallow |
| **Tilia cordata** Mill. | Prodanović, 2007 | small-leaved lime |
| **Tilia tomentosa** Moench | Prodanović, 2007 | silver lime |

**MELANTHIACEAE**

| **Veratrum nigrum** L. | Prodanović, 2007 | black false hellebore |

**NYMPHAEACEAE**

| **Nuphar lutea** (L.) Sm. | Prodanović et al., 2010 | yellow pond-lily |

**OLEACEAE**

| **Fraxinus ornus** L. | Prodanović et al., 2004; Prodanović, 2007 | manna ash |
| **Ligustrum vulgare** L. | Prodanović, 2007 | wild privet |

**ONAGRACEAE**

| **Epilobium angustifolium** L. | Prodanović, 2007 | fireweed |
| CLASS/FAMILY/Species | Source/Literature                                                                 | Common English names                      |
|----------------------|------------------------------------------------------------------------------------|-------------------------------------------|
| Epilobium hirsutum L. | Prodanović et al., 2008                                                           | great willowherb                          |
| Epilobium parviflorum Schreb. | Prodanović, 2007                                                                 | hoary willowherb                          |
| Oenothera biennis L.  | Prodanović, 2007                                                                   | common evening-primrose                   |
| **ORCHIDACEAE**                                                |                                                                                     |
| Anacamptis morio (L.) | Prodanović, 2007; Prodanović, 2008                                               | green-winged-primrose                     |
| Anacamptis papilionacea (L.) | Prodanović, 2007; Prodanović, 2008                                               | butterfly orchid                         |
| Anacamptis pyramidalis (L.) | Prodanović, 2007                                                                 | pyramidal orchid                          |
| Cephalanthera damasonium (Mill.) | Prodanović, 2007                                                                   | white helleborine                         |
| Cephalanthera rubra (L.) | Prodanović, 2007; Prodanović, 2008                                               | red helleborine                           |
| Epipactis helleborine (L.) | Prodanović, 2007                                                                   | broad-leaved helleborine                  |
| Epipactis helleborine (L.) | Prodanović, 2007                                                                   | broad-leaved helleborine                  |
| Epipactis microphylla (Ehrh.) Sw., subsp. | Prodanović, 2004; Prodanović, 2007                                               | small-leaved helleborine                  |
| Himantoglossum caprinum (M. Bieber) Spreng. | Prodanović, 2018                                                                    |                                            |
| Limodorum abortivum (L.) | Prodanović, 2007; Prodanović, 2008                                               | violet limodore                           |
| Neottia nidus-avis (L.) | Prodanović, 2007; Prodanović, 2008                                               | bird's-nest orchid                        |
| Neotinea tridentata (Scop.) | Prodanović, 2007; Prodanović, 2008; Krivosej et al., 2013                        | three-toothed orchid                      |
| Ophrys apifera Huds. | Prodanović, 2007                                                                  | bee orchid                               |
| Orchis mascula (L.) | Prodanović, 2007; Prodanović, 2008                                               | early-purple orchid, early spring orchis  |
| Orchis purpurea Huds. | Prodanović, 2007; Prodanović, 2008                                               | lady orchid                              |
| Platanthera bifolia (L.) | Prodanović, 2007; Prodanović, 2008                                               | lesser butterfly-orchid                   |
| **OROBLANCHACEAE**                                         |                                                                                     |
| Lathraea squamaria L. | Prodanović, 2007                                                                   | common toothwort                          |
| Melampyrum arvense L. | Prodanović, 2007                                                                   | field cow-wheat                          |
| Melampyrum cristatum L. | Prodanović, 2007                                                                   | crested cow-wheat                        |
