

# ECOLOGICA MONTENEGRINA

## Supplementum 1

### **The Urban Flora Of Podgorica (Montenegro, SE Europe): Annotated Checklist, Distribution Atlas, Habitats And Life-Forms, Taxonomic, Phytogeographical And Ecological Analysis**

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### Appendix

(Available at: <https://www.dropbox.com/s/s7oi9rdhwzqficg/Appendix%201%2C%20Atlas.pdf?dl=0>)

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**Abstract**

The paper presents a taxonomic, ecological and phytogeographical study of the native and alien flora of the urban area of Podgorica (Capital of Montenegro, SE Europe). The surveyed terrain extends over 86 km<sup>2</sup>, and apart from the urban it also entails the peri-urban zone. The checklist of vascular plants of the urban area includes 1222 species and subspecies from 561 genera and 121 families which represents a little over a third of the total flora of Montenegro. The richness and diversity of the city's flora are caused by the local geomorphology and climatic conditions of the area, the high diversity of habitats with different anthropogenic impact and the increased immigration of plants from the surrounding ecosystems. Concerning the distribution of the species number by quadrant in the city area of Podgorica there is no gradient between growing number of species and distance from the urban core. However, if the distribution of the number of taxa per habitat is taken into consideration, it is clear that the homogeneity of habitats and the increase in the urbanisation leads to decline of the number of wild growing taxa. The families represented by the highest number of taxa are *Poaceae* (11.5%), *Asteraceae* (11.2%) and *Fabaceae* (9.2%). while the genera represented most are *Trifolium* (2.1%), *Euphorbia* (1.4%), *Carex*, *Ranunculus* and *Bromus* (1.3 each%), *Veronica* (1.2%), *Allium* (1.1%), *Vicia* and *Lathyrus* (1% each). Apart from the expected high presence of synanthropic, ruderal and ruderal-segetal taxa, the flora of Podgorica is characterised by a significant number of typical urbanophobes. Comparing to the flora of selected European cities (Zurich, Vienna, Rome, Patras and Thessaloniki), Podgorica showed the biggest similarity with Rome (Sørensen's quotient of similarity (Q/S)= 69.4). The general life form spectrum has therophytic-hemicryptophytic character, which, on one hand, reflects the climatic conditions and on the other the intensive urbanisation of the surveyed area. Like in the spectrum of other Mediterranean cities, the participation of the geophytes is relatively high (11.7%). Concerning phenology, Podgorica is a city in which no interruption of vegetation growth and something is always in flower. The majority of plants flower in May, the smallest number flowers in December. Regarding the ecological temperature index, dominating in the city area are thermophilic plants (T7 and T8), an indication of the Mediterranean character of the city area. Prevalent in terms of the light index are heliophyllic plants (L7 and L8), conditioned by exposure of the terrain to sunlight, as well as by the degradation of the primary forest cover and the domination of open and sunny habitats. Dominant in terms of soil reaction are neutrophilic and neutro-basophilic species (R5 and R7), and in terms of nutrients oligotrophic plants (N2 and N3). Dominating in terms of the humidity index are H3 and H4 plants, as expected considering the climatic conditions and hydrography of the area. The phytogeographic spectrum of Podgorica fits into the general spectrum of South European cities and is characterised by the prevailing presence of Mediterranean species s.l. (39.7%). The participation of aliens is relatively small (14.1%), probably due to the short history of the settlement and the poorly developed transportation and trading networks. Dominant among aliens are taxa of *Asteraceae* (15.7%) and plants of Asian (43%) and North American origin (23.2%). The most aggressive aliens in the city area are *Ailanthus altissima*, *Artemisia annua*, *A. verlotiorum*, *Bidens subalternans*, *Broussonetia papyrifera*, taxa of the genus *Erigeron*, *Symphytotrichum squamatum* and *Xanthium orientale* subsp. *italicum*.

The comparative analysis of selected habitat types in the area of Podgorica showed that two habitat types are distinguished by prominent floristic richness: meadows (46.1%) and dikes along railroad tracks (32.1%). Due to constant degradation and loss of habitat in the strict urban zone of Podgorica which on one hand causes the loss of native flora, and on the other facilitates the expansion of the alien flora, we expect the effect of the biotic homogenisation to be noticeable in the area of Podgorica.

The allergenic flora of Podgorica includes 253 taxa of wild vascular plants whose pollen has been grouped into three categories: woody plants pollen (32 taxa), weed pollen (76 taxa) and grass pollen (145). Tree pollen is present from February to April, while weed and grass pollen from April to October.

**Key words:** City, floristic diversity, alien, native, allergenic plants, grid mapping, habitat classification, phenology, phytogeography, Sørensen index, ecological indices.

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## Introduction

Surveys of the flora of Montenegro, especially recent ones, have mostly been focused on the mountain flora (Markišić 2000, Vuksanović 2003, Petrović 2011), the flora of canyons (Bulić 1998, Bulić 2008, Bulić *et al.* 2008), the karstic fields (Stešević 2001, Hadžiablahović 2010), or wetlands (Bubanja 2004, 2013), while research on the flora in populated areas and other anthropogenic habitats was not given much importance. However, it should not be concluded that the Podgorica urban area represents a “virgin” area, in the floristic sense. The first floristic data has been collected by foreign botanists: Beck & Szyszyłowicz (1888), Baldacci (1891-1904), Horak (1898, 1900) Rohlena (1902-1935), and Janchen (1919), who visited Montenegro at the end of XIX and beginning of XX Century. On their journey towards the north, they collected material at several locations, which nowadays belongs to the territory of Podgorica: Donji Kokoti, Malo Brdo, Doljani and Duklja, and noted the presence of some taxa. This data is gathered in the Rohlena's „*Conspectus Florae Montenegrinae*“, published in 1942. Contributions to the knowledge of the flora of Podgorica city area are also available in: Maly (1933), Černjavski *et al.* (1949), Slavnić & Ložušić (1965), Pulević (1966, 1971, 1973, 1974, 1977, 1979, 1982, 1983a, 1983b), Šmarda (1968), Speta (1976, 1980), Blečić & Pulević (1979), Ivković & Čapaković (1981), Pulević & Lakušić (1983), Göltz & Reinhard (1986), Bulić (1989, 1995, 2008), Pulević & Bulić (1990), Parolly (1992, 1995), Vasić (1988, 1989, 1995-98), Greuter & Raus (1998), Hadžiablahović (2002, 2004, 2006, 2010), Hadžiablahović *et al.* (2003), Hadžiablahović & Bulić (2004) and Lakušić *et al.* (2004). All these references contains rather heterogenic floristic data, mainly about new records for the area or about specific groups of plants, while the results of systematic study of the urban flora of Podgorica were published in the period of 2005-2009: Stešević (2002, 2006), Stešević & Jovanović (2005, 2008), Stešević & Jogan (2006, 2007), Stešević *et al.* (2008, 2009). They represent a backbone of this monograph.

At the European level, urban ecology has a noteworthy tradition. The first investigations focused on single habitat types (old settlements, ruins, gardens, and parks), while comprehensive studies of urban ecosystems were started in the 1970's (Sukopp 2002). Thus a very rich bibliographic database has been compiled until now (see Sukopp 2002, McDonnell 2011).

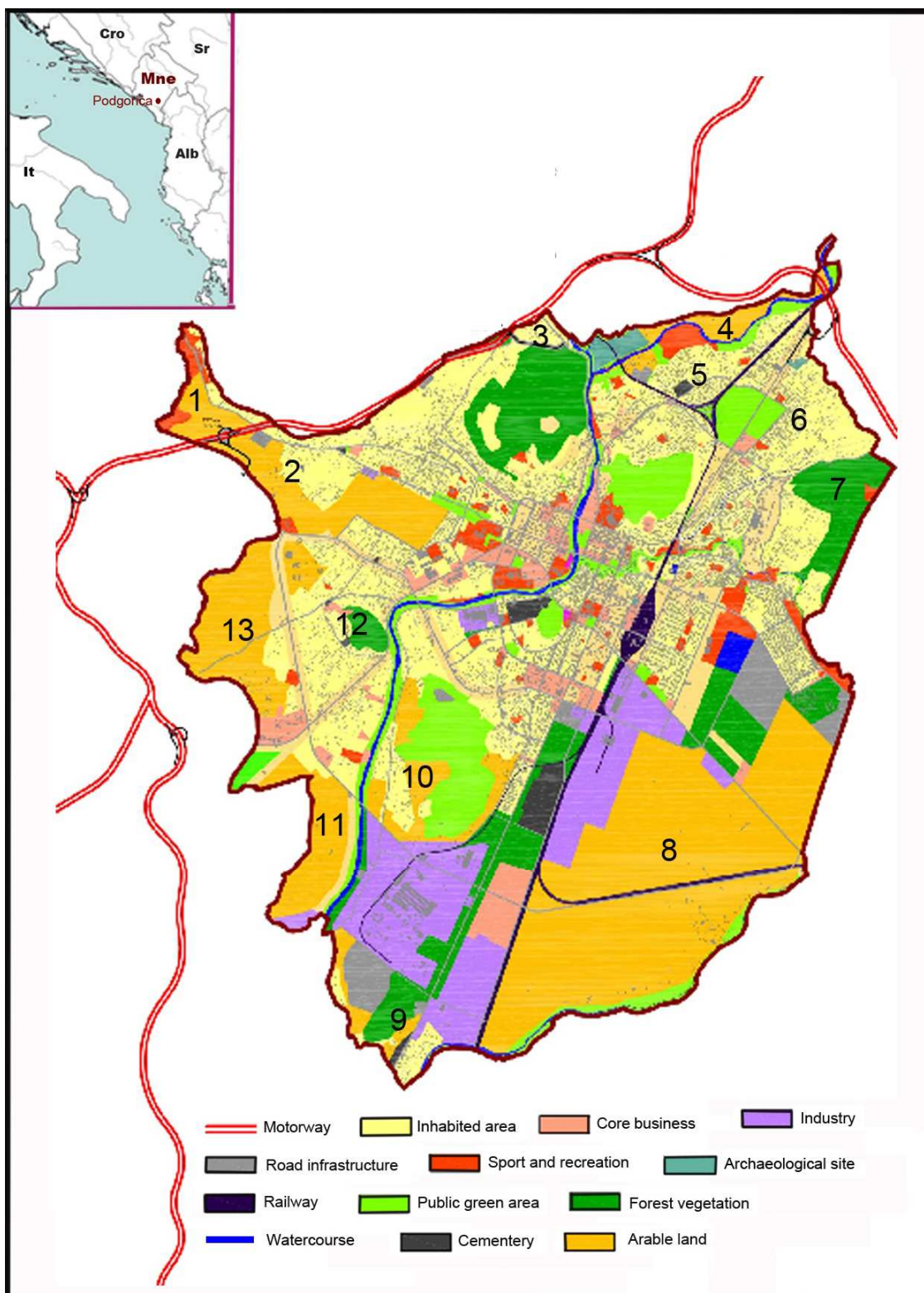
In Southern Europe, the development of urban ecology has been somewhat slower, and the most systematic research has been carried out in Italy (Cannarella 1909-1912; Cobau 1916-1927; Brandes 1985; Hruška 1982, 1989, 1990, 1993-1994, 2000; Frattini 1993-94; Poli Marchese *et al.* 1989; Celesti Grapow 1993-1994, 1995; Celesti Grapow *et al.* 1996, 2006, 2013; Celesti Grapow & Blasi 1998; Martini 1999, 2006; Bressan 2001; Leporatti *et al.* 2001; Lo Giudice *et al.* 2005, etc.). In former Yugoslavia, interest in ruderal flora and vegetation in urban settlements emerged in the past couple of decades (Jovanović 1993, 1994); in Montenegro, in past decade (Stešević & Jovanović 2005, 2008, Stešević *et al.* 2009, Jovanović *et al.* 2013).

### Geographic position, boundaries and the history of the surveyed terrain

The Podgorica city area is located in the south-eastern part of Montenegro, on the Zeta River plateau, rimmed by Kučke and Piperske mountains and the hills of Lješanska nahija (Radojičić, 1996). It covers a surface of 86 km<sup>2</sup>, containing, apart from the urban centre, the following surrounding areas as well: 1- Mareza, 2- Tološi, 3- part of Vranjske njive, 4- Donji Rogami, 5- Zlatičko polje, 6- Doljani, 7- part of Kakaricka gora, 8- part of Čemovsko polje (from Vrela Ribnička, from part of the plain beneath Agrokombinat orchards to the Kuće Rakića and then downstream to the confluence with Morača River), 9- Srpska Gora, 10- Dajbabe and Dajbabska gora, 11- Kokotski ovčar, 12- Gorica, 13- Lješkopolje (Dimitrovska Andrews, 2013, Fig. 1).

The city was built in the 10<sup>th</sup> century, but had no significant role in the times of Vojislavljevići, Nemanjići and Balšići. Its tuburlent history begun from the mid of 15<sup>th</sup> century. According to an agreement between the Venetian Republic and despot Đurađ Branković, it became one of the seats of the despot's dukes and quickly felt under the rule of the Ottoman Empire. At the confluence of Ribnica into Morača Rivers, Ottoman Turks started building a fortress surrounded by walls and an ambiance of a different, oriental spiritual culture was established. This marks the beginning of a new chapter in the town's history that lasted for the next four centuries. The new Podgorica started developing rapidly and within a little over a century, it grew up to more than 900 homes. Over the next two and a half centuries, it kept almost the same number of homes (950), with only the structure of its population changing. From a lively medieval merchant town,





**Figure 1.** Geographic position, boundaries and structure of the urban area of Podgorica. Periurban localities: 1 - Mareza, 2 - Tološi, 3 - part of Vranjske njive, 4 - Donji Rogami, 5 - Zlatičko polje, 6 - Doljani, 7 - part of Kakaricka gora, 8 - part of Čemovsko polje (from Vrela Ribnička, from part of the plain beneath Agrokombinat orchards to the Kuće Rakića and then downstream to the meeting point with Morača River), 9 - Srpska Gora, 10 - Dajbabe and Dajbabska gora, 11 - Kokotski ovčar, 12 - Gorica, 13 - Lješkopolje.

Podgorica transformed to an oriental one, with wide gardens, vineyards and meadows. In the 19<sup>th</sup> century, after the liberation from Turkish rule, Podgorica had 1,500 homes. Economic, social and cultural revival ensued in the Princedom of Montenegro. By the end of the 19<sup>th</sup> century, it started developing on the right

bank of Ribnica as well, on former meadows, previously used mostly for the placement of military camps. The old Podgorica became the Old Town or Stara Varoš and the part across Ribnica was named the New Town or Mirkova Varoš with industrial enterprises, banks and modern traffic. Podgorica became the most developed trading and crafts centre, with the largest urban population. In 1890, it numbered 6,000 inhabitants. By the beginning of the 20<sup>th</sup> century, the tobacco monopoly and the cigarette factory were established, representing the start of the industrial development of Podgorica. With the start of the Balkan wars and the First World War, the progress of Podgorica was halted. The city fell under the Austro-Hungarian occupation. After the liberation and the creation of the Kingdom of Serbs, Croats and Slovenians (SHS), it continued to develop very slowly. Craftsmanship progressed slowly, and the trading network consisted of small merchant shops. During the Second World War, Podgorica suffered aerial bombardment 80 times. Two thousand civilians were killed and the town was almost destroyed. Immediately after the end of the war, there were 6,000 inhabitants in the town. All up to the 60's of the 20<sup>th</sup> century, Podgorica was developing mostly without any existing planning documentation. Spatial planning documents, created previously, were not appreciated. The Balkan town of oriental outlines and a classicist town from the end of the 19<sup>th</sup> century changed into a functional town was made, with clear outlines of the modern trend of urbanisation. Three urban cores were formed: the old Balkan town – Old Town (Stara Varoš), the classicist town from the end of the 19<sup>th</sup> century – New Town (Mirkova Varoš) and the functionalist city of the 60's – New City (Nova Varoš). The surrounding settlements became part of the urban area. The influx of mechanisation was followed by population growth. Large enterprises were established: the aluminium plant Podgorica, construction machinery industry, the tobacco factory, the furniture and woodwork factory, the cotton processing factory and the textile factory. Printing, food and chemical industry developed, as well as production craftsmanship, catering and accommodation industry. The part of the city across Morača River started to rise. The city obtained its water supply system, and the railroad line Titograd-Nikšić was opened in 1948, the Titograd-Bar in 1959 and the Titograd-Belgrade in 1976. The Adriatic regional road connects Titograd with the coast and continental part of the country. Foreign and domestic trade enterprises were established. New tourist and catering and accommodation facilities were built. Čemovsko polje, once a wasteland, was turned into a fertile plantation, with vineyards and orchards, within the agriculture enterprise "13 jul". New health dispensaries were built, the new hospital and children's hospital. Titograd became a city of greenery with new parks and flower groves. Characteristic of the second half of the 20<sup>th</sup> century was the explosive population growth (8.2 times increase, in the period of 1948-1991, the number of inhabitants increased from 14,369 to 117, 875). Most of the quick population growth, was due to the immigration of inhabitants from other parts of the country. In 1961, the immigration rate from other parts of the country in the city's was 61.9% and in 1991 was 50.7% (Ičević, 2003). According the census in 2003, Podgorica has 136,473 inhabitants (Šehić & Šehić, 2005).

The new millennium brought new changes in the appearance of the city. It started expanding abruptly with new boulevards, bridges, modern business, residential facilities and big trade centres at the expense of the luscious green areas. The urbanisation also affected the former suburban areas that "merged" with the city within a period of only a couple of years.

The city landscape is constantly changing under the influence of human activities both in the altitudinal and surface gradients (Lješević 2002). The changes are currently visible in the area of Podgorica: cutting into the city's hillocks and flattening of the terrain, creation of holes due to the exploitation of gravel, creation of mounds by depositing construction, industrial, communal and other types of waste, gradual disappearance of the natural microrelief and the appearance of anthropogenic karst, implying the intensification of erosion and soil loss (Fig. 2-5).

### **Geology of the surveyed area**

The geological base of the area is mostly composed of quaternary formations (flatland plateau), but also of the Mesozoic rock (city's hillocks, rising from the plain like cones and the surrounding hills). The quaternary deposits are of fluvial-glacial nature and was created during the last ice ages, Riss and Würm (30-50 thousand years ago), when huge masses of crushed rock, carried by water and ice from the surrounding mountains of Prekornica, Maganik, Žijovo and Prokletije, were deposited causing the flooding of the once deep Skadar basin and filled it. The sediments are mostly composed of gravel and sand of varying granulation. In the riverbeds of the Morača, Cijevna and Ribnica Rivers gravel was connected to conglomerates (Fig. 6-8). The deposits in the central parts of Čemovsko polje are up to 70 m thick.





**Figure 2.** Cutting into city's hillocks (example of the Gorica Hill).



**Figure 3.** Exploitation of gravel (bank of Morača River-Kokotski ovčar).



**Figure 4.** Exploitation of gravel (Ćemovsko polje).



**Figure 5.** Waste depositing (Ćemovsko polje).



**Figure 6.** Morača Canyon – Stara Zlatica.



**Figure 7.** Cijevna Canyon – near Milješ.





**Figure 8.** Ribnica riverbed – Skaline.

Morphologic rises of Čemovsko polje, rim parts of the Zeta plain are composed of Mesozoic sediments (carbonate rocks and their transitional varieties, dating back to cretaceous age).

Tectonic and non-tectonic features of the area of Podgorica and its surroundings are also specific and dynamic. It is determined by tectonic features of this region, since the area of Skadarsko Lake is located in a recent ground sinking, at a rate of 2-3 mm a year. On the other hand, the area north of the line Glava Zete-Martinići-Zlatica-Fundina, is in the zone of neotectonic rise, with the amplitude of 2 mm a year. This indicates strong terrain kinetics and high seismic temperament (Radojičić 1996).

Under the influence of the city and all of its functions, the geologic environment is altered by human influence and the impact of technology to a significant degree (Lješević 2002.). The change of the natural geologic environment is reflected in the construction of cellars, atomic shelters, underpasses, telecommunications lines, water supply and sewage infrastructure. In the area of the city of Podgorica, three most negative causes of changes in the natural geologic environment are the construction of various facilities, the construction of roads and the gravel digs.

### **Pedology of the surveyed area**

Through a combined impact of pedogenetic factors, six different types of soils occur in the area of the city of Podgorica (FAO-UNESCO 1981, Fušić & Đuretić 2000, Dimitrovska Andrews 2013):

1. Brown eutric soil on gravel and conglomerate, very shallow and shallow (Čemovsko polje and Momišićko polje, Kokotski ovčar, Tološko polje, Zabjelo, city centre, Masline, Zlatička šuma, part of Doljani, Rogami, Duklja): This soil was formed from gravel and conglomerate, its genesis was conditioned by the water impermeability of the substrate and highly prominent eolic erosion, as well as scarce vegetation cover. Its depth is between 10-50 cm. The soil is of weak skeletal (up to 25%) to medium skeletal (25-50%) type. It is of argil-like composition. Content of certain fractions in fine soil varies: sand (35-60%), powder (20-35%) and clay (15-25%). The structure of the soil varies from crumbly in the surface layer to lumpy, especially in soils with higher content of clay. The colour of the upper (A) horizon is dark brown to amber, of the deeper (B) horizon brown or reddish brown. The pH reaction is mildly acidic or neutral. The soil is naturally low in phosphorus and potassium. It is quite porous and water permeable.

2. Brown eutric soil on gravel and conglomerate, medium deep and deep (Lješkopolje, Doljani, Zagorič, part of Tološko polje, Kruševac, Zabjelo): The thickness of the soil is 50 -120 cm. Compared to the previous type of soil, it is characterised by higher density and decreased porousness, especially in the deeper horizon. Due to the presence of a silicate component in the basic substrate, clay fraction content increases (10-30%), while there is less powder (20-35%) and sand (35-60%). The A horizon is dark in colour and B horizon is of reddish brown colour. The soil has a weak acidic to neutral reaction, and it is low in phosphorus and potassium. It is porous and water permeable.

3. Brown eutric luvisol (Tološko polje): This type of soil formed on a basis of diluvial argil on flat terrain (Lješkopoljski lug). It is very similar to the brown eutric soil. Besides in a paler brown color difference is in structural aggregates of lower horizon (B). They are enveloped in colloid membranes, due to

the argil and other ingredients being washed away. The depth of the horizon varies from 20 to 60 cm. The upper (A) horizon is from 20-30 cm deep. Its mechanical composition is argil-clay, the structure is powdery-lumpy, seldom crumbly. Frequently there is occurrence of the transitional A(B) and B(C) horizons. The reaction of the soil is acidic to neutral. In most cases, lime is washed away into deeper layers and where encounter it, it is of secondary origin. This soil is low on phosphorus, and low to medium rich in potassium. It is not very water permeable and has low air capacity.

4. Rendzina (Ćemovsko polje – Cijevna banks): It is formed on carbonate gravel and fluvial-glacial conglomerate. Due to the water permeability of the substrate during the humid part of the year, particles get washed away and during strong winds aeolic erosion occurs, so only a shallow layer of soil is formed. The depth of the soil is 10-30 cm, depending on the prominence of the micro-relief. The A-A(C)-C structure of the profile is encountered on naturally preserved terrains, while on cultivated terrains, due to ploughing and other methods of working the land, horizons are intermingled. Rendzina is skeletal soil, with skeletal percentage of 10-30% in the A horizon, while the skeletal content increases in the transitional horizon and basis, so that it reaches content of 70-90%. In the fine earth fraction, fine sand (50-90%) and powder (8-35%) fraction prevail, while a clay is less present (2-15%). The structure is finely crumbly according to the content (3-6%), originating from grassy vegetation and lime basis. The soil is of a characteristic umber colour. Its reaction is neutral and it is low in phosphorus and potassium.

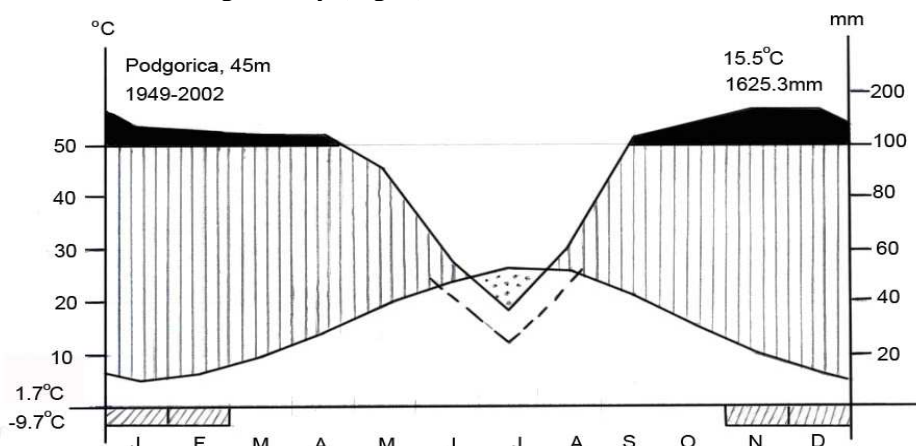
5. Terra rossa, very shallow and shallow (Vranjske njive, Ljubović, Dajbabska gora, Srpska gora, Vranići, Kakaricka gora): As a layer of soil formed on highly rocky limestone terrain, this soil is of small depth, from few to 20 or 40 cm. The biggest depth of terra rossa is along karst depressions with moderately steep sides, along plates and sinkholes. This soil has good physical and chemical characteristics but its small depth and extremely permeable limestone basis make it unsuitable for intensive agricultural activities.

6. Terra rossa, medium deep and deep (foot of the Velje brdo in Vranići): This type of soil forms in sinkholes, karst depressions and flattened parts of karst relief, in places with less prominent presence of rock. This terra rossa only occurs intermittently at the foot of Velje Hill in Vranići, where karst terrain transitions into flatland. Medium deep and deep terra rosa has good physical and chemical characteristics, and therefore is suitable for agriculture (Fušić & Đuretić 2000).

### Climate of the surveyed area

The Climate of urban settlements differs from the climate of the surrounding areas. The larger the city and the more industrialised, the greater is the difference. With its structure and diversity of human activities, urbanization changes the environment and natural climatic conditions. As a result, a multitude of microclimatic units are formed and the city itself is characterised by a specific local climate. Urbanization raises the temperature, causes fog to appear, increases precipitation, obscures the air and reduces the sun's radiation and the air humidity (Lješević 2002).

Under the Köppen climate classification, Podgorica belongs to "dry-summer subtropical" climates (classified as Csax" subtype) often referred to as "Mediterranean" (Burić & Micev 2008). Winters are mild and short, while summers are hot, long and dry (Fig. 9).



**Figure 9.** Walter & Lieth climate diagram of the area of Podgorica.

Mean annual amount of precipitation is 1625.3 mm. The annual maximum of 14.6% falls during late autumn (November), the minimum of 2.3% during summer (July). Large amount of precipitation during the colder

part of the year (autumn-winter, 39% of the annual amount) is the result of intense cyclone activity during that period. Snow is an extremely rare occurrence in the city.

Air humidity in cities is usually lower than in the surrounding area, due to the reduction of the vegetation and open soil, direct drainage of atmospheric precipitation into rivers and streams, eliminating smaller streams and drainage of swamps. Only 1/3 of the precipitation in the city evaporates. In many cities, with more intense gathering of clouds, amount of precipitation is higher by 10-15% and the number of days with precipitation increases by 10% in summer and up to 20% in winter (Lješević, 2002).

Annual values of relative air humidity in the area of Podgorica indicate that humidity is moderate. Average annual air humidity is 63%. Minimum relative humidity occurs in summer, when temperatures are highest and precipitation is at the minimum, the maximum occurs in the very rainy months of November and December.

The average annual temperature for the period 1949-2002 was 15.5°C. Podgorica has high winter temperatures. Average temperature in July is 26.4°C, during the hot summers, it exceeds 29°C. Annual fluctuation of temperatures is 21.1°C, the absolute annual fluctuation is 51.3°C.

Very high summer temperatures cause problems in water supply, maintenance of city vegetation, they cause frequent fires and the maintenance of infrastructure since make more difficult. For example, railroad tracks deform, asphalt softens up and building facades suffer thermal fatigue, causing more rapid flaking and general deterioration of their appearance.

In Podgorica, the annual sum of sun exposure is 2424.1 hour. The daylight is longest in June, months July and August have more sunny hours (340 and 316.6, respectively), the highest recorded number of clear days, and the lowest number of cloudy days. On the other hand, the lowest amount of sunny hours occurs in November and December, characterised by the maximum number of cloudy days.

The highest average velocity, frequency and maximum velocity winds come from the north (Burić *et al.*, 2007). More in detail, 33.6% of winds blow from the north (N), north-northeast (NNE) and north-northwest (NNW), and 25.9% from the south (S), south-southwest (SW) and south-southeast (SSW). The other ten directions, together with calms (periods without wind), occur 40.5% of the time. This clearly indicates that winds in Podgorica blow predominantly from north (mean speed 3.3. m/s) and south direction (mean speed 2.4 m/s). Strong north winds cause serious problems: they raise roofs, complicate maintenance of the vegetation, disturb electrical and television installations. In the peripheral areas of Podgorica, where the density of residential facility is small, the wind blasts are as powerful as in clear spaces. In the downtown zone, where the density of facilities and buildings is higher and where low buildings dominate the space, the wind speed is 2/3 of the wind speed in the open spaces, while in the very centre of Podgorica, where there are tall buildings, and their density is high, the wind speed is 1/3 of that in the open spaces. The maximal registered wind speed was 40 m/s (144 km/h).

### Hydrology of the surveyed area

Podgorica is a city of very rich hydrology. Its hydrological profile includes five rivers (Morača River with its four tributaries: Zeta, Cijevna, Ribnica and Matica/Sitnica) and the spring of Mareza (Fig.10-15).

Morača is the largest river of central Montenegro and the largest tributary of Skadarsko Lake. Its riverhead is located at the foot of the Lola Mountain, in the area of Zebalac and Kapa Moračka, at about 980 m of elevation. The length of its course is 98 km and it flows through the city area for about 12 km. Its average annual discharge is 160 m<sup>3</sup>/s.

The most famous city stream is Ribnica, landmark of old Podgorica, which represents the left tributary of Morača and it converges with it in the very centre of the city. Ribnica forms from temporary springs beneath Kakaricka gora. The length of its course is 10 km and it dries up during summer months, downstream from Vrela Ribnička.

Cijevna *River* is the downstream-most left tributary of Morača. Its riverhead is located on the territory of Albania, at an elevation of about 330 m, and it converges with Morača south of Podgorica, near Mahala, at an elevation of 14 m. The length of the course of Cijevna, on Montenegrin territory, is 32 km. It runs through the city area for about 9 km.

Matica *River*, that is, Sitnica, is the right tributary of Morača. It flows downstream from Mareza and is formed by temporary springs of Vučji studenci and Modra oka (Bandići). Similar to Ribnica, during summer months, the part of the river at Komanski Bridge (Sitnica) usually dries up, while water holds only upstream (Matica). After 20 km, it flows into Morača.

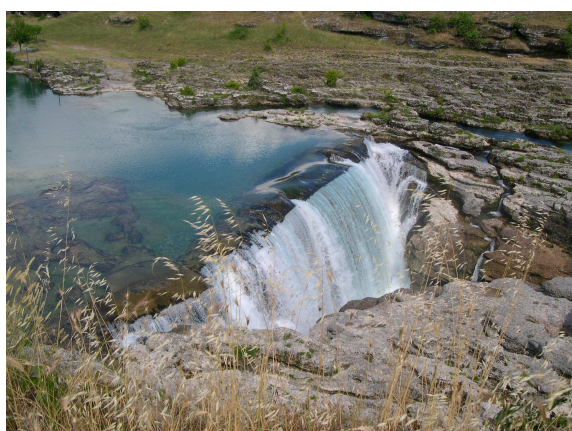




**Figure 10.** Morača canyon – Rogami.



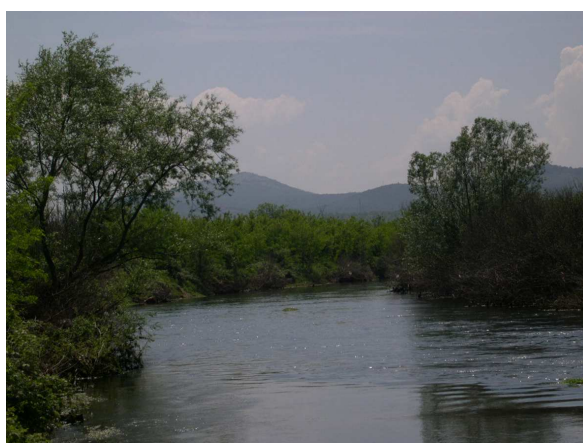
**Figure 11.** Morača canyon – Branjevina.



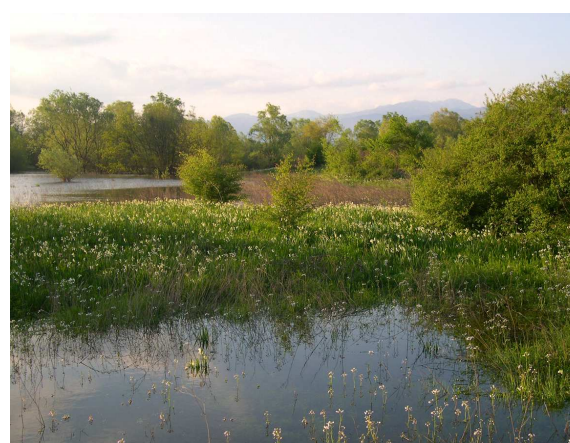
**Figure 12.** Cijevna canyon – Nijagara waterfall.



**Figure 13.** Ribnica River.



**Figure 14.** Sitnica River.



**Figure 15.** Wetland Mareza.

Mareza is the main city spring, with the capacity of 1000 l/s of water for drinking and technical use. It is formed from the water of Kraljičino oko and the spring of Mareza itself, emerging at the elevation of 30 m. This water is classified as high quality drinking water, among the best in Montenegro and around the world.

Zeta River, although being the largest tributary to Morača, only partially belongs to the city area (in the area near the meeting point with Morača-close to Duklja).



Ground water forms mostly from precipitation and by surface waters diving underground. The main rock formations holding them are of Mesozoic carbonates, limestone and fluvial-glacial deposits. The surface of ground water accumulation in the valley of Zeta River is 212 km<sup>2</sup>. Average thickness of the water-holding rock ranges from 29-52 m in the north, to 88-90 m in the south. Natural discharge of ground water is estimated to be around 12 m<sup>3</sup>/s, from north to south (Ičević 2003).

### Vegetation of the surveyed area

According the map of the natural potential vegetation of Montenegro (Stevanović *et al.* 1995a) the area of the city of Podgorica is located in the zone of the oriental hornbeam (alliance *Carpinion orientalis*, order *Quercetalia pubescentis*), and in accordance with the Prodromus of Plant Communities of Montenegro (Blečić & Lakušić, 1976), the three woody communities are recorded in the area: *Paliuretum adriaticum* Horvatić 1963, *Rusco-Carpinetum orientalis* Blečić & Lakušić 1966, *Quercetum trojanae montenegrinum* Blečić & Lakušić 1966, as well as the two grass communities: *Asphodelo-Chrysopogonetum grylli* Horvatić 1958. and *Pseudoovino-Poetum bulbosae* Ht. 1956. These 5 plant communities represent only a minor part of the vegetation diversity of the city area, while the plant cover has never been systematically surveyed. Fragments of the mentioned woody communities are stil noticeable in the micro localities of the city hillocks (Fig. 16), but their constant degradation, in the sense of cutting, fires and grazing, lead to the formation of karst terrain communities (Fig.17). The associations from the class of karst pastures and dry meadows (*Thero-Brachypodietea* Br.-Bl 1947), are typical for city hillocks and peripheral areas of Podgorica.

Afforestation also influenced the vegetation cover of the city area. In the period after the Second World War, major part of the city area has been forested with Aleppo pine (*Pinus halepensis*), black pine (*Pinus nigra*) and Cypress tree (*Cupressus sempervirens*), thus creating the city parks, the park forests of Gorica and Ljubović, Tološka and Zlatička šuma, and the protective forest strip at Stari Aerodrom and Čemovsko polje (Čurović *et al.* 2003). In the past time the flat lands of Momišičko polje, Lješkopolje and Kokotski Ovčar have been frequently used for agriculture, but nowadays its use is reduced, the part of the arable land is urbanized or transformed in the waste places. Intensive farming but also the permanently active grass cutting meadows are characteristic of the wider area of Doljani and Donji Rogami, where the cattle breeding is stil present. The vegetation of the flood land willow and poplar thickets is evident at Mareza and partially, along the courses of Sitnica, Morača and Ribnica Rivers. The thinning of thickets at Mareza and the exploitation of gravel on the banks of Morača represent the most serious threats for these communities (Dimitrovska Andrews 2013).



**Figure 16.** Park forest Gorica-fragments of natural vegetation.



**Figure 17.** Srpska Gora-karst terrain with domination of *Asphodelus microcarpus*.

## Material and Methods

The field survey within the borders of the city area of Podgorica, as established in the city's spatial plan, was undertaken in the period 2008-2013. It covers an area of 86 km<sup>2</sup>, that apart from the city core, also includes the space planned to be urbanised over the next twenty years (Fig. 1). The study presents a continuation of



the research, which results were published in 2008 and 2009 (Stešević & Jovanović 2008, Stešević *et al.* 2009). The floristic aspect of the study included the spontaneously and subsponaneously growing vascular plants, both native and alien. The check list from 2008 (Stešević & Jovanović, 2008), that contained 1227 taxa is updated with new published data (Hadžiahlović, 2010), and own field observations. After additional critical revision of the literature and herbarium data some taxa are excluded from the list. Because of a change in the number of taxa (from 1227 to 1222), the composition of the check list, and nomenclatural status of some plants, new taxonomic, ecologic and phytogeographic analyses was performed. Taxonomic identification of plants was conducted according to: Tutin *et al.* (1964-1980, 1993), Pignatti (1982), Lauber & Wagner (2001), Ohwi (1965), Šilić (1979, 1988, 1990) and Teppner (1991). Herbarium material (voucher specimens) were deposited in the herbarium of the Biology Department, University of Montenegro in Podgorica (TGU) and the Institute for Plant Sciences in Graz (GZU). The plant nomenclature is in accordance with Euro+Med (2006-), The Plant List (2013), Lakušić *et al.* (2013). For all taxa the major synonyms are also provided in parentheses.

Each location where plants were collected was geo-coded using a GPS device Garmin e-Trex Vista C. Apart from the information on the locality, the type of habitat and the number of individuals were estimated. Abbreviations used in the check list for marking certain types of habitats are the following:

akp - arid karst fields	pno - sand deposits along river banks
dep - landfills	pot - rock shelter
gaz - trampled habitats	pst - individual trees on pavement
gro - cemeteries	put - cracks and pavement curbs
kam - rocky terrain	rij - river
kan - channels	rik - river and channels
kor - rocky river banks	sik - scrub
kro - roofs	slj - gravel
liv - meadows	svp - spontaneous vegetation on the side of roads
nop - dikes along railroad tracks	tra - lawns
ork - channel and river banks	ulk - street channels
pas - park forests and parks	zao - neglected farmland
pkg - parking	zap - neglected urban spaces
pko - open-pit mines	zid - walls
pls - flooding habitats	ziv - hedges

For evaluating the number of individuals in certain types of habitats (lawns, treaded habitat, concrete planters, walls, roofs, railway lines, and meadows), the Wilmanns modified cover-abundance scale has been used (1989). The presence of a taxon in a certain type of habitat was evaluated according to a five-degree scale:

- I Taxon is present in the 0-20% of the surveys in a habitat,
- II Taxon is present in the 21-40% of the surveys in a habitat,
- III Taxon is present in the 41-60% of the surveys in a habitat,
- IV Taxon is present in the 61-80% of the surveys in a habitat,
- V Taxon is present in the 81-100% of the surveys in a habitat,

Plant life forms were defined in accordance with Ellenberg & Mueller-Dombois (1967) and Raunkiaer (1934), complemented and elaborated according to Stevanović (1992). Abbreviations used for the size of the above-ground part of the phanerophytes: N- nano < 2m, Mi-micro 2-5m, Mes- meso 5-50m, Meg-mega >50m. For the rest life forms: N- nano < 3cm, Mi-micro 3-10cm, Mes- meso 10-30cm, Mac- macro 30-60cm, Meg- mega 60-100cm, Alt- alt >1m).

Values of ecological indices have been taken from Pignatti (2005) and five basic indices have been considered: light- L, temperature- T, humidity- H, soil reaction- R and nitrogen quantity- N.

Native status of species and subspecies has been determined according to Meusel *et al.* (1965, 1978), Meusel & Jäger (1992), Pignatti (1982), Gajić (1980), Euro+Med (2006-). Data on the origin of alien species have been taken from Tutin *et al.* (1964-1980, 1993), Pignatti (1982), Pyšek *et al.* (2002) and Weber (2005) and the following abbreviations were used: AMN-North America, AMS-South America, AMC-Central America, AUSTR-Australia, E-Europe, AS-Asia and AFR-Africa. Abbreviation ADV, means alien, and kult, means "cultivation escape". Apart from the previously mentioned categories, urban flora also consists of anecophytes or obligate weeds (Scholtz 1991). These are plants that have coexisted with the human population since pre-historic times, for which their natural habitat is unknown. Such species are *Bromus*

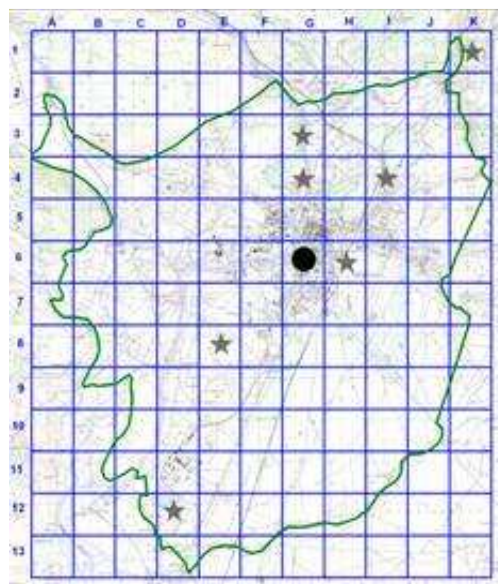
*hordeaceus*, *Capsella bursa-pastoris*, *Chenopodium album*, *Cynodon dactylon*, *Hordeum leporinum*, *Poa annua*, *Senecio vulgaris* and *Stellaria media* (Sukopp & Scholtz 1997). These species have been joined to the group of cosmopolitans (IX type, pro parte).

The hybrid taxon *Carex acuta* x *elata*, has been exempt from the analysis, so that the number included in the analysis is decreased by one. In order to achieve compatibility with the chorological data on the flora of Rome, Patras and Thessaloniki, chorologic classification according to Pignatti (1982) was used. Nine chorological types (areal types AT) are distinguished: I-Endemics, II-Steno-Mediterranean, III-Euri-Mediterranean, IV-Mediterranean-mountainous, V-Eurasian s.l., VI-Atlantic, VII-South European-mountainous, VIII-Boreal and IX-Widespread distribution.

The distribution of taxa (species and subspecies) in the study area of Podgorica were mapped using the programme MAP Info 8.0. As layer, the following maps were used: Titograd i.e. Podgorica east, Titograd i.e. Podgorica west and Vranjina (scale 1:25000), maps of the inner city area (scale 1:5000), and the satellite image of the area. As a basic layer, the scale 1:25000 was used. A kilometre grid was added, dividing the area into 107 quadrants of 1 square kilometer. Quadrants are marked with letters from A to K and numbers from 1 to 13. Presence of taxa in a quadrant is marked with puncturing. Except for bullets, asterisks and rhomb have also been used in mapping (Fig. 18, 19). The rhomb symbolises data derived from literature, unconfirmed in the field (Fig. 18), while a combination of a bullet and asterisk is used for marking the presence of a two subspecies on a common map. The first subspecies is marked with bullet and the second one with asterisk (Fig. 19).



**Figure 18.** Distribution map for *Medicago monspeliaca* (L.) Trautv. in the city area of Podgorica (unconfirmed literature data).



**Figure 19.** Distribution map for *Linaria genistifolia* subsp. *genistifolia* in the city area of Podgorica (black bullet) & *L. genistifolia* subsp. *dalmatica* (grey asterisk).

For taxa not recorded in the field [in the Check list are marked with (-)] and for which the literature derived data was not sufficient or accurate, no distribution maps were drawn. Quadrants belonging to the “Agrokombinat”, covered by vineyards and peach orchards (F11, F12, G10, G11, H9, H10, I9, J8, J9) were excluded from detailed mapping. The Atlas of all mapped taxa is presented in Appendix 1.

Based on own observations and literature data on plant behaviour towards urbanization, most of the taxa have been classified as urbanophobes, urbanoneutrals or urbanophile. Species for which we did not have sufficient data have not been assigned to any category. Wittig *et al.* (1985) define five categories of behaviour i.e. stenourbanophile, euriurbanophile, urbanoneutral, euriurbanophobe and stenourbanophobe. We have merged the first two and the last two categories and treated them as urbanophile or urbanophobe. The abbreviations for the categories are UFO-urbanophobe, UNE-urbanoneutral and UFI-urbanophile.

The results of the floristic study of the city area of Podgorica have been compared with similar studies on the city flora of Zurich (Landolt 2001), Vienna (Adler & Mrkvicka 2003), Rome (Celasti Grapow 1995), Patras (Chronopoulos & Christodoulakis 1996, 2000, 2003) and Thessaloniki (Krigas & Kokkini

2004, 2005). The comparative analysis of taxonomic spectra included all selected urban areas. The comparative analysis of the biological spectrum was not carried out for Vienna, due to lack of data regarding the life form of taxa. Vienna and Zurich were excluded in the chorological analysis due to lack of information or incompatibility of data.

Similarity index of different floras was calculated according to Sørensen (Magurran, 1988) as  $Cs = 2ab/(a+b)$ ,

where  $a$  is the number of taxa found in city A;  $b$  is the number of taxa in city B and  $ab$  is the number of taxa shared by the two cities.

The plant associations are identified during the habitat survey, using the approach of dominant species and vegetation structure (Braun-Blanquet 1964), while classification of urban habitats is accorded to Cvejić *et al.* (2007) and Schulte *et al.* (1993).

## Results and discussion

### Check list of the vascular flora of the city area of Podgorica

The latest Check list of the vascular plants of the city area of Podgorica contains 1222 taxa. After additional critical revision of the literature and herbarium data some taxa are excluded from the previous list (Stešević & Jovanović 2008), namely: *Alnus incana* (L.) Moench, *Asphodelus albus* Mill., *Edraianthus graminifolius* (L.) A. DC., *Fraxinus excelsior* L., *Minuartia verna* (L.) Hiern, and *Myricaria germanica* (L.) Desf. Due to the fact that ecological ambient of Podgorica does not suit to above mentioned taxa, we suppose that collectors mislabelled herbarium specimens and confused these species with *Alnus glutinosa*, *Asphodelus microcarpus*, *Edraianthus tenuifolius*, *Minuartia viscosa*, *Fraxinus oxycarpa*, and *Tamarix dalmatica* otherwise widespread in the area. Species *Athamanta ramosissima* Spreng. and *Crocus tommasinianus* Herb. are excluded because the record is given in the sence of Podgorica municipality (1441 km<sup>2</sup>), not the city area (86 km<sup>2</sup>). The list complemented with newly published data (Hadžiablahović, 2010), own field observations, data on biology, ecology and distribution of species and subspecies, is given in the following part of the study. In addition to the check list, the Atlas of the flora of Podgorica is given in [Appendix](#).

## PTERIDOPHYTA

### SPHAENOPSISIDA

#### EQUISETACEAE

*Equisetum arvense* L., a Meg-Alt G rhiz caesp; L6, Tx, H6, Rx, N3; at: VIII (circumbor); hab: vli-I, ork-I, pst-I, zap-I; UFO

Literature source: Bulić 1994:40 (Cijevna, humid habitats along the river).

*Equisetum ramosissimum* Desf., a Meg-Alt G rhiz caesp; L7, T7, H3, R7, N1; at: VIII (circumbor); hab: ork-I; nop-I; pot-I; UFO

Literature source: Rohlena 1902a: 35 (ad ripas rivi Ribnica prope Podgorica); Bulić 1994:40 (Cijevna, humid sands near the river).

*Equisetum telmateia* Ehrh. [syn. *E. maximum* auct.), a Meg-Alt G rhiz caesp; L5, T7, H8, R8, N5; at: VIII (circumbor); hab: ork-III; pot-II; UFO

Literature source: Rohlena 1905: 101 (An feuchten Stellen, Bachufer bei Podgorica).

### FILICOPSISIDA

#### ADIANTHACEAE

*Adiantum capillus-veneris* L., Mi-Mes G rhiz; L1, T8, H9, R5, N3; at: IX (pantrop); hab: pot-II; zid-I; UFO

Literature source: Rohlena 1902a: 35 (Podgorica).

*Cheilanthes persica* (Bory) Mett. ex Kuhn, Mi G rhiz; L8, T8, H2, R6, N1; at: IX (n.e med-turan); hab: pot-V; zid- II; kam- II; sik-I; UNE

Literature source: Rohlena 1902a: 36 (in fissuris rupium ad ripas fluvii Morača prope Podgorica); Janchen 1919: 81 (Zlatica); Stešević 2002: 17 (Gorica); Hadžiablahović 2010: 14 (Ržanički most).

### ASPLENIACEAE

*Asplenium adianthum-nigrum* L., semp Ch herb caesp; L6, T7, H4, R2, N3; at: IX (cosm); hab: sik-I; kam-I; UFO

Literature source: -

*Asplenium ceterach* L. [syn. *Ceterach officinarum* DC.], poik Ch herb caesp-semiros; L9, T7, H2, R7, N3; at: V (euras temp); hab: kam-V; pot-V; zid-V; UNE

Literature source: Rohlena 1902a: 35 (in fissuris rupium et murorum ubique frequens, Podgorica); Černjavski *et al.* 1949: 66 (Titograd); Bulić 1994:42 (Cijevna); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 15 (Kuće Rakića).

*Asplenium ruta-muraria* L., semp Ch herb caesp; L8, Tx, H3, R8, N2; at: VIII (circumbor); hab: kam-III; pot-III, zid-I; UFO

Literature source: Rohlena 1942: 10 (frequens)

*Asplenium trichomanes* L., Meg-Alt G rhiz; L5, Tx, H5, Rx, N4; at: IX (cosm); hab: kam-V; pot-V; zid-I; kor-I; UNE

Literature source: Rohlena 1902a: 36 (Podgorica); Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 15 (Kuće Rakića).

### DRYOPTERIDACEAE

*Dryopteris pallida* (Bory) C.Chr. ex Maire & Petitm. [syn. *D. villari* (Bellardi) Woyn. subsp. *pallida* (Bory) Heywood, *Aspidium rigidum* Sw.], Mes-Meg G rhiz; L9, T2, H5, R9, N0; at: III (med-or); hab: kam-I; UFO

Literature source: Rohlena 1905: 100 (Podgorica in wärmeren Lagen verbreitet) & 1912: 139 (in südlichen, wärmeren Teile Montenegros verbreitet).

### HYPOLEPIDIACEAE

*Pteridium aquilinum* (L.) Kuhn, Meg-Alt G rhiz; L6, T5, H6, R3, N3; at: IX (cosm); hab: ork-III; liv-II; zao-II; pot-II; kam-I; nop-I; pot-I; UFO

Literature source: Rohlena 1942: 8 (frequens); Černjavski *et al.* 1949: 67 (Vranići); Stešević 2002: 25 (Gorica); Hadžiablahović 2010: 14 (Dahna).

### POLYPODIACEAE

*Polypodium cambricum* L., semp Ch herb; L5, Tx, Hx, R2, Nx; at: VIII (circumbor); hab: kam-I; sik-I; pot-I; UFO

Literature source: Rohlena 1942: 8 (circa Podgorica); Bulić 1994:42; Hadžiablahović 2010: 14 (Kuće Rakića).

### WOODSIACEAE

*Athyrium filix-femina* (L.) Roth, Mes-Meg H ros; L3, T4, H5, R0, N5; at: IX (cosm); hab: kam-I; pot-I; sik-I; UFO

Literature source: -

## SPERMATOPHYTA

### GYMNOSPERMAE

#### CONIFEROPSIDA

### CUPRESSACEAE

*Cupressus sempervirens* L., ac semp Mes P scap; L7, T7, H3, Rx, N3; at: IX (ADV, kult, EAS); hab: kro-I; zap-I; pot-I; put-I; zid-I; kam-I; UFI

Literature source: Rohlena 1905: 86 (bei dem Kloster in Podgorica); Bulić 1994:44 (Ćemovsko polje); Stešević 2002: 22 (Gorica).

*Juniperus oxycedrus* L., ac semp Mi P caesp; L8, T8, H3, R0, N2; at: III (med-or); hab: kam-V; pot-III, akp-III; UFO

Literature source: Stešević 2002: 22 (Gorica).

**PINACEAE**

*Pinus halepensis* Mill., ac semp Mes P scap; L11, T10, H2, R0, N2; at: IX (ADV, kult, med); hab: nop-II; akp-I; dep-I; kor-I; kro-I; pkg-I; pot-I; put-I; pok-I; zap-I; zid-I; UFI  
Literature source: Bulić 1994:44 (Čemovsko polje); Stešević 2002: 28 (Gorica).

**GNETOPSIDA****EPHEDRACEAE**

*Ephedra foeminea* Forsk. [syn. *E. fragilis* Desf. subsp. *campylopoda* (C.A.Meyer) Asch. & Graebn.), semp S lig; L11, T8, H3, R0, N2; at: II (nw. med); hab: pot-IV; kor-III; sta-I, kam-I; sik-I; zid-I; UFO  
Literature source: Baldacci 1891a: 470 (lungo la Morača, in via per Podgoritza); Rohlena 1902a: 15 (in rupibus riparum fluvii Morača prope Podgorica); Janchen 1919: 83 (Mauern und Ruinen von Duklija); Pulević & Lakušić 1983 (Cijevna); Bulić 1994:44 (Kuće Rakića); Stešević 2002: 23 (Gorica); Hadžiablahović 2010: 16 (Sastavci).

**ANGIOSPERMAE****DICOTYLEDONES****ACANTHACEAE**

*Acanthus spinosus* L., a Mes-Meg H semiros; L7, T10, H3, R5, N4; at: II (stenomed-or); hab: kam-III; sik-III; kor-III; liv-II; pot-II; dep-I; svp-I, ziv-I; UFO  
Literature source: Rohlena 1942: 285 (Podgorica, Lješanska nahija); Stešević 2002: 17 (Gorica).

**ACERACEAE**

*Acer campestre* L., fo dec Mes P scap; L5, T7, H5, R7, N6; at: V (euro-kavk); hab: ork-IV, sik-II, pot-I, ziv-I; UFO

Literature source: Rohlena 1905: 33 (um Podgorica); Hadžiablahović 2010: 62 (Kuće Rakića).

*Acer dasycarpum* Ehrh., fo dec Mes P scap; L0, T0, H0, R0, N0; at: IX (ADV, AMN); hab: nop-I, zap-I, kro-I; UFI

Literature source: -

*Acer monspessulanum* L., fo dec Mes P scap; L6, T8, H3, R8, N4; at: III (eurimed); hab: ork-II, sik-II, ziv-I, nop-I, kam-I, pot-I, ziv-I; UFO

Literature source: Hadžiablahović 2010: 62 (Kuće Rakića).

*Acer negundo* L., fo dec Mes P scap; L8, T7, H5, R5, N5; at: IX (ADV, AMN); hab: zap-II, nop-I, pot-I, put-I, zid-I, kro-I, ork-I; UNE

Literature source: -

**AMARANTHACEAE**

*Amaranthus albus* L., a-aut Mes-Meg T scap; L9, T9, H3, Rx, N7; at: IX (ADV, AMN); zap-IV; pko-III; dep-III; svp-II; gaz-II; nop-II; kro-II; ulk-II; pno-II; slj-II; UNE

Literature source: Hadžiablahović 2010: 22 (Blok V).

*Amaranthus blitoides* S. Watson, a-aut Mes-Meg T rept; L9, T7, H3, Rx, N9; at: IX (ADV, AMN); hab: zap-III; pko-II; dep-II; nop-II; slj-II; pas-I; pno-I; svp-I; kro-I; put-I; UNE

Literature source: Slavnić & Ložušić 1965 (Titograd).

*Amaranthus cruentus* L., a-aut Mes-Meg T scap; L8, T8, H4, R6, N8; at: IX (ADV, AMS); hab: zap-I; svp-I; UFI

Literature source: Stešević & Jovanović 2005: 66 (Podgorica).

*Amaranthus deflexus* L., a-aut Mes-Meg H scap; L8, T8, H4, R6, N9; at: IX (ADV, AMS); zap-IV; pst-IV; ulk-IV; svp-III; pas-III; zid-I; nop-I; pno-I; UNE

Literature source: Rohlena 1902a: 12 (in lapidosis et locis apricis prope Podgorice); Hadžiablahović 2010: 23 (Podgorica, ruderalis).

*Amaranthus hybridus* L. [syn. *A. chlorostachys* Willd.), a-aut Mes-Meg T scap; L8, T8, H4, R6, N9; at: IX (ADV, AMS); hab: zap-IV; zao-III; dep-IV; svp-II; slj-II; pno-I; liv-I; UNE

Literature source: Stešević & Jovanović 2005: 66 (Podgorica).

*Amaranthus lividus* L., a-aut Mes-Meg T scap; L8, T8, H4, Rx, N8; at: IX (cosm); hab: zap-V; zao-III; svp-II; liv-II; slju-III; pno-II; UNE

Literature source: -

*Amaranthus powellii* S. Watson [syn. *A. bouchonii* Thell., *A. chlorostachys* auct., non Willd.), a-aut Mes-Meg T scap; L0, T0, H0, R0, N0; at: IX (ADV, AMN); hab: zap-I; UFI

Literature source: Stešević & Jovanović 2005: 66 (Podgorica).

*Amaranthus retroflexus* L., a-aut Mes-Alt T scap; L9, T9, H4, Rx, N9; at: IX (ADV, AMN); hab: zao-V; dep-V; ulk-V; zap-IV; svp-II; pas-II; pst-II; tra-II; put-II; zar-I; liv-I; UNE

Literature source: Hadžiablahović 2010: 22 (the left riverbank of Morača).

## ANACARDIACEAE

*Cotinus coggygria* Scop. [syn. *Rhus cotinus* L.], fo dec Mi P caesp; L7, T6, H3, R7, N2; at: V (s.euro-s.sib); hab: kam-I; sik-I; kor-I; UFO

Literature source: Rohlena 1904: 35 (auf der Lješanska nahija nächst Kokoti verbreitet); Šmarda 1968: 37 (Titograd- Morača canyon).

*Pistacia terebinthus* L., fo dec Mi P caesp/Pscap; L9, T8, H2, R7, N2; at: III (eurimed); hab: sik-V, kam-IV, kor-IV; UFO

Literature source: Rohlena 1912: 25 (Podgorica); Stešević 2002: 17 (Gorica); Hadžiablahović 2010: 62 (Kuće Rakića, Ržanički most).

## APIACEAE

*Ammoides pusilla* (Brot.) Breistr. [syn. *Ptychotis ammoides* W.D.J. Koch.), v-a Mes-Mac T scap; L7, T9, H2, R5, N2; at: II (stenomed); hab: pas-I; UFO

Literature source: Rohlena 1912: 47 (um Podgorica häufig an Wegen, steingen und buschigen Stellen).

*Anthriscus cerefolium* (L.) Hoffm., v-a Mes-Mac T scap; L6, T7, H5, Rx, N9; at: IX (ADV, kult, AS); hab: pot-II, zid-I; UFI

Literature source: Rohlena 1942: 53 (An Mauern und auf Ruderal-Orten in der Stadt Podgorica, wahrscheinlich verwildert).