| Melampyrum heracleoticum Boiss. & Orph. | Prodanović, 2007; Prodanović, 2008                                               | cow wheat                                |
| Orobanchus alba Stephan ex Willd. | Prodanović, 2007                                                                   | scalloped broomrape                       |
| Orobanchus cariosphylacea Sm. | Prodanović, 2007                                                                   | clove-scented broomrape                   |
| Parentucellia latifolia Caruel | Prodanović, 2007                                                                   | broadleaf glandweed                      |
| Pedicularis comosa subsp. campestris (Grisel. & Schenk) Soó | Prodanović, 2007                                                                  | glandweed                                |
| Pedicularis comosa L. | Prodanović, 2007                                                                   | glandweed                                |
| Pedicularis friderici-augusti Tommm. | Prodanović, 2007                                                                   |                                            |
| Rhinanthus runcinicus Velen. | Prodanović, 2007                                                                   | Frederick Augustus' lousewort            |
| **PAPAVERACEAE**                                            |                                                                                     |
| Chelidonium majus L. | Prodanović, 2007                                                                   | greater celandine, nipplewort             |
| Corydalis caucasi Schweigg. & Körte | Prodanović, 2007                                                                   | hollow root                              |
| Corydalis solida (L.) Clairv. | Prodanović, 2007                                                                   | fumewort                                 |
| Papaver dubium L. | Prodanović, 2007                                                                   | long-headed poppy                        |
| Papaver rhoesas L. | Prodanović, 2007                                                                   | common poppy, corn poppy                 |
| **PLANTAGINACEAE**                                         |                                                                                     |
| Digitalis laevigata Waldst. & Kit. | Prodanović, 2007                                                                   | grecian foxglove                         |
| Digitalis lanata Ehrl. | Prodanović et al., 2004; Prodanović, 2007                                       | woolly foxglove                          |
| Linaria genistifolia (L.) Mill. | Pavlović, 1967; Prodanović, 2007                                                  | toadflax                                 |
| Linaria genistifolia (L.) | Prodanović, 2007                                                                   | broomleaf toadflax                       |
| CLASS/FAMILY/Species | Source/Literature | Common English names |
|----------------------|-------------------|----------------------|
| Linaria vulgaris Mill. | Prodanović, 2007 | yellow toadflax |
| Plantago argentea Chaix | Rexhepi, 1979; Prodanović, 2007 | silver plantain |
| Plantago lanceolata L. | Prodanović, 2007 | ribwort plantain |
| Plantago major L. | Prodanović, 2007 | roadleaf plantain, white man’s foot, greater plantain |
| Plantago major L. subsp. major | Prodanović, 2007 | roadleaf plantain, white man’s foot, greater plantain |
| Plantago media L. | Prodanović, 2007 | hoary plantain |
| Plantago subalata L. | Prodanović, 2007 | plantain |
| Veronica anagallis-aquatica L. | Prodanović, 2007 | water speedwell |
| Veronica arvensis L. | Prodanović, 2007 | wall speedwell, corn speedwell |
| Veronica austica L. | Prodanović, 2007 | broadleaf speedwell, large speedwell |
| Veronica beccabunga L. | Prodanović, 2007 | european speedwell, brooklime |
| Veronica chamaedrys L. | Prodanović, 2007 | germander speedwell, bird’s-eye speedwell |
| Veronica hederifolia L. | Prodanović, 2007 | ivy-leaved speedwell |
| Veronica officinalis L. | Prodanović, 2007 | heath speedwell |
| Veronica persica Poir. | Prodanović, 2007 | persian speedwel |
| Veronica polita Fr. | Prodanović, 2007 | grey field-speedwell |
| Veronica praecox All. | Prodanović, 2007 | breckland speedwell |
| Veronica prostrata L. | Prodanović, 2007 | rock speedwell |
| Veronica serpyllifolia L. | Prodanović, 2007 | thyme-leaved speedwell |
| Veronica serpyllifolia L. subsp. serpyllifolia | Prodanović, 2007 | thyme-leaved speedwell |
| Veronica spicata L. | Prodanović, (unpublished, field observation) | spike speedwell |

**PLUMBAGINACEAE**

| Species | Source/Literature | Common English names |
|---------|------------------|----------------------|
| Goniolimon incanum (L.) Hepper | Prodanović, 2007 | lavender static, sea lavender |
| Goniolimon collinum (Grisév.) Boiss. | Pavlović, 1967; Prodanović, 2007 | sea lavender |
| Goniolimon tataricum (L.) Boiss. | Prodanović, 2007 | german static, tatarian static |

**POACEAE**

| Species | Source/Literature | Common English names |
|---------|------------------|----------------------|
| Aegilops cylindrica Host | Prodanović, 2007 | jointed goatgrass |
| Aegilops geniculata Roth. | Prodanović, 2007 | goat grass, ovate goatgrass |
| Agropyron cristatum (L.) Gaertn. | Rexhepi, 1979; Prodanović, 2007 | crested wheatgrass |
| Agrostis stolonifera L. | Prodanović, 2007 | creeping bentgrass, florin |
| Alopecurus myosuroides Huds. | Prodanović, 2007 | mouse tail grass, black grass |
| Alopecurus pratensis L. | Prodanović, 2007 | meadow foxtail |
| Anthoxanthum odoratum L. | Prodanović, 2007; Krivošej et al., 2013 | sweet vernal grass |
| Apera spica-venti (L.) P. Beauv. | Prodanović, 2007 | common windgrass |
| Arrhenatherum elatius (L.) P. Beauv. ex J.Presl & C.Presl | Prodanović, 2007 | false oat-grass |
| Brachypodium silvaticum (Huds.) P. Beauv. | Prodanović, 2007 | slender false-brome |
| Bothriochloa ischaemum (L.) | Prodanović, 2007 | yellow bluestem |
| Briza media L. Keng | Prodanović, 2007; Krivošej et al., 2013 | quaking grass |
| Bromus arvensis L. | Prodanović, 2007 | field brome |
| Bromus commutatus Schrad. | Prodanović, 2007 | meadow brome |
| Bromus erectus Huds. | Rexhepi, 1979; Prodanović, 2007 | erect brome, upright brome |
| Bromus hordeaceus L. | Prodanović, 2007 | soft brome |
| Bromus inermis Leyss. | Prodanović, 2007 | smooth brome |
| Bromus racemosus L. | Prodanović, 2007 | smooth brome |
| Bromus squarrosus L. | Prodanović, 2007 | corn brome |
| Bromus sterilis L. | Rexhepi, 1979; Prodanović, 2007 | poverty brome |
| Bromus tectorum L. | Prodanović, 2007 | drooping brome, cheatgrass |
| Chrysopogon gryllus (L.) Trin | Rexhepi, 1979; Prodanović, 2007 | |
| Cynodon dactylon (L.) Pers. | Prodanović, 2007 | bermuda grass, couch grass |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| Cynosurus cristatus L. | Prodanović, 2007; Krivošej et al., 2013 | crested dogstail grass |
| Dactylis glomerata L. | Prodanović et al., 2004; Prodanović, 2007; Krivošej et al., 2013 | cock's-foot, orchard grass |
| Danthonia alpina Vest. | Prodanović et al., 2004; Prodanović, 2007; Krivošej et al., 2013 | heathgrass, wallaby grass |
| Dasypyrum villosum (L.) Borbás | Prodanović, 2007 | mosquitograss |
| Erigeron annuus | Prodanović, 2007 | Short-leaf fleabane |
| Elatine vulgaris (Opiz) Melderis | Prodanović, 2007 | hairypod mistflower |
| Elytrigia repens (L.) Nevski. | Prodanović, 2007 | couch grass |
| Festuca arundinacea Schreb. | Prodanović, 2007 | tall fescue |
| Festuca pratensis Huds. | Prodanović, 2007 | meadow fescue |
| Festuca rubra L. | Prodanović, 2007 | red fescue |
| Glyceria fluitans (L.) R.Br. | Prodanović, 2007 | floating sweet-grass, water mannagrass |
| Helictotrichon compressum (Heuff.) Henrard | Prodanović, 2007 | plicate sweet grass |
| Holcus lanatus L. | Prodanović, 2007 | yorkshire fog, tufted grass |
| Hordeum marinum subsp. leporinum (Link) Arcang. | Prodanović, 2007 | wall barley |
| Koeleria macrantha (Ledeb.) Schult. | Prodanović, (unpublished, field observation) | prairie junegrass |
| Koeleria pyramidata (Lam.) P. Beauv. | Prodanović, 2007 | perennial ryegrass, english ryegrass |
| Lolium perenne L. | Prodanović, 2007 | hairy melic, silky spike melic |
| Melica ciliata L. | Pavlović, 1967; Prodanović et al., 2004; Prodanović, 2007 | mountain melick |
| Melica nutans L. | Prodanović, 2007 | wood melick |
| Melica uniflora Retz. | Prodanović, 2007 | american milletgrass, wood millet |
| Milium effusum L. | Prodanović, 2007 | reed canary grass |
| Phalaris arundinacea L. | Prodanović, 2007 | Timothy grass |
| Phleum montanum K.Koch | Prodanović, 2007 | boehmer's cat's-tail, purple-stem cat's-tail |
| Phleum phleoides (L.) H. Karst. | Prodanović, 2007 | Timothy grass, meadow cat's-tail |
| Phragmites australis (Cav.) Trin. ex Steud. | Prodanović, 2007 | common reed |
| Poa annua L. | Prodanović, 2007 | annual meadow grass |
| Poa bulbosa L. | Prodanović, 2007 | bulbous bluegrass |
| Poa compressa L. | Prodanović, 2007 | canada bluegrass |
| Poa nemoralis L. | Prodanović, 2007 | wood bluegrass |
| Poa pratensis L. | Prodanović, 2007 | kentucky bluegrass |
| Poa percrinum J. R. Edm. | Prodanović, 2007 | kentucky bluegrass |
| Poa trivialis L. | Prodanović, 2007 | rough bluegrass |
| Sclerochloa dura (L.) P. Beauv. | Prodanović, 2007 | common hardgrass |
| Sesleria rigida Heuff. ex Rchb. | Prodanović, 2007 | needle grass |
| Stipa capillata L. | Prodanović, 2007 | feather grass |
| Stipa joannis Celak | Prodanović, 2007 | medusahead wildrye |
| Taeniatherum caput-medusae (L.) Nees | Prodanović, 2007 | stalked bur grass |
| Tragus racemosus (L.) All. | Krivošej et al. 1995-1998; Prodanović, 2007 | stalked bur grass |
| Vulpia myuros (L.) C.C.Gmel. | Prodanović, 2007 | annual fescue |

POLYGALACEAE

| Polygala major Jacq. | Prodanović, 2007 | milkworts, snakeroots |
| Polygala supina Schreb. | Pavlović, 1967; Prodanović, 2007 | milkwort |