*Berula erecta* (Huds.) Coville, a Mac-Alt HydG emer rhiz; L8, T6, H10, Rx, N7; at: IX (cosm); hab: kan-IV; UFO

Literature source: -

*Bunium alpinum* Waldst. & Kit. subsp. *montanum* (Koch) P.W. Ball [syn. *B. montanum* Koch), v-a Mes G bulb; L0, T0, H0, R0, N0; at: I (w.balk); hab: akp-V, kam-V, kor-IV, liv-III, pot-II, gro-I; UFO

Literature source: Rohlena 1905: 53 (auf Felsen bei Podgorica und Kokoti); Stešević 2002: 17 (Gorica); Hadžiablahović 2010: 69 (Dajbabska gora).

*Bupleurum baldense* Turra subsp. *gussonei* (Arcang.) Tutin [syn. *B. veronense* Turra), v-a Mi-Mes T scap; L0, T0, H0, R0, N0; at: III (eurimed); hab: akp-V, kam-V, kor-IV, liv-III, pot-II, gro-I; UFO

Literature source: Rohlena 1942: 213 (Podgorica); Stešević 2002: 17 (Gorica); Hadžiablahović 2010: 70 (Dajbabska gora, Dajbabe, Kuće Rakića, Ržanički most, Tološka šuma).

*Bupleurum praealtum* L., a Mac T scap; L6, T7, H4, R7, N3; at: V (s.e.ev); hab: sik-I, dep-I; UFO

Literature source: -

*Chaerophyllum coloratum* L., v-a Mes-Mac T scap; L0, T0, H0, R0, N0; at: I (ilir-adriat); hab: akp-III, kam-III, kor-II, liv-II, sik-II, pot-I; UFO

Literature source: Rohlena 1905: 53 (um Podgorica und Kokoti verbreitet); Stešević 2002: 17 (Gorica); Hadžiablahović 2010: 68 (Dajbabe).

*Coriandrum sativum* L., a Mes-Mac T scap; L8, T8, H3, R5, N2; at: IX (ADV, med-EAS); hab: zap-I.

Literature source: -

*Daucus carota* L. subsp. *carota*, a Meg H semiros bienn; L8, T6, H4, R5, N4; at: IX (cosm); hab: liv-V, zao-V, zap-V, kam-IV, gro-IV, akp-III, svp-III, zao-II, tra-III, pas-II, pno-II, kro-I; UNE

Literature source: Rohlena 1942: 230 (frequens); Bulić 1994: 105 (Čemovsko polje, Kuće Rakića, Srpska); Stešević 2002: 17 (Gorica).

*Daucus carota* L. subsp. *maximus* (Desf.) Ball. [syn. *D. maximus* Desf.), a Meg H semiros bienn; L0, T0, H0, R0, N0; at: III (eurimed); hab: liv-I, zap-I, pno-I; UFO

Literature source: -

*Daucus guttatus* Sibth. & Sm. [syn. *D. setulosus* Guss. ex DC.), a Mes-Mac T scap; L7, T9, H3, R5, N2; at: III (e.med); hab: liv-III, tra-II, akp-II, zap-I; UNE

Literature source: Horak 1900:161 (bei Podgorica), Rohlena 19012: 45 (steinige Stellen bei Podgorica) & 1942: 230 (in campo ad Podgorica).

*Eryngium amethystinum* L., a Mes-Mac H scap; L9, T7, H3, R8, N3; at: III (n.e.med); hab: akp-V, kam-V, liv-IV, nop-IV, kam-III, zap-II, gro-I; UNE

Literature source: Baldacci 1982: 106 (in agris et pratis planitiei Podgoricae); Rohlena 1942: 211 (Podgorica); Bulić 1994:101 (Čemovsko polje); Stešević 2002: 17 (Gorica); Hadžiablahović 2010: 68 (Kuče Rakića).

*Eryngium campestre* L., a Mes-Mac H scap; L9, T7, H3, R8, N3; at: III (eurimed); hab: akp-V, liv-IV, kam-III, kor-IV, nop-III, zap-II, svp-II, slj-II, dep-II, gro-I; UNE

Literature source: Rohlena 1942: 211 (circa Podgorica); Černjavski *et al.* 1949: 74 (Čemovsko polje); Bulić 1994: 101 (Čemovsko polje, Kuće Rakića, Srpska); Hadžiablahović 2010: 68 (Blok V).

*Eryngium creticum* Lam., a Mes-Meg H scap; L11, T7, H5, R7, N3; at: IX (e.med-turan); hab: liv-I, kor-I; UFO

Literature source: Baldacci 1892:539 (Lješkopolje).

*Ferulago campestris* (Besser) Grecescu, a Mac-Meg H scap; L7, T7, H4, R7, N2; at: V (s.e.europ-pont); hab: kor-III, pot-I, liv-I; UFO

Literature source: Bulić 1994: 104 (Kuče Rakića); Hadžiablahović 2010: 70 (Kuče Rakića).

*Foeniculum vulgare* Mill., a-aut Mac-Alt H scap; L9, T8, H3, R7, N7; at: III (j.med); hab: zap-V, svp-V, zao-IV, dep-IV, gro-III, liv-III, pas-II, kor-II, pst-I, put-I, kro-I, tra-I; UNE

Literature source: Rohlena 1912: 47 ( bei Podgorica); Hadžiablahović 2010: 69 (Kuče Rakića, Tološka šuma).

*Malabaila aurea* (Sibth. & Sm.) Boiss., v-a Mes-Mac H scap bienn; L0, T0, H0, R0, N0; at: I (balk); hab: liv-V, akp-IV, kam-IV, gro-IV, zap-III, kor-III, nop-III, pas-II, pot-II, tra-I, ulk-I; UNE

Literature source: Rohlena 1905: 52 (in Gebüsch und Weingärten um Podgorica verbreitet).

*Myrrhoides nodosa* (L.) Cannon [syn. *Physocaulis nodosa* (L.) W.D.J. Koch], v Mac-Meg T scap; L6, T8, H4, R7, N4; at: II (stenomed); hab: sik-III, pot-II, liv-I; UFO

Literature source: Rohlena 1905: 53 (bei Podgorica, Kokoti); Hadžiablahović 2010: 68 (Srpska).

*Oenanthe pimpinelloides* L. [syn. *O. incrassans* Bory & Chaub), a Mac-Meg H scap; L5, T7, H4, R5, N4; at: VI (med-atl); hab: vli-IV, sik-III, pno-III, pot-III, liv-II, pas-II, svp-I, nop-I, slj-I; UFO

Literature source: Rohlena 1942: 220 (Mosor pr. Podgorica); Hadžiablahović 2010: 68 (Podgorica).

*Oenanthe fistulosa* L., v Mes-Mac H scap; L7, T7, H9, R7, N5; at: V (euras); hab: kan-I; UFO

Literature source: -

*Opopanax chironium* (L.) Koch., a Alt H scap semiros; L7, T8, H4, R5, N3; at: II (stenomed); hab: kor-II, pot-I, nop-I; UFO

Literature source: Rohlena 1902a: 22 (in pratis aridis, collibus apricis ad Podgorica versus Kakaricka gora).

*Orlaya grandiflora* (L.) Hoffm., a Mes-Meg T scap; L7, T6, H3, R7, N6; at: V (j.c.eu); hab: liv-V, gro-IV, akp-III, kam-III, kor-III, svp-II, pas-II, tra-II, dep-II; UNE



Literature source: Černjavski *et al.* 1949: 74 (Titograd, Ribnica); Bulić 1994: 105 (Ćemovsko polje, Kuće Rakića, Srpska); Hadžiablahović 2010: 71 (Dajbabe, Ržanički most).

*Pastinaca sativa* L., a Mac-Meg H scap bienn; L8, T6, H4, R8, N5; at: IX (subcosm); hab: zap-I, pot-I  
Literature source:: Hadžiablahović 2010: 71 (Dajbabe).

*Petroselinum crispum* (Mill.) A.W.Hill [syn. *P. hortense* auct., *P. sativum* Hoffm.), a Mes-Mac H semiros; L0, T0, H0, R0, N0; at: IX (ADV, kult, EAS); hab: zap-I  
Literature source: Rohlena 1942: 214 (in hortis cultum).

(-) *Peucedanum alsaticum* L., a-aut Meg-Alt H scap; L0, T0, H0, R0, N0; at: V (j.z.ev); UFO  
Literature source: Rohlena 1942: 226 (Podgorica).

*Peucedanum coriaceum* Rchb., a-aut Mes-Mac H semiros; L7, T6, H7, R7, N4; at: I (ilir); hab: pno-I, vli-III; UFO  
Literature source: -

*Pimpinella major* (L.) Huds., a Mac-Meg H scap; L7, Tx, H6, R7, N7; at: V (euro-kavk); hab: pno-II, vli-II, ork-I, pot-I, slj-I; UFO  
Literature source: -

*Pimpinella peregrina* L., a Mac-Meg H scap bienn; L7, T8, H3, R5, N2; at: III (eurimed); hab: liv-III, sik-II, zap-I, kor-I, nop-I, svp-I, akp-I; UFO  
Literature source: Rohlena 1912: 49 (wüste Stellen bei Podgorica) & 1942: 217 (in campo ad Podgorica); Hadžiablahović 2010: 68 (Kučé Rakića).

*Pimpinella saxifraga* L., a Mes-Mac H semiros; L7, Tx, H3, Rx, N2; at: V (euro-kavk); hab: sik-III, liv-II, kor-II, pot-II, pas-I, kam-I, liv-I; UFO  
Literature source:: -

*Scandix pecten-veneris* L, v Mi-Mes T semiros; L7, T7, H3, R8, N4; at: IX (subcosm); hab: liv-V, pot-V, kor-IV, gro-III, kam-III, pas-III, svp-III, nor-II, pst-II, dep-II, tra-II, put-II, slj-I; UNE  
Literature source: Rohlena 1905: 53 (bei Podgorica verbreitet); Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 66 (Dajbabska gora, Dajbabe, KBC, Kuće Rakića, Tološka šuma).

*Seseli globiferum* Vis., a-aut Meg-Alt H semiros; L0, T0, H0, R0, N0; at: I (ilir-adriat); hab: kor-II, kam-I; UFO  
Literature source: -

*Seseli montanum* L. subsp. *tommasinii* (Rchb. fil.) Arcang. [syn. *Seseli tommasini* Rchb.), a-aut Mac-Meg H semiros; L7, T7, H3, R7, N2; at: I (ilir-adriat); hab: kam-IV, akp-IV, liv-IV, gro-IV, kor-IV, pas-IV, sik-III, nop-II, tra-II, zap-II, svp-I, pkg-I, pst-I; UNE  
Literature source: Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 68 (Dajbabe-Srpska, Kuće Rakića, Ržanički most).

*Smyrniium perfoliatum* L, v Mac-Meg H scap; L6, T8, H4, R5, N7; at: III (eurimed); hab: sik-II, kor-I, pas-I, pot-I, liv-I, kam-I; UFO  
Literature source: Rohlena 1905: 55 (bei Podgorica nicht selten).

*Tordylium apulum* L., n-v Mes-Mac T scap; L11, T9, H2, Rx, N2; at: II (stenomed); hab: akp-V, gro-V, kam-V, liv-V, zao-V, zap-V, pas-V, tra-V, svp-V, zid-V, dep-IV, pst-IV, sik-IV, pok-IV, gst-III, pkg-III, pno- III, ziv-III; UNE

Literature source: Bulić 1994: 104 (Ćemovsko polje, Kuće Rakića); Černjavski *et al.* 1949: 74 (Ćemovsko polje); Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 71 (Ćemovsko polje, Tološka šuma, Tuški put).

*Tordylium maximum* L., a Mac T scap; L7, T8, H3, R5, N3; at: III (eurimed); hab: liv-II, pot-I, zap-I, UFO  
Literature source: Rohlena 1902a: 22 (in rudertis, lapidosis et ad sepes in campo ad Podgorica c.30m); Hadžiablahović 2010: 71 (Tuška pjaca).



*Torilis arvensis* (Huds.) Link, v-a Mes-Mac T scap; L7, T8, H4, R7, N6; at: IX (cosm); hab: liv-IV, kam-II, zap-II, sik-II, tra-II, gro-II, akp-II, pot-II, nop-I, dep-I, ulk-I; UNE

Literature source : Höpflinger 1964 (Podgorica); Bulić 1994: 104 (Ćemovsko polje, Kuće Rakića); Hadžiablahović 2010: 71 (Blok V, Tološka šuma).

(-) *Torilis japonica* (Houtt.) DC. [syn. *T. anthiriscus* (L.) C.G. Gmelin, non Gaertn.], v-a Mes-Mac T scap; L6, T6, H5, R8, N8; at: IX (subcosm)

Literature source: Černjavski *et al.* 1949: 74 (Vranići).

*Torilis nodosa* (L.) Gaertn., v-a Mes-Mac T scap; L7, T8, H4, R7, N6; at: IX (eurimed-turan); hab: kam-II, liv-II, zap-II, pas-II, akp-II, sik-II; UFO

Literature source: Rohlena 1905: 52 (um Podgorica verbreitet); Bulić 1994: 105 (Srpska, Kuće Rakića); Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 71 (Dajbabe, Kuće Rakića, Ržanički most, Tološka šuma).

## ARALIACEAE

*Hedera helix* L., semp S lig; L4, T5, H5, Rx, Nx; at: VI (med-atl); hab: pot-IV; zid-I; UNE

Literature source: Bulić 1994: 100 (Kuče Rakića); Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 68 (Kuče Rakića, most Braće Zlatičanin).

## ARISTOLOCHIACEAE

*Aristolochia clematitis* L., v Mes-Meg G rad scap; L6, T7, H4, R8, N8; at: III (submed); hab: pno-V; vli-V; svp-II; ziv-II; gro-I; UFO

Literature source: Rohlena 1942: 58 (Podgorica, Kokoti); Bulić 1994: 51 (Srpska); Hadžiablahović 2010: 20 (Kuče Rakića, Morača the left riverbank).

*Aristolochia rotunda* L., v Mes G bulb; L6, T7, H4, R6, N3; at: III (eurimed); hab: pno-V; vli-V; svp-I; UFO

Literature source: Rohlena 1905: 82 (bei Podgorica)& 1942: 58 (Podgorica, Kokoti); Bulić 1994: 51 (Srpska); Hadžiablahović 2010: 20 (Kuče Rakića).

## APOCINACEAE

*Nerium oleander* L. fo semp Mi P caesp; L11, T11, H7, Rx, N3; at: IX (ADV, kult, med-EASAF); hab: dep-I, nop-I, pot-I, put-I, pko-I, svp-I, kro-I, zap-I; UNE

Literature source: -

*Vinca major* L., a Mes-Meg Ch suffr caesp rept; L6, T7, H4, R5, N3; at: IX (ADV, kult, med-EAS); hab: ziv-I, svp-I, zid-I, dep-I, pot-I, kam-I; UFI

Literature source: -

*Vinca minor* L., a Mes-Mac Ch suffr caesp rept; L4, T6, H5, Rx, N6; at: IX (ADV, kult, E); hab: zid-I, pot-I; UFO

Literature source: Hadžiablahović 2010: 74 (Sastavci).

## ASCLEPIADACEAE

*Asclepias syriaca* L., a Meg-Alt G rhiz scap; L7, T7, H6, R5, N4; at: IX (ADV, AMN); hab: pls-II, dep-I

Literature source: Stešević & Jovanović 2005: 66 (Podgorica).

(-) *Cionura erecta* (L.) Griseb. [syn. *Cynanchum erectum* L., *Marsdenia erecta* (L.) R.Br.], H scap; L0, T0, H0, R0, N0; at: III (egej-w.balk)

Literature source: Blečić & Pulević 1979 (Kakaricka gora).

*Vincetoxicum huteri* Vis. & Asch. [syn. *Cynanchum huteri* (Vis. & Asch.) K. Schum.], v-a Mes-Mac H scap; L0, T0, H0, R0, N0; at: I (ilir-adriat); hab: sik-III, kam-II, ziv-II, liv-I, nop-I, kor-I; UFO

Literature source: Baldacci 1904: 70 (Podgorica); Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 75 (Kuče Rakića, Tološka šuma).

## ASTERACEAE

*Achillea millefolium* L., v-a Mes-Mac H semiros; L8, Tx, H4, Rx, N5; at: VIII (eurosib); hab: liv-II; svp-II; zao-II; dep-II; gro-II; put-I; tra-I; sik-I; pot-I; UNE

Literature source: Bulić 1991: 141 (Kuće Rakića); Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 102 (Blok V, Kuće Rakića).

*Achillea nobilis* L., v-a Mes-Mac H semiros; L8, T7, H4, R8, N1; at: V (s.euro-sib); hab: kam-II; akp-II; nop-II; liv-II; tra-I; UNE

Literature source: Rohlena 1902a: 24 (in locis apricis ad Farmaki prope Podgorica c. 50m) & 1942: 367 (Podgorica); Černjavski 1949: 79 (Kruševac).

*Achillea setacea* Waldst. & Kit. [syn. *A. millefolium* subsp. *setacea* (Waldst. & Kit.) Čelak.], v-a H scap; L7, T7, H2, R7, N1; at: V (se.euro)

Literature source: Hadžiablahović 2010: 102 (Tološka šuma).

*Aetheorhiza bulbosa* (L.) Cass. [syn. *Crepis bulbosa* (L.) Tausch], v-a Mes G bulb; L7, T8, H3, R5, N3; at: II (stenomed); hab: pas-I; UFO

Literature source: -

*Ambrosia artemisiifolia* L., a-aut Mes-Meg T scap; L9, T7, H2, Rx, N1; at: IX (ADV, AMN); hab: slj-IV; nop-III; zap-II; akp-I; liv-I; pot-I, dep-I; UNE

Literature source: Stešević *et al.* 2013: 19 (along the railways, roadsides and on gravel deposits along Morača River).

*Anthemis arvensis* L. subsp. *arvensis*, v-a Mes-Mac T scap/H bienn; L7, T6, H4, R3, N6; at: IX (cosm); hab: liv-V; zao-V; gro- Ivkro-IV; svp-IV; kam-III; pas-III; dep-II; gst-II; nop-II; tra-II; pkg-I; pst-I; UNE.

Literature source: Rohlena 1942: 365 (Podgorica); Černjavski *et al.* 1949: 79 (Čemovsko polje); Bulić 1991: 141 (Čemovsko polje); Stešević 2002: 18 (Gorica).

*Anthemis arvensis* L subsp. *incrassata* (Loisel.) Nyman [syn. *A. incrassata* Loisel.), v-a Mes T scap; L0, T0, H0, R0, N0; at: III (c.e.med); hab: akp-II; kam-II; kor-II; pot-I; UFO

Literature source: Rohlena 1912 : 57 (in lapidosis planitiei Podgoricensis); Hadžiablahović 2010: 101 (Dajbabe, Tološka šuma).

(-) *Anthemis cotula* L., a Mes T scap; L7, T7, H4, Rx, N5; at: III (eurimed)

Literature source: Rohlena 1902a: 24 (in arvis ad Podgorica) & 1942: 365 (Podgorica); Stešević 2002: 18 (Gorica).

*Arctium lappa* L., a-aut Mes-Mac Alt H scap bienn; L9, T5, H5, R7, N9; at: V (euras); hab: svp-I; zap-I; UNE

Literature source: Stešević 2002 (Gorica).

*Arctium minus* Bernh., v Mac-Alt H scap; L11, T5, H5, R8, N9; at: V (euro); hab: svp-II; slj-II, liv-I, zap-I, UNE

Literature source: Hadžiablahović 2010: 104 (Čepurci, Kuće Rakića).

*Artemisia absinthium* L., a-aut Mac-Alt Ch suffrut; L9, T6, H4, Rx, N8; at: IX (cosm); hab: nop-I; zap-I; svp-I; UNE

Literature source: -

*Artemisia alba* Turra [syn. *A. lobelii* All.), a-aut Meg Ch suffrut caesp; L9, T5, H3, R7, N2; at: V (s.eu); hab: akp- I; kor-I; nop-I; UFO

Literature source: Bulić 1991: 143 (Kuće Rakića); Hadžiablahović 2010: 102 (Kuće Rakića).

*Artemisia annua* L., a-aut Mac-Alt T scap; L7, T7, H3, R5, N1; at: IX (ADV, AS); hab: akp-V; dep-V; zao-V; pas-V; nop-IV; gro-V; kam-III; liv-III; slj-III; pkg-II; put-II; kro-II; zar-II; UNE

Literature source: Rohlena 1905: 60 (längst der Strasse von Podgorica nach Plavnica nich selten) & 1912: 60 (nördlich von Podgorica); Hadžiablahović 2010: 103 (Blok V).

*Artemisia campestris* L., a-aut Mes-Alt Ch suffrut; L9, T6, H3, R5, N2; at: VIII (circumbor); hab: akp-I; svp-I; nop-I; UFO

Literature source: Hadžiablahović 2004: 10 (Ržanički most).

*Artemisia verlotiorum* Lamotte, a-aut Meg-Alt H scap; L7, T7, H7, R5, N5; at: IX (ADV, AS); hab: zao-V; nop-V; zap-V; dep-V; svp-V; pno-IV; gro-III; slj-I; UNE

Literature source: Stešević & Jogan 2006: 173 (Podgorica).

*Artemisia vulgaris* L., aut Meg-Alt H scap; L9, T7, H4, Rx, N5; at: VIII (circumbor); hab: zap- III; pot- III; svp- III; zao-II; nop-II; dep-II; pit-I; par-I; UNE

Literature source: Rohlena 1905: 60 (an Bachufer, in Gebüsch bei Podgorica verbreitet); Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 103 (Blok V).

*Bellis perennis* L., n-a Mes H ros; L9, T5, Hx, Rx, N5; at: V (euro-kavk); hab: liv-V; tra-V; gaz-V; gro-V; pas-V; kam-IV; zao-III; zap-II; svp-II; pkg-II; pst-I; dep-I; put-I; zar-I; UNE

Literature source: Rohlena 1942: 356 (frequens); Bulić 1991: 139 (Srpska, Kuće Rakića); Stešević 2002 (Gorica); Hadžiablahović 2010: 98 (Podgorica).

*Bidens bipinnata* L., a-aut Mac-Meg T scap; L7, T7, H9, R7, N8; at: IX (ADV, AMS); hab: pno-II; slj-II; UNE

Literature source: -

*Bidens frondosa* L., a-aut Mac-Alt T scap; L7, T7, H9, R7, N8; at: IX (ADV, AMN); hab: pno-III; slj-II; pls-II; UNE

Literature source: Stešević & Jovanović 2005: 67 (Podgorica).

*Bidens subalternans* DC., a-aut Meg-Alt T scap; L0, T0, H0, R0, N0; at: IX (ADV, AMS); hab: zap-V; dep-V; nop-IV; pno-III; gro-III; ulk-III; svp-III; kro-II; zao-III; pko-III; put I; akp-I; zar-I; pkg-I; UNE

Literature source: -

*Bombycilaena erecta* (L.) Smoljan, v-a Mi T scap; L9, T9, H1, R9, N0; at: V (s.euro-s.sib); hab: akp-III; kor-II; liv-II; UFO

Literature source: Černjavski *et al.* 1949: 78 (Čemovsko polje).

*Calendula arvensis* L., a-aut Mes-Mac T scap/H bienn; L7, T8, H3, R8, N5; at: III (eurimed); hab: dep-I; zap-I; svp-I; UFI

Literature source: -

*Calendula officinalis* L., a-aut Mes-Mac T scap/H bienn; L8, T7, H4, R5, N4; at: IX (ADV, kult, med-E); hab: zap-I; svp-I; UFI

Literature source: -

*Carduus acanthoides* L., a Meg-Alt H scap bienn; L9, T5, H3, Rx, N8; at: V (euro-kavk); hab: zao-IV; liv-III; svp-II; dep-II; akp-II; gro-I; UFO

Literature source: Rohlena 1942: 381 (Podgorica).

*Carduus candicans* Waldst. & Kit. [syn. *C. collinus* Waldst. & Kit.], a Mac-Meg H scap bienn; L0, T0, H0, R0, N0; at: V (se. euro); hab: liv-II; kam-I; sik-I; pas-I; akp-I; UFO

Literature source: Rohlena 1902a: 26 (in campo Lješkopolje ad Podgorica) & 1905: 63 (bei Farmaki nächst Podgorica); Hadžiablahović 2010: 104 (Univerzitet).

*Carduus nutans* L. subsp. *nutans*, a Mac-Alt H scap bienn; L8, Tx, H3, R8, N6; at: V (w. euro); hab: liv: II, kam: I, UNE

Literature source: Rohlena 1905: 62 (bei Podgorica verbreitet); Stešević 2002 (Gorica), Hadžiablahović 2010: 104 (Kuče Rakića).

*Carduus nutans* L. subsp. *micropterus* (Borbás) Hayek [syn. *C. micropterus* (Borbás) Teyber], a Mac-Meg H scap bienn; L7, T6, H3, R6, N6; at: III (n.med); hab: liv-V; kam-V; zao-V; pas-V; akp-IV; gro-IV; svp-IV; pko-II; pot-II; tra-II; dep-II; zap-II; UNE

Literature source: Rohlena 1942: 380 (Podgorica, Kokoti); Hadžiablahović 2010: 104 (Tuški put).

*Carduus nutans* L. subsp. *leiophyllus* (Petrović) Stoj. & Stef. [syn. *Carduus thoermeri* Weinm.], v-a H scap bien; L7, T6, H3, R6, N6; at: V (se. euro), hab: liv-V, kam-V, zao-V, pas-V, akp-IV, gro-IV, svp-IV, pko-II, pot-II, tra-II, dep-II, zap-II; UNE

Literature source: Hadžiablahović 2009: 104 (Kruševac).

*Carduus pycnocephalus* L., a Mes-Meg H scap bienn/T scap; L7, T8, H3, Rx, N3; at: IX (eurimed-turan); hab: pas-V; ap-V; dep-V; liv-IV; svp-IV; zao-IV; pot-IV; ulk-IV; nop-III; pst-III; akp-II; gaz-II; pno-II; put-II; sik-II; slj-II; pko-II; tra-II; pkg-I; UNE

Literature source: Rohlena 1905: 63 (Steinige wüste Stellen bei Podgorica); Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 104 (Podgorica).

*Carlina corymbosa* L., a Mes-Meg H scap; L6, Tx, H2, Rx, N4; at: II (stenomed); hab: akp-V; kam-V; liv-IV; gro-IV; zop-IV; pko-III; dep-II; zao-II; pot-II; svp-II; UNE

Literature source: -

*Carlina vulgaris* L., a Mes-Mac H scap; L7, T6, H9, Rx, N3; at: VIII (eurosib)

Literature source: Baldacci 1894: 97 (in dumetis ultra Podgoritza versus Medun)

*Carthamus lanatus* L., a Mes-Mac T scap; L11, T8, H3, R5, N6; at: III (eurimed); hab: liv-IV; kam-IV; akp-III; nop-III; gro-III; dep-II; zap-II; kor-II, pko-II; UNE

Literature source: Černjavski *et al.* 1949:79 (Momišići, Titograd); Bulić 1991: 147 (Kuće Rakića); Stešević 2002 (Gorica); Hadžiablahović 2010: 107 (Blok V, Tološka šuma).

*Centaurea deusta* Ten. [syn. *C. alba* L. subsp. *deusta* (Ten.) Nyman, *C. alba* var. *concolor* DC., *C. deusta* subsp. *splendens*, *Centaurea alba* L. subsp. *splendens* (L.) Arcang., *C. splendens* L., *C. deusta* Ten. subsp. *concolor* (DC.) Hayek.], a-aut Mes-Mac H scap bienn; L7, T5, H3, R7, N2; at: I (apen-balk); hab: kam-V, liv-V, akp-IV, gro-IV, nop-II, svp-III, pas-II, pkg-II, pst-I; UNE

Literature source: Malý 1933 (bei Podgorica); Černjavski *et al.* 1949: 79 (Titograd, Momišići); Bulić 1991: 146 (Čemovsko polje, kuće Rakića); Stešević 2002 (Gorica); Hadžiablahović 2009: 106 (Tološka šuma).

*Centaurea calcitrapa* L., a Mes-Meg H scap bienn; L11, T9, H3, Rx, N5; at: IX (subcosm); hab: zap-IV; gro-III; kam-III; liv-III; svp-III, akp-II; dep-II; nop-II; pas-II; pkg-II; tra-II; put-I; ulk-I; UNE

Literature source: Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 106 (Podgorica).

*Centaurea jacea* L. subsp. *weldeniana* (Rchb.) Greuter, [syn. *Centaurea weldeniana* Reichenb.] a Mes-Meg H scap; L6, T6, H4, R7, N3; at: IV (med-mont); hab: liv-III, akp-II, nop-II, svp-II, kor-II, pko-I, kam-I, gro-I, pot-I, tra-I, slj-I; UNE

Literature source: Stešević 2002: 19 (as *Centaurea jacea*, Gorica); Hadžiablahović 2009: 106 (Kruševac).

*Centaurea nicolai* Bald., a Mes-Mac H scap; L0, T0, H0, R0, N0; at: I (ilir); UFO

Literature source: Pulević & Lakušić 1983: (Cijevna); Bulić 1994: 146 (Kuće Rakića, Čemovsko polje).

*Centaurea solstitialis* L., a-aut Mes-Mac T scap; L11, T9, H3, Rx, N5; at: IX (cosm); hab: liv-V; akp-IV; gro-IV; zap-IV; gaz-III; kam-III; pkg-III; dep-II; zao-II; nop-II, pas-II; pot-II, put-I; tra-I; ulk-I; UNE

Literature source: Černjavski *et al.* 1949:79 (Vranići); Stešević 2002: 19 (Gorica).

(-) *Chamaemelum nobilis* (L.) All. [syn. *Anthemis nobilis* L.], a-aut Mi-Mes H scap; L0, T0, H0, R0, N0; at: VI (med-atl)

Literature source: Rohlena 1902a: 94 (in locis apricis ad Farmaki prope Podgorica c. 50m) & 1942: 367 (Podgorica).

*Chondrilla juncea* L., a-aut Mac-Alt H scap; L8, T7, H3, R8, Nx; at: V (s.euro-s.sib); hab: liv-V; kam-V; zap-V; svp-V; gro-IV; akp-IV; nop-III; par-III; pst-III; pko-III; put-II; pas-II; tra-II; ulk-II; UNE

Literature source: Rohlena 1912: 65 (Podgorica); Bulić 1991: 149 (Čemovsko polje); Stešević 2002: 19 (Gorica).

*Cichorium intybus* L., a-aut Mac-Meg H scap; L9, T6, H3, R8, N5; at: IX (cosm); hab: liv-V; zap-V; zao-V; gro-V; akp-IV; kam-IV; pas-IV; tra-IV; svp-IV; gaz-III; nop-III; pkg-II; ulk-II; put-I; UNE

Literature source: Rohlena 1942: 392 (frequens); Černjavski *et al.* 1949: 79 (Titograd); Bulić 1991: 147 (Čemovsko polje, Kuće Rakića); Stešević 2002: 19 (Gorica).

*Cichorium pumilum* Jacq. syn. *Cichorium endivia* L. subsp. *divaricatum* (Schousb.) P.D. Sell], a Mac H scap; L0, T0, H0, R0, N0; at: II (stenomed); hab: zap-I

Literature source: -

*Cirsium arvense* (L.) Scop., a Mac-Alt G rad scap; L8, Tx, H4, Rx, N7; at: IX (cosm); hab: liv-II; zao-II; nop-II; svp-I; vli-I; pko-I; slj-I; pno-I; UNE

Literature source: Stešević 2002: 19 (Gorica).

*Cirsium candelabrum* Griseb., a Meg-Alt H scap bienn; L0, T0, H0, R0, N0; at: I (balk); hab: svp-I; slj-I; UFO

Literature source: Baldacci 1892: 111 (prope Velje Brdo agro Podgorica); Rohlena 1942: 385 (Velje brdo pr. Podgorica).

*Cirsium ligulare* Boiss., a Alt H scap bienn; L0, T0, H0, R0, N0; at: I (submesian); hab: kam-II; sik-II; pas-II; liv-II; akp-II; zap-II; vli-II; UNE

Literature source: Rohlena 1942: 382 (Podgorica).

*Cirsium vulgare* (Savi) Ten. [syn. *C. lanceolatum* (L.) Scop., non Hill.], a Mac-Meg H scap bienn; L8, T5, H5, Rx, N8; at: IX (cosm); hab: liv-III; kor-II; svp-I; vli-II; pas-I; UNE

Literature source: Rohlena 1912: 77 (bei Podgorica verbreitet); Bulić 1991: 145 (Ćemovsko polje, Kuće Rakića, Srpska).

*Cota austriaca* (Jacq.) Sch. Bip. [syn. *Anthemis austriaca* L., *A. coniformis* Velen], a Mes T scap; L8, T7, H3, R9, N5; at: V (se. euro)

Literature source: Hadžiablahović 2010: 102 (Tološka šuma).

*Cota segetalis* (Ten.) Holub [syn. *Anthemis segetalis* Ten., *A. brachycentros* Gay. ex W.D.J. Koch, *A. brachycentros* Asch.], a Mes T scap; L7, T8, H3, R5, N2; at: V (se. euro); stip: kro-II, liv-II, zao-II, akp-I, svp-I, nop-I; UNE

Literature source: -

(-) *Cota triumfettii* (L.) J. Gay [syn. *Anthemis triumfettii* (L.) DC.], a Mes-Mac H scap; L8, T6, H3, R3, N2; at: V (s.eu)

Literature source: Rohlena 1903: 38 (auf Hügeln bei Podgorica c. 50m).

*Crepis foetida* L., a-aut Mes-Mac H semiros bienn; L11, T9, H2, Rx, N2; at: III (eurimed); hab: kam-V; kor-V; pot-V; akp-IV; liv-IV; kro-III; svp-II; zao-I; pko-I; UNE

Literature source: Rohlena 1905: 67 (trockene Grasplätze bei Podgorica); Stešević 2002 (Gorica).

*Crepis neglecta* L., a Mes-Mac T semiros bienn; L7, T6, H4, R6, N3; at: III (eurimed); hab: akp-V; liv-V; kam-V; gro-V; pas-IV; zao-III; dep-II; gaz-II; kro-II; zap-II; put-I; pkg-I; tra-I; ulk-I; UNE

Literature source: Rohlena 1902a: 2 (Kokoti); Hadžiablahović 2010: 111 (Dajbabska gora, Kuće Rakića, Tološka šuma, Tuški put).

*Crepis sancta* (L.) Bab. [syn. *Lagoseris sancta* (L.) K Maly, *L. bifida* (Vis.) Koch., *Trichopteris bifida* Vis.], n-a Mes T semiros; L11, T9, H2, Rx, N2; at: IX (eurimed-turan); hab: akp-V; liv-V; kam-V; kor-V; gro-V; zao-V; zap-V; pas-V; svp-V; gaz-III; pkg-III; pst-III; dep-III; put-II; kro-II; nop-II; sik-II; ulk-I; UNE

Literature source: Rohlena 1902b: 2 (Podgorica); Černjavski *et al.* 1949:80 (Ćemovsko polje); Bulić 1991: 150 (Ćemovsko polje, Kuće Rakića, Srpska); Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 111 (Dajbabe, Podgorica).

*Crepis setosa* Haller fil., a Mes-Mac T semiros; L11, T9, H2, R8, N2; at: III (eurimed-or); hab: kam-V; kro-V; akp-IV; liv-IV; gro-IV; dep-II; gaz-II; zap-II; pst-II; pko-II; nop-II; ulk-II; zao-I; UNE

Literature source: Rohlena 1902b: 2 (in pratis regionis inferioris, ad Podgorica); Černjavski *et al.* 1949:80 (Ćemovsko polje, Titograd); Bulić 1991: 150 (Ćemovsko polje); Hadžiablahović 2010: 111 (Tološka šuma).

*Crepis vesicaria* L. subsp. *vesicaria*, v Mac-Meg H semiros; L8, T8, H3, R6, N2; at: VI (med-atl); hab: tra-I; UNE

Literature source: -

*Crepis vesicaria* L. subsp. *haenseleri* (Boiss. ex DC.) P.D. Sell [syn. *Crepis taraxacifolia* Thuill.], a Mes-Mac T semiros/H bienn; L0, T0, H0, R0, N0; at: VI (med-atl); hab: liv-I; kor-I; UNE

Literature source: Rohlena 1905: 67 (bei Podgorica nicht häufig); Hadžiablahović 2010: 111 (Tološka šuma, Tuški put).

*Crepis zacynthia* (L.) Bab. [syn. *Zacynthia verrucosa* Gaertn.], v-a Mes T semiros; L11, T9, H2, Rx, N2; at: II (stenomed); hab: kam-III; akp-III; kor-II; liv-I; UFO

Literature source: Rohlena 1905: 67 (bei Podgorica); Černjavski *et al.* 1949:79 (Ćemovsko polje); Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 111 (Dajbabska gora, Dajbabe, Ržanički most, Tuški put).

*Crupina vulgaris* Cass., v-a Mes T scap; L11, T8, H2, R6, N2; at: III (eurimed); hab: kam-III; akp-III; liv-II; kor-II; pas-I; UFO

Literature source: Rohlena 1905: 64 (bei Podgorica c. 30m); Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 106 (Dajbabska gora, Ržanički most).

*Cyanus segetum* Hill. [syn. *Centaurea cyanus* L.], a Mes-Mac T scap; L7, Tx, Hx, R4, N3; at: IX (subcosm); stip: tra-I

Literature source: -

*Dittrichia graveolens* (L.) W. Greuter [syn. *Inula graveolens* (L.) Desf.], a-aut Mes-Mac T scap; L11, T8, H3, R7, N7; at: IX (eurimed-turan); hab: pko-III; slj-II; zap-II; kor-II; dep-I; akp-I, gro-I; nop-I; UNE

Literature source: -

*Dittrichia viscosa* (L.) W. Greuter [syn. *Inula viscosa* (L.) Aiton], a-aut Mac-Alt H scap; L11, T8, H3, R7, N9; at: III (eurimed); hab: svp-III; gro-III; nop-III; zap-III; dep-III; vli-III; pko-III; slj-III; kam-III; pno-II; kor-I; akp-I; kro-I; pkg-I; tra-I; UNE

Literature source: Bulić 1991: 140 (Srpska, Ćemovsko polje, Kuće Rakića).

*Erigeron annuus* (L.) Pers. s.l. [syn. *Stenactis annuua* (L.) Less.], a-aut Mac-Meg T semiros; L7, T7, H6, R5, N4; at: IX (ADV, AMN); hab: zap-V; svp-V; gro-III; zao-V; dep-IV; pas-III; liv-III; kro-III; tra-III; nop-II; kam-II; ulk-II; akp-II; pot-I; pkg-I; pst-II; UNE

Literature source: -

*Erigeron annuus* (L.) Pers. subsp. *septentrionalis* (Fernald & Wiegand) Wagenitz, a-aut Mes-Meg T semiros; L0, T0, H0, R0, N0; at: IX (ADV, AMN); hab: zap-IV; UNE

Literature source: Stešević & Jovanović 2005: 67 (Podgorica).

*Erigeron bonariensis* L. [syn. *Conyza bonariensis* (L.) Cronq.], a-aut Mes-Mac T semiros; at: IX (ADV, AMS); L8, T8, H3, Rx, N7; hab: zap-IV; gro-III; put-III; dep-III; svp-III; nop-II; akp-I; kam-I; kro-I; pkg-I; ulk-I; UFI

Literature source: Stešević & Jovanović 2005: 67 (Podgorica).

*Erigeron canadensis* L. [syn. *Conyza canadensis* (L.) Cronq.], a-aut Mac-Alt T semiros; L8, T6, H5, Rx, N7; at: IX (ADV, AMN); hab: zap-V; gro-IV; svp-IV; dep-III; put-III; zao-III; akp-II; kam-II; kro-II; ulk-II; UNE

Literature source: Rohlena 1905: 60 (bei Podgorica); Bulić 1991: 139 (Kuče Rakića, Ćemovsko polje); Stešević 2002 (Gorica).

*Erigeron sumatrensis* Retz. [syn. *Conyza sumatrensis* (Retz) E. Walker, *C. albida* Willd.], a-aut Mac-Alt T semiros; L8, T8, H3, Rx, N7; at: IX (ADV, AMS); hab: zap-V; svp-IV; gro-IV; zao-III; nop-III; pas-III; pst-III; put-III; dep-II; kam-I; kro-II; pko-II; akp-I; liv-I; zar-I; pkg-I; UNE

Literature source: Stešević & Jovanović 2005: 67 (Podgorica).

*Eupatorium cannabinum* L., a-aut Mac-Alt H scap; L7, T7, H7, R5, N7; at: V (paleotemp); hab: pno-III; pot-III; vli-III; slj-II; UFO

Literature source: Rohlena 1942: 355 (frequens); Bulić 1991: 139 (Kuče Rakića); Hadžiablahović 2010: 139 (Kuče Rakića).

*Filago arvensis* L. [syn. *Logfia arvensis* (L.) J. Holub, *Gnaphalium arvensis* L., *F. montana* L. pro parte], a Mi-Mes T scap; L9, T8, H2, R3, N1; at: V (s.euro-s.sib); stip: akp-III, liv-II; UFO

Literature source: Černjavski *et al.* 1949: 78 (Ćemovsko polje); Bulić 1991: 139 (kuće Rakića).

*Filago gallica* L. [syn. *Logfia gallica* (L.) Coss. & Germ., *L. subulata* L., *Gnaphalium gallicum* L.], a Mi-Mes T scap; L11, T8, H2, R3, N1; at: III (eurimed); stip: ako-II, liv-II, kor-I; UFO

Literature source: Rohlena 1902a: 25 (in arenosis planitiei Podgoricensis).

*Filago germanica* (L.) Hudson [syn. *F. vulgaris* Lam., *Gnaphalium germanicum* L.], a Mi-Mes T scap; L8, T7, H3, R4, N2; at: V (paleotemp); stip: akp-V, liv-V, kam-V, zao-III, pot-III, kor-III, gro-III, sik-II, nop-II, pko-II, svp-II; UFO

Literature source: Rohlena 1902a: 25 (in arenosis circum Podgorica); Černjavski *et al.* 1949:79 (Ćemovsko polje); Stešević 2002: 19 (Gorica).

*Gnaphalium uliginosum* L. [syn. *Filaginella uliginosa* (L.) Opiz], a Mi-Mes T scap; L7, T6, H7, R5, N5; at: VIII (eurosib); hab: vli-II; liv-I; pot-I; UFO

Literature source: Bulić 1994:140 (Kuće Rakića).

*Gaillardia aristata* Pursh, a-aut Mes-Meg H scap; L0, T0, H0, R0, N0; at: IX (ADV, AMN); hab: svp-I; dep-I; UFI

Literature source: Stešević 2005: 67 (Podgorica).

*Galinsoga parviflora* Cav., a-aut Mes-Mac T scap; L7, T6, H7, R5, N8; at: IX (ADV, AMS); hab: zap-IV; gro-III; put-II; ilk-II; svp-II;; zao-I; dep-I; UFI

Literature source: -

*Hedypnois rhagadioloides* (L.) F.W. Schmidt [syn. *H. rhagadioloides* subsp. *monspeliensis* (Nyman) Murb.], v-a Mi-Mes T semiros; L9, T10, H2, R2, N1; at: II (stenomed); hab: kam-III; liv-II; nop-II; akp-II; pas-I; pot-I; tra-I; UFO

Literature source: Rohlena 1942: 393 (Podgorica).

*Helianthus annuus* L., a-aut Alt T scap; L8, T7, H4, Rx, N7; at: IX (ADV, AMN); hab: zap-I; svp-I

Literature source: -

*Helianthus* × *laetiflorus* Pers., a-aut Meg-Alt H scap; L0, T0, H0, R0, N0; at: IX (ADV, AMN); hab: svp-II; pno-II; slj-II; pot-I; UFI

Literature source: -

*Helianthus tuberosus* L., a-aut Alt G tub; L8, T7, H7, Rx, N6; at: IX (ADV, AMN); hab: pno-III; slj-III; zap-III; dep-II; svp-II; UFI

Literature source: Stešević & Jovanović 2005: 68 (Podgorica).

*Helichrysum italicum* (Roth.) G. Don. fil., a Mac Ch suffrut; L8, T8, H4, R3, N2; at: III (eurimed); hab: kam-II; kor-II; nop-II; pot-I; sik-I; akp-I; UFO

Literature source: Bulić 1991: 140 (Ćemovsko polje, Kuće Rakića).

*Helminthotheca echioides* (L.) Holub. [syn. *Picris echioides* L.], a Mes-Mac T scap; L11, T8, H2, Rx, N2; at: III (eurimed); stip: liv-I; UFO

Literature source : -

*Hieracium heterogynum* (Froel) Gutermann [syn. *H. stuppeum* Griseb.], a-aut Mes-Mac H scap; L0, T0, H0, R0, N0; at: I (subilir); hab: sik-III; kam-I; UFO

Literature source: -

*Hieracium waldsteinii* Tausch subsp. *plumulosum* (A. Kern.) Freyn [syn. *H. plumulosum* A.Kern.], a Mes H semiros; L0, T0, H0, R0, N0; at: I (balk); hab: kor-I; pot-I; kam-I; UFO

Literature source: Bulić 1991: 150 (Kuće Rakića).

*Hypochoeris cretensis* (L.). Bory et Chaub., v-a Mes-Mac H semiros; L7, T8, H2, R7, N1; at: IV (n.e. med-mont); hab: liv-V; pas-IV; gro-IV; kam-IV; svp-III; akp-III; tra-II; nop-II; pst-II; kro-I; UNE

Literature source: Hadžiablahović 2004: 11 (Blok V, Tološi).

*Hypochoeris glabra* L., v-a Mes-Mac H ros; L11, T8, H2, R2, N1; at: III (eurimed); hab: kam-II; akp-II; kor-II; pas-I; UFO

Literature source: Rohlena 1904: 68 (steinige wüste Stellen bei Podgorica); Černjavski *et al.* 1949:79 (Ćemovsko polje); Hadžiablahović 2010: 108 (Tološka šuma).

*Hypochoeris radicata* L., v-a Mes H ros; L9, T8, H2, Rx, N1; at: V (euro-kavk); hab: liv-III; kam-II; kor-II; svp-II; akp-II; tra-I; pas-I; UFO

Literature source: Rohlena 1912: 66 (auf einer Wiese bei Podgorica); Bulić 1991: 147 (Ćemovsko polje, Kuće Rakića); Hadžiablahović 2010: 108 (Kruševac).

*Inula britannica* L., a-aut Mes-Meg H scap; L8, T6, H7, R8, N3; at: V (c.euro-w.as); hab: liv-I; vli-I; sik-I; UFO

Literature source: Rohlena 1912: 63 (Podgorica).

*Inula conyza* DC., a-aut Meg-Alt H scap; L6, T6, H4, R7, N3; at: V (c.euro-w.as); hab: pas-II; sik-II; nop-I; UFO

Literature source: -

*Inula germanica* L., a-aut Mes-Meg H scap; L0, T0, H0, R0, N0; at: V (euro); hab: vli-III; pas-II; svp-II; liv-I; zap-I; tra-I; pno-II; slj-I; pkg-I; UFO

Literature source: -

*Inula oculus-christi* L., a Mes-Mac H scap; L0, T0, H0, R0, N0; at: V (s.euro-w.as); hab: pko-I; UFO

Literature source: Horak 1900: 1962 (Podgorica).

*Iva xanthifolia* Nutt., a-aut Mes-Meg T scap; L0, T0, H0, R0, N0; at: IX (ADV, AMN); hab: dep-I; zap-I; UFI

Literature source: Stešević & Jovanović 2005: 68 (Podgorica).

*Jacobaea erratica* (Bertol.) Fourr. [syn. *Senecio erratiacus* Bertol., *S. aquaticus* Hill subsp. *barbareifolius* (Wimm. & Grab.) Walters, *S. jacobaea* subsp. *erraticus* (Bertol.) Sudre], a Mes-Meg H scap beinn; L7, T6, H4, R7, N4; at: V (c.euro-submed); hab: pno-I, UFO

Literature source: -

*Lactuca muralis* (L.) Gaertn. [syn. *Mycelis muralis* (L.) Dumort.], a Mes-Meg H scap; L4, T5, H5, Rx, N6; at: V (euro-kavk); hab: pot-II; sik-I; kor-I; pno-I; UFO

Literature source: Rohlena 1942: 401 (frequens).

*Lactuca serriola* L., a-aut Mac H scap bienn/ T scap; L9, T7, H4, R6, N4; at: V (eurimed-s.sib); hab: zap-V; zao-IV; svp-IV; dep-IV; kro-III; gro-III; liv-III; nop-III; akp-II; kam-II; pko-II; kor-II; pot-II; ulk-II; pst-II; put-I; zid-I; tra-I; pkg-I; UNE

Literature source: Rohlena 1902b: 1 (Podgorica); Bulić 1991: 149 (Ćemovsko polje, Kuće Rakića); Hadžiablahović 2010: 110 (Kuče Rakića, Ržanički most).

*Lactuca viminea* (L.) J. Presl. & C. Presl., a Mac scap; L6, T7, H3, R7, N3; at: V (eurimed-w.as); hab: kam-V; sik-III; pas-III; akp-III; liv-III; nop-III; kor-III; zap-II; dep-II; put-II; svp-I; pst-I; UNE

Literature source: Rohlena 1912: 65 (Podgorica); Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 110 (Blok V).

*Lapsana communis* L., a-aut Mes-Mac T scap; L5, Tx, H5, Rx, N7; at: V (paleotemp); hab: sik-II; pot-I; pas-I; vli-I; UFO

Literature source: Rohlena 1942: 397 (frequens); Bulić 1991: 150 (Kuče Rakića); Stešević 2002 (Gorica).

*Leontodon crispus* Vill. [syn. *L. crispus* Vill. subsp. *asper* (Waldst. & Kit.) Rohlena], v-a Mes H ros; L9, T7, H3, R7, N2; at: V (euro); hab: akp-V; kam-V; kor-V; pot-V; liv-IV; gro-III; pas-III; nop-II; svp-II; UFO

Literature source: Rohlena 1905: 68 (um Podgorica häufig); Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 108 (Dajbabska gora, Podgorica).

*Leontodon taraxacoides* (Vill.) Mérat., a Mes H ros; L11, T6, H5, R7, N2; at: IV (med-mont); hab: vli-I; kro-I; svp-I; UNE

Literature source: Hadžiablahović 2004: 11 (Tuški put).

*Leontodon tuberosus* L., aut-n Mes H ros; L11, T8, H3, R7, N2; at: II (stenomed); hab: liv-V; akp-V; kam-V; kor-III; gro-II; pas-III; tra-III; svp-I; gaz-I; UNE

Literature source: Hadžiablahović 2010: 108 (Dajbabska gora).

*Leucanthemum praecox* (Horvatić) Horvatić, a Mes-Mac H scap; L7, T6, H4, R7, N2; at: III (eurimed); stip: liv-III, svp-II, kor-II, nop-I; UFO

Literature source: Stešević 2002: 19 (Gorica, as *L. vulgare* Lam. subsp. *leucolepis* Briq. & Cav.); Hadžiablahović 2010: 102 (Tološka šuma).

*Matricaria chamomilla* L. [syn. *M. recutita* L., *M. suaveolens* L., *Chamomilla recutita* (L.) Rauschert], a Mi-Mes T scap; L7, T5, H6, R5, N5; at: IX (cosm); stip: gaz-IV, gro-IV, zao-IV, akp-III, zap-III, pas-II, svp-III, kro-II, liv-II, pkg-II, pko-II, tra-II, nop-II, dep-I, kam-I, put-I, ulk-I, pst-III; UNE



Literature source: Rohlena 1902a: 25 (in arvis ad Farmaki prope Podgorica c. 30m) & 1942: 372 (Podgorica); Bulić 1991: 142 (Čemovsko polje, kuće Rakića, Srpska); Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 102 (Tološka šuma).

*Matricaria discoidea* DC. [syn. *M. suaveolens* (Pursh) Buchenal *Chamomilla suaveolens* (Pursh) Rydb.], a-aut Mes T scap; L0, T0, H0, R0, N0; at: IX (ADV, AS); stip: svp-II, zap-II, liv-I, tra-I, pno-I, kro-I, nop-I; UFI

Literature source: Vasić 1989: 139 & 1995: 77 (Podgorica).

*Onopordum acanthium* L., a Mac-Alt H scap bienn; L11, T7, H4, R7, N8; at: IX (eurimed-turan); hab: dep-III; zao-II; liv-II; zap-I; gro-I; nop-I; svp-I; pko-I; UNE

Literature source: -

*Onopordum illyricum* L. [syn. *O. elongatum* Lam.], a Mac-Alt H scap bienn; L11, T8, H3, R7, N9; at: II (stenomed); hab: liv-III; kam-II; nop-II; akp-II; dep-I; pko-II; pot-I; UFO

Literature source: Rohlena 1902a: 26 (in lapidosis collis Gorica (c. 150m) prope Podgorica); Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 102 (Tološka šuma).

*Pallenis spinosa* (L.) Cass., a Mes T scap; L11, T9, H4, Rx, N7; at: III (eurimed); hab: kam-III; sik-III; kor-II; liv-II; akp-I; nop-I; gro-I; svp-I; UFO

Literature source: Rohlena 1905: 60 (bei Podgorica); Stešević 2002 (Gorica).

*Picris hieracioides* L., a-aut Mes-Meg H scap; L8, Tx, H4, R8, N4; at: VIII (eurosib); hab: liv-III; sik-III; kor-III; svp-III; nop-III; kam-II; pno-II; slj-II; zap-II; pot-I; UNE

Literature source: -

*Picris hispidissima* (Bartl.) W.D.J. Koch, a Mes H scap bienn; L8, T7, H3, R7, N3; at: I (adritic), ats-III, atp-I; hab: sik-III; pas-II; kor-II; liv-II; svp-I; zap-I; UFO

Literature source: Rohlena 1904: 68 (Kokoti).

*Picnomon acarna* (L.) Cass. [syn. *Cirsium acarne* (L.) Moench.], a Mes-Meg T scap; L11, T10, H2, R5, N7; at: II (stenomed); hab: nop-I; svp-I; pko-I; UFO

Literature source: Šmarda 1968: 34 (Titograd- Morača canyon).

*Pilosella piloselloides* (Vill.) Soják subsp. *bauhinii* (Schult.) S. Bräut. & Greuter [syn. *Hieracium praealtum* Vill. ex Gochnat subsp. *bauhinii* (Besser) Petunn., *H. bauhinii* Besser], a Mes-Mag H rept; L7, T6, H3, R7, N2; at: V (se.euro-se.sibir); hab: pas-V; liv-IV; sik-III; kam-III, pot-II; UFO

Literature source: Rohlena 1912: 70 (*Hieracium bauhinii* Bess. subsp. *podgoricae* Rohl et Zahn, um Podgorica c. 50m); Stešević 2002: 19 (Gorica); Hadžiablahović 2019: 111 (Dajbabska gora, Dajbabe, Tološka šuma, Tuški put).

*Podospermum canum* C. A. Mey [syn. *Scorzonera cana* (C.A. Mey.) O. Hoffm.], a Mes H scap; L9, T8, H5, R9, N4; at: V (se.euro-c.as); hab: kam-II, liv-I, pas-I, kor-I; UFO

Literature source: Stešević 2002: 19 (Gorica); Hadžiablahović 2009: 108 (Dajbabska gora, Ržanički most).

*Podospermum laciniatum* (L.) DC. [syn. *Scorzonera laciniata* L.], a Mes H scap; L7, T8, H3, R8, Nx; at: V (paleotemp); hab: liv-V, akp-IV, kam-IV, gro-IV, sik-III, kor-III, svp-III, zao-III, zap-II, nop-II, tra-I; UNE

Literature source: Rohlena 1902b: 3 (in pratis siccis, ad marginem viarum et in pascuis planitie Podgoricensis c. 30m); Stešević 2002: 19 (Gorica); Hadžiablahović 2009: 109 (Podgorica).

*Pulicaria dysenterica* (L.) Bernh., a Mes-Meg H scap; L8, T6, H7, Rx, N5; at: III (eurimed); hab: vli-V; zap-II; liv-II; kam-II; slj-II; pno-I; pot-I; tra-I; UNE

Literature source: -

*Pulicaria vulgaris* Gaertner, a-aut T scap; L7, T7, H7, R7, N7; at: V (paleotemp)

Literature source: Hadžiablahović 2009: 100 (Blok V).

*Rhagadiolus stellatus* (L.) Gaertn., v-a Mes-Meg T semiros; L8, T9, H3, R7, N2; at: III (eurimed); hab: pas-V; sik-V; pot-V; gro-IV; liv-III; kam-III; kor-III; ziv-III; tra-III; zap-II; nop-I; zid-I; pst-I; UNE

Literature source: Rohlena 1905: 68 (Podgorica, Kokoti); Bulić 1991: 147 (Kuće Rakića); Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 107 (Dajbabska gora, Ržanički most, Tološka šuma).

*Rudbeckia triloba* L., a-aut Meg-Alt H scap; L0, T0, H0, R0, N0; at: IX (ADV, AMN); hab; dep-I; zap-I, UFI  
Literature source: Stešević & Jovanović 2005: 68 (Podgorica).

*Scolymus hispanicus* L., a Mes-Alt H scap; L11, T8, H3, Rx, N2; at: III (eurimed); hab: zap-V; kam-IV; liv-IV; kor-IV; nop-IV; pko-IV; akp-IV; svp-III; dep-III; gro-II; slj-II; pkg-I; UNE  
Literature source: Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 107 (Blok V).

*Scorzonera doria* Degen & Bald., v-a Mi-Mes H ros; L11, T6, H4, R7, N2; at: I (w.s.balk); hab: kor-III; akp-II; kam-I; liv-I; UFO

Literature source: Rohlena 1942: 398 (Podgorica, Farmaci, Duklja).

*Scorzonera mollis* M. Bieb., v Mes H scap; L0, T0, H0, R0, N0; at: V (c.e.med-pont); hab: kam-II; UFO

Literature source: -

*Senecio squalidus* (L.) subsp. *rupestris* (Waldst. & Kit.) Greuter [syn. *S. rupestris* Waldst. & Kit.], a Mes-Meg H scap; L7, T4, H4, Rx, N5; at: VII (alp-karp); stip: sik-I; kam-I; nop-I; dep-I; UFO

Literature source: Rohlena 1942: 377 (frequens).

*Senecio vulgaris* L., n-aut Mi-Mes T scap; L7, Tx, H5, Rx, N8; at: IX (cosm); hab: pas-V; zao-V; pot-V; sik-IV; kam-IV; svp-IV; gro-IV; liv-III; dep-III; tra-III; zap-III; kro-III; pst-III; pko-II; put-II; akp-II; pkg-I; zid-I; UNE

Literature source: Rohlena 1905: 58 (um Podgorica verbreitet); Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 96 (Podgorica).

*Serratula tinctoria* L., a Meg-Alt H scap; L7, T6, Hx, R8, N5; at: VIII (eurosib); hab: vli-I; UFO

Literature source: -

*Silybum marianum* (L.) Gaertn., a Mes-Alt H scap bienn; L11, T10, H3, R5, N7; at: IX (eurimed-turan); hab: svp-II; dep-II; nop-II; kor-II; zao-II; pko-I; pas-I; gro-I; kam-I; sik-I; liv-I; UFO

Literature source: Rohlena 1905: 62 (Ruderalorte bei Podgorica); Hadžiablahović 2010: 105 (Ržanički most).

*Sonchus arvensis* L., v-a Mac-Alt H scap; L7, T5, H5, R7, Nx; at: IX (cosm); hab: zap-V; gro-V; pas-V; svp-V; liv-IV; kro-III; zao-IV; pot-III; dep-IV; ulk-III; put-III; pko-II; pst-II; kam-II; pno-II; slj-II; tra-II; akp-I; nop-II; zar-I; pkg-I; UNE

Literature source: Stešević 2002: 19 (Gorica).

*Sonchus asper* (L.) Ball., a Mac-Alt T scap; L7, T5, H4, R7, N7; at: IX (cosm); hab: zap-IV; pas-III; svp-III; gro-II; pko-II; sik-I; zao-II; pot-I; zaop-I; pst-I; tra-I, UNE

Literature source: -

*Sonchus oleraceus* L., a-aut Mac-Alt T scap/H scap bienn; L7, T5, H4, R8, N8; at: IX (cosm); hab: zap-V; pas-V; svp-V; gro-V; dep-IV; ulk-IV; kro-III; liv-III; pot-III; put-II; kam-II; zao-III; nop-II; pst-II; tra-II; akp-I; UNE

Literature source: Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 110 (Stara Varoš).