POLYGONACEAE
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| Fallopia convolvulus (L.) Á. Löve | Prodanović, 2007 | black-bindweed, wild buckwheat |
| Fallopia dametorum (L.) Holub | Prodanović, 2007 | European climbing buckwheat |
| Persicaria lapathifolia (L.) Delarbre | Prodanović, 2007 | Pale persicaria |
| Polygonum aviculare L. | Prodanović, 2007 | Common knotgrass |
| Rumex acetosa L. | Prodanović, 2007; Krivošej et al., 2013 | Sorrel |
| Rumex acetosella L. | Prodanović, 2007 | Red sorrel, sheep’s sorrel |
| Rumex conglomeratus Murray | Prodanović, 2007 | Clustered dock, sharp dock |
| Rumex crispus L. | Prodanović, 2007 | Curled dock, yellow dock |
| Rumex obtusifolius L. | Prodanović, 2007 | Bitter dock |
| Rumex pulcher L. | Prodanović, 2007 | Fiddle dock |
| PRIMULACEAE | | |
| Anagallis arvensis L. | Prodanović, 2007 | Scarlet pimpernel |
| Anagallis foemina Mill. | Prodanović, 2007 | Blue pimpernel |
| Androsace elongata L. | Prodanović et al., 2012 | Rock jasmine, elongate ilisha |
| Lysimachia nummularia L. | Prodanović, 2007; Krivošej et al., 2013 | Moneywort, creeping jenny |
| Primula veris Huds. | Prodanović, 2007 | Common cowslip |
| Primula acaulis (L.) L. | Krivošej et al., 2013 | Common primrose |
| RANUNCULACEAE | | |
| Anemone apennina L. | Prodanović, 2007 | Blue anemone |
| Anemone nemorosa L. | Prodanović, 2007 | Wood anemone |
| Clematis recta L. | Prodanović, 2007 | Erect Clematis, ground virginbower |
| Consolida regalis Gray | Prodanović, 2007 | Forking larkspur, rocket-larkspur |
| Ficaria verna Huds. | Prodanović (unpublished, field observation) | Fig buttercup |
| Helleborus odorus Walst. & Kit. ex Wild. | Prodanović et al., 2004; Prodanović, 2007 | Fragrant hellebore |
| Helleborus multifidus subsp. serbecus (Adamovic) Merxm. & Podlech | Prodanović, 2007 | Hellebore |
| Hepatica nobilis Mill. | Prodanović, 2007 | Common hepatica, liverwort |
| Nigella arvensis L. | Prodanović, 2007 | Love-in-a-mist, black bread-weed |
| Pulsatilla vulgaris subsp. grandis (Wender) Zämelis | Prodanović, 2007 | Pasqueflower |
| Ranunculus arvensis L. | Prodanović, 2007 | Corn buttercup |
| Ranunculus bulbosus L. | Prodanović, 2007 | Bulbous buttercup |
| Ranunculus millefoliatus Vahl | Prodanović, 2007; Krivošej et al., 2013 | Jerusalem buttercup |
| Ranunculus polyanthemos Vahl | Prodanović, 2007 | Multiplier buttercup |
| Ranunculus psilostachys Griseb. | Prodanović, 2007 | Buttercup |
| Ranunculus repens L. | Prodanović, 2007 | The creeping buttercup |
| Ranunculus sceleratus L. | Prodanović, 2007 | Celery-leaved buttercup |
| Ranunculus sericus Vis. | Prodanović, 2007 | Common meadow-rue |
| Thalictrum flavum L. | Prodanović, 2007 | Shining meadow rue |
| Thalictrum lucidum L. | Prodanović, 2007 | Lesser meadow-rue |
| RESEDACEAE | | |
| Reseda lutea L. | Prodanović, 2007 | Wild mignonette |
| Reseda luteola L. | Prodanović, 2007 | Dyer’s weed, weld, woold, yellow weed |
| Reseda phyteuma L. | Prodanović, 2007 | Rampion mignonette |
| RHAMNACEAE | | |
| Frangula alnus Mill. | Prodanović, 2007 | Alder buckthorn |
| Palorus spinica-christi Mill. | Prodanović, 2007 | Jerusalem thorn |
| Rhamnus saxatilis subsp. tinctoria Nyman | Prodanović, 2007 | Rock buckthorn |
| ROSACEAE | | |
| Agrimonia eupatoria L. | Prodanović, 2007 | Agrimony, cocklebur |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| Amelanchier ovalis Medik. | Prodanović, 2007 | snowy mespilus |
| Aremonia agrimonioides (L.) DC. | Krivošej et al., 2013 | bastard-agrimony |
| Cotoneaster integerrimus Medik. | Prodanović, 2007 | cotoneaster |
| Crataegus monogyna Jacq. | Prodanović et al., 2004; Prodanović, 2007 | common hawthorn |
| Filipendula vulgaris Moench. | Prodanović et al., 2004; Prodanović, 2007; Krivošej et al., 2013 | dropwort, fern-leaf dropwort |
| Fragaria vesca L. | Prodanović et al., 2004; Prodanović, 2007; Krivošej et al., 2013 | wild strawberry |
| Geum urbanum L. | Prodanović, 2007; Krivošej et al., 2013 | wood avens |
| Malus florentina (Zuccagni) C.K. Schneid. | Prodanović et al., 2013 | florentine crabapple |
| Malus sylvestris (L.) Mill. | Prodanović, 2007 | european crab apple |
| Potentilla argentea L. | Prodanović et al., 2004; Prodanović, 2007 | hoary cinquefoil, silver cinquefoil |
| Potentilla neglecta Baunig. | Prodanović, 2007 | sulfur cinquefoil |
| Potentilla recta L. | Prodanović, 2007 | sulfur cinquefoil |
| Potentilla tommassianiana F. W. Schultz. | Pavlović, 1967 | |
| Prunus avium (L.) L. | Prodanović et al., 2004; Prodanović, 2007; Prodanović et al., 2008 | wild cherry |
| Prunus mahaleb L. | Prodanović, 2007 | mahaleb cherry |
| Prunus spinosa subsp. dasyphylla (Schur) Domin | Prodanović, 2007 | blackthorn, sloe |
| Pyrus spinosa Forssk. | Prodanović, 2007 | almond-leaved pear |
| Rosa arvensis Huds. | Prodanović, 2007 | field rose |
| Rosa canina L. | Prodanović, 2007 | dog rose |
| Rosa corymbifera Borkh. | Prodanović, 2007 | rose |
| Rosa x dometorum Thuill | Prodanović, 2007 | corymb rose |
| Rosa gallica L. | Prodanović, 2007; Krivošej et al., 2013 | french rose |
| Rosa micrantha Borrer ex Sm. | Prodanović, 2007 | rousa rose |
| Rosa rubiginosa L. | Prodanović, 2007 | sweetbriar rose |
| Rosa spinosissima L. | Prodanović, 2007 | scotch rose |
| Rubus caesius | Prodanović, 2007 | european dewberry |
| Rubus ulmifolius Schott | Prodanović, 2007 | elm-leaf blackberry |
| Sanguisorba minor Scop | Prodanović, 2007; Krivošej et al., 2013 | salad burnet |
| Sanguisorba officinalis L. | Prodanović, 2007 | great burnet |
| Spiraea media Schmidt | Prodanović, 2007 | spirea |
| Sorbus aucuparia L. | Prodanović, 2007 | mountain ash |
| Sorbus torminalis (L.) Crantz | Prodanović, 2004; Prodanović, 2007 | wild service tree, chequers |
| Waldsteinia geoides Willd. | Prodanović et al., 2010 | barren strawberries |

**RUBIACEAE**

| Asperula cynanchica L. | Rexhepi, 1979; Prodanović, 2007 | squinancywort, squincywort |
| Asperula purpurea (L.) Ehrend. | Prodanović, 2007 | purple squinancywort |
| Crucaea glabra (L.) Opiz. | Prodanović, 2007 | |
| Crucaea laevipes Opiz. | Prodanović, 2007; Krivošej et al., 2013 | crosswort smooth bedstraw |
| Crucaea pedemontana (Bellardi) Ehrend., All. | Prodanović, 2007 | Piedmont bedstraw |
| Galium aparine L. | Prodanović, 2007 | catchweed bedstraw |
| Galium mollugo L. | Prodanović, 2007 | hedge bedstraw |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-----------------|---------------------|
| Galium pseudoaristatum Schur | Prodanović, 2007 | bedstraw |
| Galium verum L. | Prodanović, 2007 | yellow bedstraw |
| Sherardia arvensis L. | Prodanović, 2007 | blue fieldmadder |
| RUTACEAE: | | |
| Dictamnus albus L. | Prodanović, 2007 | burning bush, dittany |
| Haplophyllum boissieri anum Vis. et Pančić | Pavlovíč, 1967; Randelović et al., 1982; Prodanović, 2007; Prodanović et al., 2008 | |
| SALICACEAE | | |
| Populus alba L. | Prodanović, 2007 | silver poplar, silverleaf poplar |
| Populus nigra L. | Prodanović, 2007 | black poplar |
| Populus tremula L. | Prodanović, 2007; Krivoš ej et al., 2013 | aspen, common aspen |
| Salix alba L. | Prodanović, 2007 | golden willow, white willow |
| Salix caprea L. | Prodanović, 2007 | goat willow, pussy willow |
| Salix eleagnos Scop. | Prodanović, 2007 | bitter willow, olive willow |
| Salix x fragilis L. | Prodanović, 2007 | crack willow |
| Salix purpurea L. | Prodanović, 2007 | purple willow |
| SANTALACEAE | | |
| Arceuthobium oxycedri (DC.) M. Bieb. | Ranđelović et al., 1982; Prodanović 2007 | juniper dwarf mistletoe |
| Comandra umbellata subsp. elegans (Rochel ex Rchb.) Piehl | Prodanović, 2007 | bastard toadflax |
| Thesium arvense Horv. | Rexhepi, 1979; Prodanović, 2007 | |
| SAPINDACEA | | |
| Acer campestre L. | Prodanović et al., 2004; Prodanović, 2007 | field maple |
| Acer campestre subsp. marsicum (Guss.) Hayek | Prodanović, 2007 | field maple |
| Acer platanoides L. | Prodanović, 2007 | emerald queen maple, norway maple |
| Acer pseudoplatanus L. | Prodanović, 2007 | sycamore |
| Acer tataricum L. | Prodanović, 2007 | tatarian maple |
| SAXIFRAGACEAE | | |
| Saxifraga paniculata Mill. | Rexhepi, 1979; Prodanović, 2007 | alpine saxifrage |
| Saxifraga bulbifera L. | Prodanović, 2007 | bulbous saxifrage |
| Saxifraga rotundifolia L. | Prodanović, 2007 | round-leaved saxifrage |
| Saxifraga tridactylites L. | Prodanović, 2007 | rue-leaved saxifrage |
| SCROPHULARIACEAE | | |
| Scrophularia canina subsp. bicolor (Sm.) Greuter | Prodanović, 2007 | dog figwort |
| Scrophularia canina L. | Randelović et al., 1982; Prodanović, 2007 | dog figwort |
| Scrophularia canina L. subsp. tristis (K. Malý) V. Nikolic | Pavlovíč, 1967; Prodanović, 2007 | dog figwort |
| Scrophularia nodosa L. | Prodanović, 2007 | figwort, woodland figwort |
| Scrophularia umbrosa Dumort. | Prodanović, 2007 | green figwort |
| Verbasum baticum Schrad. | Prodanović, 2007 | mullein |
| Verbasum chaixii Vill. | Prodanović, 2007 | narrow-leaved mullein |
| Verbasum nigrum L. | Prodanović, 2007 | black mullein, dark mullein |
| Verbasum philomoidei L. | Prodanović, 2007 | orange mullein |
| Verbasum phoeniceum L. | Prodanović, 2007 | purple mullein |
| SOLANACEAE | | |
| Datura stramonium L. | Prodanović, 2007 | thorn apple, jimsonweed |
| Hyoscyamus niger L. | Prodanović, 2007 | henbane, black henbane |
| Lycium barbarum L. | Prodanović, 2007 | chinese boxthorn, Himalayan goji |
| Solanum dulcamara L. | Prodanović, 2007 | bittersweet, bittersweet nightshade |
| CLASS/ FAMILY/Species | Source/Literature | Common English names |
|-----------------------|-------------------|----------------------|
| THYMELAEACEAE         |                   |                      |
| *Thymelaea passerina* (L.) Coss. & Germ. | Prodanović et al., 2010 | sparrow-wort |
| ULMACEAE              |                   |                      |
| *Ulmus carpinifolia* Gled. | Prodanović, 2007 | elm |
| *Ulmus laevis* Pall. | Prodanović, 2007 | European white elm, fluttering elm |
| *Ulmus minor* Mill. | Prodanović et al., 2004; Prodanović, 2007 | elm |
| *Ulmus minor* Mill var. *tortuosa* (Host) Hayek | Prodanović, 2007 | elm |
| URTICACEAE            |                   |                      |
| *Parietaria officinalis* L. | Prodanović, 2007 | Eastern pellitory-of-the-wall |
| *Urtica dioica* L. | Prodanović, 2007 | Common nettle, stinging nettle |
| VERBENACEAE           |                   |                      |
| *Verbena officinalis* L. | Prodanović, 2007 | Common vervain |
| VIBURNACEAE           |                   |                      |
| *Sambucus ebulus* L. | Prodanović, 2007 | Danewort, dane weed |
| *Sambucus nigra* L. | Prodanović, 2007 | Elderberry, black elder |
| VIOLACEAE             |                   |                      |
| *Viola arvensis* Murray | Randelović et al., 1982; Prodanović, 2007 | Field pansy |
| *Viola hirta* L. | Prodanović, 2007 | Sweet violet, English violet |
| *Viola kitaibeliana* Schult. | Prodanović, 2007 | Kitaibel's violet |
| *Viola reichenbachiana* Boreau | Prodanović, 2007 | Early dog-violet, pale wood violet |