*Symphotrichum novi-belgii* (L.) G. L. Nesom [syn. *Aster novi-belgii* L.], a-aut Mac-Meg Alt H scap; L9, Tx, H6, Rx, N9; at: IX (ADV, kult, AMN); stip: zap-I, svp-I; UFI

Literature source: Stešević & Jovanović 2005: 67 (Podgorica).

*Symphotrichum squamatum* (Spreng.) G. L. Nesom [syn. *Aster squamatus* (Spreng.) Hieron., *Conyza squamata* Spreng.], a-aut Mes-Meg scap; L8, T8, H4, R7, N7; at: IX (ADV, AMC, AMS); stip: zap-III, put-II, nop-II, dep-II, svp-II, tra-I; UFI

Literature source: Hadžiablahović 2004: 10 (Blok V, Dajbabe).

*Tagetes patula* L., a-aut Mes-Meg T scap; L0, T0, H0, R0, N0; at: IX (ADV, AMS); hab: zap-II; put-I; svp-I; UFI

Literature source: Stešević & Jovanović 2005: 68 (Podgorica).

*Tanacetum cinerariifolium* (Trevir.) Sch. Bip. [syn. *Chrysanthemum cinerariaefolium* (Trevir.) Vis.], a Mes-Meg Ch suffrut; L0, T0, H0, R0, N0; at: I (adriat); hab: kor-III; kam-I; sik-I; UFO

Literature source: Rohlena 1905: 59 (Felsige Ufer des Flusses Morača bei Podgorica); Hadžiablahović 2010: 102 (Dajbabska gora).

*Tanacetum parthenium* (L.) Sch. Bip., a Mes-Meg H scap; L6, T5, H5, R5, N6; at: IX (ADV, kult, EAS); hab: put-I; UFI

Literature source: -

*Tanacetum vulgare* L., a-aut Mac-Meg H scap; L8, Tx, H5, Rx, N5; at: V (euras); hab: svp-I

Literature source: -

*Taraxacum officinale* Weber subsp. *officinale*, v-aut Mes H ros; L7, Tx, H5, Rx, N7; at: IX (cosm); hab: liv-V; zao-V; gro-V; zap-V; pas-V; tra-V; gaz-IV; ulk-IV; svp-III; kam-II; pst-II; pkg-II; zar-II; put-I; krp-I; nop-I; UNE

Literature source: Bulić 1991:149 (Kuće Rakića); Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 110 (Podgorica).

*Taraxacum officinale* Weber subsp. *palustre* (Lyons) Bech. [syn. *T. palustre* (Lyons) Becherer, *T. paludosus* (Scop.) Schlect. & Crépin), a-aut Mes H ros; L8, Tx, H8, R8, N0; at: IX (cosm); hab: vli-III; pls-III; pas-I; ulk-I; pst-I; UNE

Literature source: Rohlena 1905: 65 (oft an trockene und steinigen Stellen, um Podgorica nicht selten) & 1912: 66 (Podgorica).

*Tragopogon porrifolius* L., v-a Mes-Meg H scap bienn; L9, T9, H3, R5, N3; at: III (eurimed); hab: liv-V; gro-V; kam-III; zap-III; zao-III; nop-III; sik-II; kor-II; pas-II; tra-II; svp-II; akp-I; dep-I; pst-I; zar-I; UNE

Literature source: Rohlena 1905: 67 (um Podgorica und Kokoti (Lješanska nahija); Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 109 (Kruševac, Tološka šuma).

*Tragopogon pratensis* L., a Mes H scap; L7, T5, H4, R7, N5; at: VIII (eurosib); hab: liv-III; sik-II; kam- II; akp-II; zao-II; gro-I; nop-I; pas-I; vli-I; svp-I; UFO

Literature source: Rohlena 1905: 67 (Podgorica); Bulić 1991: 148 (Ćemovsko polje); Stešević 2002: 19 (Gorica); Hadžiablahović 2010: 109 (Dajbabska gora, Ržanički most).

*Tussilago farfara* L., v Mi-Mes G rhiz; L8, Tx, H6, R8, N7; at: V (paleotemp); hab: svp-I; pno-I; UFO

Literature source: Rohlena 1904: 61 (An nassen Stellen überall verbreitet, bei Podgorica); Bulić 1991: 143 (Kuće Rakića); Stešević 2002: 19 (Gorica).

*Tyrimnus leucographus* (L.) Cass., v-a Mes-Meg T semiros; L7, T9, H3, R5, N7; at: II (stenomed); hab: akp-III; kam-III; kor-II; sik-I; pas-I; UFO

Literature source: Rohlena 1902a: 26 (in lapidosis collis Gorica prope Podgorica) & 1905: 63 (bei Farmaki) & 1942: 385 (Farmaci, Kokoti); Stešević 2002 (Gorica); Hadžiablahović 2010: 105 (Dajbabska gora, Ržanički most, Tološka šuma).

*Urospermum picroides* (L.) Scop. ex F.W. Schmidt., v-a Mes-Meg T scap; L11, T9, H2, Rx, N2; at: III (eurimed); hab: pot-V; kam-IV; sik-III; kor-III; gro-III; zap-III; svp-III; liv-III; pko-III; nop-III; pas-III; zao-II; akp-II; ulk-II; pst-II; dep-II; kro-I; zar-I; zid-I; UNE

Literature source: Rohlena 1905: 68 (steinigen und wüsste Stellen bei Podgorica); Stešević 2002 (Gorica); Hadžiablahović 2010: 105 (Dajbabe, Dajbabska gora, Tološka šuma).

*Xanthium orientale* (Moretti) Greuter subsp. *italicum* (Moretti) Greuter [syn. *Xanthium strumarium* L. subsp. *italicum* (Moretti) D. Löve, *X. strumarium* L. subsp. *cavanillesii* (Sehovev ex Dialr.) D. Löve & Dansereau], a-aut Meg –Alt T scap; L8, T8, H5, Rx, N1; at: IX (ADV, AMN); hab: pko-V; dep-V; pno-V; slj-V; zap-V; svp-IV; pot-III; nop-III; kam-II; gro-II; liv-II; ulk-I; UNE

Literature source: Rohlena 1942: 363 (Podgorica).

*Xanthium spinosum* L., a-aut Meg-Alt T scap; L9, T10, H2, Rx, N1; at: IX (ADV, AMS); hab: dep-III; pko-III; liv-II; svp-II; nop-II; zap-II; kam-II; akp-II; slj-II; gaz-I; pas-I; tra-I; UNE

Literature source: Rohlena 1912: 79 (um Podgorica und Lješkopljje (südlich von Podgorica).

*Zinnia elegans* Jacq., a-aut Mes-Meg T scap; L0, T0, H0, R0, N0; at: IX (ADV, kult, AMN); hab: dep-I; zap-I; UFI

Literature source: Stešević & Jovanović 2005: 68 (Podgorica).

#### BALSAMINACEAE

*Impatiens balsamina* L., v Mac-Alt T scap; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: dep-I; UFI

Literature source: Stešević 2007: 157 (Podgorica).

#### BERBERIDACEAE

*Mahonia aquifolium* (Pursch) Nutt., fo semp NP caesp; L0, T0, H0, R0, N0; at: IX (ADV, AMN); hab: zap-I; pot-I; kam-I; UFI

Literature source: Stešević & Jovanović 2005: 68 (Podgorica).

#### BETULACEAE

*Alnus glutinosa* (L.) Gaertn., v fo dec Mes P scap; L5, T5, H9, R6, N8; at: V (paleotemp); hab: pls-V; ork-II; UFO

Literature source: Hadžiablahović 2010: 17 (Srpska).

*Carpinus orientalis* Mill. [syn. *C. duinensis* Scop.], v fo dec Mi P caesp; L4, T7, H3, R4, N5; at: III (submed); hab: sik-V; kor-III; kam-II; pot-I; UFO

Literature source: Rohlena 1905: 85 (Podgorica sehr häufig); Černjavski *et al.* 1949: 67 (Vranići); Stešević 2002: 20 (Gorica), Hadžiablahović 2010: 17 (Kuće Rakića).

*Corylus avellana* L. v fo dec Mi P caesp; L6, T5, H5, R5, N8; at: V (euro-kavk); hab: sik-I; zao-I; pot-I; UNE

Literature source: Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 17 (Kuće Rakića).

*Ostrya carpinifolia* Scop., v fo dec Mi-Mes P scap; L4, T8, H4, Rx, Nx; at: III (med- submed); hab: ork-III; sik-I; ziv-I; UFO

Literature source: Černjavski *et al.* 1949: 68 (Titograd); Hadžiablahović 2010: 17 (Kuće Rakića).

#### BIGNONIACEAE

*Catalpa bignonioides* Walt., v Mi-Mes P scap; L9, T7, H4, R5, N4; at: IX (ADV, kult, AMN); hab: ork-I

Literature source: Stešević 2007: 158 (Podgorica).

#### BORAGINACEAE

*Aegonychon purpurocaeruleum* (L.) Holub [syn. *Buglossoides purpurocaerulea* (L.) I. M. Johnst. [syn. *Lithospermum purpurocoeruleum* L.], v-a Mes-Mac H scap; L5, T7, H4, R8, N4; at: V (s.euro-pont); hab: sik-I, ziv-I; UFO

Literature source: Rohlena 1905: 71 (bei Podgorica).

*Alkanna tinctoria* (L.) Tausch, v-a Mes H rept; L8, T9, H2, R4, N2; at: II (stenomed); hab: akp-V, kor-IV, kam-III, liv-III, grp-III, dep-I, pas-I; UFO

Literature source: Rohlena 1902b: 5 (in arenosis ad Podgorica) & 1905: 71 (um Podgorica); Černjavski *et al.* 1949: 75 (Titograd, Čemovsko polje); Bulić 1994: 114 (Kuće Rakića, Čemovsko polje); Hadžiablahović 2010: 77 (Agrokombinat).

*Anchusa arvensis* (L.) M. Bieb., [syn. *Lycopus arvensis* L.], a Mes T scap; L7, T7, H4, R5, N4; at: V (euras); UNE

Literature source: Černjavski *et al.* 1949:75 (Titograd, Čemovsko polje); Stešević 2002: 20 (Gorica).

*Anchusa cretica* Mill., [syn. *Lycopus variegata* auct., non L.], n-v Mi-Mes T semiros; L7, T8, H3, R5, N6; at: II (stenomed-or); hab: liv-V, gro-V, pas-V, kam-V, pot-V, zao-V, tra-V, sik-IV, svp-III, dep-III, kor-IV, pst-II, zar-I; UNE

Literature source: Rohlena 1905: 71 (um Podgorica verbreitet and gemein); Černjavski *et al.* 1949: 75 (Titograd, Čemovsko polje); Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 78 (KBC, Kuća Rakića).

*Anchusa italica* Retz., [syn. *Anchusa azurea* Mill.], v-a Mes-Mac H semiros; L11, T8, H3, R4, N4; at: III (eurimed); hab: liv-I, kam-I, sik-I, pot-I; UFO

Literature source: Rohlena 1904: 71 (unter der Kararicka Gora bei Podgorica) & 1912: 91 (zwischen Medun und Podgorica), Bulić 1994:114 (Čemovsko polje, Kuće Rakića).

*Anchusa officinalis* L., a Mes H scap bienn; L9, T8, H3, R7, N5; at: V (pont); hab: liv-I, kam-I, svp-I

Literature source: Černjavski *et al.* 1949: 75 (Titograd).

*Buglossoides arvensis* (L.) I.M. Johnst. [syn. *Lithospermum arvense* L.], v-a Mes-Meg T scap; L5, Tx, Hx, R7, N5; at: III (eurimed); hab: liv-II, zao-II, sik-II, vli-I, pot-I; UFO

Literature source: Rohlena 1905: 71 (auf Feldern um Podgorica).

(-) *Cynoglossum columnae* Ten., v-a Mes-Mac T semiros; L11, T4, H3, R7, N7; at: IV (orof. n.e.med); UFO

Literature source: Rohlena 1942: 246 (Kokoti).

*Cynoglossum creticum* Mill., v-a Mes-Mac H scap bienn; L11, T9, H3, Rx, N7; at: III (eurimed); hab: akp-IV, liv-III, gro-III, nop-III, kam-III, svp-III, pas-II, sik-II, kor-II; UFO

Literature source: Rohlena 1942: 246 (circa Podgorica); Hadžiablahović 2010: 78 (Kuće Rakića, Tološka šuma).

*Cynoglossum officinale* L., a Mes H semiros bienn; L8, T5, H3, R7, N8; at: V (ev-w.as); hab: nop-III, svp-II, liv-II, sik-II, pko-II, zao-II, zao- II, kam-II, pas-I, put-I; UFO

Literature source: -

*Echium italicum* L. [syn. *E. altissimum* Jacq.], v-a Mes-Meg H semiros bienn; L11, T8, H3, R3, N4; at: III (eurimed); hab: liv-IV, akp-IV, pko-III, nop-III, dep-III, zap-III, pas-III, gro-II, zao-II, svp-II; UNE

Literature source: Rohlena 1912: 92 (Podgorica); Černjavski *et al.* 1949: 75 (Čemovsko polje); Bulić 1994:114 (Čemovsko polje, Kuće Rakića); Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 77 (Blok V, Duvanski kombinat, Ržanički most).

*Echium vulgare* L., v-a Mes-Alt H semiros bienn/H semiros; L9, T7, H4, R5, N4; at: V (euro); hab: liv-III, kor-III, pno-III, pko-III, svp-II, vli-II, zao-II, sik-II, nop-II, akp-II, pas-II, gro-I, dep-I; UFO

Literature source: Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 77 (Kuće Rakića).

*Heliotropium europaeum* L, a-aut Mes-Mac T scap; L11, T8, H3, R7, N2; at: IX (eurimed-turan); hab: pko-V, zap-V, dep-V, svp-IV, akp-IV, slj-IV, gro-IV, nop-IV, liv-III, pkg-II, pno-II, zar-I; UNE

Literature source: Rohlena 1942: 246 (Ljesanksa nahija, Podgorica); Bulić 1994: 112 (Čemovsko polje); Stešević 2002 (Gorica); Hadžiablahović 2010: 76 (Podgorica).

*Heliotropium supinum* L, a-aut Mes-Mac T scap; L9, T12, H3, R5, N2; at: IX (paleosubtrop); hab: nop-I, zap-I; UNE

Literature source: -

*Lithospermum officinale* L, a Mes-Mac H scap; L6, Tx, Hx, R8, N6; at: V (eurosib); hab: sik-I, liv-I; UFO

Literature source: Rohlena 1905: 71 (Podgorica); Bulić 1994:113 (Kuće Rakića, Srpska).

*Moltkia petraea* (Tratt.) Griseb., a Mes Ch suffrut; L0, T0, H0, R0, N0; at: I (ilir-sk.pind); hab: kor-II, kam-I; UFO

Literature source: Baldacci 1891a: 470 (lungo la Morača, in via per Podgoritza); Rohlena 1942: 253 (frequens); Pulević & Lakušić 1983 (Cijevna).

*Myosotis arvensis* (L.) Hill., v-a Mes T semiros; L6, T5, H5, Rx, N6; at: V (ev-w.as); hab: pas-IV, zao-IV, sik-III, kor-III, liv-II, nop-I; UNE

Literature source: Rohlena 1905: 72 (bei Podgorica); Bulić 1994: 115 (Kuće Rakića); Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 78 (Kuće Rakića).

(-) *Myosotis discolor* Pers. [syn. *M. collina* Hoffm.], v-a Mes T semiros; L7, T7, H3, R3, N2; at: VI (med-atl)

Literature source: Rohlena 1905: 72 (um Podgorica verbreitet).

*Myosotis ramosissima* Roch. & Schult. [syn. *M. collina* auct non Hoffm.], v-a Mi-Mes T semiros; L9, T8, H2, R4, N3; at: V (ev-w.as); hab: akp-V, gro-V, kam-V, liv-V, pas-V, tra-V, kor-IV, svp-III, pot-III, zao-III, nop-I, pkg-I; UNE

Literature source: Rohlena 1904 (Podgorica); Bulić 1994: 115 (Kuće Rakića); Hadžiablahović 2010: 78 (Dajbabska gora, Dajbabe, KBC, Tološka šuma).

*Myosotis scorpioides* L., a Mes H scap; L7, T6, H10, R5, N5; at: V (ev-w.as); hab: pls-III, pno-I, rij; kan; UFO

Literature source: -

*Neatostema apulum* (L.) I.M.Johnst. [syn. *Lithospermum apulum* (L.) Vahl.], v N-Mi T semiros; L8, T9, H2, R7, N2; at: II (stenomed); hab: akp-V, kam-III, liv-II, kor-II, gro-I; UFO

Literature source: Černjavski *et al.* 1949: (Ćemovsko polje); Bulić 1994:113 (Ćemovsko polje); Hadžiablahović & Bulić 2004: 45 (Dajbabe, Dajbabska gora, Tuški put, Tološi, Dinoško polje); Hadžiablahović 2010: 77 (Agrokombinat, Dajbabska gora, Dajbabe, Tološka šuma).

*Onosma arenarium* Waldst. & Kit., a Mes-Mac Ch suffrut; L7, T8, H3, R8, N0; at: V (w.alp); hab: liv-II, akp-II, sik-II, kor-II, kam-I; UFO

Literature source: Rohlena 1942: 254 (Dukla pr. Podgorica); Parolly 1995: 60 (okolina Podgorice); Hadžiablahović 2010: 77 (Dajbabska gora, Dajbabe).

*Onosma echioides* L. [syn. *O. aucherana* auct., non DC. subsp. *javorkae* (Simkonkai.) Hay.], v-a Mes Ch suffrut; L7, T8, H3, R8, N2; at: I (cirkadriat); hab: akp-IV, kam-III, kor-II, liv-I; UFO

Literature source: Rohlena 1905: 71 (bei Podgorica) & 1931: 20 (Podgorica); Bulić 1994: 113 (Kuće Rakića, Ćemovsko polje); Hadžiablahović 2010: 77 (Kuće Rakića).

(-) *Onosma stellulata* Waldst. & Kit., a Mes Ch suffrut; L0, T0, H0, R0, N0; at: I (dinar); UFO

Literature source: Šmarda 1968 (Titograd- Morača canyon).

*Symphytum bulbosum* Schimp., v Mes-Mac G rhiz; L4, T7, H4, R5, N3; at: V (s.e.ev); hab: pas-I; UFO

Literature source: -

*Symphytum tuberosum* L., Mes-Mac G tub; L4, T5, H6, R7, N5; at: V (s.e.ev); hab: sik-I; liv-I; UFO

Literature source: -

## BRASSICACEAE

*Aethionema saxatile* (L.) R.Br., v-a Mi-Mes Ch suffrut; L7, T7, H2, R7, N2; at: IV (med-mont); hab: kam-V; kor-V; pot-V; sik-III; gro-III; nop-III; svp-II; pkg-I; dep-I; zid-I; UFO

Literature source: Rohlena 1942: 94 (frequens); Černjavski *et al.* 1949: 71 (Titograd); Bulić 1994:70 (Rakića most, Srpska); Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 38 (Dajbabska gora, Kuće Rakića).

*Alliaria petiolata* (M. Bieb.) Cavara & Grande [syn. *A. officinale* Andr. ex M. Bieb.], v-a Meg H semiros bienn; L5, T6, H5, R7, N9; at: IX (subcosm); hab: zap-V; pas-V; pno-IV; dep-II; svp-II; pot-III; kam-II; pst-I; kam-I; UNE

Literature source: Rohlena 1905: 22 (In Gebüsch un lichten Wäldern um Podgorica verbreitet); Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 33 (Tološi, Dajbabe).

*Alyssoides utriculata* (L.) Medik. [syn. *Vesicaria utriculata* (L.) Lam.], v-a Mes-Meg Ch suffrut; L11, T5, H2, R7, N3; at: IV (n.e. med-mont); hab: kor-II; kam-I; UFO

Literature source: Rohlena 1905: 25 (Podgorica); Hadžiablahović 2010: 36 (Kuće Rakića).

*Alyssum alyssoides* (L.) L. [syn. *A. calicynum* L.], v Mi-Mes T scap; L11, T6, H3, R8, N1; at: IV (mes-mont); hab: kor-III; akp-III; pot-II; gro-I; nop-I; liv-I; svp-II; UNE

Literature source: Rohlena 1905: 25 (um Podgorica); Stešević 2002: 20 (Gorica).

*Alyssum montanum* L., v-a Mi-Mes Ch suffrut; L9, T9, H2, R7, N1; at: V (pont-c.euro); hab: kor-III; kam-II; nop-II; akp-I; gro-I; UFO

Literature source: Hadžiablahović 2010: 36 (Kuće Rakića, Ržanički most).

*Alyssum simplex* Rudolphi [syn. *A. minus* (L.) Rothm., *A. campestre* auct.], v N-Mi T scap; L11, T6, H3, R8, N2; at: IX (eurimed-turan); hab: kam-V; kor-V; pot-V; akp-IV; gro-IV; kro-III; svp-III; pkg-II; put-II; tra-I; zid-I; UNE

Literature source: Rohlena 1905: 25 (um Podgorica nicht selten); Černjavski *et al.* 1949: 70 (Ribnica).

*Arabidopsis thaliana* (L.) Heynh. [syn. *Stenophragma thaliana* Čelak.], v Mi-Mes T semiros; L6, Tx, H4, R5, N4; at: IX (cosm); hab: liv-III; kor-II; zao-II; nop-I; zap-I; tra-I; svp-I; pas-I; UNE

Literature source: Rohlena 1905: 23 (Podgorica); Bulić 1994:66 (Čemovsko polje, Kuće Rakića).

*Arabis collina* Ten. [syn. *A. muralis* Bertol.], v-a Mi-Mes H semiros; L7, T5, H4, R8, N3; at: IV (orof med); hab: pot-II; kam-I; UNE

Literature source: -

*Arabis hirsuta* (L.) Scop., v-a Mes-Mac H semiros bienn; L7, T5, H4, R8, Nx; at: V (euro); hab: pot-III; sik-II; kam-II; pas-II; liv-I; zid-I; UNE

Literature source: Rohlena 1905: 19 (um Podgorica); Hadžiablahović 2010: 35 (Dajbabska gora, Kuće Rakića).

*Arabis sagittata* (Bertol.) DC., v-a Mes-Mac H semiros bienn; L7, T6, H4, R8, N3; at: V (s.e.euro); hab: sik-II; kam-I; liv-I; pno-I; UFO

Literature source: -

*Arabis turrita* L., v-a Meg H scap bienn; L6, T7, H6, R7, N3; at: V (s.eu); hab: pot-IV; sik-III; pas-III; zap-I; svp-I; UFO

Literature source: Rohlena 1905: 19 (in Gebüsch und lichten Wäldern verbreitet, um Podgorica); Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 36 (Kuče Rakića).

*Arabis verna* (L.) R. Br., n-v Mi-Mes T semiros; L6, T8, H3, R3, N3; at: II (stenomed); hab: pot-V; zid-I; kam-I; akp-I; UNE

Literature source: Rohlena 1905: 21 (auf Kalkfelsen um Podgorica verbreitet); Černjavski *et al.* 1949: 70 (Titograd); Bulić 1994: 68 (Kuče Rakića); Hadžiablahović 2010: 36 (Podgorica, Dajbabska gora).

*Armoracia rusticana* P. Gaertn., B. Mey. & Schreb. [syn. *A. lapathifolia* auct.], a Alt G rad scap; L8, T6, H5, Rx, N9; at: IX (ADV, E); hab: zap-I; pno-I; UFI

Literature source: -

*Barbarea intermedia* Boreau, v-a Mes-Meg H scap; L8, T7, H7, R5, N5; at: V (w.euro); hab: pno-I; UFO

Literature source: -

*Barbarea vulgaris* R.Br., v-a Meg H scap; L8, Tx, H7, Rx, N6; at: IX (cosm); hab: pno-II; vli-II; slj-I; UFO

Literature source: Bulić 1994: 66 (Čemovsko polje, Kuće Rakića); Hadžiablahović 2010: 34 (Kuče Rakića).

*Berteroa mutabilis* (Vent.) DC., a-aut Mes-Mac H scap; L8, T8, H3, R4, N5; at: III (n.e.med); hab: zap-V; svp-V; gro-V; kam-IV; liv-IV; akp-III; nop-III; dep-III; slj-II; pot-II; pst-II; pno-II; put-I; tra-I; UNE

Literature source: Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 36 (Srpska).

*Brassica nigra* (L.) W.D.J. Koch., v-a Meg-Alt T semiros; L8, T7, H4, R4, N4; at: IX (cosm); hab: nop-I; dep-I; svp-I; zap-I; slj-I; UNE

Literature source: -

*Brassica oleracea* L., v Meg H semiros; L11, T10, H2, R7, N1; at: IX (ADV, kult, E, med); hab: zap-I; svp-I; nop-I; dep-I; liv-I; zap-I; UFI

Literature source: -

*Brassica rapa* L., v-a Mes-Mac H semiros; L8, T7, H4, R4, N4; at: IX (ADV, kult, E, med), ats- IX, atp- IX; hab: zap-I; slj-I; dep-I; nop-I; tra-I

Literature source: -

*Bunias erucago* L. [syn. *Erucago campestris* Desv.], n-v Mes T semiros; L8, T8, H4, R5, N3; at: III (n.med); hab: liv-V; pas-V; tra-IV; akp-III; kam-III; kor-II; zap-II; zao-II; zao-II; pko-II; slj-I; dep-I; UNE

Literature source: Rohlena 1905: 26 (um Podgorica verbreitet); Černjavski *et al.* 1949: 70 (Titograd); Bulić 1994: 66 (Čemovsko polje, Kuće Rakića, Srpska); Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 34 (Tološi, Vlok V).

*Calepina irregularis* (Asso) Thell. [syn. *C. corvini* (All.) Desv.], n-a Mes-Meg T semiros; L8, T8, H3, R5, N3; at: IX (ADV, AS); hab: tra-V; svp-V; zap-V; zao-V; gro-V; pas-V; liv-V; tra-IV; dep-IV; zar-III; nop-II; zid-I; UNE

Literature source: Rohlena 1905: 26 (auf Feldern um Podgorica verbreitet, oft massenhaft); Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 39 (Omerbožovići).

*Capsella bursa-pastoris* (L.) Medik., n-aut Mi-Mes H semiros bienn/T ros; L7, Tx, H5, R5, N4; at: IX (cosm); hab: par-III; nor-II; svp-I; UNE

Literature source: Rohlena 1905: 26 (Podgorica); Bulić 1994: 70 (Čemovsko polje, Srpska); Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 37 (Kuče Rakića).

*Capsella rubella* Reut., n-a Mi T semiros; L8 T9, H2, R4, N2; at: III (eurimed); hab: liv-V; tra-V; gro-V; gaz-V; zap-V; zao-V; pas-V; kam-IV; svp-IV; pst-IV; put-III; nop-II; dep-II; pot-II; zid-I; UNE

Literature source: -

*Cardamine glauca* Spreng., a Mi-Mes T scap; L8, T4, H4, R3, N2; at: IV (orof n.med); hab: pno-III; pot-II; kor-I; UNE

Literature source: Rohlena 1942: 79 (frequens).

*Cardamine graeca* L., v-a Mi-Mes T semiros; L5, T4, H7, R7, N7; at: III (n.med); hab: pno-IV; nop-III; pot-II; kor-II; sik-I; ulk-I; svp-I; pas-I; tra-I, UNE

Literature source: Hadžiablahović 2010: 35 (caffè "Grand").

*Cardamine hirsuta* L., n-v Mi-Mes T semiros; L7, T8, H3, R5, N4; at: IX (cosm); hab: liv-V; kam-V; gro-V; tra-V; pot-V; zao-V; kam-IV; svp-IV; zap-III; dep-II; ulk-III; zid-II; pkg-I; kro-I; nop-I; UNE

Literature source: Stešević 2002: 20 (Gorica); Hadžiablahović 2010: 35 (Tološi, Omerbožovići).

*Cardamine impatiens* L., v-a Mi-Mes T scap; L5, T5, H6, R7, N8; at: V (euras); hab: pno-I; UFO

Literature source: -

(-) *Cardamine pratensis* L. subsp. *pratensis*, a Mes H semiros; L5, T5, H7, Rx, Nx; at: V (euro); hab: pls-III; pno-I; UFO

Literature source: Bulić 1994: 67 (Čemovsko polje).

*Cardamine pratensis* L. subsp. *matthioli* (Moretti) Nyman [syn. *C. mathioli* Moretti], a Mes H semiros; L0, T0, H0, R0, N0; at: VI (orof se.euro); hab: pls-III; pno-I; UFO

Literature source: -

*Cardaria draba* (L.) Desv. [syn. *Lepidium draba* L.], v-a Meg H scap; L8, T7, H3, R8, N4; at: IX (eurimed-turan); hab: zap-V; dep-V; nop-III; svp-III; gro-II; pas-III; liv-II; put-I; UNE

Literature source: Hadžiablahović 2010: 38 (Zelenika, Tološi).

*Coronopus squamatus* (Forssk.) Asch. [syn. *C. procurens* Gilib.], v-a Mi T rept; L8, T8, H3, R4, N2; at: IX (subcosm); hab: dep-I; svp-I; UFI

Literature source: Rohlena 1902a: 9 (in campo Lješkopolje prope Podgorica); Bulić 1994: 69 (Srpska).

*Descurainia sophia* (L.) Webb ex Prantl [syn. *Sisymbrium sophia* L.], a Mes-Meg T scap; L7, T7, H3, R6, N2; at: IX (cosm); hab: zap-I; put-I; UFI

Literature source: Hadžiablahović 2006: 95 (Trg Božane Vučinić, ruderalis).

*Diplotaxis muralis* (L.) DC., a-aut Mes T semiros/H semiros; L8, T8, H3, R5, N5; at: VI (n.med-atl); hab: pkg-III; pko-III; zao-II; gro-II; slj-II; gaz-II; svp-II; nop-I; akp-I; kro-I; dep-I; tra-I; ulk-I; zid-I; gro-I; put-I; UNE

Literature source: Rohlena 1902a: 8 (in ruderalis et agris ad Podgorica); Bulić 1994: 69 (Čemovsko polje, Srpska); Stešević 2002 (Gorica).

*Diplotaxis tenuifolia* (L.) DC., a-aut Mes H semiros; L8, T7, H4, R6, N5; at: VI (submed-subatl); hab: zap-V; gro-V; dep-IV; svp-IV; nao-IV; nop-III; pkg-II; liv-III; pas-II; slj-III; pno-II; kor-II; UNE



Literature source: Rohlena 1942: 91 (Podgorica.); Bulić 1994: 69 (Ćemovsko polje, Kuće Rakića); Hadžiablahović 2010: 38 (Zelenika, Kuće Rakića, the left riverbank of Morača).

*Draba muralis* L., v Mi-Mes T semiros; L6, T8, H2, R4, N2; at: VIII (circumbor); hab: pot-II; kor-I; UFO  
Literature source: Rohlena 1905: 24 (um Podgorica.); Bulić 1994: 69 (Kuče Rakića).

*Erophila spathulata* A. F. Láng [syn. *E. verna* (L.) Chevall. subsp. *spathulata* (Láng) Walters, *Draba verna* L. subsp. *spathulata* (Láng.) Rouy & Foucaud], n-v N- Mi T ros; L9, T7, H2, R4, N1; at: IX (cosm); hab: kam-V; gro-V; akp-V; pot-V; kor-V; put-III; pkg-III; svp-III; liv-II; kro-II; tra-II; zid-I; UNE  
Literature source: Rohlena 1942: 91 (frequens); Černjavski *et al.* 1949: 70 (Ćemovsko polje); Bulić 1994: 69 (Ćemovsko polje, Kuće Rakića); Stešević 2002: 20 (Gorica).

*Erysimum carniolicum* Dolliner [syn. *E. erysmoides* (L.) Fritsch. var. *carniolicum* (Doll.) Beck.], a-aut Mes-Mac H semiros bienn; L0, T0, H0, R0, N0; at: I (e.alp-ilir); hab: sik-III; kam-III; kor-II; svp-I; pas-I; UFO  
Literature source: Rohlena 1942: 77 (Podgorica); Bulić 1994: 66 (Ćemovsko polje, Kuće Rakića).

*Hesperis laciniata* All. [syn. *H. glutinosa* Vis.], v-a Mes-Mac H scap; L5, T8, H2, R7, N1; at: IV (n.medit-mont); hab: sik-I; UFO  
Literature source: Hadžiablahović 2010: 34 (Dajbabe).

*Hornungia petraea* (L.) Rchb. [syn. *Hutschinsia petraea* R.Br.], n-v N T semiros; L9, T7, H2, R6, N2; at: III (eurimed); hab: akp-V; kam-V; pot-V; kor-III; put-II; gro-II; liv-I; pkg-I; zid-I; UFO  
Literature source: Rohlena 1905: 26 (Podgorica); Bulić 1994:70 (Kuče Rakića); Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 37 (Kuče Rakića).

*Lepidium campestre* (L.) R. Br., a Mac T semiros; L7, T7, H4, R5, N4; at: IX (cosm); hab: svp-III; zao-III; liv-II; zap-II; put-I; tra-I; pot-I; UNE  
Literature source: Bulić 1994:70 (Ćemovsko polje, Kuće Rakića).

*Lepidium graminifolium* L., v-a Mes H scap; L8, T8, H3, Rx, N3; at: III (eurimed); hab: put-I; pot-I; zid-I; UFI  
Literature source: Bulić 1994: 71 (Ćemovsko polje, Kuće Rakića).

*Lepidium virginicum* L., a-aut Mes-Mac T scap; L8, T6, H4, Rx, N7; at: IX (ADV, AMS); hab: nop-IV; zap-IV; svp-IV; dep-III; kro-III; pko-III; put-III; gaz-II; gro-II; kam-I; UFI  
Literature source: Ivković 1981: 7 (Titograd); Hadžiablahović 2010: 38 (Tološi).

*Lobularia maritima* Desv., a-aut Mi-Mes Ch suffrut; L8, T9, H2, Rx, N1; at: II (stenomed); hab: zap-II; svp-II; put-II; ulk-II; pst-II; kro-II; liv-II; kam-I; nop-I; pkg-I; UNE  
Literature source: -

*Lunaria annua* L. subsp. *pachyrhiza* (Borbás) Hayek, v Mac-Meg H semiros; L4, T6, H6, R7, N6; at: I (c.submed); hab: ork-III; UFO  
Literature source:-

*Matthiola fruticulosa* (L.) Maire [syn. *M. tristis* R.Br.], v Mi-Mes Ch suffrut; L11, T10, H3, R7, N1; at: I (apen-dinar); hab: kor-III; akp-II; kam-I; liv-I; UFO  
Literature source: Rohlena 1902a: 8 (in collibus apricis ad Podgorica).

*Myagrum perfoliatum* L., v Mes T scap; L8, T8, H3, R3, N3; at: IX (ADV, AS); hab: zao-I; zap-I; nop-I; UNE  
Literature source: Rohlena 1905: 26 (auf einem Felde bei Doljani nächst Podgorica).

*Nasturtium officinale* R.Br., a Mes H scap; L7, T4, H11, R7, N7; at: IX (cosm); hab: pno-II; ulk-I; svp-I; UFO  
Literature source: -

*Peltaria alliacea* Jacq., a Mes-Mag H scap; L0, T0, H0, R0, N0; at: V (s.e.euro); hab: kor-I; sik-I; UFO  
Literature source: Rohlena 1905: 25 (in Gebüsch bei Podgorica).

*Raphanus raphanistrum* L. subsp. *raphanistrum*, v-a Meg T scap; L11, T5, Hx, R4, N5; at: IX (cosm); hab: zao-I; zap-I; svp-I; dep-I; liv-I; UNE

Literature source: Rohlena 1905: 19 (auf Feldern bei Podgorica); Bulić 1994: 71 (Ćemovsko polje, Srpska).

*Raphanus raphanistrum* L. subsp. *landra* (Moretti ex DC.) Bonnier & Layens [syn. *R. landra* Moretti ex DC.], v Mes-Meg T semiros; L0, T0, H0, R0, N0; at: III (eurimed); hab: dep-II; svp-I; zap-I; nop-I; liv-I; UNE

Literature source: -

*Raphanus sativus* L., v-aut Mes-Meg T semiros; L0, T0, H0, R0, N0; at: IX (ADV, kult, EAS)

Literature source: Rohlena 1942: 92 (cultis et spontaneus); Bulić 1994: 71 (Kuće Rakića, Srpska).

*Rorippa amphibia* (L.) Besser, a Mes-Meg H semiros; L7, T5, H10, R7, N8; at: VIII (eurosib); hab: pno-I; zap-I, UFO

Literature source: -

*Rorippa* × *anceps* (Wahlenb.) Rchb. [syn. *R. amphibia* × *sylvestris*, *R. prostrata* (J.P. Bergeret) Schniz & Thell., *Nasturtium anceps* (Wahlb.) Reichenb.], v Mes-Mac H semiros; L6, T7, H9, R5, N5; at: V (c.euro-subatl); hab: pno-II; rij-I; UFO

Literature source: Hadžiablahović 2010: 34 (Čepurci).

*Rorippa lippizensis* (Wulfen) Rchb. [syn. *Nasturtium lippizense* DC.], a Mes H semiros; L7, T6, H7, R7, N5; at: I (balk); hab: vli-IV; liv-III; kor-III; zao-III; pot-II; svp-II; pas-II; pno-II; UFO

Literature source: Hadžiablahović 2010: 35 (Plavi Dvor, Dajbabe).

*Rorippa sylvestris* (L.) Besser, v-aut Mes-Mac H semiros; L6, T6, H8, R8, N6; at: V (euras); hab: zap-V; pno-V; ulk-V; zao-V; put-IV; slj-IV; vli-III; dep-III; nop-III; svp-III; tra-III; pko-III; pkg-II; pko-II; UNE

Literature source: -

*Sinapis alba* L., v-a Mac-Meg T scap; L8, T10, H3, R7, N2; at: IX (ADV, kult, E-med); hab: zao-I; zap-I; nop-I; pno-I; dep-I; svp-I; UNE

Literature source: Rohlena 1942: 92 (Podgorica); Bulić 1994: 70 (Ćemovsko polje, Kuće Rakića, Srpska); Stešević 2002: 21 (Gorica).

*Sinapis arvensis* L., v-a Mes-Mac T scap; L7, T5, Hx, R8, N6; at: IX (cosm); hab: zao-II; zap-II; nop-II; liv-I; pas-I; svp-I; UNE

Literature source: Rohlena 1905: 23 (auf Feldern and Ruderalorten bei Podgorica).

*Sisymbrium officinale* (L.) Scop. [syn. *Chamaeplium officinale* Wallr.], a Mac-Meg T semiros; L8, T6, H4, Rx, N7; at: IX (cosm); hab: zap-V; gro-V; pas-V; svp-V; liv-IV; dep-IV; zao-III; pot-III; tra-III. Ulk-III; sik-II; kam-II; pst-II; sid-II; kro-I; UNE

Literature source: Rohlena 1905: 23 (Podgorica); Bulić 1994: 65 (Srpska); Hadžiablahović 2010: 33 (Tološi, Kuće Rakića).

*Thlaspi arvense* L., v-a Mes T scap; L6, T5, H5, R7, N7; at: IX (cosm); hab: kam: I

Literature source: Rohlena 1905: 25 (Podgorica); Bulić 1994: 70 (Kuće Rakića, Srpska).

*Thlaspi perfoliatum* L., v-a Mi-Mes T semiros; L8, T6, H4, R8, N2; at: V (paleotemp); hab: kam-III; kor-III; pot-II; liv-I; akp-I; UFO

Literature source: Hadžiablahović 2010: 37 (Kuće Rakića).

*Turritis glabra* L. [syn. *Arabis glabra* (L.) Bernh.], a Mes-Mac H semiros bienn; at: VIII (cirkpol); hab: sik-I; pas-I; UFO

Literature source: -

## CACTACEAE

*Opuntia vulgaris* Mill. [syn. *O. humifusa* Raf.], a Mac-Meg Ch herb succ; L9, T8, H3, R3, N2; at: IX (ADV, kult, AMN); hab: kam-II, kor-I, dep-I, kro-I, zid-I; UNE

Literature source: Stešević & Jovanović 2005: 69 (Podgorica).

### CALLITRICHACEAE

*Calitriche palustris* L. [syn. *C. verna* L.], rad nat HydG; L7, Tx, H12, R2, N1; at: VIII (cirkpol; hab: kan; UFO

Literature source: -

*Calitriche stagnalis* Scop., rad nat HydG; L9, T8, H12, R5, N1; at: V (euras); hab: kan; UFO

Literature source: -

### CAMPANULACEAE

*Asyneuma limonifolium* (L.) Janch. [syn. *Phyteuma tenuifolium* A. DC.], a Mes-Mac H scap; L9, T9, H3, R7, N2; at: III (n.e.med); hab: kam-II; sik-I; liv-I; UFO

Literature source: Rohlena 1902b: 4 (ad Kakaricka gora prope Podgorica c. 100m).

*Campanula erinus* L., v Mi-Mes T scap; L7, T8, H2, Rx, N1; at: II (stenomed); hab: kam-III; pot-II; put-II; zid-I; akp-I; kro-I; gro-I; ulk-I; UNE

Literature source: Rohlena 1904: 69 (Podgorica); Bulić 1991: 137 (Kuće Rakića); Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 96 (Kuće Rakića).

*Campanula lingulata* Waldst. & Kit., v-a Mes H scap bienn; L7, T7, H4, R8, N3; at: I (apen-balk); hab: kam-V; akp-IV; liv-III; kor-III; pot-II; gro-I; UFO

Literature source: Šmarda 1968: 24 (Titograd- Morača canyon); Bulić 1991: 137 (Kuće Rakića, Srpska); Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 96 (Dajbabska gora).

*Campanula austroadiatica* D. Lakušić & Kovačić, a-aut Mes-Mac Ch suffrut; L11, T8, H2, R7, N1; at: I (amfiadiat); hab: pot-IV; kor-III; zid-II; put-I; UFO

Literature source: Rohlena 1912: 79 (Podgorica, as *C. pyramidalis* L.); Bulić 1991: 137 (Kuće Rakića, as *C. pyramidalis*); Stešević 2002: 21 (Gorica, as *C. pyramidalis*); Hadžiablahović 2010: 97 (Kuće Rakića, as *C. pyramidalis*).

*Campanula ramosissima* Sibth. & Sm., a Mes-Mac T scap; L7, T6, H4, R5, N4; at: I (ilir); hab: sik-I; liv-I; UFO

Literature source: Rohlena 1905: 69 (bei Podgorica).

*Campanula rapunculus* L., a-aut Mes-Meg H scap bienn; L7, T7, H4, R6, N4; at: V (paleotemp); hab: liv-V; sik-IV; kam-III; pot-II; zao-II; akp-II; svp-I; UNE

Literature source: Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 97 (Dajbabska gora, Podgorica).

*Campanula trachelium* L., a Mes-Meg H semiros; L4, T5, H5, R8, N8; at: V (paleotemp); hab: sik-II; liv-I; UFO

Literature source: Stešević 2002: 21 (Gorica).

*Edraianthus tenuifolius* (Waldst. & Kit) A. DC., v-a Mi-Mes Ch suffrut; L0, T0, H0, R0, N0; at: I (ilir-adiat); hab: akp-V; kor-V; kam-V; liv-II; gro-II; UFO

Literature source: Rohlena 1912: 83 (Podgorica); Bulić 1991: 138 (Kuće Rakića); Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 97 (Dajbabska gora, Kuće Rakića).

*Legousia falcata* (Ten.) Fritsch., a Mes-Mac T scap; L7, T8, H4, R5, N3; at: II (stenomed); hab: gro-I; sik-I; UFO

Literature source: -

*Legousia hybrida* (L.) Delarbre [syn. *Specularia hybrida* DC.], a Mi-Mes T scap; at: VI (med-atl); hab: pot-II; sik-I; liv-I; UFO

Literature source: Rohlena 1904: 69 (bei Podgorica selten); Hadžiablahović 2010: 97 (Kuće Rakića).

*Legousia speculum-veneris* (L.) Chaix [syn. *Specularia speculum* DC.], v-a Mi-Mes T scap; L7, T8, H4, Rx, N0; at: III (eurimed); hab: pot-II; sik-I; liv-I; UFO

Literature source: Rohlena 1905: 69 (um Podgorica) & 1942: 351 (im campo ad Podgorica).

### CANNABACEAE

*Cannabis sativa* L., a Mes T scap; L8, T7, H5, R5, N5; at: IX (ADV, AS); hab: svp-I; zar-I; UFI

Literature source: -

*Humulus lupulus* L., a SH herb; L7, T6, H8, R6, N8; at: IX (cosm); hab: ork-III; ziv-II; pot-I; sir-I; UFO  
Literature source: Szyszyłowicz 1888: 60 (circa Podgorica); Rohlena 1902a: 15 (in fruticetis ad Podgorica); Bulić 1991: 133 (Kuće Rakića, Srpska).

### CAPRIFOLIACEAE

*Lonicera caprifolium* L., a S lig; L6, T5, H6, Rx, N5; at: V (se.euro-pont); hab: sik-I; ziv-I; pas-I; UFO

Literature source: Rohlena 1905: 55 (Im Gebüsch um Podgorica); Stešević 2002: 31 (Gorica).

*Lonicera etrusca* Santi, semp S lig; L7, T8, H3, R6, N4; at: III (eurimed); hab: sik-II; kor-II; kam-I; ziv-II; UFO

Literature source: Rohlena 1905: 55 (bei Farmaki nächst Podgorica); Hadžiablahović 2010: 94 (Dajbabska gora, Kuće Rakića).

*Lonicera japonica* Thunb., fo dec NP caesp; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: pot-I; svp-I

Literature source: -

*Lonicera xylosteum* L., fo dec NP caesp; L5, T5, H5, R7, Nx; at: V (euro-w.as); hab: pot-I; sik-I; ziv-I; UFO

Literature source: -

*Sambucus ebulus* L., a Alt G rad scap; L8, T6, H5, R8, N7; at: III (eurimed); hab: pot-II; svp-II; ziv-II, liv-I, ork-I; pls-I; UFO

Literature source: Rohlena 1905: 55 (bei Podgorica gemein); Hadžiablahović 2010: 94 (Ržanički most).

*Sambucus nigra* L., fo dec Mi P caesp; L7, T5, H5, Rx, N9; at: V (euro-kavk); hab: ork-III; pot-II; UFO

Literature source: -

*Viburnum tinus* L., fo semp NP caesp; L5, T9, H4, R5, N3; at: IX (ADV, kult, med- EASAF); hab: pot-II

Literature source: -

### CARYOPHYLLACEAE

*Agrostemma githago* L. [syn. *Lychnis githago* Scop., *Githago segetum* Desf.], v-a Mes-Meg T scap; L7, Tx, Hx, R4, N3; at: IX (ADV, EAS)

Literature source: Bulić 2008: 105 (Duklja).

*Arenaria serpyllifolia* L., v-a Mi T scap; L9, T5, H4, Rx, Nx; at: IX (cosm)

Literature source: Rohlena 1905: 32 (Podgorica); Hadžiablahović 2010: 23 (Tološi, Kruševac, Agrokombinat, Kuće Rakića, Ržanički most, Dajbabe).

*Arenaria serpyllifolia* L. subsp. *leptocladus* (Rchb.) Nyman [syn. *A. leptocladus* (Rchb.) Guss.], v-a Mi-Mes T scap; L9, T9, H2, R3, N1; at: V (paleotemp); hab: akp-V; kro-V; put-V; pkg-V; gro-V; svp-V; gaz-IV; nop-IV; pas-IV; tra-IV; kam-IV; zap-IV; zao-IV; liv-III; pst-III; zid-III; ulk-III; pot-III; pko-II; pno-II; UNE

Literature source: Černjavski *et al.* 1949: 68 (Ćemovsko polje); Bulić 1994: 56 (Ćemovsko polje); Stešević 2002: 21 (Gorica).

*Cerastium brachypetalum* Pers. s.l. [incl. *Cerastium brachypetalum* Pers. subsp. *tenoreanum* (Ser.) Soó (syn. *C. brachypetalum* Pers. var. *eglandulosum* Fzl.), *C. brachypetalum* subsp. *tauricum* (Sprengel) Murb. (syn. *C. brachypetalum* Pers. var. *glandulosum* Koch.)], v N-Mi T semiros; L11, T7, H3, R7, N2; at: III (eurimed); hab: kam-V; liv-V; akp-V; gro-V; put-IV; zao-III; svp-III; kor-III; pas-III; kro-III; tra-III; nop-III; zap-II; dep-II; pst-II; zid-I; pkg-I; UNE

Literature source: Rohlena 1905: 32 (*C. brachypetalum* var. *eglandulosum* Fzl., um Podgorica nicht selten); Černjavski *et al.* 1949: 68 (*C. brachypetalum* Pers. var. *glandulosum*, Titograd); Bulić 1994: 55 (*C. brachypetalum* Pers. var. *glandulosum*, Ćemovsko polje, Kuće Rakića); Hadžiablahović 2010: 25 (*C. brachypetalum* Pers. subsp. *tenoreanum*, Duvanski kombinat, *C. brachypetalum* Pers. var. *glandulosum*, Dajbabska gora).

*Cerastium glomeratum* Thuill. [syn. *C. viscosum* auct. mult], v-a N-Mi T semiros; L7, Tx, H5, R5, N5; at: IX (subcosm); hab: zao-V; liv-V; tra-V; pas-V; gro-V; svp-V; put-IV; akp-III; zap-III; gaz-III; pkg-III; pst-III; kor-II; nop-II; zar-II; kro-I; zid-I; UNE

Literature source: Rohlena 1902a: 11 (cum prioribus ad Podgorica); Bulić 1994: 56 (Kuće Rakića, Momišičko polje); Stešević 2002: 21 (Gorica).

*Cerastium ligusticum* Viv. subsp. *trichogynum* (Möschl) P.D. Sell & Whitehead [syn. *C. trichogynum* Möschl], v-a Mi T semiros; L11, T9, H2, R3, N1; at: III (c.med-c.submed); hab: akp-IV; kor-III; liv-II; svp-II; kor-II; nop-I; put-I; pas-I; UFO

Literature source: -

*Cerastium pumillum* Curtis subsp. *glutinosum* (Fr.) Jalas [syn. *C. glutinosum* Fr.], v Mi T semiros; L8, T7, H2, R8, N1; at: V (med-submed-pont); hab: svp-III; liv-III; pas-II; sik-II; tra-II; gaz-II; gro-II; akp-II; kro-II; put-II; tra-I; UNE

Literature source: Hadžiablahović 2010: 25 (Omerbožovići).

*Cerastium semidecandrum* L., v-a N-Mes T semiros; L8, T7, H4, Rx, Nx; at: IX (cosm); hab: akp-IV; kor-III; liv-III; svp-III; pot-III; gaz-II; kam-II; put-II; tra-II; gro-I; kro-I; UNE

Literature source: Černjavski *et al.* 1949: 69 (Čemovsko polje); Bulić 1994: 55 (Čemovsko polje).

*Dianthus armeria* L., v-a Mes-Mac T scap/H scap bienn; L8, T6, H3, R3, N2; at: V (euro-kavk); hab: liv-III; gro-II; svp-I; sik-I; kor-I; slj-I; zao-I; vli-I; nop-I; UNE

Literature source: Stešević 2002: 21 (Gorica).

*Dianthus ciliatus* Guss. subsp. *dalmaticus* (Čelak.) Hayek [syn. *D. dalmaticus* Čelak, *D. ciliatus* Guss. subsp. *dalmaticus* (Čelak.) Hayek var. *medunensis* (Beck & Sz.) Hayek], a-aut Mes-Mac H caesp; L0, T0, H0, R0, N0; at: I (adriatic); hab: kam-II; sik-I; kor-I; UFO

Literature source: Rohlena 1912: 8 (Podgorica); Janchen 1919: 87 (Mauern der Ruinen von Duklja).

*Dianthus monspessulanus* L., a-aut Mes-Mac H caesp; L6, T7, H4, R2, N5; at: VII (orof. SE); hab: kam-II; sik-II; kor-II; pot-II; liv-II; sik-II; UFO

Literature source: Hadžiablahović 2010: 28 (Ržanički most, Dajbabska gora, Ruće Rakića, Omerbožovići).

*Dianthus sylvestris* Wulfen, v-a Mes H scap; L8, T7, H3, R7, N4; at: IV (med-mont, ilir-apan); hab: kor-IV; kam-III; sik-II; akp-II; liv-II; pas-I; svp-I; zaop-I; UFO

Literature source: Rohlena 1902a: 10 (in collibus graminosis ad Podgorica) & 1933: 5 (circa Podgorica); Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 28 (Ržanički most, Ruće Rakića, the left river bank of Morača).

*Herniaria glabra* L., v-a N-Mi T rept; L9, T5, H4, R2, N2; at: V (paleotemp); hab: akp-V; gaz-III; pko-II; pno-II; put-I; UNE

Literature source: Rohlena 1902a: 20 (in campo prope Podgorica c.30m) & 1942: 36 (Kokoti, Podgorica); Černjavski *et al.* 1949: 68 (Čemovsko polje); Bulić 1994: 57 (Čemovsko polje); Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 26 (Blok V, Plavi Dvor, Tološka šuma, Dajbabska gora, Agrokombinat, Kuće Rakića).

*Minuartia mediterranea* (Ledeb.) K. Maly; v Mi T scap; L11, T9, H2, R3, N2; at: III (n.w.med); hab: akp-II; pko-II; svp-I; kro-I; UNE

Literature source: Hadžiablahović 2010: 23 (Tuški put).

*Minuartia viscosa* (Schreb.) Schinz & Thell. [syn. *Alsine viscosa* Schreb., *A. tenuifolia* (L.) Crantz. var. *viscosa* (Schreber) M. et K.], v-a Mi T scap; L7, T7, H3, R3, N2; at: V (j.i. ev); hab: akp-II; kro-II; liv-I; svp-I; pkg-I; put-I; pot-I; UNE

Literature source: Rohlena 1902a: 11 (in aridis regionis inferioris frequens, ad Podgorica); Bulić 1994:55 (Kuče Rakića).

*Moenchia mantica* (L.) Bartl., v Mi-Mes T scap; L11, T9, H2, R2, N1; at: III (sj. med); hab: liv-V; vli-V; svp-IV; akp-IV; gro-III; zao-III; kam-III; pas-III; tra-II; UNE

Literature source: Rohlena 1905: 32 (auf trockenen Grasplätzen verbreitet, um Podgorica); Bulić 1994: 56 (Srpska); Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 25 (Dajbabe, Aluminijski kombinat, Blok V, Kruševac).

*Paronychia kapela* (Hacq.) A. Kern., v-a N-Mi Ch herb caesp-rept; L11, T4, K5, R7, N3; at: IV (med-mont); hab: kor-IV; akp-III; UFO

Literature source: Rohlena 1902a: 20 (in pascuis siccis et lapidosis ad ripas fluvii Morača er rivi Ribnica in campo Podgorica) & 1905: 50 (bei Farmaki nächst Podgorica); Bulić 1994:57 (Čemovsko polje, Rakića most, Kuće Rakića); Hadžiablahović 2010: 25 (Ržanički most).

*Petrorhagia obcordata* (Margot & Reut.) Greuter & Burdet [syn. *Dianthus glumaceus* B.Ch, *Kohlrauschia glumacea* (Chaub. & Bory) Hayek var. *obcordata* (Margot & Reut.) Hayek], v-a Mes T scap; L0, T0, H0, R0, N0; at: I (ilir-balk); hab: liv-IV; pas-IV; kam-IV; kor-IV; akp-IV; tra-III; zap-III; svp-III; gro-III; nop-III; pkg-II; zao-II; UNE

Literature source: Rohlena 1902a: 11 (in campo ad Podgorica, Lješkopolje c. 20m, et collis Gorica c.100m); Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 27 (Ržanički most, Blok V, Tološi, Agrokombinat).

*Petrorhagia prolifera* (L.) P.W. Ball & Heywood, v-aut Mes T scap; L8, T5, H2, Rx, N2; at: III (eurimed); hab: liv-V; gro-V; akp-V; svp-V; pas-V; kam-IV; nop-IV; zao-IV; pkg-IV; tra-IV; dep-III; put-III; zar-III; kro-II; pst-II; pko-II; zid-I; UNE

Literature source: Černjavski *et al.* 1949: 69 (Titograd, Vranići); Bulić 1994:59 (Ćemovsko polje, Kuće Rakića); Stešević 2002: 21 (Gorica).

*Petrorhagia saxifraga* (L.) Link [syn. *Tunica saxifraga* L., *Gypsophila saxifraga* L.], v-a Mes Ch herb caesp; L9, T8, H2, R8, N3; at: III (eurimed); hab: liv-V; akp-V; kam-V; kro-V; kor-V; pot-V; gro-IV; svp-IV; pkg-III; pko-III; pst-II; nop-III; dep-II; tra-I; UNE

Literature source: Rohlena 1902a: 10 (Podgorica) & 1942: 46 (in rupibus calcareis ubique frequens, Podgorica); Černjavski *et al.* 1949: 69 (Ćemovsko polje); Bulić 1994: 59 (Ćemovsko polje); Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 28 (Ržanički most, Blok V, Dajbabe, Tuški put).

*Petrorhagia velutina* (Guss.) P.W. Ball & Heywood [syn. *Kohlrauschia velutina* (Guss.) Rchb.], v-a Mes T scap; L11, T8, H2, R8, N2; at: III (j.med); hab: liv-IV; akp-IV; tra-III; svp-II; kor-IV; pot-III; kam-II; pno-II; UNE

Literature source: Rohlena 1905: 29 (auf durren Grasplätzen bei Podgorica); Černjavski *et al.* 1949: 69 (Ćemovsko polje); Bulić 1994: 59 (Ćemovsko polje, Kuće Rakića, Srpska); Hadžiablahović 2010: 28 (Ržanički most, Kruševac, Tološi, Agrokombinat).

*Polycarpon tetraphyllum* (L.) L., v-a Mi T scap; L7, T7, H4, R5, N6; at: III (eurimed); hab: ulk-III; put-III; gaz-II; svp-II; zar-I; kro-I; UNE

Literature source: Hadžiablahović 2010: 26 (City centre, Blok V).

*Sagina apetala* Ard., v Mi-Mes T scap; L8, T7, H6, R4, N5; at: III (eurimed); hab: kro-V; put-III; akp-II; UNE

Literature source: Rohlena 1905: 32 (Podgorica); Hadžiablahović 2010: 26 (Plavi Dvor, Agrokombinat).

*Saponaria officinalis* L., a-aut Meg H scap; L7, T6, H5, R7, N5; at: VIII (eurosib); hab: pno-IV; svp-II; zap-II; vli-II; ulk-I; dep-I; gro-I; nop-I; UNE

Literature source: Rohlena 1905: 29 (Podgorica); Černjavski *et al.* 1949: 69 (Titograd); Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 27 (Kuće Rakića, the left river bank of Morača).

*Scleranthus annuus* L., a-aut Mi T scap; L6, T5, Hx, R2, N4; at: V (paleotemp); hab: akp-I; gaz-I; pko-I; kam-I; svp-I; UFO

Literature source: Rohlena 1905: 49 (um Podgorica verbreitet); Černjavski *et al.* 1949: 68 (Ćemovsko polje); Bulić 1994: 56 (Ćemovsko polje, Kuće Rakića); Stešević 2002: 21 (Gorica).

*Silene conica* L., v Mi-Mes T scap; L9, T7, H2, R5, N2; at: V (paleotemp); hab: liv-IV; akp-III; kam-III; pot-III; kor-III; nop-II; svp-II; pas-II; pno-I; put-I; UFO

Literature source: Rohlena 1905: 28 (auf durren steinigen Stellen bei Podgorica); Parolly 1995: 62 (Ržanički most); Bulić 1994: 58 (Kuće Rakića, Srpska); Hadžiablahović 2010: 26 (Kuće Rakića).

*Silene coronaria* (L.) Clairv. [syn. *Lychnis coronaria* (L.) Desr.], v-a Mes-Mac H semiros; L5, T7, H4, R2, N4; at: IX (eurimed-turan); hab: liv-I; sik-I; UFO

Literature source: Rohlena 1942: 57 (Podgorica, Kokoti).