A vast majority of genera belong to the family *Compositae* (51), followed by *Poaceae* (38), *Apiaceae* (26), *Brassicaceae* (24), *Leguminosae* (24), *Lamiaceae* (22). Among the genera the most species rich are *Trifolium* (17) followed by *Carex* (16), *Euphorbia* (14), *Veronica* (14), *Vicia* (13), *Lathyrus* (12), *Hieracium* (11), *Centaurea* (8), *Medicago* (8), *Rosa* (7) etc. The dominance of the genera *Trifolium*, *Vicia* and *Lathyrus* (*Leguminosae* family) is most likely conditioned by the higher presence of areas under xerothermic meadows and pastures as well as thermophilic rocks in the study area. Genus *Carex* is on second position. This is explained by the fact that species within this genus require moist habitats, which were abundant in the investigated terrains, on the banks of river Ibar, as well as streams flowing into the river. Genera *Trifolium* and *Carex* are also dominant in serpentine complexes in Eastern Rhodopes (Bulgaria) (Pavlova et al., 2004).

31 taxa in total have been recorded in this area for the first time and they present a novelty for the flora of Kosovo and Metohija and entire Serbia. The records for most of these were first published in Prodanović et al. (2004, 2008, 2010, 2012, 2013, 2018).

**Life-form spectrum and phytogeographical analysis**

The analysis of life forms indicates domination of hemicyryptophytes (48.29%) (Fig. 2). The significant representation of therophytes (21.99%), is typical for the serpentine floras, where the plants are adapted to ensure reproduction within a short period of time under stress conditions (Brooks, 1987). Other herbal life forms are present in smaller numbers, geophytes (10.54%) phanerophytes (8.27%), chamaephytes (6.91%), scandentophytes (1.81%) etc. Such biological spectrum is characteristic for the Balkan Peninsula, as well as for the territory of Serbia (Diklić, 1984).
Figure 2. Life form spectrum (A) and chorological spectrum (B), by basic area types, of the serpentinite flora in the middle course of the Ibar river valley

The chorological floristic analysis indicates that this is an area with interim holarctic-Mediterranean character (Fig. 2). Holarctic areal type with 369 taxa (41.83%) is the most presented on the terrain, followed by Mediterranean – continental areal type (29.18%) and pontic – south Siberian areal type (10.31%), cosmopolitan areal type (6.45%) as well as central European – Mediterranean (6.23%). The least reported species in the serpentine terrains of the Ibar river valley are Middle European dispersion areal type and Adventive areal type. The presence of plants belonging to Adventive areal type indicates anthropogenic influence, which is present in settlements around river banks, as well as around main roads and local rural roads. Xeromorphic species are predominant due to conditions for their growth on serpentinite soil.

Endemism and internationally significant vascular plants

Serpentine habitats are the most important endemic regions in the world and also called “geological islands” (Kurt et al., 2013). Despite the shallow active layer of serpentinite soil, biodiversity is high with a great number of interesting local and regional endemics (Shuka and Hallaçi, 2010). It is estimated that the total number of endemic plants in the Balkans is bigger than 2200 taxa. 300-350 (15-16%) taxa of this number have been identified on the serpentinite background; 123 of them are obligate serpentine endemics (Stevanović et al., 2003).

Due to diverse physical and geographical characteristics, the Republic of Serbia has a considerable number of endemic plant taxa. Centres of endemism are located in the southern and eastern regions of Serbia and on the territory of Kosovo and Metohija (Gavrilović et al., 2017). The serpentine mountains of Central Serbia along the river Ibar represent a relatively large core of ophiolitic flora in the Central Balkans. It is the centre of distribution of old trans-regional endemics such as: Halacsya sendtneri, Haplophyllum boissierianum, Potentilla visianii and Eryngium serbicum. Local endemics include Tulipa serbica (Stevanović et al., 2003).
Out of the total taxon number in the investigated area, 73 (8.27%) belong to group of endemic, sub-endemic, relict and endomorelic taxa. There are 40 of endemic and sub-endemic species (Eryngium serbicum, Helleborus multifidus subsp. serbicu, Tulipa serbica, Odontarrhena bertoloni subsp. scutariina (syn. Alyssum janchenii), Alyssum markgrafii, Galatella albanica, Dianthus pinifolius, Euphorbia glabiflora, Fumana bonapartei, Halacysa sendmeri, Haplophyllum boissierianum, Hieracium baunini subsp. pseudosparsum, Hypericum rumeliacum, Lamium bifidum subsp. balcanicum, Potentilla visianii, Ranunculus psilocastachs, Scabiosa fumaroides, Scrophularia canina subsp. tristis, Sedum album (syn. S. serpentinii), Stachys scardica, Linum flavum, Trifolium trichopterum, Rorippa lippizensis, Salvia amplexicaulis, Digitalis laevigata, Melampyrum heracleoticum, Eryngium palmatum, Achillea coarctata, Alyssum montanum subsp. serbicum, Campanula lingulata, Cytisus austriacus subsp. heuffelii, Galium pseudoaristatum, Iris reichenbachii, Lamium garganicum L. subsp. baldacii and Scrophularia canina subsp. tristis).

Based on the distributional range of obligate serpentine endemics, Stevanović et al. (2003) presented the following general classification: (1) trans-Balkan or trans-regional Balkan endemics (taxa distributed in the greater part of serpentine areas in the Balkans); (2) regional endemics (taxa restricted to a single floristic subregion or province); and (3) local or steno-endemics (taxa distributed in a single floristic district or narrow geographical area such as a single mountain or island).

On the investigated terrains in the middle course of the Ibar river valley, 11 taxa from obligate serpentine endemics are in the trans-regional endemic (TRE) category: Alyssum markgrafii, Sedum album (syn. S. serpentini), Potentilla visianii, Potentilla heptaphylla subsp. australis, Euphorbia glabiflora, Haplophyllum boissierianum, Fumana bonapartei, Eryngium serbicum, Halacysa sendmeri, Stachys recta subsp. baldacii and Scrophularia canina subsp. tristis.

4 taxa are obligate serpentine endemics from the regional endemics (RE) category: Helleborus multifidus subsp. serbicus, Alyssum montanum subsp. serbicu, Galatella albanica and Tulipa serbica (stenoendemic according to Millaku et al., 2018). It was right here, on the Ibar Valley serpentines, Beli Laz locality (locus classicus), that this endemic Tulip was identified (Tatić and Krivošej, 1997). Unfortunately, in the last three years, due to the regional dumping site development, the primary habitat has been devastated, without any possibility to be protected.

Out of the total taxon number, 31 taxa belong to a group of internationally significant vascular plants (IUCN, Stojanović et al., 2015). Out of that, 14 taxa have been protected by CITES Convention. These are the followings: Anacamptis pyramidalis, Cephalanthera rubra, Epipactis helleborine, Epipactis microphylla, Galanthus nivalis, Limodorum abortivum, Neottia nidus-avis, Orchis mascula, Orchis morio, Orchis papilionaceae, Orchis purpurea, Orchis tridentata, Ophrys apiifera and Platanthera bifolia.

Comparative floristic analysis

In order to gain a better insight into the flora diversity in these habitats, as well as the level of floristic closeness, a comparative analysis of the flora from Studena mountain, near the city of Kraljevo, has been done by Tatić (1969) in his multi-year research as well as with flora of Goleš mountain, researched by Krasiqi et al. (2019).
The Ibar serpentine massive with the valley in the lower course of the Ibar river traverses though central Serbia and extend west from the mountain Studena (Lukić et al., 2015) where it covers the largest space on Studena mountain; the river itself flows 17.1 km along the mountain. In his studies Tatić reported 390 taxa, the largest number of which belonged to Compositae, Poaceae, Leguminosae, Caryophyllaceae, Rosaceae and Lamiaceae families, which is similar to the spectrum of the most numerous families of flora in the Kosovo part of the Ibar serpentine range. The number of two mutual taxa in two compared areas is 196, so the index of similarity by Sørensen is 30.66%, which is unexpectedly low since Studena mountain represents the continuation of the Ibar serpentine massive that starts in the middle course of the river in Kosovo.