*Silene flos-cuculi* (L.) Greuter & Burdet [syn. *Lychnis flos-cuculi* L.], v-a Mes-Meg H scap; L7, T5, H6, Rx, N6; at: VIII (eurosib) hab: vli; pls; UFO

Literature source: -

*Silene gallica* L., v-a Mes T scap; L8, T9, H3, R2, N1; at: IX (subcosm); hab: liv-IV; akp-III; vli-II; zao-II; UFO

Literature source: Hadžiablahović 2010: 26 (Dom Vojske).

*Silene gallinyi* Rchb. [syn. *S. trinervia* Sebast. & Mauri], a Mes T scap; L7, T8, H3, R5, N4; at: III (e.med); hab: liv-II; svp-I; pot-I; gro-I; vli-I; UFO

Literature source: Rohlena 1902a: 10 (in pratis siccis in planitie prope Podgorica, Lješkopolje, Čemovsko polje); Bulić 1994: 58 (Kuće Rakića, Srpska).

*Silene italica* (L.) Pers., a Mes-Mac H semiros; L5, T7, H4, R6, N5; at: III (eurimed); hab: sik-II; kam-I; liv-I; kor-I; UFO

Literature source: -

*Silene latifolia* Poir. subsp. *latifolia*, [syn. *Melandrium latifolium* (Poir.) Maire], v-aut Meg H scap bienn/H scap; L6, T9, H3, R4, N2; at: II (stenomed); hab: zap-IV; ork-IV; gro-III; ziv-III; svp-II; sik-II; liv-II; vli-I; pot-II; UNE

Literature source: Hadžiablahović 2010: 27 (Dahna, Kruševac).

*Silene latifolia* Poir. subsp. *alba* (Mill.) Greuter & Burdet [syn. *S. alba* (Mill.) E.H.L.Krause, *Melandrium pratense* Roehling, *M. album* (Mill.) Garcke], a-aut Meg H scap bienn/H scap; L8, Tx, H4, Rx, N7; at: V (paleotemp); hab: ork-II; sik-II; ziv-I; UNE

Literature source: Rohlena 1905: 28 (um Podgorica verbreitet).

*Silene otites* (L.) Wibel, a Mes-Mac H semiros; L8, T7, H2, R8, N0; at: V (euras); hab: kam-I; sik-I; UFO

Literature source: Rohlena 1902a: 10 (in saxis calcareis prope Podgorica (Malo brdo, Duklja, Gorica); Stešević 2002 (Gorica); Hadžiablahović 2010: 27 (Ržanički most).

*Silene paradoxa* L. a Mes-Mac H semiros; L5, T7, H4, R6, N5; at: IV (sj. med-mont); hab: sik- II; kam- I; liv- I; kor- I; UFO

Literature source: Hadžiablahović 2009: 27 (Kuće Rakića, Ržaniči most).

*Silene vulgaris* (Moench) Garcke, v-a Mac-Meg H scap; L8, Tx, H4, R7, N2; at: IX (subcosm); hab: liv-V; gro-V; kam-V; svp-IV; akp-IV; kor-IV; nop-IV; pko-IV; pno-IV; pas-IV; slj-III; zao-IV; pkg-II; tra-II; kro-I; UNE

Literature source: Rohlena 1942: 52 (frequens); Černjavski *et al.* 1949: 69 (Titograd); Bulić 1994: 58 (Čemovsko polje); Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 27 (Kuće Rakića, Dajbabe, Plavi Dvor, Sastavci).

*Stellaria media* L., n-aut Mi T rept; L6, Tx, H4, R7, N8; at: IX (cosm); hab: gaz-V; tra-V; gro-V; pas-V; svp-V; zao-V; liv-V; pst-IV; ulk-IV; dep-IV; put-II; zar-II; zid-II; UNE

Literature source: Rohlena 1905: 31 (um Podgorica verbreitet); Bulić 1994: 55 (Čemovsko polje, Kuće Rakića); Stešević 2002: 21 (Gorica); Hadžiablahović 2010: 29 (Tološi, Sastavci, Dahna, Ruće Rakića).

*Vaccaria hispanica* (Mill.) Rauschert [syn. *V. pyramidata* Medik.], v Mes T scap; L7, T6, H2, R9, N0; at: IX (ADV, AS); hab: liv-I; UFO

Literature source: Rohlena 1905: 29 (trockene Grasplätze bei den Ruinen von Duklja nächst Podgorica häufig).

## CELASTERACEAE

*Evonymus europaeus* L. [syn. *E. vulgaris* Mill.], fo dec NP caesp; L6, T5, H5, R8, N5; at: V (euras); hab: sik-II, ziv-I, ork-I; UFO

Literature source: Rohlena 1905: 35 (um Podgorica verbreitet); Hadžiablahović 2010: 63 (Kuće Rakića).

## CERATOPHYLLACEAE

*Ceratophyllum demersum* L., sbm HydG; L6, T7, H12, R8, N8; at: IX (subcosm); hab: kan; UFO

Literature source: -

## CHENOPODIACEAE

*Atriplex patula* L., aut Meg-Alt T scap; L6, T5, H5, R7, Nx; at: VIII (circumbor); hab: zap-II; zao-I; svp-I; dep-I; pas-I; tra-I; slj-I; UFI

Literature source: Bulić 1994: 53 (Kuće Rakića).

*Beta vulgaris* L., v Meg-Alt T scap; L11 T7, H6, R6, N5; at: III (eurimed); hab: svp-I

Literature source: -

*Chenopodium album* L., a-aut Meg-Alt T scap; L7, T7, H4, R5, N7; at: IX (subcosm); hab: zao-V; zap-V; dep-V; svp-V; pko-V; liv-III; nop-III; put-III; ulk-III; kro-II; pno-II; UNE

Literature source: Rohlena 1902a: 12 (in ruderalis et opidis in Podgorica, c. 30m); Bulić 1994: 53 (Ćemovsko polje, Kuće Rakića); Stešević 2002: 22 (Gorica); Hadžiablahović 2010: 22 (Agrokombinat, Kuće Rakića).

*Chenopodium ambrosioides* L., a-aut Meg-Alt T scap; L8, T7, H2, R5, N5; at: IX (ADV, AMC-AMS) hab: zap-II; put-I; slj-I; UFI

Literature source: -

*Chenopodium botrys* L., a-aut Mes-Mac T scap; L8, T9, H3, Rx, N6; at: IX (subcosm); hab: pko-III; slj-III; dep-II; zap-II; akp-I; put-I; svp-I; kam-I; UNE

Literature source: Rohlena 1942: 34 (Podgorica); Bulić 1994: 53 (Srpska).

*Chenopodium glaucum* L., a-aut Meg-Alt T scap; L8, T6, H6, Rx, N9; at: IX (subcosm); hab: svp-I

Literature source: -

*Chenopodium hybridum* L., a-aut Mac-Meg T scap; L7, T5, H5, R8, N8; at: V (euras); hab: zao-I; ulk-I; UFI

Literature source: -

*Chenopodium multifidum* L., a-aut Mes-Meg H scap rept; L8, T7, H2, R5, N5; at: IX (ADV, AMS) hab: zap-I; nop-I; put-I; slj-I; svp-I; UFI

Literature source: -

*Chenopodium murale* L., a-aut Mac-Meg T scap; L8, T7, H4, Rx, N9; at: IX (subcosm); hab: zap-V; svp-IV; ulk-IV; dep-IV; pko-III; pas-III; zao-III; pst-III; pno-III; slj-II; nop-II; zar-II; put-I; kro-I; pkg-I; UNE

Literature source: Rohlena 1902a: 12 (in sepibus et muri opidi ad Podgorica).

*Chenopodium opulifolium* Schrad. ex W.D.J.Koch & Ziz., a-aut Mes T scap; L8, T7, H3, Rx, N6; at: V (paleotemp); hab: zap-III; svp-II; nop-II; zar-II; pas-I; pst-I; dep-I; tra-I; UNE

Literature source: Rohlena 1902a: 12 (in ruderalis et opidis in Podgorica); Bulić 1994: 53 (Kuče Rakića).

*Chenopodium polyspermum* L., a-aut Mes-Mac T scap; L6, T5, H6, R4, N8; at: V (paleotemp); hab: zap-I; UNE

Literature source: -

*Chenopodium strictum* Roth [syn. *C. album* L. subsp. *striatum* (Kras) Mur, *C. striatum*], a-aut Mes-Meg T scap; L0, T0, H0, R0, N0; at: III (eurimed); hab: zap-III; svp-II; slj-II; dep-II; kor-I; UNE

Literature source: Stešević *et al.* 2008 (Podgorica).

*Chenopodium vulvaria* L., v-aut Mes-Meg T scap; L7, T7, H4, Rx, N9; at: III (eurimed); hab: zao-II; svp-I; zar-I; UNE

Literature source: Rohlena 1942: 34 (Lješko polje prope Podgorica); Bulić 1994: 53 (Srpska).

*Polycnemum arvense* L., a Mes T caesp; L8, T7, H3, R2, N1; at: V (euras); hab: zao-II; gaz-II; pko-I; nop-I; put-I; UFO

Literature source: Rohlena 1902a: 12 (in arenosis planitie Podgoricensis) Bulić 1994: 52 (Srpska).

*Polycnemum majus* A.Braun, a Mes T caesp; L8, T7, H3, R2, N1; at: V (euras); hab: zap-I; gaz-I; akp-I; svp-I; pkg-I; UNE

Literature source: Rohlena 1902a: 12 (in campo Lješkopolje prope Podgorica); Bulić 1994: 52 (Ćemovsko polje).

## CISTACEAE

*Cistus incanus* L., [syn. *C. villosus* auct.], fo semp NP caesp; L11, T9, H2, R3, N2; at: II (stenomed); hab: kam-I; UFO

Literature source: Pulević & Lakušić 1983: 21 (Cijevna near Titograd).

*Fumana ericoides* (Cav.) Gand., v Mes Ch suffr caesp rept; L11, T9, H2, Rx, N1; at: II (stenomed); hab: kor-II, pot-I, akp-I, liv-I; UFO

Literature source: -

*Fumana procumbens* (Dunal) Gren. & Gordon [syn. *F. nudiflora* Janch., *F. vulgaris* Spach.], v-a Mi-Mes Ch suffr rept; L9, T6, H3, R7, N1; at: V (eurimed-pont); hab: akp-V, kor-V, kam-V, pot-III, pko-II, nop-II, svp-I; UFO

Literature source: Rohlena 1902a: 9 (in campo Lješkopolje prope Podgorica c. 20m) & 1905: 26 (an Ufern der Morača und Cijevna bei Podgorica); Bulić 1994: 99 (Rakića most, Ćemovsko polje, Kuće Rakića);



Černjavski *et al.* 1949: 71 (Čemovsko polje); Stešević 2002: 22 (Gorica); Hadžiablahović 2010: 66 (Kuće Rakića).

*Fumana thymifolia* (L.) Spach ex Webb., v-a Mes Ch suffrut; L11, T9, H2, Rx, N1; at: II (stenomed); hab: kam-I, kor-I; UFO

Literature source: -

*Helianthemum nummularium* (L.) Mill. subsp. *obscurum* (Čelak.) J. Holub. [syn. *H. nummularium* subsp. *ovatum* (Viv.) Schniz & Thell.], a Mes Ch suffrut; L0, T0, H0, R0, N0; at: V (ev-kakv); hab: akp-V, kor-V, kam-V, nop-I; UFO

Literature source: Hadžiablahović 2010: 66 (Dajbabska gora, Kuće Rakića, Tološka šuma).

*Helianthemum salicifolium* (L.) Mill., v Mi-Mes Ch suffrut; L11, T9, H2, R7, N2; at: III (eurimed); hab: akp-V, kor-V, liv-II, kam-II, nop-I; UFO

Literature source: Rohlena 1912: 14 (Podgorica); Stešević 2002: 22 (Gorica); Hadžiablahović 2010: 66 (Dajbabska gora, Kuće Rakića, Ržanički most, Tuški put).

*Tuberaria guttata* (L.) Fourr., v Mi-Mes T scap; L11, T9, H2, R1, N1; at: III (eurimed); hab: akp-V, kor-III, liv-II; UFO

Literature source: Rohlena 1902a: 9 (in lapidosis, arenosis et collibus apricis Lješkopolje, Čemovsko polje et ad Podgorica) & 1905: 26 (Duklja) & 1912: 14 (Podgorica und Farmaki); Bulić 1994:98 (Kuće Rakića); Hadžiablahović 2010: 66 (Agrokombinat, Blok V, Dajbabska gora, Studentski dom, Tološka šuma).

## CONVOLVULACEAE

*Calystegia sepium* (L.) R. Br., a-aut SH herb; L8, T6, H6, R7, N9; at: V (paleotemp); hab: vli-II, sik-I, pot-I; UFO

Literature source: Rohlena 1942: 244 (Podgorica); Bulić 1994: 112 (Kuće Rakića, Srpska); Stešević 2002 (Gorica).

*Calystegia silvatica* (Kit.) Griseb., a-aut SH herb; L7, T8, H7, R5, N7; at: V (s.e.euro); hab: ork-III, ziv-II, sik-II, liv-I, zao-I; UFO

Literature source: -

*Convolvulus althaeoides* L. subsp. *tenuissimus* (Sibth. & Sm.) Stace [syn. *C. elegantissimus* Mill., *C. tenuissimus* Sibth. & Sm.], v-a SH herb; L8, T10, H3, R5, N2; at: II (stenomed); hab: kam-I, pot-I; UFO

Literature source: Stešević 2002:22 (Gorica).

*Convolvulus arvensis* L., v-aut rhiz SG herb; L7, T7, H4, R5, N5; at: IX (cosm); hab: zao-V, liv-V, zap-V, pno-V, pko-V, dep-V, svp-V, gro-IV, akp-III, nop-III, ulk-III, ziv-III, gaz-II, pas-II, kro-I, zid-I, vli-I; UNE

Literature source: Rohlena 1942: 244 (frequens); Černjavski *et al.* 1949: 75 (Vranići); Bulić 1994: 112 (Čemovsko polje, Kuće Rakića); Stešević 2002: 22 (Gorica); Hadžiablahović 2010: 75 (Tološka šuma).

*Convolvulus cantabrica* L., v-aut Mes-Meg H scap; L11, T8, H3, R6, N2; at: III (eurimed); hab: akp-V, kam-V, liv-V, kor-IV, sik-III, pot-III, svp-III, dep-II; gro-II; zao-II; nop-II; tra-I; UNE

Literature source: Rohlena 1942: 244 (Podgorica); Bulić 1994: 112 (Kuće Rakića); Stešević 2002: 22 (Gorica); Hadžiablahović 2010: 75 (Agrokombinat, Dajbabska gora, Dajbabe, Kuće Rakića, Ržanički most).

*Cuscuta campestris* Yuncker, scand Par; L8, T7, Hx, Rx, Nx; at: IX (ADV, AMN); hab: pko-III, zap-III, nop-II, svp-II; UNE

Literature source: Hadžiablahović 2010: 75 (Duvanski kombinat, Kuće Rakića, Ržanički most).

*Cuscuta epithymum* (L.) L. [syn. *Cuscuta alba* Pr.], scand Par; L8, Tx, Hx, Rx, Nx; at: V (euras); hab: akp-I, liv-I, kam-I; UFO

Literature source: Rohlena 1905: 71 (um Podgorica verbreitet); Stešević 2002: 22 (Gorica); Hadžiablahović 2010: 76 (Ržanički most).

*Cuscuta planiflora* Ten., scand Par; L8, T7, Hx, Rx, Nx; at: III (eurimed); hab: kam-III, akp-II, liv-I, kor-I; UFO

Literature source: Rohlena 1942: 245 (Podgorica).

*Cuscuta scandens* Brot. [syn. *C. australis* R. Br. subsp. *cesattiana* (Bertol.) Feinbrun, *C. cesattiana* Bertol.], scand Par; L8, T7, Hx, Rx, Nx; at: IX (ADV, AMN); hab: akp-IV, dep-IV, nop-III, zap-III, kor-III, pko-III, svp-III, pot-I; UNE

Literature source: Černjavski *et al.* 1949 (Ćemovsko polje); Bulić 1994: 112 (Srpska, Ćemovsko polje).

*Ipomoea purpurea* Roth., a-aut rhiz SG herb; L7, T7, H5, R5, N5; at: IX (ADV, kult, AS); hab: zap-II; svp-II; dep-I; nop-I; ziv-I; UFI

Literature source: Stešević & Jovanović 2005: 69 (Podgorica).

### CORNACEAE

*Cornus mas* L., fo dec N-Mi P caesp; L6, T7, H5, R8, N4; at: V (s.e.europ-kavk); hab: sik-III, ziv-III, kor-II, pot-I; UFO

Literature source: Bulić 1994: 100 (Kuće Rakića); Stešević 2002: 22 (Gorica); Hadžiablahović 2010: 68 (Dajbabska gora).

*Cornus sanguinea* L., fo dec Mi P caesp; L7, T5, H7, R8, Nx; at: V (euras); hab: ork-III, ziv-II, pst-II, sik-II, pot-II, ork-II, vli-I, zap-I; UFO

Literature source: Beck & Szyszylowicz 1888: 83 (in dumetis circa Podgoriza); Rohlena 1942: 208 (Podgorica); Hadžiablahović 2010: 68 (Dajbabska gora).

### CRASSULACEAE

*Sedum acre* L., a Mi Ch herb succ; L8, T5, H1, Rx, N1; at: V (euro-kavk); hab: kam-V; kro-V; pot-IV; pko-V; kor-IV; akp-IV; sik-III; gro-III; zid-III; liv-II; svp-II; nop-II; put-I; dep-I; UNE

Literature source: Stešević 2002: 22 (Gorica); Hadžiablahović 2010: 39 (Stara Varoš, Dajbabska gora).

*Sedum anopetalum* DC. [syn. *S. ochroleucum* Chaix], a Mes Ch herb succ; L11, T7, H2, R3, N1; at: IV (n.med mont); hab: kam-III; kor-II; zid-I; sik-I, UFO

Literature source: Rohlena 1902a: 21 (in rupestribus ad ripas fluvii Morača prope Podgorica c.20m) & 1942: 130 (Podgorica); Hadžiablahović 2010: 40 (Kuće Rakića).

*Sedum caespitosum* (Cav.) DC. [syn. *S. rubrum* (L.) Thell.], v-a Mi T succ; L11, T9, H2, R7, N1; at: II (stenomed); hab: akp-II; pko-I; slj-I; gaz-I; UFO

Literature source: Rohlena 1942: 131 (Podgorica); Bulić 1994: 72 (Kuće Rakića, Srpska).

*Sedum dasphyllum* L., a Mi Ch herb succ; L7, Tx, H3, Rx, Nx; at: III (eurimed); hab: zid-III; kro-II; pot-II; kam-I; UNE

Literature source: Rohlena 1942: 128 (Podgorica); Stešević 2002: 22 (Gorica); Hadžiablahović 2010: 40 (Stara Varoš).

*Sedum hispanicum* L. [syn. *S. glaucum* Waldst. & Kit.], v-a Mi T succ; L9, T6, H1, R7, N1; at: V (s.e.euro); hab: kam-V; kro-V; pot-V; zid-IV; sik-III; svp-III; gro-III; pko-II; put-II; akp-II; liv-I; pst-I; dep-I; UNE

Literature source: Rohlena 1905: 51 (um Podgorica, Kokoti (Lješanska nahija verbreitet) & 1933: 14 (in lapidosis ad Podgorica); Černjavski *et al.* 1949: 72 (Ćemovsko polje); Bulić 1994: 72 (Ćemovsko polje); Hadžiablahović 2010: 40 (Stara Varoš, Dajbabska gora, Sastavci).

*Sedum maximum* (L.) Suter, Mes H succ; L7, T6, H4, R7, N4; at: IX (ADV, kult, E) hab: kro-I; svp-I; UFI

Literature source: -

*Sedum sarmentosum* Bunge, a Mes Ch herb succ rept; L0,T0,K0,H0,R0,N0; at: IX (ADV, AS); hab: kro-I; put-I; UFI

Literature source: Stešević & Jovanović 2005: 69 (Podgorica).

*Sedum sexangulare* L. a Mi Ch herb succ; L7, T5, H7, R8, N1; at: V (c.euro); hab: kam-V; kro-V; pot-IV; pko-V; kor-IV; akp-IV; sik-III; gro-III; zid-III; liv-II; svp-II; nop-II; put-I; dep-I; UNE

Literature source: Hadžiablahović 2010: 39 (Kuće Rakića).

*Sempervivum tectorum* L., a Mi-Mes Ch succ ross; L8, T5, H2, R4, Nx; at: IX (ADV, kult, E); hab: kro-II; zid-I; dep-I; UFI

Literature source: Stešević 2002: 22 (Gorica).

*Umbilicus horizontalis* (Guss.) DC. [syn. *Cotyledon horizontalis* Guss.], v-a Mi-Mes G bulb; L5, T8, H3, Rx, N3; at: II (stenomed); hab: pot-II; kor-I; zid-I; UNE

Literature source: Černjavski *et al.* 1949: 72 (Titigrad); Bulić 1994: 73 (Kuće Rakića, Srpska); Stešević 2002: 22 (Gorica).

*Umbilicus rupestris* (Salisb.) Dandy [syn. *U. pendulinus* DC., *Cotyledon pendulinus* DC.], v-a Mi-Mes G bulb; L5, T8, H3, Rx, N3; at: VI (med-atl); hab: pot-III; zid-II; kor-I; kam-I; UNE

Literature source: Rohlena 1905: 50 (bei Podgorica nicht selten); Hadžiablahović 2010: 39 (Stara Varoš).

## CUCURBITACEAE

*Bryonia alba* L., a tub Alt SG herb; L8, T7, H5, R8, N4; at: V (s.e.europ-pont); hab: ziv-I, sik-I; UFO

Literature source: -

*Bryonia cretica* L. subsp. *dioica* (Jacq.) Tutin [syn. *B. dioica* Jacq.], a tub SG herb; L8, T7, H5, R8, N6; at: III (eurimed); hab: ziv-II, kor-II, pot-II, sik-II; UFO

Literature source: Bulić 1994: 99 (Srpska, Kuće Rakića); Stešević 2002:22 (Gorica); Hadžiablahović 2010: 66 (Blok V).

*Citrullus lanatus* (Thunb.) Mansf. [syn. *C. vulgaris* Schrad.], a Alt T rept; L0, T0, H0, R0, N0; at: IX (ADV, kult, AFR); hab: slj-II, pno-I, nop-I, put-I, dep-I, zap-I; UFI

Literature source: Stešević & Jovanović 2005: 69 (Podgorica).

*Cucumis melo* L., a Alt T rept; L0, T0, H0, R0, N0; at: IX (ADV, kult, AFR); hab: slj-II; UFI

Literature source: -

*Cucumis sativus* L., a Alt T rept; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: svp-I, slj-I, dep-I; UFI

Literature source: -

*Cucurbita maxima* Duchesne, a Alt T rept; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS-AMC); hab: zap-II, tra-I, dep-I, UFI

Literature source: -

*Lagenaria vulgaris* Ser., a Alt T rept; L0, T0, H0, R0, N0; at: IX (ADV, AS); hab: zap-I; UFI

Literature source: -

## DIPSACACEAE

*Cephalaria leucantha* (L.) Roem. & Schult., a-aut Mes-Meg Ch suffrut; L7, T6, H3, R7, N2; at: V (s.eu); hab: kam-V; pot-V; kor-IV; nop-III; svp-II; slj-I; UFO

Literature source: Rohlena 1942: 338 (Podgorica); Stešević 2002: 23 (Gorica); Hadžiablahović 2010: 95 (Kuče Rakića, Ljubović).

*Dipsacus fullonum* L. [syn. *D. sylvestris* Huds.], a Meg-Alt H bienn; L6, T8, H7, R5, N5; at: III (eurimed); hab: svp-II; liv-I; vli-I; dep-I; pas-I; pot-I; UFO

Literature source: Stešević 2002: 23 (Gorica).

*Knautia integrifolia* (L.) Bertol. [syn. *K. hybrida* (All.) Coult.], a Mi-Mes T scap; L7, T8, H3, R3, N2; at: III (eurimed); hab: liv-V; kor-III; sik-II; svp-II; gro-II; pas-II; akp-II; nop-I; pko-I; pot-I; UFO. Literature source: Rohlena 1905: 58 (um Podgorica verbreitet) & 1923: 11 (Podgorica); Bulić 1991: 135 (Kuče Rakića); Stešević 2002: 23 (Gorica); Hadžiablahović 2010: 96 (Ržanički most, Tološka šuma).

*Knautia purpurea* (Vill.) Borbás, a Mes-Mac H semiros; L7, T4, H4, Rx, N2; at: IV (w.med-mont); hab: liv-IV; pas-IV; pot-II; gro-II; zao-II; akp-I; svp-II; UFO

Literature source: -

*Scabiosa crenata* Cyr., a Mi-Mes Ch suffrut caesp; L12, T5, H2, R7, N2; at: IV (sic-apen-illir-balk); hab: kor-III; akp-I; UFO

Literature source: Pulević & Lakušić 1983: 23 (Cijevna downstream), Bulić 1991: 136 (Rakića most, Kuće Rakića); Hadžiablahović 2010: 96 (Kuče Rakića, Ljubović, Ržanički most).

*Scabiosa ochroleuca* L., a-aut Mac-Meg H semiros; L8, T7, H3, R8, N3; at: V (se.euro-s.sib); hab: kam-II; sik-I; liv-I; UFO

Literature source: -

*Succisella petteri* (Jos. Kern. & Murb.) G. Beck., a-aut Mes H scap; L0, T0, H0, R0, N0; at: I (e.adriat); hab: vli-II; UFO

Literature source: Blečić & Pulevic 1979: 191 (Mareza).

### ERICACEAE

*Arbutus unedo* L., fo semp NP caesp; L11, T9, H3, R4, N2; at: II (stenomed); hab: kor-I, zap-I

Literature source: Stešević 2002: 23 (Gorica)

### EUPHORBIACEAE

*Chrozophora tinctoria* (L.) A. Juss., a-aut Mes T scap; L8, T12, H2, R7, N7; at: IX (eurimed-turan); hab: pko-V, dep-V, nop-III, svp-III, gaz-II, gro-II, zap-II, slj- II, liv-I, tra-I; UNE

Literature source: Baldacci 1892: 84 (a Kokoti nella Lješanska nahija).

*Euphorbia amygdaloides* L., v-a Mac H scap; L4, T5, H5, R7, N6; at: V (euro-kavk); hab: pno-III; pas-I; pot-I; UFO

Literature source: -

*Euphorbia chamaesyce* L., a-aut Mi T rept; L7, T8, H2, R5, N4; at: III (eurimed)

Literature source: Bulić 1994:92 (Ćemovsko polje).

*Euphorbia characias* L. subsp. *wulfenii* (Hoppe ex W.D.J. Koch) Radcl.-Sm. [syn. *Euphorbia wulfenii* Hoppe ex W.D.J. Koch, *E. veneta* sensu Hayek], v Meg-Alt Ch suffrut; L11, T7, H2, R7, N1; at: IV (ne.med-mont), hab: pot-IV; kor-III; sik-I; UFO

Literature source: Rohlena 1942: 19 (circa Podgorica); Bulić 1994:93 (Kuće Rakića).

*Euphorbia cyparissias* L., v Mes-Mac H scap; L7, T7, H3, R5, N5; at: V (e.eu); hab: liv-III; zao-II; nop-I; UFO

Literature source: Bulić 1994:93 (Kuće Rakića).

*Euphorbia exigua* L., v-a Mi T scap; L11, T9, H2, R6, N1; at: III (eurimed); hab: akp-II, kam-II, liv-I, svp-I; UFO

Literature source: Rohlena 1905: 82 (Podgorica); Bulić 1994: 93 (Srpska); Stešević 2002: 23 (Gorica).

*Euphorbia falcata* L., v-a Mi-Mes T scap; L9, T7, H4, R7, N2; at: IX (eurimed-turan); hab: liv-II, kam-II, nop-I, pko-I, svp-I, akp-I; UFO

Literature source: Rohlena 1905: 82 (um Podgorica und Kokoti).

*Euphorbia graeca* Boiss. et Spruner, v-a Mes T scap; L7, T6, H4, R5, N5; at: III (n.med); hab: akp-V, kam-V, kor-V, pot-IV, liv-III, pko-III, gro-I; UFO

Literature source: -

*Euphorbia helioscopia* L., n (III)-a-aut Mes T scap; L9, T7, H3, R5, N6; at: IX (cosm); hab: dep-V, gro-V, kam-V, liv-V, zao-V, pas-V, pot-V, tra-V, gaz-IV, pkg-II, pno-II, pst-II, zar-I; UNE

Literature source: Stešević 2002: 23 (Gorica).

*Euphorbia humifusa* Willd., a-aut Mi T rept; L7, T8, H2, R5, N4; at: IX (ADV, AS); hab: gaz-I

Literature source: Stešević & Jovanović 2005: 70 (Podgorica).

*Euphorbia maculata* L., a-aut Mi-Mes T rept; L7, T8, H2, R5, N4; at: IX (ADV, AMN); hab: gaz-V, gro-V, pkg-V, kro-IV, nop-IV, put-IV, dep-III, zap-III, ulk-II, pot-II, zar-II, zid-I; UNE

Literature source: -

*Euphorbia marginata* Pursh, a-aut Mi-Mes T scap; L0, T0, H0, R0, N0; at: IX (ADV, AMN); hab: zao-I, svp-I; UFI

Literature source: Stešević & Jovanović 2005: 70 (Podgorica); Hadžiablahović 2006: 96 (Podgorica).

*Euphorbia myrsinites* L., v-a Mes Ch succ rept; L9, T6, H2, R7, N2; at: V (s.euro-pont); hab: kor-II, akp-I, dep-I, pko-I; UFO

Literature source: Bulić 1994:93 (Kuće Rakića, Srpska).

*Euphorbia nutans* Lag., a-aut Mes-Meg T scap; L7, T7, H3, R6, N2; at: IX (ADV, AMN); hab: nop-I, svp-I; UFI

Literature source: Stešević & Jovanović 2005: 70 (Podgorica).

*Euphorbia peplus* L., n-aut Mi-Mes T scap; L6, T7, H4, R5, N7; at: IX (cosm); hab: gro-V, pas-V, tra-V, svp-V, zap-IV, pst-III, sik-II, pot-II, put-II, zar-II, nop-I; UNE

Literature source: Rohlena 1904: 84 (um Podgorica nicht selten); Stešević 2002: 23 (Gorica).

*Euphorbia platyphyllos* L., a Mes-Meg T scap; L6, T7, H5, R5, N6; at: III (eurimed); hab: vli-II, pno-I, UFO. Literature source: -

*Euphorbia prostrata* Aiton, a-aut Mi-Mes T rept; L7, T8, H2, R5, N4; at: IX (ADV, AMN); hab: put-II, pkg-I, svp-I, gro-I; UFI

Literature source: -

*Euphorbia spinosa* L., v Mes Ch suffrut; L11, T6, H2, R7, N2; at: III (n.med); hab: pot-III, kor-III, akp-I, UFO

Literature source: Rohlena 1905: 83 (bei Podgorica); Pulević & Lakušić 1983 (Cijevna); Bulić 1994:92 (Kuće Rakića, Srpska); Hadžiablahović 2010: 61 (Kuće Rakića, Ržanički most).

*Mercurialis annua* L., n-aut Mes-Mac T scap; L7, T7, H4, R7, N8; at: V (paleotemp); hab: kam-V, pot-V, zap-V, pas-V, sik-V, gro-V, dep-IV, svp-IV, zid-IV, nop-III, pko-III, pno-III, akp-II, pst-II, liv-II, kro-I; UNE

Literature source: Rohlena 1905: 83 (auf Feldern und Ruderalorten bei Podgorica) & 1942: 29 (Podgorica); Bulić 1994:94 (Kuće Rakića, Srpska); Stešević 2002: 23 (Gorica); Hadžiablahović 2010: 59 (Podgorica).

## FABACEAE

*Amorpha fruticosa* L., N-Mi P caesp; L7, T8, H6, R5, N6; at: IX (ADV, AMN)

Literature source: Hadžiablahović 2009: 47 (Čepurci).

*Anthyllis vulneraria* L. subsp. *pulchella* (Vis.) Bornm., a Mes H scap; L0, T0, H0, R0, N0; at: III (eurimed); hab: akp-III, kam-III, liv-II, pas-I; UFO

Literature source: -

*Anthyllis vulneraria* L. subsp. *rubriflora* (DC.) Arcang. [syn. *A. vulneraria* L. subsp. *praepopera* (A. Kern.) Bornm., *A. vulneraria* subsp. *spruneri* (Boiss.) Bronm.], a Mes H scap; L0, T0, H0, R0, N0; at: III (eurimed); hab: kor-III, kam-II, akp-I; UFO

Literature source: Hadžiablahović 2009: 55 (Dajbabska gora, Kuće Rakića).

*Astragalus monspessulanus* L. subsp. *illyricus* (Bernh.) Chater [syn. *A. illyricus* Bernh.], v Mi-Mes H semiros; L0, T0, H0, R0, N0; at: I (submed-ilir); hab: akp-IV; kor-III; kam-I; liv-I; UFO

Literature source: Rohlena 1902a: 18 (in locis apricis ad Podgorica) & 1905: 41 (auf dürren Wiesen unter der Kakaricka gora nächst Podgorica); Černjavski *et al.* 1949: 73 (Čemovsko polje); Bulić 1994: 81 (Kakaricka gora, Čemovsko polje, Kuće Rakića); Hadžiablahović 2009: 47 (Ržanički most).

*Astragalus glycyphyllos* L., a Mes-Meg H rept; L7, T6, H4, R7, N4; at: V (euro-s.sib); hab: gro-I; liv-I; zao-I; ziv-I; sik-I; UFO

Literature source: Stešević 2002: 23 (Gorica).

*Astragalus sesameus* L., v-a Mes H rept; L11, T9, H2, Rx, N2; at: II (stenomed); hab: akp-II; kam-I; UFO

Literature source: Rohlena 1905: 42 (auf dürren, steinigen Stellen in der Podgoricer Ebene).

*Bituminaria bituminosa* (L.) Stirton [syn. *Psoralea bituminosa* L.], a Mac H scap; L9, T9, H2, Rx, N4; at: III (eurimed); hab: kor-III; kam-I; liv-I; sik-I; pot-I; UFO

Literature source: Horak 1900: 159 (Podgorica); Rohlena 1942: 167 (Podgorica, Kokoti); Bulić 1994: 82 (Kuće Rakića, Srpska).

*Cercis siliquastrum* L., v fo dec Mi-Mes P scap; L8, T7, H4, R7, N4; at: IX (ADV, kult, EAS); hab: nop-I; zap-I; pot-I; put-I; UFI

Literature source: -

*Chamaecytisus hirsutus* (L.) Link, v-a Mes-Mac Ch suffrut; L7, T7, H5, R7, N3; at: V (eurosib); hab: sik-I; kam-I; UFO

Literature source: Rohlena 1905: 36 (in Gebüsch bei Podgorica).

*Colutea arborescens* L., fo dec Mi P caesp; L5, T8, H3, R8, N2; at: III (eurimed); hab: sik-V; kot-II; kam-I; pot-I; ziv-I; nop-I; UFO

Literature source: Rohlena 1905: 41 (um Podgorica und Kokoti verbreitet); Šmarda 1968: 35 (Titovgrad-Morača canyon); Bulić 1994: 81 (Kuće Rakića, Srpska); Stešević 2002: 23 (Gorica).

*Coronilla scorpioides* (L.) W.D.J. Koch. [syn. *Arthrolobium scorpioides* (L.) DC.], v Mi-Mes T scap; L11, T9, H2, R7, N2; at: III (eurimed); hab: akp-IV; kam-IV; liv-II; kor-I; gro-I; UFO  
Literature source: Rohlena 1905: 41 (um Podgorica); Bulić 1994: 89 (Ćemovsko polje, Kuće Rakića, Srpska); Stešević 2002: 23 (Gorica).

*Dorycnium pentaphyllum* Scop. subsp. *herbaceum* (Vill.) Rouy [syn. *D. herbaceum* Vill., *D. illyricum* (Beck.) Degen], a Mes Ch suffrut caesp; L0, T0, H0, R0, N0; at: V (s.e.europ-pont); hab: kam-IV; liv-IV; gro-II; nop-II, kor-I; UFO  
Literature source: Rohlena 1902a: 17 (in nemorosis et declivibus graminosis ad Podgorica) & 1912: 31 (um Podgorica verbreitet); Stešević 2002: 23 (Gorica).

*Galega officinalis* L., a Meg H scap; L7, T8, H6, R5, N6; at: V (i.ev.pont); hab: liv-I; sik-I; UFO  
Literature source: Rohlena 1905: 41 (an nassen Stellen, unter Gebüsch bei Podgorica); Bulić 1994: 81 (Srpska).

*Genista januensis* Viv., a Mac Ch suffrut caesp; L7, T6, H5, R3, N3; at: V (s.e.euro); hab: kam-I; liv-I; UFO  
Literature source: -

*Genista sericea* Wulfen, a Mes Ch suffrut caesp; L8, T8, H3, R7, N3; at: I (ilir); hab: kor-IV; kam-III; pot-II, akp-I; UFO

Literature source: Rohlena 1905: 36 (Felsige Abhänge des Malo brdo und auf felsigen Ufern des Morača Flusses bei Podgorica); Pulević & Lakušić 1983 (Cijevna); Bulić 1994: 80 (Rakića most, Kuće Rakića, Srpska); Stešević 2002: 23 (Gorica); Hadžiablahović 2010: 46 (Ržanički most, Kuće Rakića).

*Genista sylvestris* Scop., a Mes-Mac Ch suffrut caesp; L7, T7, H3, R3, N2; at: I (ilir); hab: kam-I; UFO  
Literature source: -

*Genista tinctoria* L., a Mac Ch suffrut caesp; L5, T6, H5, R3, N3; at: V (euras); hab: vli-III; kam-I; liv-I; UFO

Literature source: Rohlena 1902a: 14 (in pratis et fruticetis in campo prope Podgorica) & 1905: 36 (um Podgorica nicht selten); Bulić 1994: 80 (Srpska); Hadžiablahović 2010: 46 (Dajbabska gora).

*Gleditsia triacanthos* L., fo dec Mes P scap; L8, T7, H4, R5, N5; at: IX (ADV, kult, AMS); hab: zap-II; svp-I; nop-I; pkg-I; UFI

Literature source: Stešević 2002: 21 (Gorica).

*Hippocrepis biflora* Sprengel [syn. *H. unisiliquosa* L.]; v-a Mes T scap; L0, T0, H0, R0, N0; at: III (eurimed); hab: kam-I

Literature source: Hadžiablahović 2010: 56 (Dajbabe).

*Hippocrepis ciliata* Willd., v-a Mes T scap; L11, T9, H2, Rx, N1; at: II (stenomed); hab: akp-V; kam-V; gro-IV; liv-IV; kor-III; nop-I; pot-I; tra-I; svp-I; UFO

Literature source: Rohlena 1905: 41 (auf dünnen Grasplätzen bei Podgorica); Stešević 2002: 23 (Gorica).

*Hippocrepis emerus* (L.) Lassen subsp. *emeroides* (Boiss. & Spruner) Lassen [syn. *Coronilla emerus* L. subsp. *emeroides* (Boiss. & Spruner) Hayek, *C. emeroides* Boiss. & Spruner], fo dec NP caesp; L7, T6, H3, R9, N2; at: V (med-pont); hab: sik-V; kam-III; kor-III; pot-II, ziv-II; nop-I, svp-I; UFO

Literature source: Rohlena 1905: 40 (um Podgorica); Černjavski *et al.* 1949:73 (Titograd); Šmarda 1968: 36 (Titograd- Morača canyon); Bulić 1994: 88 (Srpska); Stešević 2002: 23 (Gorica); Hadžiablahović 2010: 56 (Kuće Rakića, Srpska- blizu obale Morače).

*Lathyrus annuus* L., v-a Mac ST herb; L8, T8, H3, R5, N2; at: III (eurimed); hab: vli-II; liv-II; UFO

Literature source: Rohlena 1905: 42 (bei Podgorica, Kokoti, Duklja).

*Lathyrus aphaca* L., v-a Mes T scap; L6, T6, H3, Rx, Nx; at: III (eurimed); hab: kam-IV; liv-IV; gro-II; kor-II, nop-I; pot-I; tra-I; svp-I; UFO

Literature source: Rohlena 1905: 43 (um Podgorica verbreitet); Bulić 1994: 84 (Kuće Rakića, Srpska).

*Lathyrus cicera* L., v-a Mes-Mac ST herb; L8, T8, H3, R5, N2; at: III (eurimed); hab: gro-V, liv-V; kam-IV; akp-III; pas-III; tra-III; zap-II; svp-II; nop-I; UNE

Literature source: Bulić 1994: 83 (Kuće Rakića); Stešević 2002: 23 (Gorica); Hadžiablahović 2010: 48 (Tološka šuma, Duvanski kombinat).

- Lathyrus hirsutus* L., a Mac ST herb; L7, T6, H4, R7, Nx; at: III (eurimed); hab: vli-I; liv-I; UFO  
Literature source: Rohlena 1942: 173 (Kokoti); Hadžiablahović 2010: 49 (Dajbabe).
- Lathyrus latifolius* L. [syn. *L. membranaceus* C. Presl.], a Meg-Alt ST herb; L7, T8, H3, R9, N3; at: V (s.e.ev); hab: liv-II; zao-II; sik-II; nop-I; ziv-I; svp-I; gro-I; UFO  
Literature source: Stešević 2002 (Gorica); Hadžiablahović 2010: 49 (Dajbabska gora).
- Lathyrus nissolia* L., a Mes-Mac T scap; L11, T9, H2, R5, N2; at: III (eurimed); hab: liv-I; UFO  
Literature source: -
- Lathyrus pratensis* L., v Mac-Meg H scap; L7, T5, H6, R7, N6; at: V (paleotemp); hab: liv-I; UFO  
Literature source: -
- Lathyrus setifolius* L., a Mes-Mac ST herb; L11, T9, H2, R5, N2; at: III (eurimed); hab: liv-V; pas-V; gro-III; svp-III; akp-II; kam-II; kor-II; nop-II, tra-II; UFO  
Literature source: Rohlena 1905: 42 (um Podgorica); Bulić 1994:83 (Srpska); Hadžiablahović 2010: 49 (Dajbabska gora, Tološka šuma, Tuški put).
- Lathyrus sphaericus* Retz., a Mes-Mac ST herb; L11, T9, H2, R5, N2; at: III (eurimed); hab: liv-V; kam-IV; kor-III, akp-III; tra-II, pot-I; UFO  
Literature source: Rohlena 1905: 42 (um Podgorica verbreitet); Černjavski *et al.* 1949:73 (Titograd); Bulić 1994: 83 (Srpska); Hadžiablahović 2010: 49 (Dajbabska gora).
- Lathyrus sylvestris* L., a Mes-Meg H rept; L7, T5, H4, R4, N4; at: V (euro-kavk); hab: liv-I; sik-I; vli-I; UFO  
Literature source: Horak 1900: 160 (bei Podgorica).
- Lathyrus tuberosus* L., a Mac-Meg G tub; L7, T6, H4, R8, N4; at: V (paleotemp); hab: liv-II; zao-I; slj-I; svp-I; UNE  
Literature source: -
- Lathyrus venetus* (Mill.) Wohlf. [syn. *Orobus variegatus* Ten.], a Mes-Mac Grhiz scap; L4, T7, H5, R7, N7; at: V (c.e.submed-pont); hab: sik-I; UFO  
Literature source: Rohlena 1905: 43 (im Gebüsch um Podgorica); Šmarda 1968: 69 (Titovgrad- Morača canyon).
- Lens nigricans* (M. Bieb.) Gord. [syn. *Ervum nigricans* M. Bieb.], v-a Mes T scap; L11, T7, H3, R7, N2; at: II (stenomed); hab: akp-I; svp-I; UFO  
Literature source: Rohlena 1905: 42 (in der Podgoricer Ebene nicht häufig); Bulić 1994:83 (Čemovsko polje, Kuće Rakića).
- Lotus angustissimus* L., v-a Mes-Mac T scap; L11, T8, H7, R7, N4; at: III (eurimed); hab: liv-III; vli-III; svp-i; kam-I; zap-I; UFO  
Literature source: -
- Lotus corniculatus* L. a Mes H scap; L7, Tx, H4, R7, N2; at: IX (cosm); hab: gro-V; liv-V; tra-V; akp-IV; kam-IV; pas-IV; svp-IV; zao-III; zap-III; nop-II; pkg-II; put-I, UNE  
Literature source: Rohlena 1902a: 17 (in pratis ad Podgorica frequens c. 20m), 1912: 31 (bei Podgorica); Černjavski *et al.* 1949: 73 (Titograd); Bulić 1994: 88 (Čemovsko polje, Kuće Rakića); Stešević 2002 (Gorica); Hadžiablahović 2010: 55 (Dajbabska gora, Kuće Rakića).
- Lotus ornithopodioides* L., a Mes-Mac T scap; L11, T9, H2, R1, N1; at: II (stenomed); hab: liv-II; kam-II; sir-I; UFO  
Literature source: -
- Lotus tenuis* Waldst. & Kit. ex Willd., a Mes H scap; L9, T7, H6, R7, N7; at: V (paleotemp); hab: liv-II; tra-I; UFO  
Literature source: -
- (-) *Lupinus albus* L. L11, T9, H2, R2, N2; at: II (stenomed), hab: liv-I; UNE  
Literature source: Hadžiablahović 2010: 46 (Studentski dom).
- Lupinus micranthus* Guss. [syn. *L. hirsutus* L.], v Mes T semiros; L11, T9, H2, R2, N2; at: II (stenomed); hab: liv-III; kam-II; akp-I; kor-I; tra-I; UNE  
Literature source: Rohlena 1905: 36 (auf Wiesen bei Podgorica selten); Bulić 1994: 80 (Kuče Rakića).

*Medicago arabica* (L.) Huds., n-v Mes-Mac T scap; L9, T9, H2, Rx, N2; at: III (eurimed); hab: gaz-V; gro-V; liv-V; zap-V; pas-I; tra-V; svp-V; kam-III; akp-III; dep-III; zao-III; pkg-III; pno-III; nop-III; kor-II; pot-II; UNE

Literature source: Janchen 1919: 256 (Podgorica).

*Medicag falcata* L. [syn. *M. sativa* L. subsp. *falcata* (L.) Arcang.], a Mes-Meg H scap; L0, T0, H0, R0, N0; at: V (euras); hab: zao-II; liv-II; pas-I; slj-I; UNE

Literature source: Rohlena 1902a: 14 (in pratis planitiei Podgoricensis).

*Medicago hispida* Gaertn., v Mes T rept; L9, T9, H2, Rx, N2; at: IX (cosm); hab: tra-V; gaz-IV; zap-IV; liv-IV; akp-III; gro-III; kam-III; svp-III, kor-II; gaz-II; pot-I; UNE

Literature source: Rohlena 1902a: 14 (ad Podgorica).

*Medicago minima* (L.) Bartal., v Mi-Mes T scap; L11, T7, H3, R8, N1; at: IX (cosm); hab: gro-V; kor-V; liv-V; zap-V; pot-V; tra-V; svp-V; akp-IV; kam-IV; gaz-III; put-III; slj-III; nop-II; dep-II; UNE

Literature source: Rohlena 1902a: 15 (in campo Lješkopolje ad Podgorica) 1904: 37 & 1905: 37 (bei Podgorica); Janchen 1919: 256 (Podgorica); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 51 (Tološka šuma, Agrikombinat, Kuće Rakića, Ržanički most).

*Medicago monspeliaca* (L.) Trautv. [syn. *Trigonella monspeliaca* L.], v-a Mi-Mes T scap; L8, T8, H3, R5, N2; at: III (eurimed); hab: liv-I; akp; UFO

Literature source: Rohlena 1905: 37 (auf dürren Grasplätzen bei Dukla nächst Podgorica); Bulić 1994:84 (Ćemovsko polje); Hadžiablahović 2010: 51 (Dajbabska gora).

*Medicago orbicularis* (L.) Bartal., v Mes-Mac T rept; L7, T8, H3, R4, N4; at: III (eurimed); hab: gro-V, kam-V; liv-V; zap-V; tra-V; svp-V; akp-IV; zao-IV; kor-IV; pot-IV; gaz-IV; dep-IV; put-III; nop-II; slj-II; UNE

Literature source: Rohlena 1902a: 14 (in graminosis regionis inferioris ad Podgorica) & 1905: 37 (bei Duklja nächst Podgorica) & 1942: 178 (Podgorica, Kokoti in Lješanska nahija, Duklja); Janchen 1919: 256 (Podgorica); Bulić 1994:85 (Ćemovsko polje, Kuće Rakića); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 51 (Tološka šuma, KBC).

*Medicago polymorpha* L. [syn. *M. lupulina* L.], a-aut Mes T scap/H scap; L7, T5, H4, R8, N7; at: V (paleotemp); hab: pas-IV; gro-III; tra-III; svp-III; kam-II; slj-II; ulk-II; liv-II; gaz-II; kro-I; nop-I; pkg-I; pot-I; put-I; UNE

Literature source: Stešević 2002 (Gorica).

*Medicago prostrata* Jacq., v-a Mes H rept; L8, T7, H3, R8, N3; at: V (s.eu); hab: kam-IV; kor-IV; akp-III; pot-III; liv-III; put-III; gaz-II; nop-II, pkg-II; UNE

Literature source: Rohlena 1902a: 14 (in campo prope Podgorica c. 20m, collis Gorica c. 100m) & 1905: 37 (bei Duklja nächst Podgorica); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 51 (Tološka šuma, Kuće Rakića, Ržanički most).

*Medicago rigidula* (L.) All., v Mes-Mac T rept; L11, T8, H1, Rx, N1; at: III (eurimed); hab: gro-V; liv-V; zap-V; tra-V; akp-IV; gaz-IV, kam-IV; svp-IV; kor-III; dep-III, pkg-II, pot-II; UNE

Literature source: Rohlena 1905: 37 (um Podgorica nicht selten); Janchen 1919: 37 (Podgorica); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 52 (Blok V).

*Medicago sativa* L., a-aut Mes-Meg H scap; L8, T5, H3, R9, N3; at: IX (ADV, kult, AS); hab: zao-IV; liv-III; zap-III, tra-III; svp-III; put-I; nop-II; zar-I, pkg-I; gaz-I; UNE

Literature source: Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 51 (Ljubović).

*Melilotus alba* Medik., a-aut Mac-Alt T scap; L9, T6, H3, R7, N3; at: IX (cosm); hab: zao-II, pot-II; svp-II; liv-I; ulk-I; nop-I; slj-I; pno-I; UNE

Literature source: Stešević 2002: 24 (Gorica).

*Melilotus altissimum* Thuill., a-aut Mac-Alt H scap bienn; L8, T6, H7, R7, Nx; at: V (eurosib); hab: vli-I; slj-I; UFO

Literature source: -

*Melilotus neapolitana* Ten., a Mes-Mac T scap; L11, T9, H2, R5, N3; at: II (stenomed); hab: liv-I; zap-I; kor-I; nop-I; kam-I; pot-I; UFO

Literature source: Rohlena 1902a: 15 (in graminosis siccis in campo Doljani ad ripam fluvii Morača prope Podgorica); Bulić 1994:84 (Kakaricka gora, Ćemovsko polje).

*Melilotus officinalis* (L.) Pall., a Mac-Alt H scap bienn; L8, T5, H3, R8, N7; at: IX (cosm); hab: liv-II; kam-I; nop-I; svp-I; vli-I; pno-I; slj-I; UFO



Literature source: Stešević 2002: 24 (Gorica).

*Melilotus sulcata* Desf., v-a Mes T scap; L8, T8, H3, R5, N3; at: II (s.stenomed); hab: pas- I, zap- I

Literature source: Hadžiablahović 2010: 50 (Tološka šuma, Duvanski kombinat).

*Onobrychis arenaria* (Kit.) DC. subsp. *tommasinii* (Jord.) Asch. & Graebn. [syn. *Onobrychis tommasinii* Jord., *O. ocellata* Beck], a Mes-Mac H scap; L0, T0, H0, R0, N0; at: I (w.balk-apen); hab: svp-I; kam-I; UFO

Literature source: Rohlena 1912: 34 (bei Podgorica).

*Onobrychis caput-galli* (L.) Lam., a Mi-Mes T scap; L11, T9, H2, R7, N1; at: II (stenomed); hab: akp-I; gaz-I; UFO

Literature source: -

*Ononis pusilla* L., a Mes H scap; L11, T7, H3, R7, N2; at: III (eurimed); hab: akp; UFO

Literature source: Bulić 1994:84 (Kuće Rakića); Hadžiablahović & Bulić 2004: 47 (Ćemovsko polje, Kuće Rakića, Tuški put).

*Ononis reclinata* L., a Mi T scap; L11, T11, H2, Rx, N1; at: IX (s.med-turan); hab: akp-III; kor-II; UFO

Literature source: Hadžiablahović 2006: 97 (Podgorica, Agrokombinat, Ržanicki most).

*Ononis spinosa* L., a Mes-Mac Ch suffrut; L8, T6, Hx, Rx, N3; at: III (eurimed); hab: zao-IV; liv-III; vli-II; tra-I; akp-I; kor-I; slj-I; UFO

Literature source: -

*Ononis spinosa* L. subsp. *antiquorum* (L.) Arcang. [syn. *O. antiquorum* L.], Ch suffr caesp; L0, T0, H0, R0, N0; at: III (eurimed); hab: liv-I; kor-I; UFO

Literature source: Černjavski *et al.* 1949: 73 (Vranići); Hadžiablahović 2010: 50 (Kuće Rakića).

(-) *Ononis spinosa* subsp. *hircina* (Jacq.) Gams [syn. *Ononis arvensis* L., *Ononis hircina* Jacq.], a Mes-Meg Ch suffrut; L0, T0, H0, R0, N0; at: V (paleotemp)

Literature source: Rohlena 1902a: 14 (in fossis ad novam viam e Podgorica ad Spuž c. 30m) & 1912: 28 (bei Podgorica).

*Ornithopus compressus* L., a Mi-Mes T scap; L11, T9, H2, R2, N1; at: III (eurimed); hab: akp-II; kam-II; liv-II; kor-I; UFO

Literature source: Rohlena 1905: 41 (auf durren Grasplätzen zwischen Podgorica und Dajbabe).

*Petteria ramentacea* (Sieber) C. Presl. [syn. *Cytisus ramentaceus* Sieber], fo dec NP caesp; L0, T0, H0, R0, N0; at: I (submed-ilir); hab: ziv-I; kor-I; dep-I; pot-I; UFO

Literature source: Baldacci 1891a: 470 (lungo la Morača, in via per Podgoritza), Rohlena 1905: 36 (im Gebiete der Mediterranflora häufig, ad Podgorica, Kokoti); Hadžiablahović 2010: 46 (Kuće Rakića).

*Phaseolus vulgaris* L., a Mes-Meg ST; L0, T0, H0, R0, N0; at: IX (ADV, kult, AMS), hab: liv-I

Literature source: Rohlena 1942: 175 (in hortis colitur).

*Pisum sativum* L. subsp. *elatius* (M. Bieb.) Asch. & Graebn., a Mes-Meg ST; L9, T9, H3, R4, N3; at: IX (ADV, kult, AS); hab: svp-I; zap-I; ziv-I

Literature source: Rohlena 1905: 42 (an den Ruinen Duklja nächst Podgorica).

*Robinia pseudoacacia* L., fo dec Mes P scap; L5, T7, H4, Rx, N8; at: IX (ADV, AMN); hab: ziv-IV; ork-III; zap-II; svp-I; UNE

Literature source: Stešević 2002: 24 (Gorica).

*Scorpiurus muricatus* L. [syn. *S. subvillosus* L.], v-a Mi-Mes T scap; L7, T8, H2, Rx, N2; at: III (eurimed); hab: kam-I; liv-I; sik-I; pot-I; UFO

Literature source: Rohlena 1905: 41 (an steinigen Stellen in der Podgoricer Ebene); Hadžiablahović 2010: 56 (Dajbabska gora).

*Securigera securidaca* (L.) Degen & Dörfl. [syn. *Bonaveria securidaca* (L.) Rechb.], a Mes-Meg T scap; L11, T9, H2, R2, N3; at: III (eurimed); hab: kam-I; liv-I; svp-I; UFO

Literature source: Rohlena 1905: 41 (um Podgorica); Bulić 1994: 88 (Srpska); Hadžiablahović 2010: 56 (Dajbabska gora).

*Securigera varia* (L.) Lassen [syn. *Coronilla varia* L.], a Mes H scap; L7, T7, H4, Rx, N3; at: V (s.e.ev); hab: liv-II; kam-I; zao-I; UFO

Literature source: Stešević 2002 (Gorica); Hadžiablahović 2010: 56 (Dajbabe).

*Spartium junceum* L., fo dec NP caesp; L7, T7, H4, R7, N2; at: III (eurimed); hab: kam-I; nop-I; zap-I; dep-I; UFO

Literature source: Rohlena 1905: 36 (auf Felsen bei Vezirov most nächst Podgorica).

*Trifolium angustifolium* L., a Mes T scap; L11, T9, H2, R3, N2; at: III (eurimed); hab: liv-IV; akp-III; kam-III; svp-III; kor-II; nop-II; pas-II; tra-II; gro-I; UNE

Literature source: Rohlena 1905: 38 (Podgorica); Hadžiablahović 2010: 52 (Studentski dom, Blok V, Kuće Rakića, Ržanički most).

*Trifolium arvense* L., a Mes T scap; L8, T5, H2, R2, N1; at: V (paleotemp); hab: liv-V; akp-IV; kam-IV; gro-III; zao-II; tra-II; UNE

Literature source: Rohlena 1905: 39 (um Podgorica verbreitet); Bulić 1994: 86 (Ćemovsko polje, Kuće Rakića); Stešević 2002 (Gorica); Hadžiablahović 2010: 52 (Dajbabe, Agrokombinat, Ržanički most).

*Trifolium bocconei* Savi, v-a Mi-Mes T scap; L7, T7, H4, R7, N2; at: II (stenomed); hab: liv-I; pas-I; akp-I; UFO

Literature source: -

*Trifolium campestre* Schreb., a Mi-Mes T scap; L8, T5, H4, Rx, N3; at: V (w.paleotemp); hab: liv-V; gro-V; pas-V; tra-V; svp-V; akp-IV; kor-IV; zao-III; zaop-III; pot-III; gaz-III; pkg-II; pst-II; UNE

Literature source: Rohlena 1942: 180 (Podgorica); Černjavski *et al.* 1949: 73 (Ćemovsko polje); Bulić 1994: 86 (Ćemovsko polje); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 52 (Tološka šuma, Agrokombinat, Kuće Rakića, Ržanički most).

*Trifolium cherleri* L., a Mi T scap; L11, T9, H2, R1, N1; at: III (eurimed); hab: akp-V; kor-V; liv-IV; gaz-III; tra-II; pot-II; gro-II; UNE

Literature source: Rohlena 1902a: 15 (in regione inferiore, in campis Lješkopolje et Ćemovsko polje prope Podgorica) & 1905: 38 (bei Dukla nächst Podgorica); Hadžiablahović 2010: 52 (Studentski dom, Tološka šuma, Blok V, Agrokombinat, Dajbabe).

*Trifolium dalmaticum* Vis., v-a Mes T scap; L0, T0, H0, R0, N0; at: I (ilir-mak); hab: liv-V; akp-IV; kam-III; gro-III; svp-III; tra-II; pas-II; put-II; gaz-II; nop-I; UNE

Literature source: Rohlena 1905: 39 (um Podgorica, Kokoti verbreitet); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 52 (Tuški put, Dajbabe, Kuće Rakića, Ržanički most).

*Trifolium diffusum* Ehrh., a Mes T scap; L7, T8, H6, R3, N4; at: V (s.euro-kavk); hab: liv-I; vli-I; UFO

Literature source: -

*Trifolium fragiferum* L., a Mes H rept; L8, T6, H7, R8, N7; at: V (paleotemp); hab: vli-IV; tra-III; pkg-II; gaz-I; gro-I; put-I; pas-I; svp-I; UNE

Literature source: Rohlena 1912: 29 (bei Podgorica); Bulić 1994: 87 (Srpska); Hadžiablahović 2010: 53 (Podgorica).

*Trifolium incarnatum* L., a Mes-Mac T scap; L11, T8, H4, R5, N7; at: III (eurimed); hab: liv-V; kam-IV; svp-IV; tra-III; pas-III; gro-II; gaz-II; nop-I; UNE

Literature source: Rohlena 1905: 38 (auf Wiesen um Podgorica, Kokoti); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 53 (Studentski dom, Tološka šuma, Kuće Rakića).

*Trifolium lappaceum* L., v-a Mi-Mes T scap; L8, T9, H2, R2, N1; at: III (eurimed); hab: liv-II; akp-II; nop-I; pno-I; pas-I; kor-I; UFO

Literature source: Rohlena 1902a: 15 (in campo "Ćemovsko polje prope" Podgorica); Bulić 1994: 87 (Ćemovsko polje); Hadžiablahović 2010: 53 (Dajbabe).

*Trifolium medium* L., v-a Mes-Mac H scap; L7, T5, H4, R0, N3; at: V (euras); hab: liv-II; UFO

Literature source: -

*Trifolium nigrescens* Viv., v-a Mes T scap; L8, T6, H5, R5, N6; at: III (eurimed); hab: gro-V; liv-V; tra-V; pas-IV; svp-IV; gaz-III; kam-III; pkg-III; dep-III; akp-II; nop-II, pst-I; UNE

Literature source: Rohlena 1905: 40 (auf nassen Wiesen bei Doljani nächst Podgorica); Hadžiablahović 2010: 53 (Tuški put).

*Trifolium ochroleucon* Huds., a Mes-Mac H scap; L7, T5, H4, R8, N2; at: V (pont-eurimed); hab: liv-I; kam-I; UFO

Literature source: Rohlena 1902a: 15 (in pratis et declivibus herbidas, Kakaricka gora prope Podgorica c. 200m); Bulić 1994:86 (Kakaricka gora, Srpska).

*Trifolium pallidum* Waldst. & Kit., a Mes T scap; L7, T8, H4, R2, N2; at: III (eurimed); hab: liv-I; zao-I; svp-I; UFO

Literature source: Rohlena 1902a: 16 (in vinetis ad radiceum collis Kakaricka gora prope Podgorica (c. 50m); Hadžiablahović 2010: 53 (Blok V).

*Trifolium patens* Schreb., a Mes H scap; L8, T8, H5, R5, N4; at: VI (w.submed-j.subatl); hab: vli-III; svp-II; tra-I; UFO

Literature source: Rohlena 1905: 40 (auf Wiesen um Podgorica, Kokoti); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 53 (Aluminijuski kombinat).

*Trifolium pratense* L., a Mes H scap; L7, Tx, Hx, Rx, Nx; at: IX (subcosm); hab: zao-IV; pas-IV; tra-IV; svp-IV; gro-III; liv-III; zar-I; kam-I, pot-I; UNE

Literature source: Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 53 (Čepurci, Kuće Rakića).

*Trifolium purpureum* Loisel., v-a Mes-Mac T scap; L0, T0, H0, R0, N0; at: II (stenomed); hab: kam-I; UFO

Literature source: Rohlena 1902a: 15 (collis Kakaricka gora prope Podgorica c. 100m); Bulić 1994: 87 (Kakaricka gora).

*Trifolium repens* L., a-aut Mes H rept; L8, Tx, Hx, Rx, N7; at: IX (subcosm); hab: gro-III; liv-III; zap-III; pas-III; tra-III; gaz-II; pst-II; dep-II; put-I; kro-I; UNE

Literature source: Bulić 1994: 86 (Srpska, Kuće Rakića); Stešević 2002: 24 (Gorica).

*Trifolium resupinatum* L. a Mes T rept; L8, T8, H5, Rx, N5; at: IX (ADV, AS); hab: liv-IV; gaz-III; zao-III; zao-III; pkg-III; tra-III; svp-III, put-II, pst-I; UNE

Literature source: Černjavski *et al.* 1949: 73 (Ćemovsko polje); Bulić 1994: 86 (Ćemovsko polje, Kuće Rakića, Srpska); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 53 (Tuški put, Tološka šuma).

*Trifolium scabrum* L., a Mi-Mes T scap; L11, T8, H2, R9, N1; at: III (eurimed); hab: akp-IV; kam-IV; kor-IV; gro-III; svp-III; liv-III; pot-II; put-I; UFO

Literature source: Rohlena 1905: 39 (auf durren Grasplätzen um Podgorica verbreitet); Černjavski *et al.* 1949: 73 (Ćemovsko polje); Hadžiablahović 2010: 53 (Agrokombinat, Blok V, Tuški put).

*Trifolium stellatum* L., v-a Mes T scap; L11, T9, H2, Rx, N2; at: III (eurimed); hab: liv-V; svp-IV; kor-IV; akp-IV; kam-III; gro-III; pas-III; tra-II; nop-I; UNE

Literature source: Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 53 (Titex).

*Trifolium striatum* L., a Mes T scap; L8, T8, H3, R2, N0; at: V (paleotemp); hab: liv-II, nop-I; kam-I; pas-I; UFO

Literature source: Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 53 (Agrokombinat, Tološka šuma).

(-) *Trifolium strictum* L., a Mi-Mes T scap; L7, T5, H3, R3, N2; at: III (eurimed)

Literature source: Rohlena 1905: 40 (feuchte Wiesen bei Doljani nächst Podgorica).

*Trifolium subterraneum* L., a Mi T rept; L11, T9, H2, R2, N2; at: III (eurimed); hab: gaz-V; liv-V; tra-V; gro-IV; kor-IV; kam-III; pkg-III; svp-II; pot-II; UNE

Literature source: Rohlena 1905: 39 (auf feuchten Gräsplätzen bei Podgorica); Černjavski *et al.* 1949: 73 (Titograd); Bulić 1994: 87 (Ćemovsko polje, Kuće Rakića); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 54 (Agrokombinat, Ćemovsko polje, KBC, Studentski dom).

(-) *Trifolium suffocatum* L., a Mi T caesp; L8, T9, H2, R2, N2; at: II (stenomed)

Literature source: Rohlena 1905: 40 (auf durren Grasplätzen um Podgorica verbreitet); Hadžiablahović 2010: 54 (Podgorica).

*Trifolium tenuifolium* Ten., a Mes T scap; L11, T9, H3, R2, N1; at: III (n.e.med); hab: akp-II; liv-II; tra-I; UNE

Literature source: -

*Trigonella corniculata* (L.) L., v-a Mes-Mac T scap; L11, T9, H2, Rx, N1; at: II (stenomed); hab: liv-II; tra-I; svp-I; UFO

Literature source: -

*Vicia bithynica* (L.) L., v Mes-Mac T scap; L7, T7, H3, R5, N5; at: III (eurimed); hab: vli-I; sik-I; gro-I; UFO

Literature source: Rohlena 1905: 43 (bei Podgorica); Hadžiablahović 2010: 47 (Blok V).

*Vicia faba* L., a Mes-Mac ST herb; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS-AF)

Literature source: Rohlena 1905: 44 (auf einem Felde bei Kokoti nächste Podgorica angebaut).

*Vicia grandiflora* Scop., a Mac-Meg ST herb; L7, T8, H3, R5, N4; at: V (s.e.europ-pont); hab: gro-V; kam-V; liv-V; pas-V; svp-V; ziv-V; akp-IV; gro-IV; zap-III; pot-III; nop-III; gaz-III, tra-III; sik-III; pas-III; zao-II; dep-II; pst-II; put-I; ulk-I; zar-I; zid-I; UNE

Literature source: Rohlena 1905: 43 (bei Podgorica verbreitet); Černjavski *et al.* 1949: 73 (Titograd); Bulić 1994: 82 (Ćemovsko polje, Kuće Rakića); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 47 (Dajbabe-Aluminijumski kombinat, Duklja, Tološka šuma, Kuće Rakića).

*Vicia hybrida* L., v Mes-Mac ST herb; L7, T8, H3, R5, N5; at: III (eurimed); hab: kam-IV; akp-III; gro-III; liv-III; svp-III; nop-II; pas-II; ziv-II; pot-I; sik-I; UFO

Literature source: Stešević 2002: 24 (Gorica).

*Vicia lathyroides* L., v Mes T scap; L8, T7, H2, R3, N2; at: III (eurimed); hab: kam-I, liv-I, akp-I, pas-I; UFO

Literature source: -

*Vicia lutea* L., v Mes-Mac H scap; L7, T8, H3, R5, N5; at: III (eurimed); hab: liv-I; svp-I; UFO

Literature source: Rohlena 1902a: 19 (in agris et herbidis ad Podgorica c. 30m) & 1942: 167 (in campo Donja Zeta, Podgorica); Bulić 1994: 83 (Srpska); Hadžiablahović 2010: 48 (Tološka šuma).

(-) *Vicia narbonensis* L. [sin. *Vicia serratifolia* Jacq.], v- a Mes-Mac T scap; L0, T0, H0, R0, N0; at: III (eurimed); UFO

Literature source: Rohlena 1905: 43 (Kokoti).

*Vicia pannonica* Crantz subsp. *striata* (M. Bieb.) Nyman, v-a Mes T scap; L0, T0, H0, R0, N0; at: III (eurimed); hab: nop-I; UFO

Literature source: -

*Vicia peregrina* L., v-a Mes-Mac T scap; L7, T7, H4, R5, N4; at: IX (eurimed-turan); hab: liv-II, gro-I, pas-I, sik-I, pot-I; UFO

Literature source: Černjavski *et al.* 1949: 73 (Titograd); Bulić 1994: 82 (Ćemovsko polje).

*Vicia sativa* L. s.l., v-a Mes-Meg ST herb; L5, T5, Hx, Rx, Nx; at: IX (subcosm); hab: liv-II; gro-I; zao-I; svp-I; UFO

Literature source: Bulić 1994: 82 (Ćemovsko polje, Kuće Rakića); Stešević 2002: 24 (Gorica).

*Vicia sativa* L. subsp. *nigra* (L.) Ehrh. [syn. *V. angustifolia* L.], v-a Mes-Meg ST herb; L0, T0, H0, R0, N0; at: IX (subkosm, med-tur); hab: liv-V, gro-V, svp-V, pas-IV, akp-III, kam-III, dep-III, pot-III, ziv-III, tra-II, gaz-II, pst-II, nop-II, pkg-I; UNE

Literature source: Rohlena 1905: 44 (bei Podgorica); Hadžiablahović 2010: 48 (Dajbabska gora, Kuće Rakića, Ržanički most, Tološka šuma, Tuški put).

*Vicia villosa* Roth subsp. *varia* (Host) Corb. [syn. *V. dasycarpa* auct., *V. varia* Host], v-a Mac-Alt ST herb; L7, T6, H4, R4, N5; at: III (eurimed); hab: zap-V, liv-IV, svp-IV, ziv-IV, kam-IV, pot-III, dep-II, gro-II, nop-II, zid-I; UNE

Literature source: Horak 1900: 160 (Podgorica); Rohlena 1905: 43 (bei Podgorica) & 1942: 171 (Podgorica); Stešević 2002 (Gorica); Hadžiablahović 2010: 48 (Dajbabska gora, Kuće Rakića, Ržanički most, Tološka šuma, Tuški put).

*Wisteria sinensis* (Sims) Sweet, a S lig; L0, T0, H0, R0, N0; at: IX (ADV, AS); hab: kam-I, zap-I, zid-I; UFI

Literature source: -

## FAGACEAE

*Quercus cerris* L., v fo dec Mi-Mes P scap; L6, T8, H4, R4, N4; at: III (sj. eurimed); hab: ziv-I; UFO

Literature source: Stešević 2002: 24 (Gorica)

*Quercus ilex* L., v fo semp Mi-Mes P scap; L2, T9, H3, Rx, Nx; at: II (stenomed); hab: sik-I; UFO

Literature source: -

*Quercus pubescens* Willd. [syn. *Q. lanuginosa* Thuill.], v fo dec Mes P scap; L7, T8, H3, R7, N4; at: V (j.i. europ-pont); hab: sik-V; ziv-III; kam-II; UFO

Literature source: Černjavski *et al.* 1949: 67 (Titograd); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 18 (Dajbabska gora).

*Quercus trojana* Webb. [syn. *Q. macedonica* DC., *Q. griesebachii* Kotschy, Mattei & Bald. ex Bald.], v fo dec Mes P scap; L7, T8, H3, R6, N2; at: III (sj. med-or); hab: sik-V; ziv-III; kam-II; UFO  
Literature source: Rohlena 1905: 85 (Malo brdo prope Podgorica); Černjavski *et al.* 1949: 67 (Vranići); Pulević 1966 (Velje i Malo brdo); Stešević 2002: 24 (Gorica); Hadžiablahović 2010: 18 (Dajbabska gora, Rogami).

### FUMARIACEAE

*Fumaria capreolata* L., v Mes T scap; L7, T9, H3, R5, N3; at: III (eurimed); hab: sik-I; liv-I; UFO  
Literature source: Stešević 2002: 25 (Gorica).

*Fumaria officinalis* L. subsp. *officinalis*, n (II)-v-a Mi-Mes T scap; L7, T7, H4, R5, N6; at: IX (cosm); UNE  
Literature source: Rohlena 1905: 19 (um Podgorica verbreitet); Stešević 2002: 25 (Gorica); Hadžiablahović 2010: 33 (Tološi, Dahna, Kruševac).

*Fumaria officinalis* L. subsp. *wirtgenii* (W.D.J. Koch) Arcang. [syn. *F. wirtgenii* W.D.J. Koch], v-a Mi-Mes T scap; L0, T0, H0, R0, N0; at: IX (subcosm); hab: dep-V; zao-V; zap-IV; svp-IV; gro-IV; pko-III; liv-III; zid-III; nop-III; sik-II; pas-II; pot-II; ulk-I; UNE  
Literature source: -

(-) *Fumaria rostellata* Knaf, a Mes-Mac T scap; L0, T0, H0, R0, N0; at: V (balk-pan); hab: akp  
Literature source: Černjavski *et al.* 1949: 70 (Titograd); Bulić 1994: 65 (Kuće Rakića, Srpska)

### GENTIANACEAE

*Blackstonia perfoliata* (L.) Huds. [syn. *Chlora perfoliata* L.], a Mi-Mes T scap; L7, T8, Hx, R9, N4; at: III (eurimed); hab: liv-V, kam-IV, kor-IV, gro-IV, akp-IV, kro-III, sik-II, pas-II, svp-II, zao-I, nop-I, tra-I; UNE  
Literature source: Rohlena 1902b: 4 (ad Podgorica frequens); Stešević 2002: 25 (Gorica); Hadžiablahović 2010: 73 (Agrokombinat, Čemovsko polje, Podgorica, Ržanički most).

*Centaurium erythraea* Rafn [syn. *C. umbellatum* auct., *Erythraea centaurium* auct, non (L.) Pers.], a-aut Mi-Mes H semiros; L8, T6, H5, R6, Nx, at: V (paleotemp); hab: liv-V, akp-IV, sik-III, pas-III, kam-II, zao-II, svp-II, tra-I; UNE

Literature source: Rohlena 1912: 90 (bei Farmaki nächst Podgorica) & 1942: 317 (Podgorica); Černjavski *et al.* 1949: 77 (Momišići); Bulić 1994: 109 (Srpska, Čemovsko polje, Kuće Rakića); Stešević 2002: 25 (Gorica).

*Centaurium maritimum* (L.) Fritsch [syn. *Erythraea maritima* (L.) Pers.], v Mi T scap; L11, T9, H3, R3, N1; at: II (stenomed); hab: akp-III, liv-II, kam-I, sik-I; UFO

Literature source: Rohlena 1902a: 4 (in arenosis et lapidosis planitie Podgoricensis (Lješko polje) frequens) & 1912: 90 (auf steinigem Grasplätzen bei Podgorica c. 20-50m); Stešević 2002: 25 (Gorica); Hadžiablahović 2010: 74 (Dajbabska gora, Dajbabe, Tuški put).

*Centaurium pulchellum* (Sw.) Druce. [syn. *Erythraea pulchella* (Sw.) Fr.], a-aut Mi-Mes T scap; L9, T6, H7, R9, N3; at: V (paleotemp); hab: kro-V, liv-III, vli-II, akp-II, pas-II, put-I, pot-I; UNE

Literature source: Rohlena 1912: 88 (grasplätze bei Podgorica); Hadžiablahović 2010: 74 (Agrokombinat, Dajbabe, Podgorica, Ržanički most).

*Centaurium tenuiflorum* (Hoffmanns. et Link) Fritsch [syn. *Erythraea tenuiflora* Griseb.], a-aut Mes T scap; L9, T8, H7, R7, N2; at: V (paleotemp); hab: vli-III, sik-I, liv-I, pno-I; UFO

Literature source: Rohlena 1905: 71 (bei Podgorica) & 1912: 88 (um Podgorica); Bulić 1994: 109 (Kuće Rakića, Srpska); Hadžiablahović 2010: 74 (left riverbank of Morača).

### GERANIACEAE

*Erodium cicutarium* (L.) L' Hér., v-a Mi-Mes T semiros; L8, T7, H3, R5, N3; at: IX (cosm); hab: akp-V, gaz-V, gro-V, kam-V, liv-V, zao-V, kor-V, tra-V, svp-V, pkg-IV, dep-III, kro-II, nop-II, zid-II, zar-I; UNE  
Literature source: Rohlena 1902a: 13 (in arvis et inculstis ubique frequens ad Podgorica) & 1905: 34 (bei Podgorica verbreitet); Černjavski *et al.* 1949: 71 (Čemovsko polje); Bulić 1994: 91 (Čemovsko polje, Srpska); Stešević 2002: 25 (Gorica).

*Erodium malacoides* (L.) L'Hér., v-a Mi-Mes T scap; L11, T9, H2, R5, N2; at: III (eurimed); hab: pot-II; UFO

Literature source: Hadžiablahović 2010: 58 (Skaline).

*Geranium columbinum* L., v-a Mes T scap; L7, T9, H2, R5, N2; at: V (euro-s.sib); hab: kam-V, gro-IV, liv-IV, pas-III, tra-III, svp-III, akp-II, pot-I, put-I; UNE

Literature source: Rohlena 1905: 34 (um Podgorica verbreitet); Bulić 1994:91 (Kuće Rakića).

*Geranium dissectum* L., v-a Mes T semiros; L7, T8, H2, R5, N2; at: IX (subcosm); hab: kam-V, liv-V, svp-IV, akp-III, tra-II, zap-II, dep-II, zao-II, nop-II, sir-II, ziv-I, zar-I, zid-I; UNE

Literature source: Rohlena 1905: 34 (bei Podgorica); Stešević 2002: 25 (Gorica); Hadžiablahović 2010: 57 (Tološka šuma, Kuće Rakića).

*Geranium lucidum* L., v-a Mes T semiros; L6, T8, H6, R5, N3; at: III (eurimed); hab: kam-V, pot-V, zao-IV, nop-IV, akp-III, kor-III, ulk-II, svp-II, zid-II, liv-II, put-II, gro-II, pko-II, kro-I, zar-I; UNE

Literature source: Rohlena 1905: 34 (Podgorica verbreitet und gemein); Černjavski *et al.* 1949: 71 (Ćemovsko polje); Stešević 2002: 25 (Gorica); Hadžiablahović 2010: 57 (Sastavci, Kuće Rakića).

*Geranium molle* L. subsp. *molle*, v-a Mi-Mes T semiros; L7, T6, H3, R5, N4; at: IX (subcosm); hab: liv-III, akp-II, gaz-II, kam-II, nop-II, pas-II, tra-II, ulk-I; UNE

Literature source: Černjavski *et al.* 1949:71 (Titograd, Ćemovsko polje); Bulić 1994:90 (Ćemovsko polje); Hadžiablahović 2010: 57 (Dahna, Tološka šuma, Tuški put).

*Geranium molle* L. subsp. *brutium* (Gaspar) Graebner [syn. *G. brutium* Gasp., *G. villosum* Ten., non Mill.], n-v Mes-Mac T semiros; L7, T7, H3, R5, N4; at: III (n.e.med); hab: gro-V, liv-V, zao-V, pas-V, tra-V, svp-V, dep-IV, akp-III, gaz-III, pst-III, pot-III, sik-III, ziv-III, nop-II, pno-II, zid-I; UNE

Literature source: Stešević 2002: 25 (Gorica); Hadžiablahović 2010: 57 (Dajbabe, Tološka šuma, KBC).

*Geranium purpureum* Vill., v-aut Mi-Mes T semiros; L7, T8, H3, R6, N3; at: III (eurimed); hab: gro-V, pas-V, pot-V, sik-V, nop-IV, svp-III, zid-III, kro-II, tra-II, put-I; UNE

Literature source: Rohlena 1912: 24 (Podgorica); Černjavski *et al.* 1949:71 (Titograd); Hadžiablahović 2010: 57 (Tuški put, Sastavci, Dajbabska gora, Dajbabe).

*Geranium pusillum* Burn., a Mes T semiros; L7, T7, H4, R5, N6; at: V (ev-w.as); hab: kam-II, nop-II, zid-II, zar-I; UNE

Literature source: -

*Geranium robertianum* L., a Mes T semiros; L4, T6, H4, R5, N5; at: IX (subcosm); hab: pot-II, kro-I, nop-I, sik-I, pas-I, pko-I; UNE

Literature source: Rohlena 1905: 34 (um Podgorica verbreitet); Stešević 2002: 25 (Gorica).

*Geranium rotundifolium* L., a-aut Mes T semiros; L7, T8, H3, R6, N3; at: V (paleotemp); hab: kam-IV, pot-IV, akp-III, gro-III, liv-III, pas-III, svp-III, svp-III, gaz-II, nop-II, zap-II, tra-II, zid-II, kor-II, pko-I; UNE

Literature source: Rohlena 1905: 34 (Podgorica); Hadžiablahović 2010: 58 (Dahna, Tuški put, Sastavci).

(-) *Geranium sanguineum* L., a Mes H scap; L6, T7, H3, R5, N4; at: V (euro-kavk); UFO

Literature source: Rohlena 1905: 34 (Podgorica); Černjavski *et al.* 1949:71 (Titograd).

## GLOBULARIACEAE

*Globularia cordifolia* L., v Mi-Mes Ch suffr caesp; L9, Tx, H3, R9, N1; at: VII (orof. s.eu); hab: kam-I; sik-I; UFO

Literature source: -

## HALORAGACEAE

*Myriophyllum spicatum* L., rhiz sbm HydG; L5, Tx, H12, R8, N5; at: IX (cosm); hab: kan, rij; UFO

Literature source: -

## HYPERICACEAE

*Hypericum perforatum* L., a-aut Mes-Mac H scap; L7, T8, Hx, Rx, Nx; at: IX (cosm); hab: akp-V, kam-V, kor-V, liv-V, gro-I, zao-V, zap-V, pas-V, nop-IV, pko-III, svp-IV, pkg-III, tra-III, kro-II, pst-II, put-II; UNE

Literature source: Rohlena 1905: 33 (bei Podgorica verbreitet); Černjavski *et al.* 1949: 71 (Ćemovsko polje); Bulić 1994: 97 (Kuće Rakića, Srpska); Stešević 2002:25 (Gorica); Hadžiablahović 2010: 65 (Agrokombinat, Blok V, Dajbabska gora, Ržanički most).

*Hypericum tetrapterum* Fr. [syn. *H. acutum* Moench], a Mes H scap; L7, T7, H4, R4, N4; at: V (paleotemp); hab: vli-II; UFO

Literature source: -

**JUGLANDACEAE**

*Juglans regia* L., v fo dec Mes P scap; L6, T6, H5, R6, N6; at: IX (ADV, kult, EAS); hab: ork-II; zap-I; UNE

Literature source: Rohlena 1942: 19 (ad Podgorica culta); Bulić 1994:45 (Podgorica).

**LAMIACEAE**

*Ajuga chamaeptytis* (L.) Schreb., v-aut Mi-Mes T scap; L7, T8, H4, R9, N2; at: III (eurimed); hab: akp-V; kam-V; kor-V; gro-IV; pko-III; gaz-III; dep-III; liv-III; svp-III; pas-II; nop-II; pst-II; zid-II; pkg-I; put-I; UNE

Literature source: Rohlena 1905: 76 (um Podgorica, Duklja verbreitet); Černjavski *et al.* 1949:76 (Titograd); Bulić 1994: 116 (Kuće Rakića, Čemovsko polje); Stešević 2002: 25 (Gorica); Hadžiablahović 2010: 79 (Podgorica).

*Ajuga genevensis* L., v-a Mi-Mes H semiros; L8, T4, H4, R8, N2; at: V (euras); hab: tra-I; UNE

Literature source: Bulić 1994: 116 (Kuće Rakića).

*Ajuga reptans* L., a Mes H rept semiros; L6, Tx, H6, Rx, N6; at: V (euro-kavk); hab: sik-II; liv-I; tra-I; pno-I; UNE

Literature source: Rohlena 1902b: 9 (Podgorica) & 1942: 285 (Podgorica, Duklja).

*Ballota hispanica* (L.) Benth. [syn. *Ballota rupestris* (Biv.) Vis, *B. acuta* Briq.], a-aut Mes-Meg Ch suffrut; L6, T6, H3, R7, N2; at: IV (ne.med-mont); hab: sik-III; kor-III; pas-III; zap-II; pot-I; slj-I; UNE

Literature source: Rohlena 1912: 101 (Podgorica).

*Ballota nigra* L. subsp. *foetida* Hayek, a-aut Mes-Mac H scap; L8, T6, H5, Rx, N8; at: III (eurimed); hab: zap-V; dep-IV; pas-IV; svp-IV; gro-III; sik-III; liv-III; zao-III; pot-III; pst-II; ulk-II; nop-I; UNE

Literature source: Hadžiablahović 2010: 81 (Čepurci).

*Clinopodium acinos* (L.) Kuntze [syn. *Acinos arvensis* (Lam.) Dandy, *Calamintha acinos* (L.) Clairv.], v-a Mi-Mes T scap/H scap; L11, Tx, H2, R7, N1; at: III (eurimed); hab: akp-V; kam-V; kor-V; liv-IV; sik-IV; gro-III; nop-II; svp-II; zid-II; UFO

Literature source: Rohlena 1905: 78 (Podgorica); Černjavski *et al.* 1949:76 (Čemovsko polje), Šilić 1979:330 (Čemovsko polje, Horak, PRC!); Bulić 1994:122 (Podgorica); Stešević 2002: 26 (Gorica); Hadžiablahović 2010: 82 (Agrokombinat, Dajbabe, Kuće Rakića, Ržanički most).

*Clinopodium alpinum* subsp. *majoranifolium* (Mill.) Govaerts [syn. *Acinos majoranifolius* (Mill.) Šilić, *A. alpinus* (L.) Moench subsp. *majoranifolius* (Mill.) P.W. Ball], a Mes H scap; L0, T0, H0, R0, N0; at: I (se.dinar); hab: sik-I; UFO

Literature source: Rohlena 1942: 306 (Podgorica).

*Clinopodium menthifolium* (Host) Stace. [syn. *Calamintha sylvatica* Bromf.], a-aut Mes H scap; L4, T6, H5, R5, N4; at: V (euro-kavk); hab: sik-II; pot-II; kor-II; UFO

Literature source: -

*Clinopodium nepeta* (L.) Kuntze subsp. *nepeta* [syn. *Calamintha nepeta* (L.) Savi. subsp. *nepeta*, *C. nepetoides* Jordan.], a Mes-Mac H scap; L5, T7, H3, R9, N3; at: IV (med-mont); hab: sik-V; kam-V; liv-V; gro-V; zap-V; kor-IV; akp-IV; svp-IV; pas-IV; nop-III; pst-III; zao-III; ulk-II; pkg-II; tra-II; put-I; zid-I; kro-I; dep-I; UNE

Literature source: Černjavski *et al.* 1949:72 (Momišći); Hadžiablahović 2010: 82 (Agrokombinat, Čemovsko polje, Čepurci, Blok V).

*Clinopodium nepeta* (L.) Kuntze subsp. *glandulosum* (Req.) Govaerts [syn. *Calamintha nepeta* (L.) Savi subsp. *glandulosa* (Req.) P.W. Ball, *C. glandulosa* (Req.) Benth.], aut Mes-Mac H scap; L0, T0, H0, R0, N0; at: IV (med-mont); hab: kam-V; liv-V; gro-V; zap-V; kor-IV; akp-IV; svp-IV; pas-IV; nop-III; pst-III; zao-III; ulk-II; pkg-II; tra-II; put-I; dep-I; UNE

Literature source: Bulić 2008:173 (Gorica).

*Clinopodium vulgare* L. [syn. *Calamintha vulgare* (L.) Halácsy, non Clairv.], a-aut Mes-Mac H scap; L7, T5, H4, R7, N3; at: VIII (circumbor); hab: liv-IV; sik-III; kam-II; pas-II; kor-II; zao-II; nop-II; vli-II; svp-I; deo-I; gro-I; akp-I; UFO

Literature source: Bulić 1994: 123 (Kuće Rakića); Hadžiablahović 2010: 83 (Dajbabe, Tološka šuma).

*Galeopsis speciosa* Mill., a Mes-Mac T scap; L5, T4, H4, R3, N6; at: V (euras); hab: ork-I; UFO

Literature source: -

*Hyssopus officinalis* L. subsp. *aristatus* (Godr.) Briq. [syn. *H. officinalis* L. subsp. *pilifer* (Griseb. ex Pant.) Murb.], aut Mac Ch suffrut; L0, T0, H0, R0, N0; at: VI (orof. se.euro); hab: liv-I; UFO

Literature source: -

*Lamium amplexicaule* L., v-a Mi-Mes T scap; L7, T7, H4, R5, N7; at: V (paleotemp); hab: zao-II; liv-II; pst-II; pas-II; nop-I; kor-I; svp-I; dep-I; zid-I; ulk-I; tra-I; pko-I; UNE

Literature source: -

*Lamium bifidum* Cyr., v-a Mes-Mac T scap; L7, T8, H3, R4, N3; at: II (stenomed); hab: zao-III; pas-III; liv-III; pot-II; gro-II; tra-II; svp-II; zap-I; ulk-I; zid-I; UNE

Literature source: -

*Lamium maculatum* L., v-aut Mes-Mac H scap; L7, T7, H4, R5, N4; at: V (euras); hab: sik-V; pas-V; pot-V; kor-III; liv-III; zap-III; gro-II; pno-II; nop-II; tra-II; dep-I; UNE

Literature source: Bulić 1994:118 (Kuće Rakića); Hadžiablahović 2010: 81 (Tološka šuma).

*Lamium purpureum* L., n-(II)-v-aut Mi-Mes T scap; L7, T7, H4, R5, N5; at: V (euras); hab: zao-V; zap-V; liv-V; gro-V; pas-V; pot-V; tra-V; kam-IV; svp-IV; kor-III; akp-III; dep-III; pst-III; sik-III; ulk-III; nop-II; pkg-II; put-I; zid-I; UNE

Literature source: Bulić 1994:118 (Kuće Rakića); Hadžiablahović 2010: 81 (Podgorica).

*Lavandula angustifolia* Mill. [syn. *L. spica* L., nom. ambig.], a Mes-Meg Ch suffrut; L11, T5, H3, R2, N2; at: IX (ADV, kult, med-E); hab: nop-I; UFI

Literature source: Rohlena 1942: 289 (in hort. culta).

*Leonurus cardiaca* L., a Meg-Alt H scap; L8, T8, H5, R8, N9; at: V (euras); hab: vli-II; sik-I; svp-I; UFO

Literature source: -

*Leonurus marrubiastrum* L., a Mac-Meg H scap; L8, T7, H4, R7, N7; at: V (se.euro-s.sib); hab: svp-I; UFO

Literature source: -

*Lycopus europaeus* L. [syn. *L. europaeus* L. subsp. *menthifolius* (Mabille) Skalicky, *L. europaeus* L. subsp. *mollis* (A. Kern.) Rothm. ex Skalicky], a Mes-Meg H scap/rhiz emer HydG; L7, T6, H9, Rx, N7; at: VIII (circumbor); hab: vli-II, pno-I, svp-I; UFO

Literature source: Rohlena 1905: 79 (as "*L. europaeus* L. subsp. *mollis*" an nassen Stellen um Podgorica) & 1942: 312 (as "*L. europaeus* L. f. *mollis*", Podgorica) & Rohlena 1942: 312 (Podgorica); Bulić 1994: 124 (Srpska).

*Marrubium incanum* Desr. [syn. *M. candidissimum* auct., non L.], a Mes-Mac H scap; L11, T8, H3, R7, N9; at: III (se.med); hab: kam-IV; akp-II; liv-II; nop-II; pko-I; kor-I; UFO

Literature source: Rohlena 1905: 78 (Malo brdo bei Podgorica); Bulić 1994:117 (Srpska); Stešević 2002 (Gorica); Hadžiablahović 2010: 80 (Blok V, Čepurci, Kuće Rakića).

*Marrubium vulgare* L., a Mes-Mac H scap; L9, T8, H3, R8, N8; at: IX (subcosm); hab: liv-II; akp-I; nop-I; pas-I; kor-I; sik-I; UFO

Literature source: Rohlena 1905: 78 (an Ruderalorten bei Podgorica); Černjavski *et al.* 1949:76 (Titograd); Bulić 1994: 117 (Kuće Rakića).

*Melissa officinalis* L., a Mac-Meg H scap; L6, T7, H4, R6, N4; at: III (eurimed); hab: pot-III; pas-III; kor-II; zap-II; sik-I; slj-I; liv-I; svp-I; UNE

Literature source: Hadžiablahović 2010: 82 (Blok V, Ljubović).

*Melittis melissophyllum* L., a Mes-Meg H scap; L5, T6, H4, R7, N3; at: V (c.euro); hab: sik-I; UFO

Literature source: Rohlena 1905: 77 (Mosor prope Podgorica).

*Mentha aquatica* L., a-aut Mes-Meg H scap; L7, T5, H9, R7, N4; at: IX (subcosm); hab: pls-V; pno-IV; vli-IV; slj-II; UFO

Literature source: Bulić 1994: 125 (Srpska).



*Mentha longifolia* (L.) Huds., a-aut Mes-Mac H scap; L7, T5, H8, R8, N8; at: V (paleotemp); hab: liv-IV; gro-IV; kor-IV; svp-III; zap-III; pas-III; nao-II; zao-II; okg-II; dep-II; ulk-II; zar-II; akp-II; put-I; tra-I; UNE  
Literature source: Bulić 1994: 125 (Ćemovsko polje); Stešević 2002: 26 (Gorica); Hadžiablahović 2010: 84 (Blok V).

*Mentha × piperita* L., a-aut Mes-Mac H scap; L0, T0, H0, R0, N0; at: IX (ADV, kult); hab: zar-II; put-II; tra-II; kro-I; slj-I; pno-I; ulk-I; UFI

Literature source: Stešević & Jovanović 2005: 70 (Podgorica); Hadžiablahović 2010: 85 (Ljubović).

*Mentha pulegium* L. [syn. *Pulegium vulgare* Mill.], a-aut Mi-Mes H scap; L8, T7, H7, Rx, N2; at: IX (cosm); hab: vli-IV; gro-II; pno-II; liv-II; slj-I; akp-I; nop-I; tra-I; UFO

Literature source: Rohlena 1912: 103 (um Podgorica); Černjavski *et al.* 1949:77 (Titograd); Bulić 1994: 124 (Srpska); Hadžiablahović 2010: 85 (Blok V).

*Micromeria juliana* (L.) Benth. ex Rchb., a Mes Ch suffrut; L8, T8, H2, R1, N1; at: II (stenomed); hab: kam-V; kor-V; pot-V; akp-IV; sik-III; gro-II; kro-II; nop-II; zid-II; liv-I; pkg-I; put-I; UNE

Literature source: Rohlena 1902b: 11 (in fissuris rupium rivi Ribnica et fluvii Morača prope Podgorica (c. 20m); Beck & Szyzysyłowicz 1888: 138 (Podgorica); Šilić 1979: 215 (Morača canyon in Doljani); Bulić 1994: 123 (Kuće Rakića); Stešević 2002: 26 (Gorica); Hadžiablahović 2010: 83 (Dajbabska gora, Kuće Rakića, Sastavci).

*Micromeria longipedunculata* Bräuchler [syn. *M. parviflora* (Vis) Rchb., *Satureja inodora* Host], a Mes Ch suffrut; L0, T0, H0, R0, N0; at: I (dinar); hab: kor-IV; pot-IV; kam-II; UFO

Literature source: Baldacci 1892:119 (per Lješanska nahija copiosa); Rohlena 1902b: 11 (in rupibus calcareis, ad muros, in fissuris rupiumrivi Morača prope Podgorica c.10m) & 1942: 303 (Lješanska nahija); Šilić 1979: 261 (Podgorica); Bulić 1994: 123 (Kuće Rakića); Stešević 2002: 26 (Gorica); Hadžiablahović 2010: 83 (Kuće Rakića).

*Micromeria thymifolia* (Scop.) Fritsch [syn. *Satureja thymifolia* Scop., *Calamintha thymifolia* (Scop.) Reichenb.], a Mes-Mac Ch suffr; L0, T0, H0, R0, N0; at: I (alb-ilir-i.karn-slov); hab: pot-I; UFO

Literature source -

*Ocimum basilicum* L., a Mes T scap; L7, T8, H6, R5, N7; at: IX (ADV, kult, AS); hab: put-I; UFI

Literature source: -

*Origanum vulgare* L., a-aut Mes-Mac H scap; L7, T6, H3, Rx, N3; at: V (euras); hab: liv-III; sik-III; akp-II; kor-I; nop-I; slj-I; pno-I; UFO

Literature source: Rohlena 1942: 307 (ferquens); Stešević 2002: 26 (Gorica).

*Perilla frutescens* (L.) Britton, a-aut Mes T scap; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: ulk-I; kro-I; pst-I; svp-I; UFI

Literature source: Stešević & Jovanović 2005: 71 (Podgorica).

*Phlomis fruticosa* L., fo semp NP caesp; L11, T9, H6, R7, N2; at: II (stenomed); hab: kam-I; UFO

Literature source: Rohlena 1905: 78 (Malo brdo bei Podgorica).

*Prunella laciniata* (L.) L. [syn. *Brunella laciniata* L.], a Mi-Mes H scap; L8, T8, H3, R7, N2; at: III (eurimed); hab: liv-III; akp-II; tra-II; sik-I; kam-I; pas-I; vli-I; nop-I; UNE

Literature source: Rohlena 1902b: 9 (ad Podgorica); Bulić 1994:120 (Kuće Rakića); Hadžiablahović 2010: 82 (Tološka šuma, Tuški put).

*Prunella vulgaris* L., a Mi-Mes H scap; L7, T6, H6, R4, Nx; at: VIII (circumbor); hab: vli-IV; liv-II; sik-II; tra-II; svp-II; kam-I; pas-I; nop-I; UNE

Literature source: Bulić: 1995: 120 (Srpska, Kuće Rakića); Stešević 2002: 26 (Gorica); Hadžiablahović 2010: 82 (Kuće Rakića, Tološka šuma).

*Rosmarinus officinalis* L., fo semp NP caesp; L11, T8, H2, R6, N1; at: II (stenomed); hab: kam-I; zap-I; kor-I

Literature source: -

*Salvia amplexicaulis* Lam., a Mes H scap; L0, T0, H0, R0, N0; at: I (se.ilir-alb-balk-trac); hab: liv-IV; svp-IV; pas-IV; akp-III; kam-III; tra-III; svp-III,zao-III; sik-II; zap-II; nop-I; UNE

Literature source: Rohlena 1902b: 9 (in locis apricis Lješkopolje prope Podgorica).

*Salvia officinalis* L., v-a Mes-Meg Ch suffrut; L11, T6, H2, R7, N1; at: II (stenomed); hab: kam-V; sik-III; kor-III; nop-II; UFO

Literature source: Rohlena 1904: 76 (im wärmer Teil Montenegro gemein, am Hügel oberhalb des Klosters (monastir) bei Podgorica sehr heufig); Černjavski *et al.* 1949: 76 (Ćemovsko polje); Bulić 1994: 125 (Ćemovsko polje); Stešević 2002: 26 (Gorica); Hadžiablahović 2010: 85 (Dajbabska gora, Ržanički most).

*Salvia verbenaca* L., v-a Mi-Mes H semiros; L8, T8, H3, R5, N7; at: VI (med-atl); hab: liv-V; kam-V; tra-V; gro-V; akp-IV; gaz-IV; pas-IV; svp-IV; zap-III; zao-III; nop-II; pkg-II; pst-II; put-I; ulk-I; UNE

Literature source: Rohlena 1905: 76 (um Podgorica); Černjavski *et al.* 1949: 76 (Titograd); Bulić 1994: 128 (Srpska); Stešević 2002: 26 (Gorica); Hadžiablahović 2010: 86 (Blok V, Dajbabe, Kuće Rakića, Srpska).

*Salvia verticillata* L., a-aut Mes-Mac H scap; L6, T5, H4, R7, N6; at: V (s.ev-kavk); hab: liv-II; zao-II; kor-II; sik-I; zap-I; slj-I; tra-I; UFO

Literature source: Rohlena 1902b: 9 (in graminosis et fruticetis ad Podgorica); Hadžiablahović 2010: 86 (Dajbabe-Srpska, Kuće Rakića).

*Satureja montana* L., a-aut Mes Ch suffrut; L8, T6, H3, R7, N2; at: IV (med-mont); hab: akp-V; kam-V; sik-IV; nop-IV; pko-IV; dep-III; svp-III; gro-II; liv-II; pas-II; UFO

Literature source: Rohlena 1905: 78 (in der Podgoricer Ebene verbreitet); Šilić 1979: 42 (Ćemovsko polje-Cijevna); Bulić 1994:121 (Kuče Rakića, Ćemovsko polje); Stešević 2002: 26 (Gorica); Hadžiablahović 2010: 83 (Dajbabe).

*Satureja subspicata* Barth. ex Vis. [syn. *S. montana* L. subsp. *illyrica* Nyman.], a-aut Mes Ch suffrut; L0, T0, H0, R0, N0; at: I (e.adriat-ilir-alb); hab: akp-I; UFO

Literature source: Černjavski *et al.* 1949: 76 (Dajbabe, Vranići, Ćemovsko polje); Bulić 1994: 121 (Ćemovsko polje).

*Scutellaria altissima* L., a Mes-Meg H scap; L6, T6, H4, R5, N5; at: V (se. euro); hab: sik-II; vli-I; liv-I; pot-I; pno-I; UFO

Literature source: -

*Scutellaria galericulata* L., a Mes G rhiz scap; L7, T5, H9, R7, N6; at: VIII (circumbor); hab: vli-II; pno-I; UFO

Literature source: -

*Sideritis romana* L. subsp. *purpurea* (Talbot & Benth) Heywood [syn. *S. purpurea* Talbot & Benth], v-a Mi-Mes T scap; L0, T0, H0, R0, N0; at: I (ilir-adriat); hab: akp-V; kam-V; pot-V; liv-IV; kor-IV; sik-III; gro-II; nop-II; pas-II; zao-II; svp-II; pko-I; zar-I; zid-I; UNE

Literature source: Rohlena 1905: 78 (um Podgorica verbreitet); Černjavski *et al.* 1949: 76 (Ćemovsko polje); Stešević 2002: 26 (Gorica); Hadžiablahović 2010: 80 (Dajbabska gora, Kuće Rakića, Ržanički most).

*Stachys annua* (L.) L., a Mes T scap; L7, T6, H3, R8, N4; at: III (eurimed); hab: pas-I; nop-I; slj-I

Literature source: Rohlena 1912: 91 (Podgorica); Bulić 1994: 117 (Kuče Rakića).

*Stachys cretica* L. subsp. *salviifolia* (Ten.) Rech. fil. [syn. *S. salviifolia* Ten.], a Mes-Mac H scap; L7, T8, H3, R7, N9; at: III (we.med); hab: kam-I; UFO

Literature source: -

*Stachys germanica* L., a Mac H scap; L7, T6, H3, R8, N8; at: III (eurimed); hab: liv-I; sik-I; pas-I; UFO

Literature source: Černjavski *et al.* 1949: 76 (Momišići).

*Stachys menthifolia* Vis., a Meg H scap; L0, T0, H0, R0, N0; at: I (dinar); hab: sik-I; pot-I; UFO

Literature source: -

*Stachys officinalis* (L.) Trevis. [syn. *Betonica officinalis* L.], v-a Mes-Mac H scap; L6, T5, H6, R4, N3; at: V (euro-kavk); hab: liv-I; kam-I; sik-I; UFO

Literature source: -

*Stachys recta* L. subsp. *subcrenata* (Vis.) Briq., a-aut Mes-Mac H scap; L0, T0, H0, R0, N0; at: IV (med-mont); hab: pot-IV; kor-III; kam-II; svp-I; UFO

Literature source: Rohlena 1924: 46 (um Podgorica häufig) & 1933: 14 (ad campo ad Podgoirca); Hadžiablahović 2010: 81 (Kuće Rakića).

*Teucrium capitatum* L., a Mes Ch suffrut caesp; L11, T8, H2, Rx, N1; at: II (stenomed); hab: akp-V; kam-V; liv-V; gro-IV; pas-III; kor-III; tra-II; zao-II; nop-II; svp-I; slj-I; UNE

Literature source: Rohlena 1912: 99 (um Podgorica verbreitet); Černjavski *et al.* 1949:76 (as *T. polium* L., Čemovsko polje, Titograd, Vranići, Kruševac); Bulić 1994: 117 (as *T. polium*, Kuće Rakića, Čemovsko polje); Stešević 2002: 26 (as *T. polium*, Gorica); Hadžiablahović 2010: 8 (Dajbabska gora, Čemovsko polje).

*Teucrium chamaedrys* L., a Mes Ch suffrut caesp; L7, T6, H2, R8, N1; at: III (eurimed); hab: akp-III; liv-III; sik-II; kor-II; pas-II; gro-II; zao-I; svp-I; nop-I; slj-I; UFO

Literature source: Černjavski *et al.* 1949:76 (Titograd, Momišići); Stešević 2002 (Gorica).

*Teucrium montanum* L., v Mi Ch suffr caesp; L8, T7, H1, R8, N2; at: VII (orof. se.euro); hab: kor-I; UFO

Literature source: -

*Teucrium scordium* L., a Mes-Mac H scap; L7, T7, H8, R8, N2; at: V (euro-kavk); hab: slj-I; UFO

Literature source: -

*Thymus glabrescens* Willd., Mi-Mes Ch herb-rept; L7, T6, H4, R5, N3; at: V (se.euro-s.sib); hab: akp

Literature source: Černjavski *et al.* 1949: 77 (Čemovsko polje).

*Thymus longicaulis* C. Presl. [syn. *T. rohlenae* Velen.], v-a Mi-Mes Ch herb-rept; L7, T7, H4, R7, N3; at: III (eurimed); hab: liv-V; pas-V; gro-V; kam-V; tra-V; pas-V; sik-IV; zao-IV; svp-IV; gaz-III; pst-III; dep-II; put-I; ulk-I; UNE

Literature source: Rohlena 1942: 311 (Podgorica); Hadžiablahović 2010: 84 (Agrokombinat, Tološka šuma).

(-) *Thymus praecox* Opiz. subsp. *zygoformis* (Heinr. Braun) Jalas [syn. *T. albanus* Heinr. Braun]; L0, T0, H0, R0, N0; at: I (s.e.ilir-sk.pind); hab: akp

Literature source: Černjavski *et al.* 1949: 77 (Čemovsko polje).

*Thymus striatus* Vahl, a Mi-Mes Ch rept; L11, T8, H2, R2, N1; at: V (se. euro); hab: akp-V; kor-V; kam-V; liv-II; pas-II; gro-II; UFO

Literature source: Rohlena 1933: 18 (ad Podgorica ca 30-50m); Černjavski *et al.* 1949:77 (Čemovsko polje); Stešević 2002: 26 (Gorica); Hadžiablahović 2010: 84 (Agrokombinat, Dajbabska gora, Ržanički most).

## LAUREACEAE

*Laurus nobilis* L., fo semp Mi P caesp; L2, T7, H8, R4, N6; at: II (stenomed); hab: pot-I; sik-I; ork-I; UFO

Literature source: -

## LENTIBULARIACEAE

*Utricularia minor* L., er nat HydT; L8, Tx, H10, R7, N4; at: IX (cosm); hab: rij- I; kan- I; UFO

Literature source: Pulević & Bulić 1990: 87 (Mareza).

## LINACEAE

*Linum bienne* Mill. [syn. *L. angustifolium* Huds.], a Mes-Mac H scap bienn; L7, T7, H3, R7, N2; at: VI (eurimed-subatl); hab: akp-V, liv-V, pas-IV, kam-III, kor-III, pot-II, gro-II, nop-I, svp-I, kro-I; UNE

Literature source: Rohlena 1902a: 12 (in pratis et collinis herbis frequens, ad Podgorica c. 30m); Hadžiablahović 2010: 58 (Tološka šuma, Čemovsko polje- Agrokombinat, Kuće Rakića, Tološka šuma, Dajbabe).

*Linum strictum* L. subsp. *strictum*, v-a Mes T scap; L11, T9, H2, R5, N2; at: II (stenomed); hab: liv-III, akp-III, kor-III, kam-II, pas-I; UFO

Literature source: Rohlena 1902a: 12 (in pratis siccis, collibus aridis secus ripas rivuli Vrbica ad Podgorica); Hadžiablahović 2010: 59 (Agrokombinat, Ržanički most).

*Linum strictum* L. subsp. *corymbulosum* (Rchb.) Rouy [syn. *L. corymbulosum* Rchb., *L. liburnicum* Scop.], v Mes T scap; L0, T0, H0, R0, N0; at: II (stenomed); hab: akp-II, liv-II, nop-I, svp-I, kam-I; UFO

Literature source: -

*Linum tenuifolium* L., a Mes-Mac Ch suffrut caesp; L11, T8, H3, R9, N2; at: V (submed-pont); hab: akp-V, kam-V, gro-V, liv-V, zao-III, nop-III, pas-III, svp-III, zap-II, tra-I; UNE

Literature source: Rohlena 1902a: 12 (in campis circum Podgorica); Černjavski *et al.* 1949:71 (Čemovsko polje); Bulić 1994:91 (Čemovsko polje, Kuće Rakića); Stešević 2002: 27 (Gorica); Hadžiablahović 2010: 59 (Agrokombinat, Kuće Rakića, Dajbabska gora, Ržanički most).

*Linum trigynum* L. [syn. *Linum gallicum* L.], v Mi-Mes T scap; L11, T9, H2, R3, N2; at: III (eurimed); hab: akp-IV, kam-IV, liv-IV, gro-III, pot-III, zao-II, nop-I, pas-I; UFO

Literature source: Rohlena 1902a: 12 (in campo Lješkopolje prope Podgorica) & 1905: 33 (bei Kokoti); Stešević 2002: 27 (Gorica); Hadžiablahović 2010: 59 (Agrokombinat, Ržanički most).

#### LORANTHACEAE

*Arceuthobium oxycedri* (DC.) M. Bieb., v-a Mi-Mes Ch ep; L7, T8, H3, Rx, Nx; at: IX (paleosubtrop); hab: sta-I; UFO

Literature source: -

#### LYTHRACEAE

*Lythrum salicaria* L., a-aut Mac-Alt H scap; L7, T5, H8, R7, Nx; at: IX (cosm); hab: pls-V, vli-V, slj-IV, pno-III, zap-I, pko-I, svp-I; UFO

Literature source: -

#### MALVACEAE

*Abutilon theophrastii* Medik., a-aut Mac-Meg T scap; L8, T9, H7, R5, N4; at: IX (ADV, AS); hab: zap-I, svp-I, pko-I; UFI

Literature source: -

*Alcea pallida* (Willd.) Waldst. & Kit. [syn. *Althaea pallida* Willd.]; a Meg-Alt H scap bienn; L9, T7, H3, R5, N4; at: V (pont); hab: svp-II, pko-II, nop-I, zap-I, kam-I, liv-I; UNE

Literature source: Janchen 1919: 170- (bei den Ruinen von Podgorica).

*Alcea rosea* L. [syn. *Althaea rosea* (L.) Cav.], a Alt H scap; L9, T8, H3, R6, N4; at: IX (ADV, kult, AS); hab: svp-III, nop-III, zap-III, dep-II; UNE

Literature source: Hadžiablahović 2010: 63 (Kuče Rakića).

*Althaea cannabina* L., a-aut Mac-Meg H scap; L9, T8, H7, R7, N6; at: V (s.euro-w.as); hab: pot-II, vli-II, nop-I, svp-I; UFO

Literature source: -

*Althaea hirsuta* L., a Mes-Mac T scap; L11, T8, H3, R5, N4; at: III (eurimed); hab: kam-I, sik-I; UFO

Literature source: Hadžiablahović 2010: 65 (Dajbabska gora).

*Althaea officinalis* L. [syn. *Althaea tauriensis* DC.], a Meg-Alt H scap; L7, T6, H7, R7, N6; at: IX (subcosm); hab: vli-I, zap-I; UFO

Literature source: -

*Hibiscus syriacus* L., fo dec NP caesp; L9, T8, H3, R6, N5; at: IX (ADV, kult, AS); hab: put-I, zap-I, pot-I; UFI

Literature source: Stešević & Jovanović 2005: 71 (Podgorica).

*Hibiscus trionum* L., a-aut Mes-Mac T scap; L11, T8, H5, R7, N7; at: IX (cosm); hab: put-I, tra-I, zao-I

Literature source: Hadžiablahović 2010: 65 (Blok V).

*Lavatera thuringiaca* L. subsp. *ambigua* (DC.) Nyman [syn. *L. ambigua* DC.], a Meg-Alt H scap; L0, T0, H0, R0, N0; at: III (c.med); hab: kam-I, svp-I, ziv-I, ork-I; UFO

Literature source: -

*Malva moschata* L., a Mac H scap; L7, T6, H4, R7, Nx; at: III (eurimed); hab: slj-I, liv-I; UFO

Literature source: -

*Malva neglecta* Wallr., a Mes-Mac T scap; L7, T6, H5, Rx, N9; at: V (paleotemp); hab: zap-V, gro-IV, pas-IV, svp-IV, tra-III, pok-III, gst-III, liv-III, pst-III, akp-II, nop-II, dep-II, put-I; UNE

Literature source: -

*Malva sylvestris* L. [syn. *M. ambigua* Guss.], a-aut Mac-Meg H scap bienn; L8, T6, H4, Rx, N8; at: IX (cosm); hab: gro-V, zap-V, pas-V, liv-IV, zap-IV, gst-III, zao-III, pst-III, dep-III, trav-III, akp-II, nop-II, pkg-II, ulk-II, kro-I; UNE  
Literature source: Rohlena 1905: 33 (bei Podgorica); Stešević 2002: 27 (Gorica).

### MELIACEAE

*Melia azedarach* L., fo dec Mes P scap; L0, T0, H0, R0, N0; at: IX (ADV, AS); hab: zap-II, dep-I, nop-I, pkg-I, pot-I, slj-I, svpI; UFI  
Literature source: Stešević 2002: 27 (Gorica); Hadžiablahović 2010: 61 (Podgorica).

### MIMOSACEAE

*Acacia dealbata* Link, fo semp NP scap; L0, T0, H0, R0, N0; at: IX (ADV, kult, AUSTR); hab: zap-I; UFI  
Literature source: Stešević & Jovanović 2005: 71 (Podgorica); Hadžiablahović 2009: 44 (Podgorica).

*Albizia julibrissin* Dur., fo dec Mi P scap; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: nop-I; UFI  
Literature source: Stešević & Jovanović 2005: 71 (Podgorica); Hadžiablahović 2009: 45 (Podgorica).

### MORACEAE

*Broussonetia papyrifera* L'Hérit ex Vent., v-a fo dec Mi P scap; L0, T0, H0, R0, N0; at: IX (ADV, AS); hab: zap-V; dep-II; gro-II; ork-I; pst-II; put-II; kro-I; ulk-I; UFI  
Literature source: Stešević & Jovanović 2005: 71 (Podgorica).

*Ficus carica* L., n-v fo dec Mi-Mes P scap; L7, T8, Hx, R5, Nx; at: IX (ADV, AS-AF); hab: zap-V; kor-IV; kam-IV; kro-III; put-II; nop-II; ulk-II; zid-II, ziv-II; pst-I; UNE  
Literature source: Szyszylowicz 1888: 60 (in dumetis Podgoriza); Rohlena 1942: 21 (Podgorica); Černjavski *et al.* 1949 (Titograd); Bulić 1994:49 (Kuće Rakića, Srpska); Stešević 2002: 27 (Gorica); Hadžiablahović 2010: 19 (Kuće Rakića).

*Morus alba* L., v fo dec Mes P scap; L8, T7, H5, R5, N5; at: IX (ADV, AS); hab: ork-III, pot-II; ziv-II; kob-I; svp-I; zap-I, nop-I; UNE  
Literature source: Rohlena 1902a: 15 (cultura ad Podgorica); Černjavski *et al.* 1949: 67 (Titograd-subspontanea); Stešević 2002: 27 (Gorica).

*Morus nigra* L., v fo dec Mi-Mes P scap; L8, T7, H5, R5, N5; at: IX (ADV, AS), hab: pot-I; kam-I; zap-I; ork-I; kam-I; UNE  
Literature source: -

### NYCTAGINACEAE

*Mirabilis jalapa* L., a-aut Mes-Meg G tub; L6, T7, H4, Rx, N6; at: IX (ADV, AMS); hab: zap-III; svp-I; kro-I; dep-I; UFI  
Literature source: Stešević & Jovanović 2005: 71 (Podgorica).

### NYMPHAEACEAE

*Nuphar pumila* (Timm) DC., rhiz nat HydG; L0, T0, H0, R0, N0; at: V (euras); hab: rij; UFO  
Literature source: -

### OLEACEAE

*Fraxinus angustifolia* Vahl subsp. *oxycarpa* (M. Bieb. ex Willd.) Franco & Rocha Alfonso [syn. *F. oxycarpa* Willd.], fo dec Mi P scap; L4, T8, H7, R7, N8; at: V (s.e.ev); hab: ork-III; UFO  
Literature source: -

*Fraxinus ornus* L. fo dec Mi-Mes P scap; L5, T8, H2, R8, N3; at: V (eurimed-pont); hab: sik-V, kor-IV, kam-III, ziv-II; UFO  
Literature source: Rohlena 1905: 70 (um Podgorica); Stešević 2002: 27 (Gorica); Hadžiablahović 2010: 73 (Kuće Rakića).

*Ligustrum japonicum* Thunb., fo semp Mi-Mes P scap; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: kro-I, zap-I, sik-I, pot-I; UFI

Literature source: Hadžiablahović 2010: 73 (Podgorica).

*Ligustrum vulgare* L., fo dec Mi P caesp; L7, T6, Hx, R8, Nx; at: V (ev-w.as); hab: ork-II, kor-II, ziv-II; UFO

Literature source: Rohlena 1905: 70 (in Gebüsch bei Podgorica gemein); Černjavski *et al.* 1949: 77 (Ćemovsko polje); Bulić 1994: 107 (Ćemovsko polje); Hadžiablahović 2010: 73 (Dajbabe-Srpska).

*Olea europea* L. subsp. *sativa* (Loud.) Arcang., fo semp Mi-Mes P scap/P caesp; L0, T0, H0, R0, N0; at: II (stenomed); hab: kam-I

Literature source: Rohlena 1905: 70 (bei Podgorica vereinzelt kultiviert).

*Phillyrea latifolia* L. [syn. *Phillyrea media* L.], fo semp Mi P caesp; L5, T8, H4, Rx, N5; at: II (stenomed); hab: sik-V, kam-III, kor-III; UFO

Literature source: Rohlena 1942: 323 (Podgorica), Pulević & Lakušić 1983 (Cijevna); Stešević 2002: 27 (Gorica); Hadžiablahović 2010: 74 (Kuće Rakića).

*Syringa vulgaris* L., fo dec Mi P caesp; L6, T7, H5, R5, N4; at: IX (ADV, kult, E); UFI

Literature source: Beck & Szyszlowicz 1888: 128 (in dumetorum pagi Podgoriza); Stešević 2002 (Gorica).