An assumption of floristic dissimilarities in the Kosovo part of the Ibar valley and Studena mountain, has been based on the differences between the altitudes of these two areas (the Ibar gorge 500-900 ma, Studena mountain above 1000 ma, with the highest peak of Kavgalija 1356). Furthermore, the composition of the geological background has probably influenced floral development. The geological background of Studena mountain exclusively consists of serpentinite; in the Kosovo part of the Ibar valley apart from serpentinite, there are also peridotite and unmodified ultramaphyte rocks. While Tatić emphasized phytocenologic research studies on Studena mountain, our attention was turned to purely floristic research projects in the Kosovo's part of the Ibar valley (which may be corroborated by a total number of 882 identified taxa), taking also into account the size of the investigated area. Since the serpentine is considered as a vulnerable habitat, it is important to emphasize that no Studena mountain species recorded by Tatić has been classified as extinct in Serbian flora. Our assumption is that the described species can be found there nowadays, but we also recommend future field research to prove this assumption.

Mountain Goleš, in the central part of Kosovo and Metohija, represents the beginning of the serpentinite-peridotite massif, which covers the left bank of the Sitnica river, goes towards the Čičavica Mountain, enters the valley of the upper stream of the Ibar river in Ibarski Kolašin, and continues along the middle Ibar river course. Krasniqi et al. (2019) recorded 295 taxa on this mountain (with a surface area of 22.2 km²) over a three-year study (2015-2019). Considering the size of the mountain range covered by the conducted survey, a larger number of taxa would be expected. However, such floristic "poverty" confirmed the fact that serpentinite habitats are floristically poorer than habitats with other types of geological substrates. The number of two mutual taxa in the two compared areas is 218, so the index of similarity by Sørensen is 37.04%. It should be noted that this value is not large, although the number of common species is as high as 2/3 of all taxa found on Goleš Mountain. The reason could certainly be a disproportion to the number of identified species and the size of territories explored.

Families with the highest number of taxa on Goleš mountain were Compositae (34), Leguminosae (25), Rosaceae (25), Poaceae (18), and Caryophyllaceae (18). In taxonomic spectrum in the Ibar river valley, Compositae (105) and Leguminosae (86) are also dominant, followed with Poaceae (66), Lamiaceae (51), Brassicaceae (50), Caryophyllaceae (49). Rosaceae family in taxonomic spectrum of most dominant plant families in the Ibar river valley occupies eight position. Significant involvement of the Lamiaceae and Caryophyllaceae families indicate the expression of stronger Mediterranean floristic influences, as well as a greater presence of bare rocky habitats.

Krasniqi et al. (2019) on Goleš Mountain state that out of the total number of identified taxa, 8 of them are endemic, of which 5 endemic species occur on the Ibar...
valley serpentine (Galatella albanica, Halacysya sendtneri, Linum flavum, Potentilla visianii and Haplophyllum boissierianum). Various floristic elements meet and overlap in mountain ranges in the central part of Kosovo, dominated by European floral element, followed by Euro-Asiatic and Sub-Mediterranean, Balcan, Mediterranean and Pontic elements similar to the interim holarctic-Mediterranean character of flora in the Ibar river valley.

Due to the background characteristics, the serpentine areas of the Ibar valley and their flora have not been exposed to negative anthropogenic influences so far. Yet, in the previous 3-4 years, the negative human influences have been detected in the areas along the highway. We consider that establishing a better connection between scientific and professional public and the people who are in charge of planning and infrastructural construction along the Ibar valley could contribute to the preservation of the habitats of some significant and endangered species, which unfortunately was not the case with locus classicus of the Tulipa serbica species.

Conclusion

The presence of 882 taxa grouped into 83 families and 386 genera has been identified in the course of the research of serpentine flora performed in the middle stream Ibar river valley, for the period of 16 years. Taxonomic spectrum of families is dominated by Compositae (105), followed by Leguminosae (86), Poaceae (66), Lamiaceae (51), Brassicaceae (50), Caryophyllaceae (49), Apiaceae (43) etc. The greatest number of genera belong to families Compositae (51), followed by Poaceae (38), Apiaceae (26), Brassicaceae (24), Leguminosae (24), Lamiaceae (22). Among the genera the most species rich are Trifolium (17) followed by Carex (16), Euphorbia (14), Veronica (14), Vicia (13), Lathyrus (12), Hieracium (11), Centaurea (8), Medicago (8), Rosa (7) etc. An analysis of life forms showed that the investigated area has hemicryptophyte characters, with significant participation of therophytes (21.99%). The chorological spectrum is dominated by Holarctic species (41.83%). The presence of 73 taxa from a group of endemic, sub-endemic, relict and endomorelic taxa was determined. Out of the total taxon number, 31 taxa belong to a group of internationally significant vascular plants. Out of that, 14 taxa have been protected by CITES Convention. A comparative analysis of the serpentine flora in the Ibar river valley and the Studena mountain as well as in the Goleš mountain showed a relatively small floristic similarity, which was unexpected, since these two mountains represent the beginning and continuation of the Ibar serpentine massive that starts in the middle course of the river in Kosovo. Only a good knowledge of floristic diversity may initiate the procedures that may lead to preserving and protecting rare and endangered and internationally important species in these areas. Since serpentine habitat is considered as vulnerable we are proposing continual habitat monitoring as well as monitoring of all endangered and rare species in the Ibar river valley in future research projects. For some species seed collecting for a seed bank could be one of the conservation measures.

Acknowledgements. The authors are grateful to dr Marjan Niketić, from the Natural History Museum in Belgrade, for his help in the determination of genus Hieracium and Cerastium.
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