## OENOTHERACEAE

*Epilobium angustifolium* L. [syn. *Chamaenerion angustifolium* (L.) Scop.], a Alt H scap; L6, T4, H4, Rx, N4; at: VIII (circumbor); hab: krc-I; UFO

Literature source: -

*Epilobium dodonaei* Vill. [syn. *Chamaenerion palustre* auct mult., non (L.) Scop., *C. angustissimum* (Weber.) D. Sosn.], a-aut Mes-Mac H scap; L9, T6, H3, R7, N3; at: V (orof s.euro-kavk); hab: slj-I, kor-I; UFO

Literature source: Hadžiablahović 2010: 67 (Kuće Rakića).

*Epilobium hirsutum* L., a Mac-Meg H scap; L7, T8, H7, R6, N6; at: IX (cosm); hab: pls-III; UFO

Literature source: -

*Epilobium parviflorum* Schreb., a Mes-Meg H scap; L7, T6, H8, R6, N6; at: V (paleotemp); stip- pls-II; UFO

Literature source: -

*Ludwigia palustris* (L.) Elliott., a Mes T rept; L7, T6, H9, R5, N6; at: IX (cosm); hab: ork-I; UFO

Literature source: -

*Oenothera biennis* L., a-aut Mac-Alt H scap bienn; L9, T7, H3, Rx, N4; at: IX (ADV, AMN); hab: zap-I, svp-I, dep-I, pkg-I, pno-I; UNE

Literature source: -

## OROBANCHACEAE

*Orobanche caryophyllacea* Sm., v-a Mes Par G; L7, T8, H3, R6, N4; at: VI (submed-atl); hab: kam-II; kor-I; UFO

Literature source: -

*Orobanche gracilis* Sm., v-a Mes Par G; L8, Tx, H4, Rx, N4; at: V (euro-kavk); hab: kam-II; liv-II; akp-I; kor-I; UFO

Literature source: Stešević 2002: 28 (Gorica).

*Orobanche minor* Sm., v-a Mes Par G; L7, T6, H4, R5, N4; at: IX (cosm); hab: liv-II; akp-II; kam-II; kor-II; gro-I; UFO

Literature source: Stešević 2002: 28 (Gorica).

*Orobanche ramosa* L. subsp. *ramosa*, v Mi Par G; L7, T6, H4, R6, N4; at: V (paleotemp); hab: kam- I, liv- I UFO

Literature source: -

*Orobanche ramosa* L. subsp. *nana* (Reuter) Coutinho; v Mi Par G; L0, T0, H0, R0, N0; at: V (s.euro-s.as); hab: liv-V; akp-IV; gro-III; tra-III; svp-II; kor-II; gaz-II; dep-I; put-I; UNE

Literature source: Hadžiablahović 2010: 91 (Blok V).

*Orobanche reticulata* Wallr., v Mes Par G; L8, T6, H3, R5, N4; at: V (c.euro); hab: liv-III; akp-II; kam-II; kor-I; tra-I; svp-I; UFO  
Literature source: -

### OXALIDACEAE

*Oxalis articulata* Savigny, a Mes G rhiz; L0, T0, H0, R0, N0; at: IX (ADV, AMS); hab: nop-I, svp-I, zap-I, dep-I; UFI

Literature source: Hadžiablahović 2006: 98 (Podgorica).

*Oxalis corniculata* L., v-a Mi-Mes H rept; L7, T7, H4, Rx, N6; at: IX (cosm); hab: ulk-V; zap-IV; pkg- IV; put-III; svp-III; dep-II; gaz-II; pot-II; nop-II; akp-I; kro-I; zid-I; UNE

Literature source: Rohlena 1905: 34 (um Podgorica verbreitet); Bulić 1994:89 (Srpska); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 57 (Podgorica).

*Oxalis stricta* L. [syn. *O. dillenii* Jacq.], v-aut Mi-Mes H scap; L7, T7, H5, R5, N7; at: IX (ADV, AMN); hab: ulk-I, put-I, pkg-I, nop-I, svp-I; UFI

Literature source: -

### PAPAVERACEAE

*Chelidonium majus* L., a-aut Mes-Mac H semiros; L6, T6, H5, Rx, N8; at: V (euras); hab: zap-II; dep-II; nop-I; ulk-I; svp-I; gro-I; UFI

Literature source: -

*Glaucium flavum* Crantz, a Mes-Meg H scap; L11, T9, H1, R4, N1; at: III (eurimed); hab: nop-II; dep-I; pno-I; gro-I; UFI

Literature source: Hadžiablahović 2010: 33 (Kuće Rakića).

*Papaver apulum* Ten., v-a Mac T scap; L11, T1, H4, R9, Nx; at: III (n.e.med); hab: pko-II; dep-I; svp-I; nop-I; UFO

Literature source: Rohlena 1942: 74 (in lapidosis et gramin. ad Podgorica reg. Mediterr.).

*Papaver argemone* L., v-a Mes-Mac T scap; L5, T7, H4, R5, N5; at: IX (eurimed-turan); hab: liv-II; svp-I; zao-I; tra-I; zap-I; UNE

Literature source: Hadžiablahović 2010: 32 (Kuće Rakića).

*Papaver dubium* L., v-a Mac-Meg T scap; L6, T6, H4, R5, N5; at: IX (e.med-turan); hab: zao-II; liv-I; nop-I; zap-I; pas-I; svp-I; UNE

Literature source: Rohlena 1905: 18 (bei Podgorica).

*Papaver rhoeas* L., a Mac-Meg T scap; L6, T6, H5, R7, Nx; at: IX (cosm); hab: liv-IV; zao-IV; dep-IV; gro-IV; nop-III; svp-III; pko-III; kor-III; kam-II; zap-II; akp-II; pas-II; kro-I; UNE

Literature source: Rohlena 1905: 18 (bei Podgorica); Bulić 1994:64 (Rakića most, Kuće Rakića, Srpska); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 32 (Plavi Dvor, Tuški put, Agrokombinat, Kuće Rakića, Tološi, Sastavci).

*Papaver somniferum* L., a Meg-Alt T scap; L0, T0, H0, R0, N0; at: IX (ADV, EAS); hab: svp-I; UFI

Literature source: -

### PITTOSPORACEAE

*Pittosporum tobira* (Thunb.) Aiton fil., fo semp NP caesp; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: zap-I; pot-I; svp-I; UFI

Literature source: Stešević & Jovanović 2005: 72 (Podgorica).

### PLANTAGINACEAE

*Plantago bellardii* All., v-a Mi T ros; L11, T10, H3, R3, N1; at: III (eurimed); hab: akp-V, kam-IV, liv-III, gro-II, gaz-II, pot-II, dep-I; UFO

Literature source: Rohlena 1902b: 12 (in incultis et arenosis regionis inferioris ad Podgorica); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 93 (Agrokombinat, Dajbabska gora, Ržanički most, Tološka šuma).

*Plantago coronopus* L., v-a Mi-Mes T ros; L8, T7, H7, R7, N4; at: III (eurimed); hab: kro-IV, ulk-III, put-II, akp-II, pko-II, gaz-II, pkg-I; UNE

Literature source: Rohlena 1905: 80 (bei Podgorica); Hadžiablahović 2010: 93 (Blok V).



*Plantago holosteum* Scop. [syn. *P. carinata* Schrad. ex Mert. & W.D.J. Koch, non Moench], a Mi-Mes H ros; L9, T8, H3, R7, N3; at: VII (orof. s.eu); hab: kam-V, akp-IV, liv-III, pko-III, gro-III; UFO Literature source: Rohlena 1902b: 11 (in locis apricis circum Podgorica) & 1935: 13 (in campo ad Podgorica); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 93 (Dajbabska gora, Tuški put, Vranjske njive).

*Plantago lanceolata* L., a Mes-Mac H ros; L6, T7, Hx, Rx, Nx; at: IX (cosm); hab: liv-V, tra-V, gaz-V, gro-V, zao-V, zap-V, pas-V, svp-V, ulk-IV, pno-IV, put-III, kro-III, pst-III, akp-II, dep-II, kam-II, nop-II, zar-II; UNE

Literature source: Rohlena 1905: 78 (bei Podgorica verbreitet) & 1912: 86 (auf dürren Stellen bei Podgorica); Bulić 1991: 133 (Kuće Rakića); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 94 (Podgorica, Čemovsko polje).

*Plantago major* L. subsp. *major*, v-a Mes-Mac H ros; L8, Tx, H5, Rx, N7; at: IX (cosm); hab: gaz-V, ulk-V, gro-V, zao-IV, pas-IV, tra-IV, pno-IV, liv-III, svp-III, pst-III, slj-II, kro-II, zar-II, pko-I; UNE

Literature source: Bulić 1991: 132 (Čemovsko polje, Kuće Rakića); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 94 (Podgorica, Tuški put).

*Plantago major* L. subsp. *intermedia* (DC.) Arcang. [syn. *P. intermedia* DC.], a Mi-Mes H ros; L0, T0, H0, R0, N0; at: IX (cosm); hab: gaz-II, ulk-II, tra-II, pkg- II, gro-I, liv-I, slj-I, kro-I, pko-I, UNE

Literature source : Hadžiablahović 2002: 20 (Podgorica).

*Plantago media* L., v Mes-Mac H ros; L7, Tx, H4, R8, N3; at: V (euras); hab: tra-I

Literature source : -

#### PLATANACEAE

*Platanus acerifolia* (Aiton) Willd. [syn. *P. x hispanica* Münch., *P. hybrida* auct.], fo dec Mes P scap; L0, T0, H0, R0, N0; at: IX (ADV, kult, E); hab: ork-III; kro-II; zap-II; put-I; ulk-I; UNE

Literature source: Stešević 2008: 467 (Podgorica).

#### POLYGALACEAE

*Polygala comosa* Schkuhr, a Mi-Mes H scap; L8, T6, H3, R8, N2; at: V (c.euro-s.sib); hab: akp-IV, liv-IV, kam-I; UFO

Literature source: Rohlena 1905: 28 (bei Podgorica nicht selten, auch mit deutlichen Übergangsformen zu der *Polygala comosa* Schkuhr subsp. *nicaeensis* Risso); Bulić 1994:94 (Čemovsko polje, Kuće Rakića).

*Polygala monspeliaca* L., v Mi T scap; L8, T8, H5, R7, N1; at: II (stenomed); hab: kor-I, akp-I, pas-I; UFO

Literature source: : -

(-) *Polygala nicaeensis* Risso ex W.D.J. Koch subsp. *mediterranea* Chodat, v-a Mes H scap; L0, T0, H0, R0, N0; at: III (eurimed); UFO

Literature source: Rohlena 1942: 120 (circa Podgorica).

*Polygala vulgaris* L., a Mes H scap; L7, T4, H5, R3, N2; at: V (euras); hab: liv-II, pas-II, vli-I; UFO

Literature source: -

#### POLYGONACEAE

*Fallopia convolvulus* (L.) A. Löve. [syn. *Polygonum convolvulus* L., *Bilderdykia convolvulus* (L.) Dumort., *Fagopyrum convolvulus* (L.) H. Gross.], v-aut Mes-Meg ST herb; L0, T0, H0, R0, N0; at: VIII (cirkumbor); hab: nop-II; pko-II; slj-I; zao-I; kro-I; UNE

Literature source: -

*Fallopia dumetorum* (L.) Holub [syn. *Polygonum dumetorum* L., *Bilderdykia convolvulus* (L.) Dumort., *Fagopyrum dumetorum* (L.) Schreb.], v-aut Meg-Alt ST herb; L6, T7, H4, R5, N6; at: VIII (eurosib); hab: ork-I; kro-I; UNE

Literature source: -

*Persicaria amphibia* (L.) S. F. Gray [*Polygonum amphibium* L.], a rhiz nat HydG; L7, Tx, H11, Rx, N7; at: IX (subcosm); hab: kan- I; UFO

Literature source: -

*Persicaria lapathifolia* (L.) S. F. Gray [syn. *Polygonum lapathifolium* L.], a-aut Mes-Meg T scap; L6, T6, H7, Rx, N8; at: IX (cosm); hab: pno-II; slj-II; zap-I; svp-I; UNE

Literature source: Rohlena 1905: 82 (bei Podgorica).

*Persicaria maculosa* S. F. Gray [syn. *Polygonum persicaria* L.], a-aut Mac-Meg T scap; L6, T5, H3, R7, N7; at: IX (subcosm); hab: zap-V; zao-V; dep-IV; pno-IV; ulk-IV; kro-III; svp-III; nop-II; tra-II; zar-I; zid-I; UNE

Literature source: Bulić 1994: 51 (Ćemovsko polje, Kuće Rakića); Hadžiablahović 2010: 21 (Kuče Rakića).

*Persicaria mitis* (Schrank) Asenov [syn. *Polygonum mite* Schrank], a-aut Mes-Meg T scap; L7, T6, H8, Rx, N7; at: V (euro-kavk); hab: pls-III; pno-I; UFO

Literature source: Bulić 1994: 51 (Kuče Rakića).

*Polygonum arenastrum* Boreau., a-aut Mes-Meg T rept; L7, T8, H3, R6, N1; at: IX (subcosm); hab: gaz-V; pkg-V; gro-V; pst-IV; pko-IV; put-IV; ulk-III; tra-III; zar-II; kro-I; UNE

Literature source: -

*Polygonum aviculare* L., a-aut Mi-Meg T rept; L7, T7, H3, R6, N1; at: IX (cosm); hab: gaz-V; gro-V; zao-V; zap-V; svp-V; pst-IV; pkg-IV; pko-III; tra-III; put-III; UNE

Literature source: Rohlena 1942: 27 (frequens); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 21 (Podgorica, ruderalis).

*Reynoutria japonica* Houtt., a Alt H scap; L0, T0, H0, R0, N0; at: IX (ADV, AS); hab: dep-I; zid-I; zap-I; UFI

Literature source: Stešević & Jovanović 2005: 73 (Podgorica).

*Rumex acetosella* L., v-a Mes-Meg H scap; L8, T5, H5, R1, N2; at: IX (subcosm); hab: zao-IV; liv-III; akp-I; dep-I; tra-I; svp-I; kor-I; UFO

Literature source: Rohlena 1942: 26 (Podgorica); Stešević 2002: 30 (Gorica); Hadžiablahović 2010: 21 (Dajbabe, Aluminijumski kombinat, Kruševac).

*Rumex aquaticus* L., a Meg-Alt H scap; L7, Tx, H8, R7, N8; at: VIII (eurosib); hab: ork-II; UFO

Literature source: -

*Rumex conglomeratus* Murray., a Meg H scap; L8, T7, H7, Rx, N8; at: V (euras); hab: vli-III; pno-III; slj-II; liv-I; sik-I; svp-I; zao-I; zap-I; nop-I; UNE

Literature source: Bulić 1994: 52 (Srpska); Hadžiablahović 2010: 21 (Čepurci, the left riverbank of Morača, Kuće Rakića).

*Rumex crispus* L., v-a Meg-Alt H scap; L7, T5, H6, Rx, N5; at: IX (subcosm); hab: zap-V; zao-IV; nop-III; svp-III; dep-III; liv-III; pas-II; tra-II; gro-II; pko-II; ulk-I; UNE

Literature source: Rohlena 1942: 25 (Podgorica); Stešević 2002: 23 (Gorica); Hadžiablahović 2010: 21 (along the road Podgorica-Tuzi).

*Rumex hydrolapathum* Huds., v-a Meg-Alt H scap; L7, T7, H10, R7, N7; at: V (euro); hab: ork-II; pno-I; UFO

Literature source: -

*Rumex obtusifolius* L. (incl. *R. obtusifolius* subsp. *sylvestris* Čelak, *R. obtusifolius* subsp. *transiens* (Simkovic) Rech. fil.), a Meg H scap; L7, T5, H3, Rx, N9; at: IX (subcosm); hab: zap-III; liv-III; svp-III; pno-III; pas-II; vli-II; tra-II; nop-II; pko-II; dep-II; slj-I; kor-I; ulk-I; UNE

Literature source: -

*Rumex patientia* L. [syn. *R. kernerii* Borb. apud Rech. fil.], a Alt H scap; L7, T6, H3, R6, N7; at: V (euro-turan); hab: zap-IV; svp-III; pot-III; liv-III; dep-II; kor-II; zao-II; pno-II; slj-II; nop-II; tra-I; pas-I; UNE

Literature source: -

*Rumex pulcher* L., v-a Mes-Meg H scap; L8, T8, H2, R6, N9; at: III (eurimed); hab: gaz-V; svp-V; zap-V; zao-IV; liv-IV; pas-IV; tra-IV; pst-III; put-III; pko-II; slj-II; kam-II; dep-II; ulk-II; nop-II; kro-I; UNE

Literature source: Rohlena 1902a: 13 (in incultis, fruticosis, et ad vias prope Podgorica); Stešević 2002: 23 (Gorica); Hadžiablahović 2010: 22 (Tuški put).

*Rumex sanguineus* L., a Meg H scap; L4, T5, H8, R7, N7; at: V (euro-kavk); hab: pls-II; vli-II; pno-II; zap-I; UNE

Literature source: -

## PORTULACACEAE

*Portulaca oleracea* L., a Mes T scap; L7, T8, H4, R7, N7; at: IX (ADV, AS); hab: zap-V; pkg-V; ulk-V; zao-IV; put-IV; pko-IV; pno-IV; kor-IV; dep-IV; svp-IV; gro-IV; gaz-III; nop-III; zar-III; akp-II; UNE

Literature source: Rohlena 1942: 36 (circa Podgorica); Stešević 2002 (Gorica).

### PRIMULACEAE

*Anagallis arvensis* L., v-a Mi T rept; L6, T6, H5, Rx, N6; at: IX (cosm); hab: akp-V, gro-IV, liv-IV, kor-IV, svp-III, kro-III, zao-III, dep-II, pkg-II, tra-II, put-I, nop-I, pst-I, ulk-I, zar-I, zid-I; UNE

Literature source: Rohlena 1902b: 11 (in campo ad Podgorica); Bulić 1994: 107 (Ćemovsko polje, Kuće Rakića, Srpska); Stešević 2002: 30 (Gorica); Hadžiablahović 2010: 72 (Podgorica).

*Anagallis foemina* Mill. [syn. *A. caerulea* Schreb., non L., *A. arvensis* subsp. *caerulea* Hartman, *A. arvensis* subsp. *foemina* (Mill.) Schnitz & Thell.], v-a Mi T rept; L8, T7, H4, R9, N5; at: IX (subcosm); hab: akp-III, liv-III, gro-II, kam-II, kro-I, pko-I, svp-I; UNE

Literature source: Rohlena 1902b: 11 (in campo ad Podgorica) & 1904: 78 (Podgorica).

*Asterolinum linum-stellatum* (L.) Duby, v Mi T scap; L11, T9, H3, R3, N1; at: II (stenomed); hab: akp-V; pot-V; kor-IV; kam-IV; pko-III; gro-II; UFO

Literature source: Rohlena 1905: 79 (in der Podgoricer ebene nicht selten); Stešević 2002: 30 (Gorica).

*Cyclamen hederifolium* Aiton [syn. *C. neapolitanum* Ten.], a-aut Mi G tub; L4, T8, H5, R5, N5; at: III (n.med); hab: sik-V, kam-III, pas-III, tra-I, ziv-I; UFO

Literature source: Stešević 2002: 30 (Gorica); Hadžiablahović 2010: 72 (Kuče Rakića).

*Lysimachia nummularia* L., v-a Mi-Mes Ch herb rept; L4, T6, H6, Rx, Nx; at: V (euro-kavk); hab: pls-V, vli-V, pno-II, tra-I; UFO

Literature source: Rohlena 1905: 78 (bei Podgorica gemein).

*Lysimachia vulgaris* L., a Mac-Meg H scap; L7, Tx, H9, Rx, Nx; at: V (euras); hab: pls- III, vli-II, pno-I; UFO

Literature source: Rohlena 1942: 243 (donja Zeta prope Podgorica).

*Primula vulgaris* Huds., n-v Mi H ros; L6, T5, H5, R7, N5; at: V (euro-kavk); hab: sik-II, ziv-I; UFO

Literature source: -

### PUNICACEAE

*Punica granatum* L., fo dec Mi P caesp; L9, T8, H4, Rx, N4; at: IX (ADV, AS); hab: sik-V, kam-V, kor-V, nop-III, akp-II, zap-II, svp-II, dep-I, gro-I, kro-I, pkg-I, put-I, ulk-I, zid-I; UNE

Literature source: Szyszyłowicz 1888: 88 (circa Podgorica); Rohlena 1905: 49 (um Podgorica); Černjavski *et al.* 1949: 74 (Vranići); Bulić 1994:99 (Srpska, Kuće Rakića); Stešević 2002: 30 (Gorica); Hadžiablahović 2010: 67 (Ćemovsko polje).

### RANUNCULACEAE

(-) *Adonis annua* L., [syn. *A. autumnalis* L., *A. microcarpa* DC.], v Mes-Mac T scap; L7, T7, H3, R5, N2; at: V (euro)

Literature source: Rohlena 1905: 13 (Podgorica).

*Anemone apennina* L., n-v Mi-Mes G rhiz; L5, T5, H4, R5, N5; at: III (i.submed); hab: sik-II; UFO

Literature source: -

*Anemone hortensis* L., n-v Mes G rhiz; L8, T8, H4, R4, N3; at: III (sj. med); hab: liv-V; akp-V; gro-V; kam-V; zao-V; pas-V; sik-V; tra-V; dep-III; svp-III; pno-II; zap-II; nop-I; UNE

Literature source: Černjavski *et al.* 1949: 69 (Titograd, Vranići); Bulić 1994: 62 (Ćemovsko polje, Kuće Rakića, Srpska); Stešević 2002: 30 (Gorica); Hadžiablahović 2010: 30 (Omerbožovići, Kuće Rakića).

*Aquilegia vulgaris* L., a Mac-Meg H scap; L6, T6, H4, R7, N4; at: IX (ADV, kult, E) hab: svp-I.

Literature source: -

*Caltha palustris* L., v Mac-Meg H scap; L7, Tx, H8, Rx, Nx; at: VIII (circumbor); hab: ork-II; pls-II; UFO

Literature source: -

*Clematis flammula* L., a S lig; L7, T9, H3, R5, N4; at: III (eurimed); hab: sik-IV; ziv-IV; kor-IV; kam-III; nop-II; zap-II; svp-II; liv-II; gro-I; UFO

Literature source: Rohlena 1902a: 6 (in fruticetis ad Podgorica); Černjavski *et al.* 1949: 69 (Vranići); Stešević 2002: 30 (Gorica); Hadžiablahović 2010: 30 (Kuće Rakića).

*Clematis vitalba* L., a S lig; L7, T7, H5, R7, N7; at: V (euro-kavk); hab: sik-IV; ziv-IV; kor-IV; kam-III; nop-III; zap-III; zid-I; UNE

Literature source: Rohlena 1912: 6 (in Gebüsch bei Podgorica); Stešević 2002: 30 (Gorica); Hadžiablahović 2010: 30 (the left riverbank of Morača).

*Clematis viticella* L., a S lig; L7, T7, H4, R6, N3; at: V (s.e.europ-c.as); hab: ork-III; vli-II; liv-I; sik-I; UFO

Literature source: Rohlena 1905: 12 (in Gebüsch um Podgorica und Kokoti); Bulić 1994: 62 (Srpska).

*Consolida regalis* Gray [syn. *C. regalis* Gray subsp. *arvensis* (Opiz) Soó, *Delphinium consolida* L., *D. consolida* L. *arvensis* (Opiz) Graebn.], v-aut Mes-Meg T scap; L9, T7, H4, R6, N3; at: III (eurimed); hab: liv-IV; gro-IV; sik-III; kam-II; kor-II; akp-III; zao-II; svp-II; nop-II; UFO

Literature source: Rohlena 1942: 63 (frequens); Bulić 1994: 61 (Ćemovsko polje, Kuće Rakića); Stešević 2002: 30 (Gorica).

*Delphinium peregrinum* L., a-aut Mes T scap; L8, T7, H3, R4, N3; at: V (j.i. ev); hab: liv-III; sik-III; kor-II; kam-I; svp-I; nop-I; UFO

Literature source: Bulić 1994: 61 (Kuće Rakića); Černjavski *et al.* 1949: 69 (Vranići); Stešević 2002 (Gorica); Hadžiablahović 2010: 29 (the left riverbank of Morača, Ljubović, Kuće Rakića).

*Nigella arvensis* L., a Mes T scap; L8, T7, H3, R9, N3; at: III (eurimed); hab: liv-II; kam-I; pas-I; UFO

Literature source: Černjavski *et al.* 1949: 69 (Vranići); Hadžiablahović 2010: 29 (Blok V, Tuški put, Ržanički most).

*Nigella damascena* L., a Mes T scap; L8, T9, H3, R4, N2; at: III (eurimed); hab: liv-V; akp-V; sik-IV; kam-IV; gro-IV; kor-III; pas-III; svp-II; zap-I; UFO

Literature source: Rohlena 1905: 16 (bei Podgorica, Kokoti); Bulić 1994: 61 (Kuće Rakića, Srpska); Stešević 2002: 30 (Gorica); Hadžiablahović 2010: 29 (Dajbabska gora, Tuški put, Ržanički most).

*Ranunculus arvensis* L., v-a Mi-Mes T scap; L6, T6, H4, R8, Nx; at: V (paleotemp).

Literature source: Rohlena 1905: 16 (auf Feldern um Podgorica, Kokoti); Bulić 1994: 63 (Ćemovsko polje, Kuće Rakića); Hadžiablahović 2010: 30, 31 (Dajbabe, Aluminijumski kombinat, Tološi, Kruševac).

*Ranunculus bulbosus* L. subsp. *bulbosus*, v-a Mes-Mac H semiros; L8, T6, H3, R7, N3; at: V (euras); hab: kam-II; liv-II; sik-I; UFO

Literature source: Stešević 2002: 30 (Gorica).

*Ranunculus bulbosus* subsp. *aleae* (Willk.) Roy. & Fouc. [syn. *R. neapolitanus* Ten.], v-a Mes-Mac H semiros; L7, T7, H4, R5, N5; at: III (n.e.med); hab: pas-V; svp-IV; liv-IV; zao-IV; zap-III; tra-III; gro-III; vli-III; pno-II; pst-II; ulk-II; zid-I; UNE

Literature source: Rohlena 1942: 71 (in graminosis ad Podgorica reg. Mediterr.); Hadžiablahović 2010: 31 (Tološi).

*Ranunculus chius* DC., v Mi-Mes T scap; L8, T7, H7, R5, N4; at: III (e.med); hab: pno-I; vli-I; UFO

Literature source: -

*Ranunculus circinatus* Sibth., nat-sbm rad HydT; L7, T6, H12, R5, N4; at: V (euras); hab: kan; rij; UFO

Literature source: -

*Ranunculus ficaria* L. subsp. *calthifolius* (Rchb.) Arcang. [syn. *Ficaria calthifolia* Rchb.], n-v Mi-Mes G tub; L4, T5, H6, R7, N7; at: III (c.e.submed-pan); hab: sik-V; pas-V; tra-V; pot-V; zao-IV; liv-IV; kam-III; svp-II; UNE

Literature source: Bulić 1994: 63 (Kuće Rakića, Srpska); Stešević 2002: 30 (Gorica); Hadžiablahović 2010: 31 (Park Njogoš, Kuće Rakića).

*Ranunculus illyricus* L., v Mes G tub; L0, T0, H0, R0, N0; at: V (s.e.europ-pont); hab: kam-I; UFO

Literature source: -

*Ranunculus marginatus* D'Urv, a Mi-Mes T scap; L7, T5, H8, R7, N5; at: II (stenomed); hab: vli-III; pno-III; UFO

Literature source: Rohlena 1942: 71 (Podgorica); Bulić 1994: 63 (Srpska); Stešević 2002: 30 (Gorica).

*Ranunculus millefoliatus* Vahl., v-a Mes G tub; L8, T7, H4, R7, N3; at: IV (med-mont); hab: liv-V; kam-V; sik-IV; pas-IV; tra-IV; gro-III; pst-I; nop-I; pno-I; svp-I; UNE

Literature source: Rohlena 1942: 68 (Podgorica, Kokoti); Stešević 2002 (Gorica); Hadžiablahović 2010: 31 (Duvanski kombinat, Omerbožovići).

*Ranunculus muricatus* L., v Mi-Mes T semiros; L9, T8, H3, R6, N4; at: III (eurimed); hab: ulk-IV; pot-IV; tra-III; pst-III; vli-II; svp-II; sik-II; pas-II; gro-II; liv-I; zap-II; kro-I; put-I; UNE

Literature source: Rohlena 1905: 16 (um Podgorica verbreitet).

*Ranunculus ophioglossifolius* Vill., v-a Mes T scap; L7, T7, H8, R6, N6; at: III (eurimed); hab: pls-II; pno-I; UFO

Literature source: -

*Ranunculus paludosus* Poiret [syn. *R. flabellatus* Desf.], v Mes H semiros; L11, T9, H2, R7, N2; at: IX (stenomed-turan); hab: kam-I; UFO

Literature source: -

*Ranunculus polyanthemos* L., v Mac-Meg H scap; at: III (n.eurimed); L4, T4, H4, R4, N4; hab: pls-I; UFO

Literature source: Hadžiablahović 20010: 31 (Srpska).

*Ranunculus repens* L., v Mes-Mac H rept; L6, Tx, H7, Rx, N7; at: IX (subcosm); hab: vli-I; UFO

Literature source: -

*Ranunculus sardous* Crantz, v-a Mes-Mac T semiros; L8, T7, H8, Rx, N7; at: III (eurimed); hab: pno-V; vli-IV; tra-III; zap-II; svp-II; pot-II; UNE

Literature source: Rohlena 1905: 16 (um Podgorica); Bulić 1994: 64 (Kuće Rakića, Srpska).

*Ranunculus trichophyllus* Chaix [syn. *R. paucistamineus* Tausch, *R. divaricatus* (Schrank) Wimm., *Batrachium paucistaminaeum* Tausch], rad nat-sbm HydT; L7, Tx, H12, Rx, Nx; at: IX (subcosm); hab: kan IV; rij- I; UFO

Literature source: Rohlena 1905: 16 (bei Podgorica); Černjavski *et al.* 1949: 70 (Titograd); Bulić 1994: 63 (Srpska); Hadžiablahović 2010: 32 (Kuće Rakića).

*Thalictrum aquilegifolium* L., a Meg-Alt H scap; L5, T4, H8, R7, N8; at: VIII (eurosib); hab: ork-II; ziv-I; UFO

Literature source: Rohlena 1905: 13 (um Podgorica).

*Thalictrum flavum* L., a Meg-Alt H scap; L7, Tx, H8, R8, Nx; at: V (euras); hab: ork-I; vli-I; ziv-I; UFO

Literature source: Bulić 1994:64 (Kuće Rakića, Srpska).

*Thalictrum lucidum* L. [syn. *T. angustifolium* Jacq. non L.], a Meg-Alt H scap; L6, T7, H8, R7, N6; at: V (s.e.ev); hab: ork-I; UFO

Literature source: Rohlena 1905: 13 (an nassen Stellen verbreitet, um Podgorica reg. infer. mediterr.)

(-) *Thalictrum minus* L., a Mes-Meg H scap; L6, Tx, H3, R8, N3; at: V (euras); UFO

Literature source: Černjavski *et al.* 1949: 69 (Titograd).

## RESEDACEAE

*Reseda lutea* L., a-aut Mes-Meg H scap; L7, T6, H3, R8, N4; at: V (euro); hab: nop-II; akp-I; pko-I; liv-I; zap-I; UNE

Literature source: Rohlena 1905: 26 (bei Podgorica); Bulić 1994: 71 (Ćemovsko polje, Srpska).

*Reseda phyteuma* L., v-aut Mes T scap; L11, T9, H3, R3, N1; at: III (eurimed); hab: pko-IV; gro-IV; kam-IV; zap-IV; svp-IV; liv-III; akp-III; kor-II; pkg-II; dep-II; ulk-II; put-I; kro-I; UNE

Literature source: Rohlena 1905: 26 (Podgorica); Bulić 1994: 71 (Srpska); Stešević 2002: 30 (Gorica); Hadžiablahović 2010: 39 (Plavi Dvor, Kuće Rakića).

## RHAMNACEAE

*Frangula alnus* Mill. [syn. *Rhamnus frangula* L.], fo dec N-Mi P caesp; L6, T5, H7, R5, N5; at: V (c.euro-kavk); hab: pls-I, ork-I, pot- I; UFO

Literature source: -

*Frangula rupestris* (Scop.) Schur [syn. *Rhamnus rupestris* Scop.], fo dec NP caesp; L7, T6, H3, R7, N2; at: I (ilir); hab: kam-II, pot-II, kor-II; UFO

Literature source: Baldacci 1891b: 66 (ad coenobium Moracae, secus viam e Bioce ad Podgoritzam); Bulić 1994: 95 (Ćemovsko polje, Kuće Rakića).

*Paliurus spina-christi* Mill., fo dec N-Mi P caesp; L7, T8, H3, R7, N3; at: V (s.e.europ-pont); hab: kam-V, sik-V, kor- III, nop-III, akp-II, zap-II, pas-II, ziv-II, liv-I, dep-I; UNE

Literature source: Baldacci 1904: 680 (Kakaricka gora) & 1891a: 470 (lungo la Morača, in via per Podgoritza); Černjavski *et al.* 1949: 72 (Momišići); Bulić 1994: 95 (Kuće Rakića, Srpska); Stešević 2002: 30 (Gorica); Hadžiablahović 2010: 63 (Ćemovsko polje).

*Rhamnus orbiculatus* Bornm. [syn. *Rhamnus sagorski* Bornm.], fo dec N P caesp; L0, T0, H0, R0, N0; at: I (adriat); hab: kam- IV, sik- III, kor-II, akp-I; UFO

Literature source: Rohlena 1905: 35 (auf Hügeln in der Umgebung von Podgorica- Zelenika, Ljubović, Malo Brdo); Stešević 2002: 30 (Gorica); Hadžiablahović 2010: 63 (Dajbabska gora).

*Ziziphus jujuba* Mill. [syn. *Z. vulgaris* Lam.], fo dec N-Mi P caesp; L7, T7, H4, R5, N4; at: IX (ADV, kult, AS); hab: dep-I, pot-I, ulk-I; UFI

Literature source: Rohlena 1912: 25 (Donja Zeta bei Podgorica).

## ROSACEAE

*Agrimonia eupatoria* L., a Mac H scap; L7, T6, H4, R8, N4; at: IX (cosm); hab: pas-IV; zap-III; svp-III; liv-III; sik-II; nop-II; tra-II; kor-II; zao-I; pkg-I; dep-I; UNE

Literature source: Rohlena 1905: 47 (um Podgorica, Kokoti verbreitet); Černjavski *et al.* 1949: 72 (Titograd, Vranići); Stešević 2002: 30 (Gorica).

*Aphanes arvensis* L., N-Mi T scap; L6, T5, H6, R4, N5; at: IX (subcosm), UFO

Literature source: Hadžiablahović 2010: 43 (Dajbabska gora).

*Aruncus dioicus* (Walter) Fernald., a Alt H scap; L4, T5, H6, Rx, N8; at: VIII (circumbor); hab: ork-I; UFO

Literature source: -

*Cotoneaster divaricatum* Rehd. & Wils., fo dec NP caesp; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: dep-I; UFI

Literature source: -

*Cotoneaster horizontalis* Dcne., semp NP caesp, L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: svp-I; UFI.

Literature source: -

*Crataegus monogyna* Jacq., fo dec NP caesp; L6, T7, H4, R6, N3; at: V (paleotemp); hab: kam-V; sik-V; ziv-III; kor-III; pot-I; dep-I; pas-I; UFO

Literature source: Rohlena 1905: 48 (um Podgorica verbreitet, im Gebüsche am Kakaracka gora nächst Podgorica); Černjavski *et al.* 1949:73 (Vranići, Ćemovsko polje); Bulić 1994:78 (Ćemovsko polje, Kuće Rakića); Stešević 2002: 30 (Gorica).

*Cydonia oblonga* Mill. [syn. *C. vulgaris* Pers.], fo dec Mes P scap; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: zap-I; ziv-I; kor-I

Literature source: Rohlena 1905: 48 (in Podgorica cult.)

*Filipendula vulgaris* Moench [syn. *F. hexapetala* Gilib., *Spirea filipendula* L.], a Mac-Meg H semiros; L8, T7, H4, R7, N3; at: V (c.euro-s.sib); hab: liv-III; vli-II; kam-II; sik-I; UFO

Literature source: Rohlena 1902a: 19 (in pratis ad Podgorica (c.10m) & 1942: 162 (Podgorica, Kakaricka gora).

*Fragaria vesca* L., v H rept; L6, Tx, H4, Rx, N5; at: IX (cosm)

Literature source: Černjavski *et al.* 1949: 72 (Vranići).

*Fragaria viridis* Duchesne [syn. *F. collina* Ehrh.], a Mes H rept; L6, T7, H4, R7, N4; at: VIII (eurosib); hab: sik-I; svp-I; UFO

Literature source: Rohlena 1905: 44 (bei Podgorica und Kokoti).

*Geum urbanum* L., a Mac H semiros; L4, T5, H5, R6, N7; at: VIII (circumbor); hab: zap-V; gro-IV; pas-IV; tra-IV; sik-III; liv-III; svp-III; dep-II; akp-I; pst-I; ulk-I; nop-I; UNE  
Literature source: Rohlena 1905: 47 (um Podgorica verbreitet); Bulić 1994: 76 (Kuće Rakića); Stešević 2002: 30 (Gorica).

*Malus sylvestris* Mill., fo dec Mi P scap; L7, T5, H5, R7, N5; at: V (c.euro-kavk); hab: ork-II; ziv-I  
Literature source: Černjavski *et al.* 1949: 72 (Vranići).

*Potentilla micrantha* Ramond ex DC., n-v Mi H ros; L5, T6, H4, R8, N4; at: III (eurimed); hab: sik-I; UFO  
Literature source: -

*Potentilla recta* L., a Mes-Mac H scap; L9, T7, H3, R7, N3; at: V (med-pont); hab: liv-IV; akp-III; kam-III; gro-III; svp-III; kor-III; nop-II; zap-II; pas-II; nop-I; kro-I; pkg-I; UFO  
Literature source: Rohlena 1905: 46 (bei Podgorica); Černjavski *et al.* 1949: 72 (Ćemovsko polje); Bulić 1994: 77 (Ćemovsko polje); Stešević 2002: 30 (Gorica).

*Potentilla reptans* L., a-aut Mes H rept; L6, T6, H6, R7, N5; at: IX (cosm); hab: ulk-IV; svp-IV; zap-III; pkg-III; dep-III; tra-III; liv-III; gaz-III; nop-II; pko-I; pno-I; zar-II; UNE  
Literature source: Rohlena 1905: 46 (um Podgorica) & 1942: 146 (frequens); Bulić 1994:76 (Kuće Rakića, Srpska); Stešević 2002: 30 (Gorica).

*Prunus avium* L., fo dec Mi-Mes P scap; L4, T5, H5, R7, N5; at: V (submed-(z.pont)-j.atl-j.c.ev); hab: ork-I; pot-I  
Literature source: Bulić 1994:79 (Kuće Rakića, Srpska).

*Prunus cerasifera* Ehrh., fo dec Mi P scap; L9, T7, H5, R5, N5; at: IX (ADV, kult, AS); hab: kor-III; ziv-III; sik-II; pot-II; UNE  
Literature source: -

*Prunus cerasus* L. [syn. *Cerasus vulgaris* Mill.], v fo dec Mi P scap; L8, T7, H3, R8, Nx; at: IX (ADV, kult, AS); hab: ork-I  
Literature source: -

*Prunus domestica* L. [syn. *P. communis* Huds.], fo dec Mi-Mes P scap; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS)  
Literature source: Szyszylowicz 1888: 122 (in Podgoriza cultum); Rohlena 1942: 162 (In collibus ad Podgorica inquilina).

*Prunus mahaleb* L., fo dec Mi P caesp; L7, T5, H3, R8, N2; at: V (s.e.europ-pont); hab: sik-II; ziv-II; ork-I, UFO  
Literature source: Rohlena 1942: 163 (Lješanska nahija, Podgorica); Stešević 2002: 31 (Gorica).

*Prunus persica* (L.) Batsch. [syn. *Amygdalus persica* L., *Persica vulgaris* Mill.], v fo dec Mi P caesp; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: zap-I; svp-I; UNE  
Literature source: -

*Prunus spinosa* L., fo dec N-Mi P caesp; L7, T5, Hx, Rx, Nx; at: V (euro-kavk); hab: ork-II; pls-II; pot-I; sik-I; ziv-I; UFO  
Literature source: -

*Prunus webbii* (Spach) Vierh., v Mi-Mes P caesp; L8, T8, H2, R7, N2; at: III (e.med); hab: kor-III; kam-II; ziv-II; akp-I; UFO  
Literature source: Pulević 1973: 81 (Ćemovsko polje, along Cijevne); Pulević & Lakušić 1983 (Cijevna); Bulić 1994: 79 (Ćemovsko polje, Kuće Rakića); Stešević 2002: 31 (Gorica).

*Pyrracantha coccinea* M.J. Roemer, fo semp NP caesp; L5, T8, H3, R5, N3; at: IX (ADV, kult, med-EAS); hab: zap-I; svp-I; UFI  
Literature source: -

*Pyrus amygdaliformis* Vill., fo dec MiP scap; L7, T8, H4, R3, N3; at: II (stenomed); hab: sik-II; kor-II; kam-I; ziv-I; UFO  
Literature source: Rohlena 1905: 46 (auf Hügeln bei Podgorice); Černjavski *et al.* 1949: 73 (Titograd); Bulić 1994: 77 (Kuće Rakića); Stešević 2002: 31 (Gorica).



*Rosa agrestis* Savi, fo dec NP caesp; L8, T7, H3, R3, N2; at: III (eurimed); hab: sik-III; kam-II; liv-II; nop-I; UFO

Literature source: -

*Rosa andegavensis* Bastard, fo dec NP caesp; L0, T0, H0, R0, N0; at: VI (submed-subatl); hab: kam-III; sik-II; kor-II; ziv-II; nop-I; liv-I; UFO

Literature source: -

*Rosa canina* L. [syn. *R. canina* L. subsp. *dumalis* (Bechst.) Arcang. pro parte], fo dec NP caesp; L8, T5, H4, Rx, Nx; at: V (paleotemp); hab: ziv-IV; kam-IV; kor-III; sik-III; pas-II; nop-II; UFO

Literature source: Rohlena 1942: 152 (Podgorica).

*Rosa corymbifera* Borkh. [syn. *R. dumetorum* Thuill.], fo dec Mi P caesp; L0, T0, H0, R0, N0; at: V (paleotemp); hab: kam-II; ziv-II; kor; akp-I; sik-I; UFO

Literature source: Rohlena 1942: 152 (Donja Zeta prope Podgorica).

*Rosa gallica* L., fo dec NP caesp; L7, T7, H4, R7, N4; at: V (paleotemp); hab: sik-I, UFO

Literature source: Rohlena 1942: 150 (Farmaki, Podgorica).

*Rosa obtusifolia* Desv. [syn. *R. tomentella* Lém.], fo dec NP caesp; L0, T0, H0, R0, N0; at: V (z.c.submed-atl-herc); hab: ziv-I; sik-I; kam-I; UFO

Literature source: -

*Rosa sempervirens* L., fo semp NP caesp; L6, T8, H3, R4, N6; at: II (stenomed); hab: sik-III; ziv-II; kam-II; kor-II; svp-I; liv-I; UFO

Literature source: Rohlena 1942: 150 (Podgorica); Černjavski *et al.* 1949: 72 (Vranići).

*Rubus caesius* L., fo dec NP rept; L7, T5, H7, R7, N9; at: V (euras); hab: pls-I; ork-II; UFO

Literature source: Rohlena 1933: 13 (in campo ad Podgorica); Bulić 1994: 74 (Srpska).

*Rubus canescens* DC., fo dec NP rept; L7, T7, H4, R0, N5; at: III (n.med); hab: kam-I; sik-I; UFO

Literature source: -

*Rubus ulmifolius* Schott, fo dec NP rept; L5, T8, H4, R5, N8; at: III (eurimed); hab: kam-V; sik-V; ziv-IV; zap-IV; svp-III; pas-III; nop-IV; kor-III; gro-III; liv-III; akp-II; UNE

Literature source: Černjavski *et al.* 1949: 72 (Vranići).

*Sanquisorba minor* Scop. subsp. *minor*, a Mes-Mac H semiros; L7, T6, H3, R8, N2; at: IX (cosm), hab: akp-

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Literature source: Černjavski *et al.* 1949: 72 (Ćemovsko polje); Bulić 1994: 75 (Ćemovsko polje, Kuće Rakića, Srpska).

*Sanquisorba minor* Scop. subsp. *muricata* Briq. [syn. *S. muricata* Greml. *Poterium polygamum* Waldst. & Kit.], a Mes-Mac H semiros; L0, T0, H0, R0, N0; at: III (submed); hab: liv-V; gro-V; zap-V; svp-V; tra-IV; kam-IV; akp-IV; gaz-III; nop-III; kor-II; pkg-II; put-I; UNE

Literature source: Rohlena 1905: 48 (bei Podgorica); Hadžiablahović 2009: 42 (Dajbabe, Tološi- pine forest, Kuće Rakića),

*Spirea × vanhouttei* (Briot) Zabel., fo dec NP caesp; L0, T0, H0, R0, N0; at: IX (ADV, kult); hab: pot-I; UFI

Literature source: -

## RUBIACEAE

*Asperula aristata* L. fil. subsp. *scabra* (J.Presl & C.Presl.) Nyman [syn. *Asperula aristata* L. subsp. *longiflora* (Waldst. & Kit) Hayek], a Mes-Mac Ch suffrut; L0, T0, H0, R0, N0; at: IV (med-mont); hab: kam-V; kor-IV; pot-III; akp-III; liv-III; gro-II; svp-I; put-I; dep-I; UFO

Literature source: Rohlena 1942: 326 (Podgorica); Stešević 2002: 31 (Gorica); Hadžiablahović 2010: 91 (Ržanički most).

(-) *Asperula arvensis* L., v-a Mi-Mes T scap; L7, T7, H4, R9, N4; at: III (eurimed).

Literature source: Rohlena 1902a: 24 (in arvis, incultis et ad vias regione inferioris, ad Podgorica); Bulić 1994: 110 (Kuče Rakića).

*Asperula scutellaris* Vis., a Mes-Mac Ch suffrut; L0, T0, H0, R0, N0; at: I (ilir-sk.pind); hab: pot-V; kor-III; kam-II; zid-I; nop-I; UFO.

Literature source: Rohlena 1902: 24 (in scopulis riparum fluvii Morača ad Podgorica) & 1942:326; Bulić 1994: 110 (Čemovsko polje); Stešević 2002: 31 (Gorica); Hadžiablahović 2010: 91 (Kuće Rakića, Ržanički most).

*Cruciata glabra* (L.) Ehrend. [syn. *Galium vernum* Scop.], v-a Mac H scap; L5, T6, H5, R6, N6; at: V (euras); hab: vli-II; liv-I; sik-I; pno-I; svp-I; UFO

Literature source: -

*Cruciata laevipes* Opiz [syn. *Galium cruciata* (L.) Scop.], v-a Mes-Meg H scap; L7, T6, H5, R5, N5; at: V (euras); hab: liv-III; zao-III; pot-III; svp-III; gro-II; kor-II; pas-II; dep-I; nop-I; UFO

Literature source: Rohlena 1942: 331 (frequens); Stešević 2002: 31 (Gorica).

*Galium aparine* L., v-aut Mac-Alt ST herb; L6, Tx, H4, R5, N5; at: IX (cosm); hab: zap-V; gro-IV; pot-IV; ziv-IV; dep-III; liv-III; nop-III; sik-III; svp-III; ulk-II; pst-I; put-I; tra-I; zid-I; zar-I; UNE

Literature source: Rohlena 1905: 56 (Podgorica); Stešević 2002 (Gorica); Hadžiablahović 2010: 91 (Duvanski kombinat, KBC, Studentski dom).

*Galium divaricatum* Pourr. ex Lam., v-a Mi T scap; L11, T9, H2, Rx, N1; at: II (stenomed); hab: akp-III; kam-II; kor-I; UFO

Literature source: Hadžiablahović 2010: 92 (Agrokombinat).

*Galium elongatum* C. Presl., a Mes-Meg H scap; L7, T5, H8, R5, N3; at: III (eurimed); hab: pls-II; vli-I; pno-I; UFO

Literature source: -

*Galium lucidum* All., a Mac H scap; L8, T8, H3, Rx, N2; at: III (eurimed); hab: kam-V; kor-V; pot-V; akp-III; nop-III; svp-II; zid-I; UFO

Literature source: Stešević 2002: 31 (Gorica).

*Galium mollugo* L., a Mac-Alt H scap; L6, T5, H5, R5, N4; at: III (eurimed); hab: zap-IV; liv-III; svp-III; kor-III; ziv-II; gro-II; slj-II; zao-II; nop-II; put-I; dep-I; pno-I; pst-I; tra-I; zid-I; UNE

Literature source: Bulić 1994:111 (Kuće Rakića); Stešević 2002: 31 (Gorica); Hadžiablahović 2010: 92 (left river bank of Morača, Kuće Rakića, Tuški put).

*Galium murale* (L.) All., v-a Mi-Mes T scap; L11, T9, H2, Rx, N1; at: II (stenomed); hab: akp-II; pas-II; kam-II; pot-I; kro-I; UFO

Literature source: Rohlena 1942: 331 (Podgorica).

*Galium palustre* L., v-a Mes-Mac H scap; L7, T5, H8, R5, N3; at: V (euro-w.as); hab: pls-II; UFO

Literature source: -

*Galium parisiense* L. [syn. *G. anglicum* Huds.], v-a Mi-Mes T scap; L11, T8, H2, R3, N1; at: III (eurimed); hab: akp-III; kor-II; pot-I; kam-I; UFO

Literature source: Rohlena 1912: 53 (Podgorica); Hadžiablahović 2010: 92 (Dajbabe, Kuće Rakića, Tološka šuma).

(-) *Galium pumilum* Murray., a Mes H scap; L7, T4, H4, R2, N2; at: V (euro-w.as); UFO

Literature source: Černjavski *et al.* 1949: 78 (Čemovsko polje).

*Galium verum* L., a Mes-Mac H scap; L7, T6, H4, R7, N3; at: V (euras); hab: liv-III; zao-II; kam-I; gro-I; svp-I; UFO

Literature source: Stešević 2002: 31 (Gorica).

*Rubia peregrina* L., semp S lig; L5, T9, H4, R5, N3; at: II (stenomed); hab: sik-I; UFO

Literature source: Rohlena 1902a: 23 (in sepibus et vineis ad Podgorica).

*Rubia tinctorum* L., v-a Mes-Meg H scap; L7, T7, H5, R5, N5; at: IX (ADV, med-AS); UFO

Literature source: Rohlena 1942: 332 (Podgorica).

*Sherardia arvensis* L., v-a Mi-Mes T scap; L8, T6, H5, R8, N5; at: IX (cosm); hab: liv-V; akp-V; kam-V; pas-V; gro-V; svp-V; zao-IV; kor-IV; ulk-IV; gaz-III; zap-III; pst-III; dep-III; pot-III; nop-II; put-I; pkg-II; zar-I; UNE

Literature source: Černjavski *et al.* 1949: 77 (Čemovsko polje); Bulić 1994: 110 (Čemovsko polje, Kuće Rakića); Stešević 2002: 31 (Gorica); Hadžiablahović 2010: 91 (Agrokombinat, Tološka šuma).

*Valantia muralis* L., v N-Mi T scap; L11, T9, H2, R3, N1; at: II (stenomed); hab: akp-V; kor-V; pot-V; pko-IV; UFO

Literature source: Rohlena 1905: 56 (an Mauern bei Podgorica); Stešević 2002: 31 (Gorica); Hadžiablahović 2010: 93 (Dajbabska gora, Dajbabe, Ržanički most, Tološka šuma).

### RUTACEAE

*Dictamnus albus* L., a Mac-Meg Ch suffrut; L5, T6, H3, R7, N2; at: V (euro-s.sib); hab: kam-I, sik-I; UFO

Literature source: Rohlena 1905: 35 (um Gebüsch nächst Dajbabska gora bei Podgorica); Bulić 1994: 94 (Srpska); Hadžiablahović 2010: 61 (Kuće Rakića, Sastavci).

*Ruta graveolens* L. [syn. *R. divaricata* Ten.], a Mac Ch suffrut; L9, T7, H3, R7, N2; at: V (subpont-med); hab: kam-II, sik-I; UFO

Literature source: Rohlena 1904: 35 (Kokoti, Lješanska nahija).

### SALICACEAE

*Populus alba* L., v fo dec Mi P scap; L5, T8, H5, R8, N6; at: V (paleotemp); hab: ork-I; pls-I; sik-I; UFO

Literature source: -

*Populus italica* (Du Roi) Moench [syn. *P. nigra* L. cv "Italica"], v fo dec Mes P scap; L6, T5, H5, Rx, Nx; at: IX (ADV, kult, AS); hab: ork-II, kro-I; zap-I; pot-I; UNE

Literature source: Rohlena 1942: 19 (circa Podgorica); Bulić 1994:45 (Srpska).

*Populus nigra* L., v fo dec Mes P scap; L5, T7, H8, R7, N7; at: V (paleotemp); hab: ork-III; zap-I; pot-I; dep-I; spv-I, UNE

Literature source: Hadžiablahović 2010: 17 (Kuće Rakića).

*Populus tremula* L., v fo dec Mes P scap; L6, T5, H5, Rx, Nx; at: VIII (eurosib); hab: ork-II; pls-I, pot-I; UFO

Literature source: Rohlena 1905: 85 (bei Podgorica ziemlich häufig).

*Salix alba* L., n-v fo dec Mes P scap; L5, T6, H7, R8, N7; at: V (paleotemp); hab: ork-V; pls-V; zap-II; put-I; nop-I; UNE

Literature source: Rohlena 1905: 85 (um Podgorica); Bulić 1994:45 (Srpska, Kuće Rakića).

*Salix cinerea* L., v fo dec Mes P scap; L7, T4, H9, R5, N4; at: V (paleotemp); hab: pls-III; ork-I; UFO

Literature source: -

*Salix elaeagnos* Scop. [syn. *S. incana* Schrank], v fo dec Mi P caesp; L7, T5, H7, R8, N4; at: VII (orof S.EURO); hab: ork-III; pko-I; akp-I; nop-I; zid-I, UFO

Literature source: Rohlena 1905: 85 (Podgorica) & 1942: 20 (circa Podgorica); Hadžiablahović 2010: 16 (Kuće Rakića).

*Salix fragilis* L., n-v fo dec Mes P scap; L5, T5, H8, R5, T6; at: VIII (eurosib); hab: ork-II; pls-I, pot-I; UFO

Literature source: Bulić 1994:45 (Kuće Rakića, Srpska).

*Salix purpurea* L., v fo dec Mi P scap; L8, T5, Hx, R8, Tx; at: V (euras temp); hab: pls-III; ork-I; UFO

Literature source: -

### SANTALACEAE

*Osyris alba* L., semp NP caesp; L7, T8, H3, R4, N2; at: III (eurimed); hab: kam-II; kor-I; sik-I; UFO

Literature source: Hadžiablahović 2010: 20 (Kuće Rakića).

*Thesium divaricatum* Jan ex Mert. & Koch, v-a Mes-Mac H scap; L11, T8, H2, R4, N1; at: III (eurimed); hab: akp-III, liv-II; kam-II; kor-II; UFO

Literature source: Rohlena 1905: 82 (Velje brdo bei Podgorica); Bulić 1994: 50 (Ćemovsko polje, Kuće Rakića); Hadžiablahović 2010: 20 (Dajbabska gora).

### SAPINDACEAE

*Koelreuteria paniculata* Laxm., fo dec Mes P scap; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: dep-I, pot-I, ulk-I; UFI

Literature source: -

**SAXIFRAGACEAE**

*Ribes vulgare* Lam. [syn. *R. rubrum* L., *R. sylvestre* (Lam.) Mert. & W.D.J. Koch], a fo dec NP caesp; L4, Tx, H8, R6, N6; at: V (c.euro); hab: ork-I; UFO

Literature source: Beck & Szyszylowicz 1888: 86 (in Podgorica cultum).

*Saxifraga tridactylites* L., n-v Mi T semiros; L8, T6, H2, R7, N1; at: III (eurimed); hab: akp-V; kam-V; pot-V; kor-III; kro-III; svp-II; zid-II; nop-II; pkg-II; put-II; liv-I; UFO

Literature source: Rohlena 1905: 52 (um Podgorica und Kokoti verbreitet); Černjavski *et al.* 1949: 72 (Titograd); Bulić 1994: 73 (Čemovsko polje, Srpska); Stešević 2002: 31 (Gorica); Hadžiablahović 2010: 40 (Agrokombinat, Čemovsko polje).

**SCROPHULARIACEAE**

*Antirrhinum barrelieri* Boreau, a Mes H scap; L0, T0, H0, R0, N0; at: IX (ADV, kult, med- E); hab: zap-I; UFI

Literature source: Stešević & Jovanović 2005: 73 (Podgorica).

*Antirrhinum majus* L., a-aut Mes-Mac Ch suffrut caesp; L11, T8, H2, Rx, N1; at: IX (ADV, kult, med- E); hab: zap-II; kro-II; dep-I; pot-I; pko-I; zid-I; pkg-I; UFI

Literature source: -

*Chaenorhinum minus* (L.) Lange, v-aut Mi-Mes T scap; L8, T6, H4, R8, N4; at: III (eurimed); hab: pko-V; slj-V; kor-III; akp-II; dep-I; kro-I; nop-II; pkg-II; put-I; UNE

Literature source: -

(-) *Cymbalaria muralis* P. Gaertn., B.Mey. & Scherb. subsp. *visianii* D.A. Webb [syn. *Linaria cymbalaria* (L.) Mill.], a Mi-Mes H scap; at: IX (subcosm)

Literature source: Rohlena 1905: 74 (an Mauern und feuchten Felsen bei Podgorica).

*Cymbalaria microcalyx* (Boiss.) Wettst. subsp. *ebellii* (Cufod.) Cufod., a Mi H scap; L0, T0, H0, R0, N0; at: I (ilir); hab: pot-I; kor-I; UFO

Literature source: Hadžiablahović 2010: 88 (Kuće Rakića).

(-) *Euphrasia pectinata* Ten. [syn. *Euphrasia tatarica* Fisch.], a-aut Mi T scap; L0, T0, H0, R0, N0; at: III (eurimed); UFO

Literature source: Rohlena 1903: 48 (bei Podgorica c. 30m).

*Gratiola officinalis* L., a Mes-Mac H scap; L7, T7, H9, R5, N5; at: VIII (cirkpol); hab: vli-IV; UFO

Literature source: -

*Kickxia commutata* (Bernh. ex Rchb.) Fritsch, v-a Mes-Mac H rept; L8, T7, H4, R5, N4; at: II (stenomed); hab: zao-III; liv-III; pas-II; svp-II; gaz-II; akp-I; pko-I; sik-I; tra-I; UNE

Literature source: Hadžiablahović 2010: 88 (Tološka šuma).

*Kickxia elatine* (L.) Dumort. subsp. *crinita* (Mabille) W. Greuter [syn. *Linaria elatine* (L.) Mill. subsp. *sieberi* (Reichenb.) Hayek, *Linaria sieberi* Reichenb., *L. crinita* Mabille], v-a Mes T scap; L8, T7, H4, R5, N4; at: III (eurimed); hab: zao-I; liv-I; zid-I; svp-I; gaz-I; pas-I; UFO

Literature source: -

*Kickxia spuria* (L.) Dumort., a-aut Mes-Meg T scap; L8, T7, H4, R5, N4; at: V (euras); hab: zao-I; liv-I; pas-I; UFO

Literature source: -

*Linaria genistifolia* (L.) Mill., a-aut Mes-Meg H scap; L8, T7, H4, R4, N2; at: V (se.euro-s.sib); hab: tra-I

Literature source: Stešević 2006: 69 (Republika Crnogorskih Serdara, Podgorica).

*Linaria genistifolia* (L.) Mill. subsp. *dalmatica* (L.) Maire & Petitm. [syn. *L. dalmatica* (L.) Mill.], a Mes-Meg H scap; L11 T9, H2, R7, N2; at: I (apen-hel-ilir-balk); hab: kam-II; kor-I; sik-I; nop-I; UFO

Literature source: Rohlena 1905: 74 (Podgorica).

*Linaria pelisseriana* (L.) Mill., v-a Mes T scap; L11, T9, H3, R7, N2; at: VI (med-atl); hab: kam-III; kor-II; gro-II; pas-II; tra-II; vli-II; zao-II; nop-I; svp-I; UNE

Literature source: Rohlena 1902b: 7 (in cultis planitie Podgoricensis) & 1942: 264 (circa Podgorica); Stešević 2002 (Gorica); Hadžiablahović 2010: 88 (Dajbabska gora, Kuće Rakića, Ržanički most, Tološka šuma).

*Linaria vulgaris* Mill., a-aut Mes-Meg H scap; L8, T5, H3, R7, N3; at: V (euras); hab: zao-V; liv-IV; zap-IV; gro-III; nop-III; dep-III; pas-III; pko-III; svp-III; tra-II; akp-II; vli-II; kor-II; sik-II; put-I; zar-I; ulk-I; UNE

Literature source: Bulić 1994: 128 (Kuče Rakića); Stešević 2002: 31 (Gorica).

*Melampyrum barbatum* Waldst. & Kit. ex Willd. subsp. *carstiense* Ronniger, a Mes T scap; L0, T0, H0, R0, N0; at: V (se. euro); hab: liv-I; UFO

Literature source: -

*Misopates orontium* (L.) Raf., a-aut Mes-Mac T scap; L7, T7, H5, R5, N5; at: V (paleotemp); hab: svp-I; par-I

Literature source :-

*Parentucellia latifolia* (L.) Caruel, a Mes T scap; L8, T8, H3, R3, N3; at: III (eurimed); hab: akp-V; liv-V; gro-V; kam-V; pot-V; tra-IV; zao-IV; kor-IV; svp-III; pas-III; nop-II; zap-II; pkg-II; put-I; UNE

Literature source: Černjavski *et al.* 1949:76 (Čemovsko polje); Stešević 2002: 31 (Gorica); Hadžiablahović 2010: 90 (Dajbabska gora, Tološka šuma).

*Rhinanthus mediterraneus* (Sterneck) Adamović, a T Mes T scap; L7, T5, H3, R7, N2; at: III (eurimed), hab: ats-II, atp-V; hab: liv-II; kam-II; pot-I; UFO

Literature source: Hadžiablahović 2010: 90 (Tuške pjaca).

*Scrophularia canina* L., a Mes-Meg H scap; L8, T8, H3, R8, N3; at: III (eurimed); hab: akp-V; liv-V; nop-IV; gro-IV; pko-IV; kam-IV; zap-III; dep-III; sik-III; zao-II; slj-II; pno-I; tra-I; UNE

Literature source: Bulić 1994: 128 (Kuče Rakića, Čemovsko polje); Stešević 2002: 31 (Gorica); Hadžiablahović 2010: 87 (Kuče Rakića, Podgorica).

*Verbascum blattaria* L., a Mac-Meg H semiros bienn; L8, T6, H3, R7, N6; at: IX (cosm); hab: pas-IV; liv-IV; svp-III; zap-III; zao-III; kam-III; sik-II; gro-II; vli-II; nop-I; pst-I; dep-I; tra-I; pno-I; UNE

Literature source: Rohlena 1924: 44 (bei Podgorica); Hadžiablahović 2010: 87 (Podgorica).

*Verbascum chaixii* Vill. subsp. *austriacum* (Schott. ex Roemer & Schult.) Hayek [syn. *V. austriacum* Schott ex Roemer & Schultes], a Meg-Alt H scap; L7, T6, H5, R7, N7; at: V (euro-w.as); hab: liv-I; pas-I

Literature source: -

*Verbascum niveum* Ten. subsp. *visianum* (Rchb.) Murb. [syn. *Verbascum macrurum* sensu Hayek], a Mac H semiros bienn; L0, T0, H0, R0, N0; at: I (dinar-alb); hab: kam-I; sik-I; UFO

Literature source: Rohlena 1942: 258 (Podgorica).

*Verbascum phlomoides* L., a Mes-Meg H semiros bienn; L7, T8, H3, R7, N7; at: III (eurimed); hab: svp-II; zap-II; nop-II; pko-II; dep-II; slj-II; sik-I; liv-I; UNE

Literature source: -

*Verbascum phoeniceum* L., a Meg-Alt H semiros bienn; L7, T7, H3, R7, N2; at: V (se.euro-s.sib); hab: liv-V; pas-V; akp-III; gro-III; kam-III; sik-II; tra-II; svp-II; zao-I; pst-I; kor-I; UNE

Literature source: Rohlena 1905: 73 (bei Podgorica häufig); Stešević 2002: 31 (Gorica).

*Verbascum pulverulentum* Vill., a Meg-Alt H semiros bienn; L9, T6, H7, R3, N9; at: V (c.euro); hab: zap-V; liv-V; zao-V; kam-IV; dep-III; kor-III; akp-III; tra-III; gro-III; nop-III; pot-II; pko-II; slj-II; pkg-II; kro-I; UNE

Literature source: Rohlena 1924: 44 (um Podgorica nich selten); Stešević 2002: 31 (Gorica); Hadžiablahović 2010: 87 (Kuče Rakića).

*Verbascum sinuatum* L., v-a Mec-Alt H semiros; L9, T8, H3, R7, N7; at: III (eurimed); hab: nop-I; zap-I; svp-I; tra-I; UNE

Literature source: -

- Veronica acinifolia* L., v Mi-Mes T scap; L7, T8, H7, R4, N3; at: V (c.se.euro); hab: pls-I; UFO  
Literature source: Rohlena 1905: 74 (um Podgorica verbreitet).
- Veronica agrestis* L., v-aut Mi-Mes T scap; L5, T4, H6, R7, N7; at: V (europ); hab: zao-II  
Literature source: -
- Veronica anagallis-aquatica* L., a Mes-Meg H scap; L7, T6, H9, R7, N6; at: IX (cosm); hab: pls-IV; pno-I; kan-III; UFO  
Literature source: -
- Veronica anagalloides* Guss., a-aut Mes-Mac T scap; L7, Tx, H9, R7, N7; at: III (eurimed); hab: pno-II; pls-II; UFO  
Literature source: -
- Veronica arvensis* L., v-a Mi-Mes T scap; L5, T5, H5, R6, Nx; at: IX (cosm); hab: liv-V; akp-V; zao-V; gro-V; pas-V; tra-V; svp-V; pot-V; pst-III; gaz-III; put-III; ulk-III; zid-II; kro-I; nop-I; zar-I; UNE  
Literature source: Rohlena 1905: 74 (an grasigen Stellen und Kokoti verbreitet); Černjavski *et al.* 1949: 76 (Čemovsko polje); Bulić 1994: 130 (Kuće Rakića, Čemovsko polje); Stešević 2002: 31 (Gorica); Hadžiablahović 2010: 89 (Dajbabska gora, Tološka šuma).
- Veronica austriaca* L. subsp. *austriaca* [syn. *V. austriaca* L. subsp. *jacquinii* (Baumg.) J. Maly], a Mes-Mac H scap; L7, T7, H3, R7, N2; at: V (se. euro); hab: liv-II; sik-I; pas-I; kam-I; UFO  
Literature source: Rohlena 1942: 271 (Podgorica); Stešević 2002 (Gorica, as *Veronica austriaca* L. subsp. *dentata* (F.W. Schmidt) Watzl), Hadžiablahović 2010: 89 (Dajbabska gora).
- Veronica beccabunga* L., a Mes-Mac H rept; L7, Tx, H10, R7, N6; at: V (euras); hab: pno-I; kan-I; UFO  
Literature source: -
- Veronica chamaedrys* L., v Mi-Mes H scap; L6, Tx, H4, Rx, Nx; at: VIII (eurosib); hab: sik-I; liv-I; tra-I; UFO  
Literature source: -
- Veronica cymbalaria* Bodard, n-v Mi-Mes T rept; L7, T7, H4, R3, N2; at: III (eurimed); hab: pot-III; ulk-III; kam-II; put-II; pst-II; svp-II; gaz-I; kro-I; liv-I; nop-I; zap-I; pkg-I; zid-I; pko-I; akp-I; UFI  
Literature source: Rohlena 1942: 270 (Podgorica).
- Veronica hederifolia* L., v Mi-Mes T scap; L6, T6, H5, R3, N7; at: V (euras); hab: zao-II; tra-II; zar-I; zid-I, svp-I  
Literature source: Hadžiablahović 2010: 89 (Sastavci).
- Veronica officinalis* L., v Mi-Mes H rept; L5, Tx, H4, R2, N3; at: V (euras); hab: sik-II; liv-I; UFO  
Literature source: -
- Veronica persica* Poir [syn. *V. tournefortii* C. C. Gmelin], n-aut Mi-Mes T rept; L8, T7, H5, R5, N6; at: IX (ADV, kosm, AS); hab: liv-V; tra-V; gro-V; svp-V; zao-V; zap-V; pas-V; akp-IV; gaz-V; ulk-IV; pkg-III; pot-III; zar-III; dep-III; put-II; nop-II; zid-I; UNE  
Literature source: Stešević 2002: 31 (Gorica); Hadžiablahović 2010: 90 (Duvanski kombinat, Kuće Rakića).
- Veronica polita* Fr., v-aut Mi-Mes T rept; L5, T6, H4, R8, N7; at: IX (ADV, AS); hab: zao-II; svp-II; tra-II; zap-I; pas-I; liv-I; zid-I; UNE  
Literature source: Stešević 2002 (Gorica).
- Veronica serpyllifolia* L., a Mi H rept; Lx, Tx, H3, R5, Nx; at: IX (cosm); hab: zao-II; vli-II; liv-II; sik-I; UFO  
Literature source: -

### SIMAROUBACEAE

- Ailanthus altissima* (Mill.) Swingle, fo dec Mes P scap; L6, T7, H5, R5, N5; at: IX (ADV, AS); hab: zap-V, gro-V, ork-IV, sik-IV, kam-IV, dep-III, nop-III, pas-III, pot-III, ziv-III, liv-II; zao-II, pkg-II, pno-II, put-II, pko-II, akp-I, pst-I, tra-I, zid-I; UNE  
Literature source: Bulić 1994:94 (Kuće Rakića, Srpska); Stešević 2002: 32 (Gorica), Hadžiablahović 2010: 61 (Ljubović).

### SOLANACEAE

- Capsicum annuum* L., a Mes-Mac T scap; L7, T7, H5, R5, N7; at: IX (ADV, kult, AMC); hab: nop-I  
Literature source: Szyszyłowicz 1888: 133 (in Podgorica cultum); Bulić 1994: 126 (Kuće Rakića, Čemovsko polje).

*Datura stramonium* L., a-aut Meg-Alt H scap; L9, T8, H3, R5, N7; at: IX (ADV, AMN); hab: zap-V; dep-V; pko-V; slj-V; pko-IV; zao-IV; svp-II; liv-II; akp-I; nop-I; tra-I; UNE  
Literature source: Bulić 1994: 126 (Ćemovsko polje, Kuće Rakića); Hadžiablahović 2010: 87 (Tuški put), Stešević & Drescher 2010: 12 (*D. stramonium* var. *tatula*, Podgorica city area).

(-) *Hyoscyamus albus* L., a Mac T scap; L8, T8, H2, Rx, N9; at: III (eurimed); hab: dep-I  
Literature source: Rohlena 1905: 72 (bei Podgorica).

*Hyoscyamus niger* L., a Mes-Meg T scap/H scap bienn; L8, T8, H2, Rx, N9; at: V (euras); hab: svp-I; UFI  
Literature source: Bulić 1994: 126 (Kuče Rakića).

*Lycopersicon esculentum* Mill. [syn. *Solanum lycopersicum* L. var. *esculentum* (Mill.) Hay.], a Mes-Meg T scap; L7, T7, H5, R5, N7; at: IX (ADV, kult, AMS, AMC); hab: slj-II; zao-I; pno-I; dep-I; UFI  
Literature source: -

*Petunia × hybrida* Hort., a Mes-Mac T scap; L0, T0, H0, R0, N0; at: IX (ADV, kult, AMS); hab: zap-I; dep-I; UFI  
Literature source: Stešević & Jovanović 2005: 73 (Podgorica).

*Physalis alkekengi* L., a-aut Mes-Meg G rhiz scap; L6, T7, H7, R5, N6; at: V (euras); hab: sik-I; ziv-I; UFO  
Literature source: -

*Solanum dulcamara* L., a S lig; L7, T5, H8, Rx, N8; at: V (paleotemp); hab: ork-II; vli-II; kor-II; sik-I; zap-I; ziv-I; UFO  
Literature source: Bulić 1994: 126 (Kuče Rakića).

*Solanum eleagnifolium* Cav., a-aut Mes-Meg Ch suffr; L9, T9, H2, Rx, N1; at: IX (ADV, AMS); hab: zap-I; tra-I; UFI  
Literature source: Hadžiablahović *et al.* 2003: 145 (Podgorica).

*Solanum luteum* Mill., a-aut Mac-Meg T scap; L7, T6, H3, R5, N7; at: III (eurimed); hab: svp-I  
Literature source: -

*Solanum nigrum* L., v-aut Mes-Meg T scap; L7, T6, H3, R5, N7; at: IX (cosm); hab: zao-V; dep-V; gro-IV; pas-IV; pot-IV; liv-IV; pko-IV; slj-IV; svp-III; pno-III; nop-II; pst-II; zar-I; kro-I; pkg-I; UNE. Literature source: Rohlena 1905: 72 (bei Podgorica); Bulić 1994: 126 (Kuče Rakića); Hadžiablahović 2010: 86 (Čepurci).

*Solanum tuberosum* L., a Meg T scap; L7, T7, H5, R5, Nx; at: IX (ADV, kult, AMN); hab: dep-I; svp-I  
Literature source: -

### TAMARICACEAE

*Tamarix dalmatica* Baum, fo dec N-Mi P caesp; L0, T0, H0, R0, N0; at: II (stenomed); stip: ork-II; svp-I, zap-I; UFO

Literature source: Hadžiablahović 2009: 67 (Kuče Rakića).

*Tamarix parviflora* DC., fo dec N-Mi P caesp; L0, T0, H0, R0, N0; at: IX (ADV, hort); hab: ork-II; svp-I, zap-I; UFO

Literature source: -

### THELIGONIACEAE

*Theligonium cynocrambe* L. [syn. *Cynocrambe prostrata* Gaertn.], v Mi-Mes T succ; L11, T9, H2, R3, N4; at: II (stenomed); hab: zid-I, kam-I

Literature source: -

### THYMELAEACEAE

*Thymelaea passerina* (L.) Coss & Germ. [syn. *Passerina arvenensis* Lam.], a Mes-Mac T scap; L8, T7, H3, R7, N2; at: III (eurimed); hab: akp-III, liv-II, kor-II, kam-I; UFO

Literature source: Rohlena 1902b: 13 (in collibus apricis ad oppidum Podgorica versus Gorica); Hadžiablahović 2010: 63 (Ržanički most, Omerbožovići).



**TILIACEAE**

*Tilia tomentosa* Moench [syn. *T. argentea* DC.], fo dec Mes P scap; L0, T0, H0, R0, N0; at: V (s.e.europ-w.as); hab: ork-II, zap-I, kro-I, nop-I, svp-I; UNE

Literature source: Rohlena 1905: 33 (Kokoti) & 1942: 110 (Kokoti); Stešević 2002: 32 (Gorica).

*Tilia platyphyllos* Scop., fo dec Mes P scap; L3, T5, H5, Rx, N7; at: IX (ADV, kult, E); hab: zap-I, ork-I; UFI

Literature source: -

**ULMACEAE**

*Celtis australis* L., v fo dec Mes P scap; L7, T8, H3, R7, N4; at: III (med); hab: zap-II; put-I; ulk-I; gro-I; kro-I; dep-I; zid-I; ziv-I; UNE

Literature source: Rohlena 1942:22 (Podgorica); Černjavski *et al.* 1949:68 (Titograd); Bulić 1994:49 (Kuće Rakića); Stešević 2002: 32 (Gorica), Hadžiablahović 2010: 18 (Ljubović).

*Ulmus minor* Mill. subsp. *minor* [syn. *U. caprinifolia* G. Suckow, *U. foliacea* sensu Hyek, *U. glabra* Mill., non Hudson], n fo dec Mi-Mes P scap; L5, T7, Hx, R8, Nx; at: V (euro-kavk); hab: ork-IV; kam-I; pls-I; sik-I; ziv-I; UFO

Literature source: Rohlena 1905: 85 (Podgorica) & 1933: 19 (circa Podgorica); Černjavski *et al.* 1949: 68 (Titograd).

*Ulmus minor* subsp. *canescens* (Melville) Browicz & Ziel. [syn. *U. canescens* Melville], n fo dec Mi-Mes P scap; L6, T8, H3, R4, N2; at: III (med), hab: ork-III; kam-I; sik-I; UFO

Literature source: Hadžiablahović 2010: 18 (Dajbabska gora).

*Ulmus* × *holandica* Mill. [syn. *U. glabra* × *U. minor*], n fo dec Mi-Mes P scap; L0, T0, H0, R0, N0; at: V (europ), hab: ork-I.

Literature source: Hadžiablahović 2010: 18 (Dajbabe-Srpska).

**URTICACEAE**

*Parietaria judaica* L. [syn. *P. vulgaris* Hill, *P. officinalis* auct., non L., *P. diffusa* Mert. & W.D.J.Koch], v-aut Mes-Mac H scap; L7, T8, H3, Rx, N6; at: III (eurimed.makar); hab: zap-V; pot-V; zid-V; kam-II, kro-II, tra-II; zar-I; UNE

Literature source: Rohlena 1905: 85 (bei Podgorica gemein); Bulić 1994: 49 (Kuće Rakića); Hadžiablahović 2010: 19 (Stara Varoš, Kuće Rakića, Sastavci, Ržanički most).

*Parietaria lusitanica* L., v Mi-Mes T scap; L7, T10, H3, R4, N6; at: II (stenomed); hab: zid-IV; pot-III; kam-I; UNE

Literature source: Rohlena 1902a: 15 (in fissuris murorum et rupium ad Podgorica); Černjavski *et al.* 1949: 68 (Titograd, Kruševac); Bulić 1994: 50 (Kuće Rakića); Stešević 2002 (Gorica).

*Parietaria officinalis* L., v-aut Mes-Meg H scap; L4, T8, H5, R7, N7; at: V (c.euro-med); hab: pot-II; kor-I; tra-I; UNE

Literature source: Rohlena 1942: 23 (Podgorica).

*Urtica dioica* L., v-aut Mes-Meg H scap; Lx, Tx, H6, Rx, N8; at: IX (cosm); hab: zap-III; liv-II; svp-II, ork-II; gro-I; kam-I; pok-I; dep-I; pas-I; UNE

Literature source: Rohlena 1942: 22 (frequens); Stešević 2002:32 (Gorica); Hadžiablahović 2010: 19 (Podgorica).

*Urtica urens* L., v-a Mes-Mac T scap; L7, T6, H5, R7, N8; at: IX (cosm); hab: zap-I; svp-I; UNE

Literature source: Rohlena 1905: 84 (Podgorica); Bulić 1994: 49 (Cijevna); Hadžiablahović 2010: 19 (Kuće Rakića).

**VALERIANACEAE**

*Valeriana tuberosa* L., a Mes G tub; L11, T4, H5, R7, N3; at: IV (med-mont); hab: kam-IV; akp-II; kor-II; liv-I; UFO

Literature source: Stešević 2002: 32 (Gorica).

*Valerianella coronata* (L.) DC., v-a Mes T scap; L11, T9, H2, R5, N1; at: III (eurimed); hab: akp-II; liv-II; kor-I; UFO

Literature source: Rohlena 1905: 58 (um Podgorica nicht selten); Bulić 1991: 134 (Ćemovsko polje).

*Valerianella dentata* (L.) Pollich, a Mes T scap; L7, T5, H4, R7, Nx; at: VI (submed-subatl); hab: zao-III; liv-II; pas-II; akp-I; sik-I; tra-I; UFO

Literature source: Rohlena 1905: 56 (Podgorica).

*Valerianella discoidea* (L.) Loisel., a Mi-Mes T scap; L11, T9, H2, R5, N1; at: II (stenomed); hab: akp-I; kor-I; liv-I; pko-I; kam-I; UFO

Literature source: -

*Valerianella eriocarpa* Desv., v-a Mes T scap; L11, T9, H2, R5, N1; at: III (eurimed); hab: akp-III; liv-III; gro-II; pas-II; kor-I; UFO

Literature source: Rohlena 1905: 56 (bei Podgorica nicht selten); Černjavski et al. 1949: 78 (Ćemovsko polje); Bulić 1991: 134 (Ćemovsko polje); Stešević 2002: 32 (Gorica).

*Valerianella locusta* (L.) Laterr., [syn. *V. olitoria* (L.) Pollich], v-a Mes T scap; L7, T5, H5, R7, Nx; at: III (eurimed); hab: liv-IV; zao-IV; akp-III; gro-III; pas-III; tra-III; pot-II; zid-II; nop-II; pst-II; svp-II; UNE

Literature source: Černjavski et al. 1949: 78 (Ćemovsko polje); Bulić 1991: 134 (Ćemovsko polje); Stešević 2002 (Gorica).

*Valerianella muricata* (Steven ex M. Bieb.) J.W. Loudon [syn. *V. truncata* (Rchg.) Betcke], v-a Mi-Mes T scap; L11, T9, H2, R5, N1; at: II (stenomed); hab: kam-III; liv-III; gro-III; kor-III; akp-II; pas-II; UFO

Literature source: -

*Valerianella pumila* (L.) DC., a Mi-Mes T scap; L11, T9, H2, R5, N1; at: II (stenomed); hab: akp-II; liv-II; kor-I. grp-I; svp-I; pko-I, nop-I; UFO

Literature source: -

*Valerianella rimosa* Bastard, v-a Mi-T scap; L6, T7, H4, R7, Nx; at: III (eurimed); hab: liv-II; zao-II; pas-II; sik-I; svp-I; pot-I; UFO

Literature source: -

*Valerianella turgida* (Steven) Betcke, v-a Mi-Mes T scap; L11, T9, H2, R5, N1; at: III (e.med); hab: liv-V; gro-IV; akp-III; kam-III; kor-III; svp-II; mop-II, pas-I; tra-I; UNE

Literature source: -

## VERBENACEAE

*Verbena officinalis* L., a-aut Mes-Mac H scap; L9, T5, H4, Rx, N6; at: IX (cosm); hab: zap-V, gro-V, liv-V, pas-V, svp-IV, akp-III, zao-III, pkg-III, pko-II, pno-II, sik-II, dep-II, ulk-II, put-II, kro-II, nop-II, pst-II, tra-II, zar-II; UNE

Literature source: Rohlena 1905: 76 (um Podgorica verbreitet); Bulić 1994: 115 (Kuće Rakića); Stešević 2002: 32 (Gorica); Hadžiablahović 2010: 78 (Podgorica).

*Vitex agnus-castus* L., fo dec NP caesp; L11, T11, H7, Rx, N2; at: IX (stenomed-tur); hab: slj-IV; kor-III; nop-III; pno-III; pko-II; akp-I; zap-I; dep-I; svp-I; put-I; UNE

Literature source: Horak 1898 (Podgorica), Rohlena 1905: 76 (Podgorica); Bulić 1994: 115 (Kuće Rakića, Srpska); Hadžiablahović 2010: 78 (Kuće Rakića).

## VIOLACEAE

*Viola kitaibeliana* Schult., v N-Mi T semiros; L9, T6, H3, R5, N2; at: V (med-kavk); hab: kam-III, kor-III, zao-II, liv-II, nop-II, pko-I, gaz-I; UFO

Literature source: Rohlena 1924: 42 (um Podgorica c. 50m) & 1942: 105 (circa Podgorica, Lješanska nahija); Stešević 2002: 32 (Gorica).

*Viola odorata* L., v Mi-Mes H semiros; L5, T6, H5, Rx, N8; at: III (eurimed); hab: sik-III, pas-II, tra-I; UFO

Literature source: Stešević 2002: 32 (Gorica).

*Viola tricolor* L., a Mes T scap; L7, Tx, H5, Rx, N6; at: V (euras); hab: liv-II, nop-I, zao-I; UFO

Literature source: Rohlena 1905: 26 (Podgorica, Kokoti); Bulić 1994: 97 (Kuće Rakića).

## VITACEAE

*Parthenocissus quinquefolia* (L.) Planchon, a S lig; L5, T7, H5, R5, N5; at: IX (ADV, kult, AMN); hab: kro-I, zap-I, zid-I; UFI

Literature source: Stešević & Jovanović 2005: 73 (Podgorica).

*Vitis vinifera* L. subsp. *vinifera*, a S lig; L6, T8, H6, R8, N6; at: IX (ADV, kult, EAS); hab: kor-I, pot-I, nop-I, svp-I, zid-I; UNE

Literature source: Beck & Szyszyłowicz 1888: 80 (circa Podgoriza culta).

*Vitis vinifera* L. subsp. *sylvestris* (C.C. Gmelin) Hegi, a S lig; L0, T0, H0, R0, N0; at: V (paleotemp); hab: ork-III, kor-III, put-I, pot-I, svp-I; UNE

Literature source: Hadžiablahović 2010: 65 (Kuće Rakića).

## ZYGOPHYLLACEAE

*Tribulus terrestris* L., a-aut Mes-Meg T rept; L8, T8, H2, R5, N3; at: IX (cosm); hab: gaz-V, dep-V, gro-V, zap-V, svp-V, nop-IV, put-III; UNE

Literature source: Baldacci 1892: 539 (Lješkopolje); Bulić 1994:91 (Ćemovsko polje), Hadžiablahović 2010: 58 (Duvanski kombinat).

## MONOCOTYLEDONES

### ALISMATACEAE

*Alisma plantago-aquatica* L., rhiz emer HydG; L7, Tx, H10, Rx, N8; at: IX (cosm); hab: pno-II; vli-I; UFO

Literature source: -

### AMARYLLIDACEAE

*Allium ampeloprasum* L., v-a Meg-Alt G bulb; L7, T7, H3, R6, N5; at: III (eurimed); hab: zao-I; pot-I; svp-I; gro-I; liv-I; UFO

Literature source: -

*Allium carinatum* L., a Mes-MacG bulb scap; L9, T7, H3, R6, N3; at: VI (submed-subatl); hab: kam-II; sik-I, UFO

Literature source: -

*Allium cepa* L., a Meg-Alt G bulb; L8, T8, H6, R5, N5; at: IX (ADV, kult, c.AS); hab: zao-I; svp-I; dep-I

Literature source: -

*Allium flavum* L., a Mes-Mac G bulb; L8, T5, H3, R5, N3; at: III (eurimed); hab: kor-II; kam-I; liv-I; sik-I; UFO

Literature source: Rohlena 1905: 91 (bei Podgorica).

*Allium guttatum* Steven subsp. *dalmaticum* (A. Kern. & Janch.) Stearn [syn. *A. dalmaticum* A.Kern. & Janch.], a-aut Mes-Mac G bulb; L0, T0, H0, R0, N0; at: I (ilir); hab: kam-III; kor-III; liv-III; gro-II; akp-II; svp-I; UFO

Literature source: Rohlena 1942: 429 (Podgorica); Stešević 2002: 17 (Gorica); Hadžiablahović 2010: 115 (Kuće Rakića, Ržanički most, Sastavci).

*Allium guttatum* Steven subsp. *sardoum* (Moris) Stearn. [syn. *A. margaritaceum* Sm.], v-a Mes-Mac G bulb; L11, T8, H3, R6, N3; at: II (stenomed); UFO

Literature source: Rohlena 1903: 57 (bei Podgorica c. 30m); Hadžiablahović 2010: 115 (Ržanički most).

*Allium moschatum* L., a Mi-Mes G bulb; L8 T7, H3, R5, T6; at: V (se. euro); hab: kor-I, UFO

Literature source: Bulić 2008 (Podgorica, Kuće Rakića).

*Allium paniculatum* L., a Mac-Meg G bulb; L7, T7, H3, R5, N6; at: V (paleotemp), hab: ats-VI, atp-V; hab: kor-II; sik-I; pot-I; liv-I; svp-I; zap-I; UFO

Literature source: Hadžiablahović 2009: 115 (city centre).

*Allium porrum* L., v Meg-Alt G bulb; L0, T0, H0, R0, N0; at: IX (ADV, kult, med-E); hab: kor-II; sik-II; kam-I; liv-I; zao-I; zap-I; pot-I; svp-I; nop-I; pno-I; zar-I

Literature source: -

*Allium roseum* L., v-a Mac G bulb; L8, T8, H3, R6, N5; at: II (stenomed); hab: kor-II; akp-I; kam-svp-I; UFO

Literature source: Rohlena 1904: 91 (in der Ebene Donja Zeta bei Podgorica); Bulić 1991: 154 (Kuće Rakića, Srpska).

*Allium sativum* L., a Mac-Meg G bulb; L0, T0, H0, R0, N0; at: IX (ADV, kult, AS); hab: zao-I; pot-I

Literature source: -

*Allium scorodoprasum* L., a Mac-Meg G bulb; L7, T6, H3, R6, N5; at: III (eurimed); hab: vli-II; liv-I; pno-I; svp-I; UFO

Literature source: -

*Allium sphaerocephalon* L., a Mes-Mac G bulb; L9, T8, H3, R8, N2; at: V (paleotemp); hab: kam-III; liv-III; kor-II; pot-I; akp-I; UFO  
Literature source: -

*Galanthus nivalis* L., n-v Mes-Meg G bulb; L5, T7, Hx, R7, N7; at: V (euro-kavk); hab: sik-V; pot-III, pas-I; UFO  
Literature source: Rohlena 1905: 90 (bei Podgorica nicht selten); Stešević 2002: 17 (Gorica); Hadžiablahović 2010: 116 (Kuće Rakića).

*Leucojum aestivum* L., a Mes-Meg G bulb; L6, T5, H7, R7, N7; at: V (euro-kavk); hab: pls-III; UFO  
Literature source: -

*Narcissus pseudonarcissus* L., v Mac-Meg G bulb; L7, T8, H4, R5, N3; at: IX (ADV, kult, E); hab: kor-I; svp-I; zap-I; UFI  
Literature source: -

*Sternbergia colchiciflora* Waldst. & Kit., aut N G bulb; L9, T4, H3, R5, N2; at: V (submed-pont); hab: kam-I; UFO  
Literature source: Stešević 2002: 17 (Gorica).

*Sternbergia lutea* (L.) Ker Gawl. ex Spreng., aut Mi-Mes G bulb; L6, T6, H4, R5, N4; at: IV (med-mont); hab: sik-I; svp-I; UFO  
Literature source: Pulević & Lakušić 1983: 23 (Rakići: Nijagara, Duklja); Bulić 1991:156 (Kuće Rakića).

## ARACEAE

*Arum italicum* Mill., v Mes G rhiz scap; L6, T8, H4, R5, N5; at: II (stenomed) hab: sik-V; pot-V; kam-III; pas-III; tra-II; gro-II; ziv-II; nop-I; UNE  
Literature source: Bulić 1994:168 (Kuće Rakića, Srpska); Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 132 (Dajbabska gora).

## ASPARAGACEAE

*Agave americana* L., a NP caesp; L9 T10, H2, Rx, N2; at: IX (ADV, kult, AMN); hab: svp-I;  
Literature source: Pulević 2005: 147 (Kuće Rakića, Duklja).

*Asparagus acutifolius* L., semp S lig; L6, T9, H2, R5, N5; at: II (stenomed); hab: sik-V; pot-V; kam-II; ziv-IV; pas-II; nop-II; gro-II; liv-I; zap-I; UFO  
Literature source: Rohlena 1905: 90 (Im Gebiete der Mediterranflora bei Podgorica gemein); Bulić 1991: 155 (Kuće Rakića); Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 114 (Kuće Rakića)  
*Asparagus tenuifolius* Lam., a Mac-Alt G rhiz scap; L6, T7, H4, R6, N5; at: V (se.euro-w.as); hab: sik-I; zap-I; UFO  
Literature source: Rohlena 1905: 90 (um Podgorica verbreitet).

*Hyacinthella dalmatica* (Baker) Chouard, v Mi G bulb; L0, T0, H0, R0, N0; at: I (adriat); hab: akp-III; kor-III; UFO  
Literature source: Pulević 1971: 73-76 (Cijevna bei Titograd); Pulević & Lakušić 1983:17 (Cijevna); Pulević 1983a: 43 (bei Titograda); Bulić 1991: 153 (Kuće Rakića).

*Muscari comosum* (L.) Mill. [syn. *M. tubiliflorum* Steven], v Mes G bulb; L7, T8, H3, R7, N0; at: III (eurimed); hab: liv-V; pas-V; kam-III; akp-III; zao-II; sik-II; tra-II; gro-II; zap-II; pst-II; kor-II; pot-II; dep-I; svp-I; UNE  
Literature source: Rohlena 1905: 90 (bei Podgorica nicht selten); Černjavski *et al.* 1949:81 (Ćemovsko polje); Bulić 1991: 153 (Kuće Rakića, Srpska); Stešević 2002: 27 (Gorica); Hadžiablahović 2010: 114 (KBC, Tološi).

*Muscari neglectum* Guss. & Ten. [syn. *M. racemosum* (L.) Lam. & DC.], v Mi-Mes G bulb; L7, T7, H4, R6, N3; at: III (eurimed); hab: liv-IV; kam-III; kor-III; sik-II; akp-II; tra-II; pot-I; UFO  
Literature source: Černjavski *et al.* 1949:81 (Titograd).

*Ornithogalum collinum* Guss. [syn. *O. gussonei* Ten., *O. tenuifolium* Guss.], v Mi G bulb; L7, T7, H2, R6, N2; at: II (stenomed); hab: akp-V; kam-V; kor-V; liv-V; gro-IV; pas-III; pot-III; tra-IV; sik-II; pno-I; put-I; svp-I; UNE

Literature source: Černjavski *et al.* 1949: 81 (Titograd, Ćemovsko polje); Bulić 1991: 153 (Ćemovsko polje, Kuće Rakića, Srpska); Stešević 2002: 27 (Gorica).

*Ornithogalum excapum* Ten., v Mi G bulb; L11, T9, H2, R6, N2; at: III (eurimed); hab: akp-II; kam-II; gro-II; liv-II; kor-II; UFO

Literature source: -

*Ornithogalum narbonense* L. [syn. *O. pyramidale* subsp. *narbonense* (L.) Ascherson & Graebner]; a Mes G bulb; L8, T7, H4, R6, N4; at: III (eurimed); hab: sik-II; pot-I; UFO

Literature source: Rohlena 1905: 90 (bei Podgorica verbreitet).

*Ornithogalum sphaerocarpon* A. Kern., a Mes-Mac G bulb; L6, T7, H4, R6, N4; at: V (se.euro-w.as); hab: sik-II; kam-I; svp-I; UFO

Literature source: -

*Ornithogalum umbellatum* L., v Mi-Mes G bulb; L5, T6, H5, R7, N5; at: III (eurimed); hab: tra-II; kor-II; zao-II; sik-I; pas-II; liv-I; svp-I; UNE

Literature source: Hadžiablahović 2010: 113 (Dajbabe).

*Ruscus aculeatus* L., a Mac-Meg Ch frut; L4, T8, H4, R5, N5; at: III (eurimed); hab: sik-V; pot-IV; ziv-III; gro-II; kam-II; pas-II; UFO

Literature source: Rohlena 1905: 90 (im Gebiete der Mediterranflora bei Podgorica) & 1942: 436 (Podgorica); Bulić 1991: 155 (Kuče Rakića); Stešević 2002: 18 (Gorica); Hadžiablahović 2010: 114 (Kuče Rakića).

*Scilla autumnalis* L., a-aut Mi G bulb; L8, T8, H2, R6, N3; at: III (eurimed); hab: kam-V; liv-V; gro-V; akp-IV; kor-IV; pas-III; gaz-I; sik-II; tra-II; svp-I; UNE

Literature source: Stešević 2002: 27 (Gorica); Hadžiablahović 2010: 114 (Kuče Rakića, Podgorica).

*Scilla vindobonensis* Speta [syn. *S. montenegrina* Speta], v Mi-Mes G bulb; L5, T6, H6, R7, N6; at: V (med-w.pont); hab: sik-III; kam-I; pot-I; UFO

Literature source: Speta 1976: 66 (Vranjske njive).

## BUTOMACEAE

*Butomus umbellatus* L., rhiz emer HydG; L6, T0, H10, R0, N8; at: V (euras); hab: ork-I; UFO

Literature source: -

## COLCHICACEAE

*Colchicum visianii* Parl., a-aut Mes G bulb; L5, T5, H6, R7, Nx; at: I (apen-ilir); hab: sik-III; kam-I; UFO

Literature source: Stešević 2002 (Gorica).

*Colchicum hungaricum* Janka, n Mi-Mes G bulb; L0, T0, H0, R0, N0; at: I (ilir-sk.pind-mez); hab: akp-V; kam-V; sik-I; UFO

Literature source: Pulević 1974: 59 (bei Titograd); Pulević 1990: 86 (bei Titograda); Bulić 1991: 152 (Ćemovsko polje, Podgorica); Stešević 2002: 27 (Gorica).

## COMMELIACEAE

*Commelina communis* L., a-aut Mes-Meg H rept; L7, T6, H8, R6, N2; at: IX (ADV, AS); hab: ulk-III; zap-II; put-II; dep-I; tra-I; zar-I; UFI

Literature source: Hadžiablahović 2010: 119 (Blok V).

*Tradescantia virginiana* L., a-aut Mes-Meg G rhiz caesp; L7, T6, H8, R6, N2; at: IX (ADV, AMN); hab: kro-I; zar-I; UFI

Literature source: Stešević & Jovanović 2005: 69 (Podgorica).

## CYPERACEAE

*Carex acuta* × *elata*, v Meg-Alt G rhiz caesp; L7, T4, H9, R6, N4; hab: vli-II; UFO

Literature source: -

*Carex caryophyllea* Latourr. [syn. *C. verna* Chaix], v Mi-Mes G rhiz caesp; L8, T5, H4, Rx, N2; at: V (euras); hab: kam-V; pas-V; liv-IV; akp-III; sik-III; gro-II; svp-II; put-I; UNE

Literature source: Stešević 2002: 22 (Gorica); Hadžiablahović 2010: 133 (Studentski dom, Tološka šuma).

*Carex distachya* Desf., v-a Mes-Mac H caesp; L6, T6, H2, R4, N5; at: II (stenomed); hab: kam-III; sik-II; pas-II; liv-II; svp-I; pot-I; UFO

Literature source: Rohlena 1942: 449 (Podgorica).

*Carex distans* L., v-a Mes-Meg G rhiz caesp; at: III (eurimed); hab: vli-IV; liv-II; kam-I; zao-I; UFO

Literature source: Rohlena 1905: 98 (in Gebiete der Mediterranflora bei Podgorica); Bulić 1994:169 (Srpska); Hadžiablahović 2010: 133 (Kuće Rakića).

*Carex divisa* Huds., v-a Mi-Mes G rhiz caesp; L8, T8, H3, R5, N3; at: VI (eurimed- atl); hab: vli-III; liv-II; svp-I; kam-I; nop-I; tra-I; UFO

Literature source: Hadžiablahović 2010: 131 (Kuće Rakića, Ržanički most).

*Carex divulsa* Stokes subsp. *divulsa*, v-a Mes-Mac G rhiz caesp; L7, T6, H4, R5, N5; at: III (eurimed); hab: pas-V; tra-IV; liv-III; kam-III; zap-III; svp-III; gaz-II; sik-II; pst-II; ulk-I; UNE

Literature source: Rohlena 1912: 121 (um Podgorica); Hadžiablahović 2010: 133 (Blok V, Dajbabe, Kuće Rakića, Ržanički most, Tološka šuma).

*Carex divulsa* Stokes subsp. *leersii* (Kneuck.) W. Koch [syn. *C. polyphylla* Kar. & Kir., *C. pairaei* F.W. Schultz subsp. *pairaei* var. *leersii* (Kneucker) Kük.], v Mes-Mac G rhiz caesp; L6, T7, H3, R5, N5; at: V (euras); hab: pas-II; put-I; svp-I

Literature source: -

*Carex elata* All., v-a Mes-Alt H caesp; L8, T5, H10, Rx, N4; at: V (euro-kavk); hab: pls-III; UFO

Literature source: -

*Carex flacca* Schreb. [syn. *C. glauca* Scop.], v-a Mes-Mac G rhiz caesp; L7, T5, H6, R8, Nx; at: V (euro); hab: liv-V; kam-III; gro-III, pas-III; akp-II; zao-II; pot-II; svp-II; kro-I; UFO

Literature source: Rohlena 1905: 95 (bei Podgorica); Hadžiablahović 2010: 134 (Dajbabska gora, Tološka šuma).

*Carex hallerana* Asso, v Mes-Mac H rhiz caesp; L5, T7, H3, R3, N4; at: III (eurimed); hab: kam-II; akp-II; kor-I; sik-I; pas-I; UFO

Literature source: Rohlena 1905: 96 (Podgorica auf trockenen und felsigen Stellen verbreitet); Hadžiablahović 2010: 134 (Aluminijumski kombinat).

*Carex hirta* L., v Mes-Mac G rhiz caesp; L7, T6, H6, Rx, N5; at: V (euro-kavk); hab: liv-III; kor-II; pot-I; kam-I; tra-I; UFO

Literature source: Hadžiablahović 2010: 134 (Dajbabe, OŠ "M.M.Burzan").

*Carex olbiensis* Jord., v Mes-Mac H caesp; L4, T8, H3, R4, N4; at: II (stenomed); hab: pas-II; pot-I; UFO

Literature source: Rohlena 1905: 97 (im Gebiete der Mediterranflora bei Podgorica).

*Carex otrubae* Podp., v Mes-Mac H caesp; L9, T5, H9, Rx, N5; at: VI (eurimed-atl); hab: vli-III, pno-III; svp-I; UFO

Literature source: -

*Carex paniculata* L., v Meg H caesp; L7, T5, H9, R9, N4; at: V (euro-kavk); hab: pls-I; ork-I; UFO

Literature source: -

*Carex spicata* Huds. [syn. *C. contigua* Hoppe.], v-a Mes-Mac H caesp; L7, T6, H4, R5, N5; at: V (euras); hab: vli-IV; liv-II; pno-II; kor-I; tra-I; pas-I; svp-I; UFO

Literature source: Rohlena 1942: 449 (Podgorica); Hadžiablahović 2010: 135 (Tološka šuma).

*Carex tomentosa* L., v Mes-Mac G rhiz caesp; L7, T5, H7, R9, Nx; at: VIII (eurosib); hab: vli-II; pno-I; svp-I; UFO

Literature source: Rohlena 1905: 95 (im Gebiete der Mediterranflora bei Podgorica nicht häufig).

*Cladium mariscus* (L.) Pohl, v Alt G rhiz caesp; L9 Tx, H10, R9, N3; at: IX (subcosm); hab: vli-I; UFO

Literature source: -

*Cyperus flavescens* L., a-aut Mi-Mes T caesp; L6, T6, H9, R5, N5; at: IX (subcosm); hab: kro-II; slj-I; pko-I; UNE

Literature source: -

*Cyperus longus* L., rhiz emer HydG; L8, T7, H11, R5, N5; at: V (paleotemp); hab: pls-III; pno-II; pot-II; svp-I; UFO

Literature source: Bulić 1994: 171 (Srpska); Hadžiablahović 2010: 133 (Kuće Rakića).

*Eleocharis acicularis* (L.) Roem. & Schult., a Mi G rhiz; L8, T6, H10, R5, N3; at: IX (cosm); hab: pno-I; UFO

Literature source: -

*Eleocharis mamillata* H. Lindb., rhiz emer HydG; L8, T6, H10, R3, N3; at: IX (cosm); hab: pls-II; vli-I; UFO

Literature source: Hadžiablahović 2004: 12 (Tuški put, Mareza).

*Eleocharis palustris* (L.) Roem. & Schult. [syn. *Scirpus palustris* L.], rhiz emer HydG; L8, T6, H10, R3, N3; at: IX (cosm); hab: pls-III; ulk-I; UFO

Literature source: Rohlena 1905:93 (bei Podgorica).

*Scirpus holoschoenus* L. [syn. *Holoschoenus vulgaris* Link, *Scirpus holoschoenus* L. var. *australis* (L.) Koch.], s Meg-Alt G rhiz caesp; L8, T7, H8, R5, N4; at: VI (med-atl); hab: kro-III; slj-III; zap-III; pko-III; liv-II; kam-II; nop-II; pno-II; pas-I; ulk-I; pkg-I; akp-I; pot-I; UNE

Literature source: Rohlena 1905: 93 (an Sumpfwiesen bei Mosor nächst Podgorica); Hadžiablahović 2010: 133 (Ljubović, Kuće Rakića, Ribnica).

*Scirpus lacustris* L. subsp. *lacustris* [syn. *Schoenoplectus lacustris* (L.) Palla], rhiz emer HydG; L8, T5, H11, R7, N5; at: IX (cosm); hab: pls-IV; ork-II; svp-I; UFO

Literature source: -

*Scirpus lacustris* L. subsp. *tabernaemontani* (C.C.Gmelin) Syme [syn. *S. tabernaemontani* C.C.Gmelin, *Schoenoplectus tabernaemontani* (Gmel.) Palla], rhiz emer HydG; L8, T7, H10, R8, Nx; at: VIII (eurosib); hab: pls-II; pno-I; UFO

Literature source: -

*Scirpus maritimus* L. [syn. *Bolboschoenus maritimus* (L.) Palla], a Alt rhiz emer HydG; L8, Tx, H10, R8, N5; at: IX (cosm); hab: pls-II; pno-I; UFO

Literature source: -

#### DIOSCOREACEAE

*Tamus communis* L., a rhiz SG herb; L5, T7, H5, R8, N6; at: III (eurimed); hab: sik-V; ziv-V; pot-IV; zap-II; svp-I; nop-I; UFO

Literature source: Rohlena 1905: 90 (um Podgorica verbreitet); Stešević 2002: 23 (Gorica); Hadžiablahović 2010: 117 (Dajbabska gora, Kuće Rakića).

#### HYDROCHARITACEAE

*Vallisneria spiralis* L., rad sbm HydG; L6, T5, H12, R5, N5; at: IX (cosm); hab: kan; UFO

Literature source: -

#### LEMNACEAE

*Lemna trisulca* L., er sbm HydT; L8, Tx, H12, R7, N6; at: IX (cosm); hab: kan; UFO

Literature source: -

(-) *Spirodela polyrhiza* (L.) Schleid., er nat Hyd T; L7, T6, H12, Rx, N7; at: IX (subcosm); hab: rij; UFO

Literature source: Hadžiablahović 2005: 105 (the mounth of river Zeta).

#### LILIACEAE

*Erythronium dens-canis* L., v Mi-Mes G bulb; L5, T5, H3, R6, N8; at: V (s.euro-s.sib); hab: sik-I; UFO

Literature source: Rohlena 1905: 92 (um Podgorica).

*Fritillaria messanensis* Rafin. subsp. *gracilis* (Ebel) Rix, v Mes-Mac G bulb; L0, T0, H0, R0, N0; at: I (dinar); hab: sik-I, UFO

Literature source: -

*Gagea amblyopetala* Boiss. & Heldr., v Mi G bulb; L8, T5, H3, R4, N3; at: II (stenomed-or); hab: svp-I; liv-I; sik-I; UFO

Literature source: Stešević 2006: 69 (Podgorica, Sadine).

*Gagea pusilla* (F.W. Schmidt) Schult. & Schult. fil., n-v Mi G bulb; L4, T4, H3, R4, N4; at: V (se.euro-s.sib); hab: sik-IV; kam-IV; kam-I; akp-I; UFO

Literature source: Blečić & Pulević 1979: 192 (bei Titograda); Stešević 2002 (Gorica).

## IRIDACEAE

*Crocus dalmaticus* Vis. [syn. *C. variegatus* Hoppe], n Mi G bulb; L0, T0, H0, R0, N0; at: I (ilir-adriat); hab: sik-V; kam-IV; liv-II; akp-II; pas-I; UFO

Literature source: Rohlena 1905: 89 (auf Steinigen Ufern der Morača bei Podgorica); Pulević 1979: 203 (Velje brdo, brdo Gorica); Pulević & Lakušić 1983: 17 (Cijevna); Stešević 2002: 25 (Gorica).

*Crocus weldenii* Hoppe & Fuernr., n Mi G bulb; L8 T7, H4, R6, N4; at: I (ilir-adriat); hab: kam-V; akp-II; sik-II; gro-I; liv-I; UFO

Literature source: Pulević 1977: 85 (*C. weldenii* f. *Lutescens*, Velje brdo); Stešević 2002: 25 (Gorica).

*Gladiolus illyricus* Koch., v-a Mes G bulb; L8, T6, H6, R8, N4; at: V (se.euro-kavk); hab: liv-I; UFO

Literature source: Rohlena 1931: 15 (grasige Stellen bei Podgorica) & 1942: 441 (Podgorica).

*Gladiolus palustris* Gaudin, v-a Mes G bulb; L8, T6, H6, R8, N4; at: V (c.euro); hab: liv-III; kam-III; sik-I; vli-I; UFO

Literature source: Rohlena 1905: 89 (auf Wiesen bei Podgorica verbreitet); Stešević 2002: 25 (Gorica); Hadžiablahović 2010: 118 (Dajbabska gora).

*Iris tuberosa* L. [syn. *Hermodactylus tuberosus* (L.) Mill.], v Mes-Meg G rhiz scap; L7, T7, H3, R5, N3; at: III (n.med); hab: kam-II; sik-II; pas-I; UFO

Literature source: Pulević 1983a:43 (Gorica bei Titograda); Stešević 2002: 25 (Gorica).

*Iris pallida* Lam., v Mes-Alt G rhiz caesp; L0, T0, H0, R0, N0; at: I (apen-cirkadriat); hab: kam-III; kor-II; pot-II; nop-II; svp-II; liv-I; zid-I; sik-I; UNE

Literature source: Rohlena 1942:440 (ad coenob. Morača).

*Iris pseudacorus* L., rhiz emer HydG; L7, T7, H10, R6, N7; at: V (euras); hab: pls-II; UFO

Literature source: Bulić 1994:157 (Srpska).

*Iris pseudopallida* Trin., v Mac-Alt G rhiz caesp; L7, T7, H3, R5, N4; at: I (s.e.dinar); hab: sik-I; kor-I; pot-I; UFO

Literature source: -

*Romulea bulbocodium* (L.) Sebast. & Mauri, n-v N G bulb; L8, T9, H3, R4, N3; at: II (stenomed); hab: kam-V; liv-V; gro-IV; akp-IV; kor-III; pot-II; tra-II; UNE

Literature source: Pulević 1982: 86 (bei Titograd); Stešević 2002: 25 (Gorica); Hadžiablahović 2010: 117 (Dajbabska gora).

*Romulea linaresii* Parl. subsp. *graeca* Bég., n-v N G bulb; L0, T0, H0, R0, N0; at: I (balk); hab: kam-IV; akp-III; kor-I; UFO

Literature source: Pulević 1982: 88 (Velje Brdo); Stešević 2002: 25 (Gorica); Hadžiablahović & Bulić 2004: 47 (Omerbožovići, Tuški put, Dinoško polje).

## JUNCACEAE

*Juncus anceps* Laharpe, a Mes-Mac G rhiz caesp; L8, T5, H9, R3, N2; at: VI (med-atl); hab: pls-III; UFO

Literature source: Rohlena 1935: 10 (Podgorica).

*Juncus bufonius* L., a Mi-Mes T caesp; L4, T7, H6, R4, N1; at: IX (cosm); hab: kro-V; vli-II; UNE

Literature source: Rohlena 1905: 92 (um Podgorica).

*Juncus compressus* Jacq., v-a Mi-Mes G rhiz caesp; L4, T5, H6, R4, N1; at: V (euras); hab: kro-IV; pls-III; vli-II; UNE

Literature source: -

*Juncus conglomeratus* L., v-a G rhiz caesp; L7, T7, H8, R6, N5; at: VIII (eurosib); hab: vli-II; UFO

Literature source: -

*Juncus effusus* L., a Mes-Meg G rhiz caesp; L7, T7, H9, R6, N5; at: IX (cosm); hab: pls-III; vli-III; UFO



Literature source: -

*Juncus inflexus* L., a Mes-Alt G rhiz caesp; L7, T7, H8, R6, N5; at: V (paleotemp); hab: pls-III; UFO

Literature source: -

*Luzula forsteri* (Sm.) DC., v Mes H caesp, a Mes H scap; L4, T7, H4, R4, N5; at: III (med); UFO

Literature source: Rohlena 1905: 92 (um Podgorica).

*Luzula multiflora* (Retz.) Lej. [syn. *L. campestris* (L.) DC. subsp. *multiflora* (Retz.) Buchenau], v-a Mes H caesp; L7, Tx, H6, R5, N3; at: IX (cosm); hab: sik-III; kam-III; liv-III; pas-III; UNE

Literature source: Rohlena 1912: 120 (in de niedrigeren und wärmeren Region, um Podgorica verbreitet); Stešević 2002: 25 (Gorica).

## ORCHIDACEAE

*Anacamptis coriophora* (L.) R. M. Bateman, Pridgeon & M. W. Chase [syn. *Orchis coriophora* L.], v-a Mi-Mes G tub; L7, T8, H3, R5, N3; at: III (eurimed); hab: akp-IV; liv-II; kor-II; kam-I; nop-I; UFO

Literature source: Hadžiablahović 2010: 137 (Dajbabe, Kuće Rakića).

*Anacamptis morio* (L.) R. M. Bateman, Pridgeon & M. W. Chase subsp. *morio* [syn. *Orchis morio* L.], v-a Mi-Mes G tub; L7, T5, H4, R7, N3; at: V (euro-kavk); hab: akp-V; kam-V; liv-V; pas-III; kor-II; svp-I; UFO

Literature source: Rohlena 1905: 87 (auf Wiesen um Podgorica); Gözl & Reinhard 1986:782 (6,8km SSI Titograd); Parolly 1991:234 (Cijevna, Kuće Rakića, Doljani, Smokovac); Bulić 1994:171 (Kuče Rakića); Stešević 2002: 27 (Gorica); Hadžiablahović 2010: 135 (Blok V).

*Anacamptis morio* subsp. *caucasica* (K. Koch) H. Kretschmar, Eccarius & H. Dietr. [syn. *Orchis morio* L. subsp. *albanica* (Göltz & Reinhard) Butler], a Mes G tub; L0, T0, H0, R0, N0; at: I (adriat); UFO

Literature source: Parolly 1991: 234 & 235 (8.5km JJZ Titograd, 2.7km ZSZ Titograd, 0.5km JZ Masline).

*Anacamptis morio* subsp. *picta* (Loisel.) Jacquet & Scappat [syn. *Orchis morio* L. subsp. *picta* (Lois.) Arcang.], a Mes G tub; L0, T0, H0, R0, N0; at: III (w.med-or); hab: akp- I; UFO

Literature source: Hadžiablahović 2010: 136 (Ćemovsko polje near Agrokombinat).

*Anacamptis palustris* (Jacq.) R. M. Bateman, Pridgeon & M. W. Chase subsp. *palustris* [syn. *Orchis laxiflora* Lam.], v-a Mes G tub; L8, T7, H6, R6, N5; at: III (eurimed); hab: vli-V; liv-II; pot-I; svp-I; UFO

Literature source: Rohlena 1905: 88 (auf einer sumpfwiese bei Mosor nächst Podgorica); Parolly 1991: 231 (0,5km SW Masline).

*Anacamptis papilionacea* (L.) R. M. Bateman, Pridgeon & M. W. Chase [syn. *Orchis papilionacea* L.], v Mes G tub; L8, T8, H3, R6, N4; at: III (eurimed); hab: akp-V; gro-V; kam-V; liv-V; pas-IV; tra-IV; sik-II; svp-II; zap-I; UNE

Literature source: Rohlena 1905: 87 (bei Podgorica nicht häufig); Černjavski *et al.* 1949: 84 (bei Titograd); Pulević & Bulić 1990: 86 (Ćemovsko polje, Cijevna, Vranjske njiva); Bulić 1994:171 (Ćemovsko polje, Kuće Rakića, Srpska); Stešević 2002: 27 (Gorica); Hadžiablahović 2010: 136 (Agrokominat, Dajbabska gora).

*Himantoglossum caprinum* (M. Bieb.) Spreng., v-a Mes-Mac G tub; L7, T7, H3, R9, N2; at: II (stenomed); hab: kam-I; sik-I; UFO

Literature source: -

*Neotinea tridentata* (Scop.) R. M. Bateman, Pridgeon & M. W. Chase [syn. *Orchis tridentata* Scop.], a Mes G tub; L8, T6, H3, R6, N3; at: III (eurimed); hab: kam-I; liv-I; UFO

Literature source: Parolly 1991: 241 (Cijevna, 0,5km JZ Masline).

*Ophrys apifera* Huds., v-a Mes G tub; L7, T6, H4, R9, N2; at: III (eurimed); hab: kam-I; UFO

Literature source: Parolly 1991: 223 (Vranići, Velje brdo).

*Ophrys bertolonii* Moretti, v Mes G tub scap; L8 T9, H3, R6, N3; at: II (stenomed); hab: kam-I; UFO

Literature source: -

*Ophrys incubaceae* Bianca [syn. *O. sphegodes* Mill. subsp. *atrata* (Lindl.) E. Mayer], v Mes G tub; L0, T0, H0, R0, N0; at: II (stenomed); hab: akp-III; kam-II; liv-II; kor-II; pas-I; UFO

Literature source: Parolly 1991: 225 (Kuče Rakića, Bulić TGR!; 8,5km JJZ Titograd, 0,5km JZ Masline).

*Ophrys scolopax* Cav. subsp. *cornuta* (Steven) E.G. Camus [syn. *O. cornuta* Steven, *O. oestifera* M.B. subsp. *balcanica* (Soó) Hayek var. *cornuta* (Steven) Hayek], v Mes G tub; L0, T0, H0, R0, N0; at: V (se. euro); hab: akp-III; kam-II; liv-II; pas-I; kor-I; sik-I; UFO

Literature source: Rohlena 1905: 87 (um Podgorica nicht selten); Stešević 2002: 27 (Gorica).

*Ophrys sphegodes* Mill. [syn. *O. aranifera* Huds.], v Mes G tub; L8, T8, H4, R9, N3; at: III (eurimed); hab: liv-II; akp-I; kam-I; kor-I; UFO

Literature source: Rohlena 1905: 86 (Auf feuchten Wiesen um Podgorica nicht selten); Hadžiablahović 2010: 137 (Dajbabe, Kuće Rakića, Ržanički most).

*Ophrys tenthredinifera* Willd., v-a Mes G tub; L8, T9, H3, R6, N3; at: II (stenomed); hab: sik-I; UFO

Literature source: -

*Orchis provincialis* Balb., v-a Mes G tub; L7, T7, H4, R6, N5; at: II (stenomed); hab: akp-II; kam-I; liv-II, svp-I; UFO

Literature source: -

*Orchis quadripunctata* Cyr., v-a Mi-Mes G tub; L6, T8, H3, R6, N3; at: II (stenomed-or); hab: sik-I; liv-I; UFO

Literature source: Rohlena 1905: 87 (bei Podgorica selten).

*Serapias lingua* L., v Mes G tub; L11, T8, H3, R4, N2; at: II (stenomed); hab: liv-I; UFO

Literature source: -

*Serapias vomeracea* (Burm.) Briq. subsp. *vomeracea*, v-a Mes-Mac G tub; L11, T8, H3, R4, N2; at: III (eurimed); hab: kam; liv; akp; UFO

Literature source: Rohlena 1942: 494 (Podgorica); Stešević 2002: 27 (Gorica); Hadžiablahović 2010: 135 (Agrokominat, Dajbabska gora, Dajbabe, Kuće Rakića).

*Serapias vomeracea* (Burm.) Briq. subsp. *laxiflora* (Soó) Gözl & Reinhard [syn. *S. parviflora* Parl. subsp. *laxiflora* Soó], v-a Mes G tub; at: II (stenomed); hab: kam; liv; akp; UFO

Literature source: Parolly 1991: 247 (8,5km JJZ Titograd, Smokovac).

*Spiranthes spiralis* (L.) Chevall., aut Mi-Mes G tub; L8, T6, H3, Rx, N2; at: V (euro-kavk); hab: kam-V; akp-IV; pas-III-, liv-II; UFO

Literature source: Pulević 1973: 79 (Gorica); Gözl & Reinhard 1986:780 (3,5km JJZ Titograd); Parolly 1991:250 (Titograd, Duklja); Stešević 2002: 27 (Gorica); Hadžiablahović 2010: 135 (Agrokominat, Dajbabska, Kuće Rakića).

## POACEAE

*Achnatherum calamagrostis* (L.) Beauv. [syn. *Lasiagrostis calamagrostis* (L.) Link], a Meg-Alt H caesp; L9, T7, H3, R8, N2; at: VII (s.euro-mont); hab: kam-III; pot-III; kam-I; UFO

Literature source: Hadžiablahović 2010: 119 (Ržanički most).

*Aegilops cylindrica* Host, v Mes-Mac T scap; L11 T9, H5, R5, N5; at: V (se.euro-s.sib); hab: nop-II

Literature source: -

*Aegilops geniculata* Roth [syn. *A. ovata* L.- pro parte, *Triticum ovatum* (L.) Gre. & Gordon], v-a Mi-Mes T caesp; L11, T10, H5, R5, N4; at: IX (eurimed-turan); hab: akp-V; liv-V; kam-V; gro-V; kor-IV; nop-III; gaz-III; tra-III; svp-III; pas-III; put-I; pst-I; UNE

Literature source: Rohlena 1902b: 34 (Podgorica frequens); Černjavski *et al.* 1949:83 (Ćemovsko polje); Bulić 1994:163 (Ćemovsko polje); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 125 (Blok V, Kuće Rakića, Ržanički most).

*Aegilops neglecta* Req. & Bertol. [syn. *A. triaristata* Willd., *A. ovata* L.- pro parte, *Triticum ovatum* var. *triaristatum* Ascherson & Graebner], v-a Mi-Mes T caesp; L11, T12, H5, R5, N5; at: IX (eurimed-turan); hab: liv-III; nop-III; akp-II; svp-II; pot-II; gro-I; UFO

Literature source: Rohlena 1902b: 34 (Podgorica frequens); Bulić 1994:162 (Kuče Rakića); Hadžiablahović 2010: 125 (Tološka šuma).

*Aegilops uniaristata* Vis. [syn. *Triticum uniaristatum* (Vis.) K. Richter], v-a Mi-Mes T caesp; L11, T9, H5, R5, N5; at: I (cirkadriat); hab: liv-V; gro-IV; akp-III; kam-III; or-III; svp-II; nop-II; tra-I; UFO

Literature source: Rohlena 1902b: 35 (in campo Podgoricensis); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 125 (Ržanički most).

*Agrostis canina* L., a Mes H caesp; L8, Tx, H9, R3, N2; at: VIII (eurosib); hab: vli-V; pno-II; liv-I; kor-I; UFO

Literature source: -

*Agrostis capillaris* L. [syn. *A. tenuis* Sibth.], a Mes H caesp; L7, Tx, Hx, R3, N3; at: VIII (circumbor); hab: sik-III; liv-II; pno-II; svp-II; pas-II; kam-I; UFO

Literature source: -

*Agrostis castellana* Boiss. & Reut. [syn. *A. castellana* Boiss. & Reut. subsp. *byzantina* (Boiss.) Hackel.], v-a Mes-H caesp; L8, T6, H4, R4, N2; at: III (eurimed); hab: liv-III; svp-II; zao-II; pas-II; kor-II; pko-I; UFO

Literature source: Rohlena 1902b: 23 (in pratis et fruticetis ad Podgorica, in campo Lješkopolje od Farmaki, circum Podgorica c. 40m); Hadžiablahović 2010: 128 (Kuće Rakića, Tološka šuma, Tuški put).

*Agrostis stolonifera* L. [syn. *A. alba* L.], a Mes-Mac H rept; L8, Tx, H6, Rx, N5; at: VIII (circumbor); hab: pno-V, vliv-IV; slj-I; zar-II; UFO

Literature source: Stešević 2002 (Gorica).

*Aira elegantissima* Schur [syn. *A. capillaris* Host], v-a Mes T scap; L8, T9, H2, R3, N1; at: III (eurimed); hab: akp-V; liv-IV; kam-IV; kor-III; gro-II; UFO

Literature source: Rohlena 1902b: 25 (in incultis, pascuis et lapidosis regionis inferioris, ad Podgorica) & 1912: 128 (bei Podgorica); Černjavski *et al.* 1949:82 (Čemovsko polje); Bulić 1994:164 (Kuće Rakića, Čemovsko polje); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 127 (Dajbabska gora, Ržanički most, Tološka šuma, Tuški put).

*Aira caryophyllea* L. subsp. *plesiantha* (Jord.) K. Richt., v-a Mi T caesp; L11, T8, H3, R3, N1; at: VI (med-atl); hab: akp-III; liv-III; svp-I; kor-II; pas-I; UFO

Literature source: Hadžiablahović 2006: 96 (Dinoško polje).

*Alopecurus utriculatus* (L.) Pers., v-a Mes T caesp; L8, T7, H8, R7, N8; at: III (eurimed); hab: vli-V; liv-III; pas-III; zao-II; svp-II; gro-II; tra-II; put-I; pno-I; pst-I; dep-I; zar-I; UNE

Literature source: Rohlena 1902b: 22 (Podgorica); Bulić 1994:165 (Kuće Rakića).

*Anthoxanthum aristatum* Boiss., v-a Mes T caesp; L7, T8, H3, R3, N2; at: VI (med-atl); hab: liv-II; kor-II; sik-I; svp-I; UFO

Literature source: -

*Anthoxanthum odoratum* L., v-a Mes-Mac H caesp; Lx, Tx, Hx, R5, N3; at: V (euras); hab: liv-V; gro-V; pas-IV; kam-III; tra-III; svp-III; akp-II; zao-II; pkg-II; pst-II; dep-I; UNE

Literature source: Rohlena 1902b: 21 (circum Podgorica); Stešević 2002 (Gorica); Hadžiablahović 2010: 128 (Tološka šuma).

*Anthoxanthum ovatum* Lag., v-a Mes T caesp; L7, T8, H3, R3, N2; at: II (stenomed); hab: liv-I; akp-I; UFO

Literature source: Rohlena 1942: 487 (Farmaci, Podgorica).

*Arrhenatherum elatius* (L.) Beauv. ex J. C Presl, a Meg-Alt H caesp; L8, T5, H5, R7, N7; at: V (paleotemp); hab: liv-II; pot-II; slj-I; svp-I; UFO

Literature source: Rohlena 1942: 479 (Podgorica).

*Arundo donax* L., a-aut Alt G rhiz scap; L8, T9, H5, R5, N6; at: IX (ADV, AS); hab: slj-I; zap-I; UNE

Literature source: -

*Arundo plinii* Turra [syn. *A. pliniana* Turra], a-aut, Alt G rhiz; L11, T8, H4, R4, N2; at: II (stenomed); hab: svp-I

Literature source: -

*Avena barbata* Pott ex Link, v-a Mes-Meg T caesp; L8, T8, H3, R7, N2; at: IX (eurimed-turan); hab: liv-V; zap-V; zao-V; pas-V; tra-V; svp-V; gro-V; pst-IV; kam-IV; akp-III; dep-III; aop-III; pot-III; put-II; pkg-II; ulk-II; kro-I; zar-I; UNE

Literature source: Rohlena 1902b: 25 (in incultis, lapidosis et ad sepes regionis inferioris frequens, ad Podgorica); Hadžiablahović 2010: 126 (Dajbabska gora, Podgorica).

*Avena sativa* L., a Meg-Alt T caesp; L8, T7, H5, R6, N6; at: IX (ADV, kult, E); hab: svp-II; slj-I; zao-I  
Literature source: Rohlena 1912: 128 (Podgorica).

*Avena sterilis* L., v-a Mes-Meg T caesp; L8, T9, H3, R6, N4; at: IX (eurimed-turan); hab: svp-II; liv-I; zap-I; UFO

Literature source: Bulić 1994:163 (Kuće Rakića, Srpska).

*Avena sterilis* L. subsp. *ludoviciana* (Durieu) Nyman, v-a Mes-Meg T caesp; L0, T0, H0, R0, N0; at: IX (eurimed-turan); hab: svp-III; liv-III; zap-III; pko-III; nop-III; gro-II; slj-II; kam-II; pot-II; put-I; akp-I; UNE  
Literature source: Rohlena 1912: 128 (Mosori bei Podgorica) & 1942: 479 (Kokoti pr. Podgorica); Hadžiablahović 2010: 126 (Blok V).

*Brachypodium distachyon* (L.) Beauv., v-a Mi-Mes T scap; L11, T9, H1, R3, N2; at: IX (stenomed-turan); hab: akp-III; liv-III; kor-II; kam-II; gro-I; pas-II; UFO

Literature source: Rohlena 1912: 131 (bei Podgorica); Černjavski *et al.* 1949:83 (Ćemovsko polje); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 124 (Dahna, Dajbabska gora, Kuće Rakića, Ržanički most, Tološka šuma).

*Brachypodium pinnatum* (L.) Beauv., a Mes-Meg H caesp; L6, T5, H4, R7, N4; at: V (euras); hab: sik-III; kor-III; pas-II; pot-II; nop-II; kam-II; akp-II; liv-II; ziv-II; pno-II; zap-I; UFO

Literature source: Rohlena 1912: 131 (Podgorica); Bulić 1994:162 (Ćemovsko polje); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 124 (Kuće Rakića).

*Brachypodium sylvaticum* (Huds.) Beauv., a Mes-Mac H caesp; L4, T5, H5, R6, N6; at: V (paleotemp); hab: sik-II; pot-II; pas-II; svp-I; UFO

Literature source: Stešević 2002 (Gorica); Hadžiablahović 2010: 124 (Kuće Rakića).

*Briza maxima* L., v-a Mes T caesp; L8, T10, H2, R4, N1; at: IX (subcosm); hab: liv-IV; gro-III; kam-III; pas-II; akp-II; nop-II; kor-II; UFO

Literature source: Rohlena 1942: 463 (Podgorica); Bulić 1994:160 (Kuće Rakića, Srpska); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 122 (Dajbabska gora, Kuće Rakića, Tološka šuma).

*Briza media* L., a Mes H caesp; L6, Tx, Hx, Rx, N2; at: VIII (eurosib); hab: kam-V; liv-V; gro-V; akp-III; pas-III; sik-II; svp-II; tra-II; pst-I; nop-I; UNE

Literature source: Bulić 1994:160 (Kuće Rakića, Srpska); Stešević 2002: 28 (Gorica).

*Briza minor* L., a Mi-Mes T caesp; L8, T9, H2, R4, N1; at: IX (cosm); hab: kam-III; akp-II; liv-I; pas-I; svp-I; UFO

Literature source: -

(-) *Bromus arvensis* L., v-a Mes-Mac T caesp; L6, Tx, H4, R8, N0; at: VIII (eurosib)

Literature source: Rohlena 1942: 455 (Podgorica); Bulić 1994:161 (Kuće Rakića, Srpska); Hadžiablahović 2010: 123 (KBC).

*Bromus commutatus* Schrad., v-a Mac-Meg T scap; L8, T5, H3, R8, N3; at: V (europ); hab: liv-V; akp-III; gro-III; svp-II; tra-II; kro-II; kam-II; pst-I; UFO

Literature source: Rohlena 1902b: 32 (ad Podgorica frequens); Bulić 1994:162 (Kuće Rakića, Ćemovsko polje).

*Bromus diandrus* Roth., v-a Mac T scap; L8, T8, H3, R5, N4; at: III (eurimed); hab: zap-III; svp-III; pno-II; dep-II; pko-I; nop-I; akp-I; pot-II; UNE

Literature source: -

*Bromus hordeaceus* L. [syn. *B. mollis* L., incl. *B. hordeaceus* L. subsp. *molliformis* (Lloyd) Maire (syn. *B. molliformis* Lloyd)], v-a Mes-Mag T caesp; L7, T6, Hx, Rx, Nx; at: IX (cosm); hab: liv-V; zao-V; zap-V; gro-V; pas-V; svp-V; akp-IV; pko-IV; tra-IV; kam-IV; dep-III; pst-II; kro-II; UNE

Literature source: Rohlena 1902b: 32 (ad Podgorica frequens); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 123 (Dajbabska gora).

*Bromus intermedius* Guss., v-a Mes-Meg T scap; L7, T7, H3, R5, N3; at: III (eurimed); hab: liv-III; akp-II; svp-II; tra-II; UNE

Literature source: -

*Bromus japonicus* Thunb., v-a Mes-Mac T caesp; L7, T7, H3, R5, N3; at: V (paleotemp); hab: liv-III; svp-II; nop-II; kro-II; tra-II; kam-I; UNE

Literature source: -

*Bromus madritensis* L., v-a Mes-Mac T caesp; L8, T7, H3, Rx, N1; at: III (eurimed); hab: akp-V; liv-V; kam-V; gro-V; zap-V; tra-V; svp-V; dep-IV; pst-IV; kro-III; put-II; gaz-II; nop-II; UNE

Literature source: Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 123 (Dajbabska gora, Ržanički most, Tološka šuma, Tuški put).

*Bromus pannonicus* Kumm. & Sendtn., v-a Mes-Meg H rept caesp; L8, T5, H3, R8, N3; at: V (s.eu); hab: liv-III; kam-III; kor-II; pot-II; pas-II; sik-II; UFO

Literature source: Rohlena 1942: 454 (Podgorica); Hadžiablahović 2010: 123 (Dajbabska gora).

*Bromus racemosus* L., v-a Mes T scap; L6, T6, H8, R5, N5; at: V (euro-kavk); hab: vli-IV; kro-I; svp-I; UFO

Literature source: -

*Bromus rigidus* Roth. [syn. *B. villosus* Forsk.], v-a Mac T caesp; L8, T8, H4, R6, N5; at: III (eurimed); hab: zap-V; gro-IV, svp-IV; tra-III; liv-III; nop-III; pst-III; akp-II; dep-II; kam-II; ulk-I; zar-I; UNE

Literature source: Rohlena 1942: 455 (Podgorica); Stešević 2002: 28 (Gorica); Hadžiablahović 2010: 124 (Sastavci, KBC).

*Bromus scoparius* L., v-a Mes T scap; L11, T9, H2, R6, N2; at: II (stenomed); hab: akp-I; svp-I; liv-I; UFO

Literature source: -

*Bromus secalinus* L., v-a Mac T scap; L6, Tx, Hx, Rx, Nx; at: VIII (eurosib); hab: zao-II; liv-I; vli-I; UFO

Literature source: Hadžiablahović 2010: 124 (Podgorica).

*Bromus squarrosus* L., v-a Mes-Mac T scap; L8, T9, H2, R4, N2; at: V (paleotemp); hab: akp-II; liv-II; kor-II; kam-II; sik-I; svp-I; UFO

Literature source: Rohlena 1902b: 32 (ad Podgorica); Černjavski *et al.* 1949: 83 (Ćemovsko polje); Hadžiablahović 2010: 124 (Dajbabska gora, Kuće Rakića, Tuški put).

*Bromus sterilis* L., v-a Mes-Mac T caesp; L7, T7, H4, Rx, N5; at: IX (eurimed-turan); hab: zap-V; svp-V; pas-IV; akp-III; dep-IV; tra-IV; liv-IV; gaz-III; pkg-III; put-III; kam-III; nop-III; sik-II; pst-II; kro-II; pko-II; ulk-II; slj-I; zid-I; UNE

Literature source: Rohlena 1942: 455 (Podgorica); Bulić 1994: 161 (Kuče Rakića, Srpska, Ćemovsko polje); Stešević 2002 (Gorica); Hadžiablahović 2010: 124 (Dajbabska gora, Tološka šuma, Tuški put)

*Bromus tectorum* L., v-a Mes T caesp; L8, T6, H3, R8, N4; at: V (paleotemp); hab: nop-II; svp-II; akp-I; gro-I; UNE

Literature source: -

*Chrysopogon gryllus* (L.) Trin. [syn. *Andropogon gryllus* L.], a Meg-Alt H caesp; L9, T7, H3, R7, N3; at: V (s.euro-s.sib); hab: liv-III; kam-II; kor-II; akp-II; tra-I; UFO

Literature source: Rohlena 1902b: 20 (in campo Podgorica) & 1942: 490 (Podgorica, Kokoti); Bulić 1994: 167 (Kuče Rakića, Srpska); Hadžiablahović 2010: 132 (Ržanički most, Tološka šuma).

*Cleistogenes serotina* (L.) Keng [syn. *Diplachne serotina* (L.) Link], a-aut Meg H caesp; L8, T7, H4, R8, N2; at: V (med-s.sib); hab: kam-III; liv-III; akp-III; gaz-II; kor-III; tra-II; pot-II; nop-I; pko-I; UNE

Literature source: Stešević 2002: 29 (Gorica).

*Cynodon dactylon* (L.) Pers., a-aut Mes G rhiz rept-caesp; L8, T8, H4, Rx, N4; at: IX (ADV, cosm, AS-AF); hab: gaz-V; dep-V; gro-V; put-V; zap-V; pkg-V; pas-V; tra-V; ulk-V; svp-V; zao-IV; akp-III; kro-III; nop-III; pst-III; pno-III; slj-III; liv-II; zar-I; UNE

Literature source: Rohlena 1912: 123 (um Podgorica nicht häufig); Bulić 1994:167 (Kuče Rakića, Ćemovsko polje).

*Cynosurus cristatus* L., v-a Mes-Mac H caesp; L8, T5, H5, R5, N4; at: V (euro-kavk); hab: vli-III; liv-II; pot-II; pno-I; UFO

Literature source: -

*Cynosurus echinatus* L., a Mes T scap; L11, T9, H2, R4, N2; at: III (eurimed); hab: liv-V; kam-V; gro-IV; akp-III; svp-III; tra-II; kor-II; pas-II; nop-I; UFO

Literature source: Rohlena 1942: 464 (Podgorica); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 122 (Podgorica).

*Dasypyrum villosum* (L.) P. Candargy [syn. *Haynaldia villosa* (L.) Schur., *Triticum villosum* (L.) M. Bieb.], v-a Mes-Meg T caesp; L8, T10, H2, R4, N2; at: IX (eurimed-turan); hab: liv-V; svp-V, gro-V; kam-IV; pas-IV; tra-IV; svp-V; akp-III; zao-III; pot-III; dep-II; put-II; kam-II; slj-II; nop-I; UNE

Literature source: Rohlena 1912: 133 (auf dürren und steinigen Stellen bei Podgorica); Bulić 1994:163 (Kuće Rakića, Srpska); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 124 (Dajbabska gora, Ržanički most, Tološka šuma, Tuški put).

*Dactylis glomerata* L. subsp. *glomerata* s.l., a Mac-Meg H caesp; L7, T6, H4, R5, N6; at: V (paleotemp); hab: liv-V; zao-V; zap-V; gro-V; pas-V; tra-V; svp-V; kam-IV; pst-III; akp-III; dep-III; pot-III; put-II; pkg-II; pno-II; pot-II; ulk-II; slj-II; nop-II; zar-I, zid-I; pko-I; UNE

Literature source: Bulić 1994:166 (Kuće Rakića); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 121 (Kuće Rakića, Podgorica).

*Dactylis glomerata* L. subsp. *aschersoniana* (Graebn.) Thell. [syn. *D. polygama*], a Meg H caesp; L0, T0, H0, R0, N0; at: V (c.euro); hab: pot-I; sik-I; UFO

Literature source: -

*Dactylis glomerata* L. subsp. *hispanica* (Roth.) Nyman., a Mes-Mac H caesp; L11, T8, K4, H2, R5, N2; at: III (eurimed); UNE

Literature source: Rohlena 1912 (Podgorica).

*Danthoniastrum compactum* (Boiss. & Heldr.) J. Holub [syn. *Avena compacta* Boiss. & Heldr.]; v-a Meg H caesp; L0, T0, H0, R0, N0; at: VII (orof. se.euro-kavk); hab: kor-I; pot-I; UFO

Literature source: Rohlena 1902b: 26 (in rupibus riparum fluvii Morača supra Podgorica); Bulić 1994: 164 (Kuće Rakića).

*Desmazeria rigida* (L.) Tutin [syn. *Scleropoa rigida* (L.) Griseb., *Catapodium rigidum* (L.) Hubbard], v-a Mi-Mes T caesp; L8 T8, H2, R5, N4; at: III (eurimed); hab: kam-V; akp-IV; gaz-IV; gro-IV; kor-III; kro-III; liv-III; pko-III; svp-III; slj-II; pot-II; tra-II; nop-II; UNE

Literature source: Rohlena 1902b: 31 (ad Podgorica frequens); Bulić 1994:159 (Kuće Rakića); Hadžiablahović 2010: 120 (Dajbabska gora, Kuće Rakića, Ržanički most, Tološka šuma).

*Dichanthium ischaemum* (L.) Roberty [syn. *Andropogon ischaemum* L., *Botriochloa ischaemum* (L.) Keng.], a-aut Mes-Mac H caesp; L9, T7, H3, R8, N3; at: IX (cosm); hab: liv-V; kam-V; gro-V; dep-V; zap-V; zao-V; pas-V; pst-IV; kor-V; svp-V; akp-V; nop-IV; tra-IV; put-III; pkg-III; sik-II; ulk-II; kro-I; UNE

Literature source: Horak 1898 (Podgorica); Rohlena 1902b: 20 (in graminosis campi Podgoricensis) & 1942: 490 (Podgorica); Hadžiablahović 2010: 132 (Tuški put).

*Digitaria sanguinalis* (L.) Scop., a-aut Mes T caesp; L7, T7, H3, R6, N4; at: IX (cosm); hab: svp-IV; zap-IV; pst-IV; put-III; ulk-III; tra-III; pas-III; nop-II; kro-II, zar-II; UNE

Literature source: Bulić 1994:167 (Kuće Rakića, Srpska); Hadžiablahović 2010: 120 (Kuće Rakića).

*Echinochloa crus-galli* (L.) P. Beauv., a-aut Meg-Alt T caesp; L6, T7, H7, Rx, N8; at: IX (cosm); hab: zao-V; zap-IV; gro-III; svp-III; tra-III; slj-III; pst-II; zar-II; pas-II; nop-II; pno-II; gaz-II; akp-I; liv-I; UNE

Literature source: Stešević 2002 (Gorica); Hadžiablahović 2010: 131 (Blok V, Dajbabe).

*Eleusine indica* (L.) Gaertn., a-aut Mes-Mac T caesp; L11, T8, H2, R7, N2; at: IX (ADV, AFR); hab: gro-V; gaz-IV; put-IV; zap-IV; tra-IV; ulk-IV; svp-III; dep-III; pst-III; slj-II; kam-II; kro-I; zar-I; UFI

Literature source: Hadžiablahović 2010: 131 (Stara Varoš).

*Eleusine tristachya* (Lam.) Lam., a-aut Mi-Mes T caesp; L0, T0, H0, R0, N0; at: IX (ADV, AMS); hab: gaz-III; zap-II; svp-II; gro-II; tra-II; liv-II; pas-I; pkg-I; UFI

Literature source: Greuter & Raus 1998: 171 (ruderal vegetation along the road Bioče-Podgorica, limestone D. Lakušić, B. Lakušić 1526-94 BEOU); Hadžiablahović 2004: 12 (Blok V); Lakušić *et al.* 2004: 39 (ruderal habitats in Podgorica).

*Elymus caninus* (L.) L. [syn. *Agropyron caninum* (L.) Beauv.], v Mac-Alt H caesp; L5, T4, H6, R7, N8; at: VIII (circumbor); hab: slj-III; kor-I; pls-I; UFO

Literature source: -

*Elymus hispidus* (Opiz) Meldris [syn. *Triticum intermedium* Host, *Agropyron intermedium* (Host) Beauv.], v-a Mes-Meg G rhiz caesp; L7, T7, H3, R8, N0; at: V (s.euro-s.sib); hab: liv-III; slj-III; pko-II; svp-II; kor-II; sik-II; ziv-I, pas-I; UNE

Literature source: Rohlena 1902b: 34 (in graminosis regionis inferioris frequens, Podgorica c. 30m); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 125 (Kuće Rakića).

*Elymus hispidus* (Opiz) Meldris subsp. *barbulatus* (Schur) Melderis [syn. *Agropyron intermedium* var. *villosum* (Sadl.) Hay], v-a Mes-Meg G rhiz caesp; L0, T0, H0, R0, N0; at: V (s.euro-s.sib); hab: liv-I;

Literature source: Rohlena 1942: 458 (Podgorica); Hadžiablahović 2010: 125 (Farmaci).

*Elymus repens* (L.) Gould [syn. *Agropyron repens* (L.) Beauv.], v-a Mes-Meg G rhiz caesp; L7, Tx, H5, Rx, N8; at: IX (cosm); hab: liv-IV; zao-IV; pas-III, gaz-II; tra-III; svp-III; pst-II; nop-I; pkg-I; kam-I; UNE

Literature source: Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 125 (Ljubović).

*Eragrostis barilieri* Daveau., a-aut Mes T caesp; L8, T8, H4, R6, N3; at: III (eurimed); hab: put-III; kor-II; tra-II; svp-II; kro-II; UFI

Literature source: -

*Eragrostis cilianensis* (All.) F.T. Hubbard [syn. *E. megastachya* (Koeler) Link], v-aut Mi-Mes T caesp; L8, T8, H3, R6, N3; at: IX (ADV, kosm, ASAF & AMS); hab: liv-III; akp-III; zap-II; nop-II; tra-II; gro-II; svp-II, pas-II, kam-I, pst-I; put-I; UNE

Literature source: Bulić 1994: 166 (Kuće Rakića, Čemovsko polje, Srpska).

*Eragrostis minor* Host, a-aut Mes-Meg T caesp; L8, T8, H3, R6, N2; at: IX (cosm); hab: tra-III; gro-III; put-III; svp-III; gaz-III; liv-III; kam-II; kor-II; kro-II; akp-II; zap-II; UNE

Literature source: Bulić 1994:166 (Kuće Rakića, Srpska); Hadžiablahović 2010: 130 (Kuće Rakića).

*Eragrostis pilosa* (L.) Beauv., a-aut Mes T caesp; L8, T8, H3, R6, N2; at: IX (cosm); hab: akp-II; nop-II; gaz-II; svp-II; put-II; zap-II; pko-II; kor-I; tra-I; pst-I, nop-I; UNE

Literature source: Rohlena 1942: 462 (circa Podgorica); Hadžiablahović 2010: 130 (Blok V).

*Festuca arundinacea* Schreb., a Meg H caesp; L9, T8, H6, R8, N6; at: V (paleotemp); hab: vli-II; pls-II; zap-I; pas-I; tra-I; svp-I; pno-I; slj-I; UNE

Literature source: -

*Festuca pratensis* Huds. [syn. *F. elatior* L. subsp. *pratensis* (Hudson) Hackel], a Mes-Mac H caesp; L8, T6, H5, R5, N6; at: V (euras); hab: liv-III; kor-II; kam-I; zap-I; UNE

Literature source: Rohlena 1902b: 30 (in pratis ad Podgorica frequens); Bulić 1994:158 (Srpska); Hadžiablahović 2010: 119 (Čepurci).

*Festuca rupicola* Heuff. [syn. *F. sulcata* (Hack.) Nyman], a Mes-Mac H caesp; L8, T2, H4, R2, N1; at: V (s.eu); hab: kam-IV; akp-III; kor-IV; pot-II; zid-I; put-I; UFO

Literature source: Rohlena 1942: 469 (frequens); Bulić 1994:158 (Čemovsko polje, Kuće Rakića); Hadžiablahović 2010: 119 (Dajbabska gora, Ržanički most).

*Festuca valesiaca* Schleic. ex Gaudin, a Mes H caesp; L8, T6, H3, R6, N2; at: V (se.euro-s.sib); hab: kor-II; kam-I; pot-I; UFO

Literature source: Stešević 2002 (Gorica).

*Gastridium ventricosum* (Gouan) Schinz & Thell., a Mi-Mes T scap; L8, T9, H2, R4, N2; at: III (eurimed); hab: liv-II; svp-II; kro-I; pas-I; akp-I; UFO

Literature source: Rohlena 1937: 9 (in campo ad Podgorica); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 128 (Ržanički most, Tuški put).

*Gaudinia fragilis* (L.) Beauv., v-a Mes-Mac T scap; L8, T8, H3, R5, N3; at: III (eurimed); hab: liv-II; vli-II; svp-I; UFO

Literature source: -

*Glyceria fluitans* (L.) R.Br., a Alt Hyd G emer rhiz; L7 T6, H9, R5, N5; at: IX (cosm); hab: kan; UFO

Literature source: -

*Hainardia cylindrica* (Willd.) Greuter [syn. *Lepturus cylindricus* (Willd.) Tin., *Monerma cylindrica* Cosson et Dur.], v-a Mi-Mes T scap; L8, T9, H2, R5, N2; at: III (eurimed); hab: akp-III; UFO  
Literature source: Rohlena 1902b: 33 (in pascuis planitei Podgoricensis); Hadžiablahović 2010: 129 (Dajbabe, Ržanički most).

*Holcus lanatus* L., a Meg H caesp; L7, T5, H6, Rx, N4; at: VIII (circumbor); hab: liv-II; vli-II; UFO  
Literature source: -

*Hordeum bulbosum* L., v-a Meg-Alt H caesp; L8, T10, H4, R5, N4; at: III (eurimed); hab: liv-III; ziv-I; svp-I; UFO

Literature source: Rohlena 1902b: 35 (Kokoti et Podgorica); Bulić 1994:163 (Kuće Rakića, Srpska); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 126 (Dahna).

*Hordeum distichon* L., a Meg-Alt T scap; L0, T0, H0, R0, N0; at: IX (ADV, AS); hab: liv-I; dep-I; UFO  
Literature source: -

*Hordeum hystrix* Roth., a Mes T scap; L11, T9, H2, R6, N2; at: II (stenomed); hab: liv-I; UFO  
Literature source: -

*Hordeum murinum* L. subsp. *leporinum* (Link) Arcang., v-a Mes-Meg T caesp; L9, T9, H3, R5, N3; at: III (eurimed); hab: tra-V; liv-V; gro-V; pas-V; kam-IV; zao-V; zap-V; pst-V; svp-V; kro-III; nop-III; akp-II; dep-II; put-III; pkg-II; dep-II; zar-II; UNE

Literature source: Rohlena 1912: 133 (um Podgorica); Hadžiablahović 2010: 126 (Kuće Rakića, Ržanički most, Tološka šuma).

*Lagurus ovatus* L., a Mi-Mes T scap; L8, T9, H3, Rx, N2; at: III (eurimed); hab: pas-I; kro-I; UFO  
Literature source: Hadžiablahović 2010: 127 (Tološka šuma).

*Lolium multiflorum* Lam. [syn. *Lolium siculum* Parl.], a Mes-Mac H caesp; L7, T7, H4, Rx, N6; at: III (eurimed); hab: zao-III; liv-III; svp-III; gaz-II; gro-II; put-I; UNE

Literature source: Rohlena 1942: 473 (Podgorica); Bulić 1994:158 (Kuće Rakića, Srpska); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 119 (Čepurci, Kuće Rakića, Tološka šuma).

*Lolium perenne* L., v-aut Mes H caesp; L8, T5, H5, Rx, N7; at: IX (cosm); hab: liv-V; zao-V; zap-V; gro-V; pas-V; tra-V; svp-V; gaz-IV; nop-III; pst-III; akp-II; kam-II; dep-II; put-II; pkg-II; pno-II; pot-II; ulk-II; slj-II; zar-I, pko-I; UNE

Literature source: Rohlena 1942: 473 (Farmaki pr. Podgorica); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 125 (Kuće Rakića).

*Lolium rigidum* Gaudin subsp. *rigidum*, a Mi-Mes T scap; L8, T8, H3, R4, N2; at: IX (paleosubtrop); hab: akp-II; liv-II; gaz-II; svp-II; pkg-I; UNE

Literature source: -

*Lolium rigidum* Gaudin subsp. *lepturoides* (Boiss.) Sennen & Mauricio [syn. *L. loliaceum* (Bory et Chaub.) Hand-Mazz., *L. subulatum* Vis.], v-a Mi-Mes T scap; L8, T8, H5, R6, N5; at: III (eurimed); hab: gaz-II; pko-I; put-I, UNE

Literature source: Rohlena 1912: 133 (uf steinigen und durren Stellen bei Podgorica).

*Lolium temulentum* L., v-a Mi-Mes T scap; L7, T7, H4, R8, Nx; at: IX (cosm); hab: zao-I; liv-I; pko-I; put-I; svp-I; UFO

Literature source: Rohlena 1902b: 33 (inter segetes ad Podgorica- frequens); Bulić 1994:158 (Kuće Rakića, Srpska).

*Lophochloa cristata* (L.) Hyl. [syn. *Koeleria phleoides* (Vill.) Pers.], v-a Mi-Mes T caesp; L7, T5, H6, R8, N2; at: IX (cosm); hab: kam-IV; liv-IV; pas-III; akp-III; gro-III; kro-III; kor-III; tra-III; svp-III; gaz-II; pst-I; UNE

Literature source: Rohlena 1902b: 27 (in arvis incultis et inundatis regionis inferioris, Podgorica); Šmarda 1968: 67 (Titovgrad- Morača canyon); Bulić 1994:164 (Kuće Rakića); Hadžiablahović 2010: 126 (Kuće Rakića, Ržanički most, Tološka šuma).



*Koeleria pyramidata* (Lam.) Beauv. [syn. *K. cristata* (L.) Pers.], a Mes H caesp; L8, T6, H5, R5, N3; at: V (n.c.eu); hab: kam-III; kor-III; liv-III; akp-II; sik- II; pot-II; svp-II; nop-II; UFO

Literature source: -

*Koeleria splendens* C. Presl., a Mes H caesp; L11, T7, H3, R7, N1; at: IV (med-mont); hab: kam-IV; kor-IV; akp-II; pot-II; UFO

Literature source: Rohlena 1902b: 27 (in locis aridis in campo Lješkopolje et in planitie Podgoricensi); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 126 (Dajbabska gora, Ržanički most).

*Melica ciliata* L., a Mes-Meg H caesp; L8, T7, H2, R7, N2; at: IX (eurimed-turan); hab: kam-IV; akp-II; kor-II; nop-II; pot-II; liv-I; tra-I; UFO

Literature source: Rohlena 1912: 129 (Podgorica); Bulić 1994:161 (Kuće Rakića, Srpska).

*Melica transsilvanica* Schur, a Mes-Meg H caesp; L8, T8, H2, R6, N1; at: V (se.euro-s.sib); hab: kam-V; nop-III; kor-III; akp-II; gro-II; pot-II; pko-II; svp-II; liv-II; slj-I; UFO

Literature source: Hadžiablahović 2010: 122 (Tuški put).

*Panicum capillare* L., a Mes T scap; L6, T8, H3, R4, N3; at: IX (ADV, AMN); hab: pkg-I; pot-I; UFI

Literature source: Stešević & Jovanović 2005: 72 (Podgorica).

*Panicum miliaceum* L., a Mes-Alt T scap; L6, T7, H4, R7, N3; at: IX (ADV, AS); hab: put-I; tra-I; slj-I; svp-I; UFI

Literature source: Rohlena 1942: 489 (in agris cultis et non raro subspontaneum).

(-) *Parvotrisetum myrianthum* (Bertol.) Chrtek [syn. *Trisetum myrianthum* (Bertol.) Parl.], v-a Mes T caesp; L8, T7, H4, R4, N2; at: III (eurimed)

Literature source: Rohlena 1902b: 25 (in arenosis, lapidosis et ad vias regionis inferioris in campo Lješkopolje ad Farmaki, in planitie Podgoricensis).

*Paspalum dilatatum* Poiret, a Mes-Meg H caesp; Lx, T8, H10, R8, N8; at: IX (ADV, AMS); hab: tra-I; pno-I; UFI

Literature source: -

*Paspalum paspalodes* (Michx.) Scribn., a Mes-Mac G rhiz rept-caesp; Lx, T8, H10, R8, N8; at: IX (ADV, AMC, AMS); hab: tra-IV; ulk-III; svp-II; pst-I; zar-I; UFI

Literature source: Hadžiablahović 2010: 131 (Sportski centar).

(-) *Phleum montanum* C. Koch. [syn. *P. serrulatum* B.H.], a Mes G rhiz caesp; L0, T0, H0, R0, N0; at: VII (orof. S.eu); hab: kam; UFO

Literature source: Rohlena 1912: 124 (an Hügeln bei Podgorica).

*Phleum pratense* L. subsp. *bertoloni* (DC.) Bornm. [syn. *P. pratense* var. *nodosum*, *P. bertoloni* DC.], v Mes-Meg H caesp; L7, T6, H5, R6, N6; at: III (eurimed); hab: liv-II, UFO

Literature source: Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 129 (Tuški put).

(-) *Phleum phleoides* (L.) Karst., a Mes-Meg H caesp; L8, T5, H2, R8, N0; at: VIII (eurosib); hab: kam; UFO

Literature source: Rohlena 1942: 485 (in collibus siccis ad Podgorica).

*Phalaris aquatica* L. [syn. *P. bulbosa* auct. non L., *P. nodosa* L., *P. tuberosa* L.], v Alt H caesp; L7, T7, H4, R6, N4; at: III (med-makar); hab: vli-I; liv-I; ziv-I; UFO

Literature source: -

*Phragmites australis* (Cav.) Trin. & Steudel, rhiz emer HydG; L7, T5, H10, R7, N5; at: IX (cosm); hab: pls-V; kro-I; svp-I; UFO

Literature source: Bulić 1994: 166 (Srpska); Hadžiablahović 2010: 129 (Dajbabe).

*Piptatherum miliaceum* (L.) Coss. [syn. *Oryzopsis miliacea* (L.) Bentham & Hooker ex Ascherson & Graebner], a-aut Mes-Meg H caesp; L5, T7, H4, R7, N5; at: IX (stenomed-turan); hab: zap-V; svp-V; gro-V; pas-IV; sik-III; pot-III; slj-III; pst-III; tra-III; pno-III; nop-II; dep-II; UNE

Literature source: Rohlena 1902b: 22 (in lapidosis circum Podgorica); Hadžiablahović 2010: 129 (Kuće Rakića, Tološka šuma).

*Poa angustifolia* L. [syn. *P. pratensis* L. subsp. *angustifolia* (L.) Gaudin], a Mes H caesp; L0, T0, H0, R0, N0; at: V (euras); hab: liv-IV; akp-III; gro-III; pas-II; svp-II; kam-II; nop-II; pot-II; tra-II; put-I; UNE

Literature source: -

*Poa annua* L., n (II)-v-aut N-Mes T caesp; L7, Tx, H6, Rx, N8; at: IX (cosm); hab: liv-V; kam-V; gro-V; tra-V; gaz-V; pas-V; zap-IV; pst-IV; put-III; kam-II; kor-II; kro-II; pno-II; dep-II; akp-I; zar-I, UNE

Literature source: Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 120 (Kuće Rakića, Tološka šuma).

*Poa bulbosa* L., a Mes H caesp; L8, T8, H2, R4, N1; at: V (paleotemp); hab: liv-V; kam-V; tra-V; gro-V; pas-V; gaz-IV; kor-III; akp-III; zap-III; svp-III; pst-II; pno-II; put-I; zid-I; kro-I; UNE

Literature source: Bulić 1994:159 (Kuće Rakića, Čemovsko polje); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 121 (Dajbabe, Kuće Rakića, Podgorica).

*Poa compressa* L., a Mes H caesp; L9, Tx, H2, R9, N2; at: VIII (circumbor); hab: nop-I; pko-I; zid-I; svp-I; UNE

Literature source: -

(-) *Poa nemoralis* L., a Mes-Mac H caesp; L5, Tx, H5, R5, N3; at: VIII (circumbor); hab: pas- I

Literature source: Rohlena 1902b: 29 (in campo Podgoricensis c. 30m).

*Poa palustris* L., a Mes-Mac H caesp; L7, Tx, H9, R8, N7; at: VIII (circumbor); hab: vli-II; zar-I; pls-I; pno-I; UFO

Literature source: -

*Poa perconcinna* J.R. Edm. [syn. *P. bulbosa* subsp. *concinna* (Gaudin) Hayek], a Mes H caesp; L0, T0, H0, R0, N0; at: I (balk-ilir+c.alp); hab: akp-V; kam-V; liv-V; gro-IV; kor-III; tra-III; nop-II; svp-II; put-I; UNE

Literature source: Černjavski *et al.* 1949:83 (Titograd, Čemovsko polje).

*Poa pratensis* L. [syn. *Poa attica* Boiss. & Heldr.], a Mes-Mac H caesp; L6, Tx, H5, Rx, Nx; at: VIII (circumbor); hab: liv-V; gro-V; zap-IV; svp- III; sik-III; zao-III, pst-III; tra-III; akp-II; gaz-II; put-I; pno-I; UNE

Literature source: Rohlena 1902b: 29 (in arenosis maritimis, incultis, et rudertis regionis inferioris frequens, Podgorica); Bulić 1994:159 (Kuće Rakića, Srpska).

*Poa trivialis* L subsp. *sylvicola* (Guss.) H. Lindb. [syn. *Poa sylvicola* Guss.], a Mes-Meg H caesp; L3, T5, H5, R4, N6; at: III (eurimed); hab: gro-V; zap-IV; pst-IV; tra-IV; pas-III; svp-IV; liv-III; pot-III; sik-III; zao-III; vli-III; pkg-II; pno-II; put-I; zar-I; UNE

Literature source: Rohlena 1942: 467 (Podgorica); Hadžiablahović 2010: 121 (Dahna, Kuće Rakića, Tološka šuma).

*Polypogon monspeliensis* (L.) Desf., a Mes-Mac T scap; L8, T8, H9, R8, N6; at: IX (paleosubtrop); hab: svp-I; UFO

Literature source: -

*Polypogon viridis* (Gouan) Breistr. [syn. *Agrostis verticillata* Vill.], a Mes-Meg H caesp; L8, T8, H8, R9, N6; at: IX (paleosubtrop); hab: liv-I; kro-I, UNE

Literature source: -

*Psilurus incurvus* (Gouan) Schinz & Thell. [syn. *P. aristatus* (L.) Duval-Jouve], v Mes T scap; L11, T9, H2, R3, N1; at: III (eurimed); hab: akp-III; kor-II; liv-I,UFO

Literature source: Rohlena 1902b: 33 (in incultis, inundatis et arenosis regionis inferioris, in campo podgoricensi) & 1942: 473 (Kokoti, Podgorica); Černjavski *et al.* 1949:83 (Čemovsko polje); Bulić 1994:160 (Čemovsko polje); Hadžiablahović 2010: 122 (Podgorica).

*Puccinellia distans* (L.) Parl. [syn. *Glyceria distans* (L.) Wahlenb.], a Mes-Mac H caesp; L8, Tx, H6, R7, N7; at: V (paleotemp); hab: liv-I; pst-I; kro-I; UFO

Literature source: -

*Saccharum strictum* (Host) Spreng. [syn *Erianthus hostii* Griseb.], a-aut Alt H caesp; L9, T8, H7, R8, N6; at: V (s.euro-w.as); hab: vli-I; kam-I; liv-I; UFO

Literature source: Rohlena 1902b: 20 (in fossa secus viam e Podgorica ad Spuž) & 1912: 122 (steiniger und buschiger Hügeln bei Podgorica).

*Sclerochloa dura* (L.) Beauv., v N-Mi T caesp; L8, T8, H2, R5, N2; at: III (eurimed); hab: gaz-II; put-I; kro-I; UNE

Literature source: Rohlena 1912: 130 (um Podgorica nicht häufig).

*Secale cereale* L., a-Alt T scap; L8, T8, H5, R5, N5; at: IX (ADV, kult, AS); hab: liv-I; svp-I; nop-I; pko-I; slj-I; UFO

Literature source: Rohlena 1942: 460 (subspont.).

*Sesleria autumnalis* (Scop.) F. W. Schultz., a Mes-Mac H caesp; L3, T5, H5, R6, N7; at: V (s.eu); hab: sik-II; kor-III; kam-III; pot-II; svp-I; UFO

Literature source: Rohlena 1942: 460 (frequens).

*Sesleria robusta* Schott., Nyman & Kotschy [syn. *S. nitida* auct. Bal., non Ten.], a Mes-Meg H caesp; L0, T0, H0, R0, N0; at: I (ilir); hab: kor-II; pot-I; UFO

Literature source: Šmarda 1968: 107 (Titovgrad- Morača canyon).

*Setaria ambigua* Guss. [syn. *S. decipiens* Schimper, *S. verticillata* × *viridis*], a-aut Mac-Meg T caesp; L7, T7, H4, R7, N8; at: IX (cosm); hab: zap-II; zar-II; svp-II; tra-II; slj-II, pko-I, UFI

Literature source: Stešević 2007: 153 (Podgorica).

*Setaria pumila* (L.) Beauv. [syn. *S. glauca* (L.) Beauv. *S. lutescens* (Struntz) Hubbard], a-aut Mes-Mac T caesp; L7, T7, H4, R5, N6; at: IX (cosm); hab: nop-II; zap-II; svp-II; pno-I; pot-I; UNE

Literature source: Rohlena 1942: 489 (Podgorica).

*Setaria verticillata* (L.) Beauv., a-aut Mes-Mac T caesp; L7, T8, H4, Rx, N8; at: IX (cosm); hab: dep-I; nop-II; svp-II; tra-II; zao-I; slj-I; gro-I; pas-I; UNE

Literature source: Rohlena 1942: 489 (Podgorica); Hadžiablahović 2010: 131 (Kuće Rakića).

*Setaria viridis* (L.) Beauv. subsp. *viridis* [syn. *Panicum viride* L.], v-aut Mes-Mac T caesp; L7, T6, H4, Rx, N7; at: IX (cosm); hab: tra-V; svp-V; pas-V; pkg-V; ulk-V; zap-V; zao-V; pst-IV; slj-IV; pko-III; liv-III; gaz-III; put-III; kro-II. Akp-II; nop-II, zar-I; UNE

Literature source: Rohlena 1902b: 21 (in cultis planitie Podgoricensis c. 30m) & 1942: 489 (Podgorica); Hadžiablahović 2010: 121 (Kuće Rakića, Ljubović).

*Setaria viridis* (L.) P. Beauv subsp. *pyncocoma* (Steud.) Tzvelev [syn. *S. pyncocoma* (Steud.) Nakai, *S. italica* (L.) P. Beauv. subsp. *pyncocoma* (Steud.) de Wet, *Panicum pyncocomum* Steud.], a Mac-Meg T scap; L0, T0, H0, Rx, N0; at: IX (ADV, ?); hab: svp-I; slj-I

Literature source: -

*Sorghum halepense* (L.) Pers., a-aut Meg-Alt G rhiz caesp; L8, T8, H7, R8, N8; at: IX (ADV, kosm, EAS); hab: svp-V; zap-V; zao-V; gro-V; pas-IV; dep-IV; akp-III; liv-III; nop-III; pst-II; UNE

Literature source: Rohlena 1942: 490 (Podgorica); Bulić 1994:167 (Kuće Rakića, Srpska); Hadžiablahović 2010: 132 (Kuće Rakića, Tološka šuma).

*Sporobolus indicus* (L.) R. Br., a-aut Mac-Meg H caesp; L7, T8, H4, R5, N2; at: IX (ADV, AMN); hab: tra-V; svp-III; pas-III; put-III; gro-II; nop-II; kro-II; UFI

Literature source: Hadžiablahović 2004: 12 (city center, Blok V).

*Sporobolus vaginiflorus* (Torrey) Wood, aut Mes-Mac T caesp; L7, T8, H4, R5, N2; at: IX (ADV AMN); hab: put-II; tra-II; UFI

Literature source: Stešević 2006: 174 (Podgorica).

*Stipa bromoides* (L.) Dörf. [syn. *S. aristela* L.], a Mac-Meg H caesp; L11, T9, H1, R8, N1; at: II (stenomed); hab: kam-IV; kor-II; pas-II; akp-II; UFO

Literature source: Rohlena 1902b: 22 (in saxosis, fruticetis, vineis ad Kokoti et Podgorica); Bulić 1994:165 (Kuće Rakića); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 129 (Blok V, Tološka šuma).

*Stipa pulcherrima* C. Koch. [syn. *S. pennata* L. subsp. *mediterranea* (Trin. & Rupr) Ascherson & Graebner], a Meg H caesp; L9, T8, H1, R8, N1; at: V (se.euro-sib); hab: kam-V; akp-III; liv-II; kor-II; UFO

Literature source: Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 129 (Dajbabska gora, Ržanički most).

*Tragus racemosus* (L.) All., a Mi-Mes T caesp; L8, T7, H5, R7, N3; at: IX (kosm; hab: kor-IV; gaz-IV; gro-IV; akp-III; liv-III; pko-III; slj-II; nop-II; pkg-II; zap-II; tra-II; svp-II; put-I; UNE

Literature source: Hadžiablahović 2010: 131 (Kuće Rakića, Ržanički most).

*Trisetum aureum* Ten., v-a Mi-Mes T caesp; L8, T9, H8, R8, N6; at: II (stenomed-or); hab: put-II; kro-I; svp-I; UFI

Literature source: Hadžiablahović 2006: 97 (Podgorica; Tuški put).

*Trisetum paniceum* (Lam.) Pers., a Mi-Mes T caesp; L8, T9, H8, R8, N6; at: III (med-makar); hab: gro-V; kro-IV; liv-III; zap-III; pst-III; tra-III; svp-III; gaz-II; put-II; akp-I; dep-I; pkg-I; UNE

Literature source: Hadžiablahović 2004: 13 (Blok V).

*Triticum aestivum* L. [syn. *T. vulgare* Vill.], a Meg-Alt T scap; L8, T8, H5, R5, N5; at: IX (ADV, kult, med-E); hab: nop-V; put-II; svp-II; pko-II; slj-II; dep-I; kam-I; liv-I; zap-I; UNE

Literature source: Beck & Szyszylowicz 1888: 56 (circa Podgoriza cultum); Rohlena 1942: 459 (Podgorica).

*Ventenata dubia* (Leers) F.W. Schultz, a Mi-Mes T scap; L8, T7, H3, R6, N4; at: III (eurimed); hab: akp-I; liv-I; UNE

Literature source: -

*Vulpia ciliata* Dumort [syn. *Festuca danthonii* Asch. & Gr.], a Mes-Mac T caesp; L8, T9, H2, R4, N2; at: III (eurimed); hab: liv-V; kam-V; gro-akp-IV, gaz-III; kor-IV; svp-III; pot-III; dep-I; nop-I; pko-I; slj-I; pst-I; UNE

Literature source: Rohlena 1902b: 32 (in planicie podgoricensi) & 1924: 48 (um Podgorica); Hadžiablahović 2010: 120 (Blok V, Ržanički most).

*Vulpia bromoides* (L.) S.F. Gray [syn. *V. dertonensis* (All.) Gola], a Mes T caesp; L8, T9, H2, R6, N2; at: V (paleotemp)

Literature source: Rohlena 1924: 49 (um Podgorica); Hadžiablahović 2010: 120 (Tološka šuma).

*Vulpia ligustica* (All.) Link, v-a Mes-Mac T caesp; L8, T9, H2, R4, N2; at: II (stenomed); hab: liv-V; tra-V; svp-V; gro-IV, kam-IV; kor-IV; gaz-IV; pst-IV; pas-III; pot-III; akp-III; dep-III; pst-II; put-II; pko-II; pno-II; pkg-I; nop-II; kro-I; zid-I; UNE

Literature source: Hadžiablahović 2004: 13 (Blok V).

*Vulpia myuros* (L.) C.C. Gmelin, a Mes T caesp; L8, T9, H2, R6, N2; at: IX (cosm); hab: kam-V; liv-V; pas-IV; pot-IV; akp-IV; svp-IV; gaz-III, gro-III; zao-III; tra-III; nop-II; zap-II; pko-II; kro-I, slj-I; UNE

Literature source: Rohlena 1902b: 29 (ad Podgorica) & 1924: 49 (bei Podgorica); Černjavski *et al.* 1949:83 (Ćemovsko polje); Stešević 2002: 29 (Gorica); Hadžiablahović 2010: 120 (Tološka šuma).

*Zea mays* L., a-aut Alt T scap; L8, T8, H7, R5, N9; at: IX (ADV, kult, AMN); hab: dep-I; put-I; zao-I; zap-I; pot-I, UNE

Literature source: Szyszylowicz 1888: 51 (in Podgoriza culta).

## POTAMOGETONACEAE

*Potamogeton crispus* L., rad sbm HydG; L6, T5, H12, R7, N6; at: IX (cosm); hab: kan; rij; UFO

Literature source: Rohlena 1942: 424 (Ribnica prope Podgorica).

*Potamogeton perfoliatus* L., rad sbm HydG; L6, T0, H12, R7, N4; at: IX (cosm); hab: rij; UFO

Literature source: -

*Potamogeton pusillus* L., rad sbm HydG; L6, T5, H12, R7, N8; at: IX (cosm); hab: rij; UFO

Literature source: -

## SMILACACEAE

*Smilax aspera* L., semp S lig; L6, T10, H2, R5, N3; at: IX (eurimed-turan); hab: sik-I; UFO

Literature source: Rohlena 1905: 90 (um Podgorica fäufig); Hadžiablahović 2010: 115 (Ljubović).

### SPARGANIACEAE

*Sparganium erectum* L. [syn. *S. ramosum* Huds.], rhiz emer HydG; L7, T6, H10, Rx, N5; at: V (euras); hab: pno-II; UFO

Literature source: -

### TYPHACEAE

*Typha angustifolia* L., rhiz emer HydG; L8, T7, H10, Rx, N7; at: IX (paleosubtrop); hab: pls-II; pno-I; UFO  
Literature source: Bulić 1994: 168 (Srpska).

*Typha latifolia* L., v-a Alt G rhiz; L8 T6, H10, Rx, N8; at: IX (cosm); hab: pls-II; UFO

Literature source: -

### XANTHORRHOEACEAE

*Asphodeline liburnica* (Scop.) Rchb., a Mes-Mac G rhiz scap; L11, T6, H2, R6, N3; at: III (amfiadriat), ats-III, atp-III; kam-II; sik-I; svp-I; UFO

Literature source: Stešević 2002: 26 (Gorica).

*Asphodeline lutea* (L.) Rchb., n-v Mac-Meg G rhiz scap; L11, T6, H2, R6, N3; at: III (e.med); hab: kam-III; kor-III; pot-II; liv-I; UFO

Literature source: Stešević 2002: 26 (Gorica); Hadžiablahović 2010: 112 (Sastavci).

*Asphodelus aestivus* Brot. [syn. *A. microcarpus* Viv.], v Mes-Meg G rhiz scap; L11, T9, H2, R3 ,N5; at: II (stenomed); hab: kam-V; akp-IV; kor-II; gro-II; pot-I; nop-I; UFO

Literature source: Rohlena 1942: 427 (Podgorica, district Lješanska nahija); Černjavski *et al.* 1949:81 (Čemovsko polje); Šmarda 1968: 16 (Titograd- Morača canyon); Bulić 1991: 152 (Čemovsko polje, Kuće Rakića); Stešević 2002 (Gorica).

### The floristic richness of the city area of Podgorica and the spatial distribution of taxa

The flora of urban areas has been long recognised as rather rich, and the cities themselves have been considered as areas of high diversity (Haeupler 1974, Kühn *et al.* 2004). As early as 1970s, Walters notices that city flora, in terms of the number of species, excels over the flora of the surrounding areas (Walters 1970). To explain this phenomenon, the most frequently quoted opinion is that of Gilbert (1989), that the heterogeneous urban environment (heterogeneity of habitats), makes survival possible for species with differing survival strategies. Due to habitat heterogeneity and the increased possibility for the immigration of new species, urban floras are constantly enriched (Sukopp & Werner 1983).

The check list of the spontaneous vascular flora of the city area of Podgorica contains 1222 taxa (species and subspecies), representing a little more than 1/3 of the total flora of Montenegro (Rohlena 1942, Pulević 2005, Stešević *et al.* 2008). Comparing the floristic richness of the city area of Podgorica with those of other European cities, we can conclude that the flora of Podgorica is rich also in the European context (Table 1).

**Table 1.** Richness of the floras of selected European cities, expressed with logarithmic values of the number of taxa found and surface surveyed.

City	Surface in km <sup>2</sup> (A)	Number of taxa (T)	LogT/ logA	Source
Vienna	414	2024	1,26	Adler & Mrkvicka (2003)
Berlin	481	1374	1,17	Sukopp <i>et al.</i> (1980)
Katania	180	250	1,06	Poli Marchese <i>et al.</i> (1989)
Zurich	120	1950	1,58	Landolt (2001)
Patras	58	818	1,65	Chronopoulos & Christodoulakis (1996, 2000)
Rome	300	1285	1,26	Celesti Grapow (1995)
Thessaloniki	61	865	1,65	Krigas & Kokkini (2004, 2005)
Warsaw	430	1109	1,16	Sudnik-Wojcikowska (1987)
Podgorica	86	1222	1.60	This study

According to Sukopp & Werner (1983), the number of taxa of vascular plants in urban floras is determined by a series of factors: geographic positioning, climatic conditions and the possibility for the immigration of species.

A series of studies demonstrate the existence of the correlation between the number of plant taxa and the size of the settlement, whether it is expressed through the number of inhabitants or surface (Pyšek 1989a, 1993; Brandes & Zacharias 1990; Klotz 1990). Comparing the relationship between the number of taxa and the surface of different European cities, it has been noticed that the number of plant taxa and the size of the city are related with logarithmic linear progression. The progression reaches its maximum of 1.500 taxa in cities with 1.2 to 2 million inhabitants (Pyšek 1989a, 1993, Klotz 1990). Following this rule, the expected number of taxa in Podgorica (86 km<sup>2</sup>, ca. 140,000 inhabitants) would be around 700 taxa. However, favourable geographic positioning and climate seem to support an exceptional floristic richness. Distribution of taxa found in Podgorica per quadrant is shown in Figure 20.

Following the change in the number of taxa on the periphery-city-centre gradient, Wittig (2002), Chocholoušková & Pyšek (2003), Pyšek *et al.* (2004) noticed that the number of taxa drops closer to the city-centre area. On the same gradient, population density increases, as well as the network of roads, while the air, ground and precipitation pollution is higher (Mc Kinney 2002).

Due to specific orography, the presence of natural and semi-natural habitats in the very urban core of Podgorica, this rule is not possible to notice in the study area (Fig. 20). However, if the distribution of taxa by habitat is taken into consideration, it becomes clear that the homogeneity of habitats and the increase of urbanisation result in the reduction of the number of taxa. Similar distribution has been noticed in the area of Rome, where diversity hot spots are located in the very centre of the city – parks and archaeological sites (Celesti Grapow *et al.* 2006).

In the city area of Podgorica, most of the taxa have been recorded in quadrant G6 (603). Within its boundaries are the localities of Skaline (the confluence of Ribnica and Morača Rivers) and lower part of the course of Ribnica River, Ivana Milutinovića Park, Mali Park, Stara Varoš and Drač (the oldest parts of Podgorica), part of the Morača River canyon from Blažov to Novi Most, part of Ljubović Hill and Central Park Pobrežje (Fig. 21).

Compared to other quadrants, G6 features the highest degree of heterogeneity of habitats and moderate disturbance. Walls and rock shelters stand out as the most typical types of habitat.

Large number of taxa (>500) has also been recorded in the immediate vicinity of the Morača River canyon (D6, D7, D8, G3, G4, G5, G6, F6), Ribnica River (H2, H5, H6), Park forest Gorica (H6), Cijevna River canyon (I11), Kakaricka gora (J6, K4) and Srpska Gora (D12, D13). Dominant habitat types in the previously mentioned areas are scrub, rocky terrain and river banks.

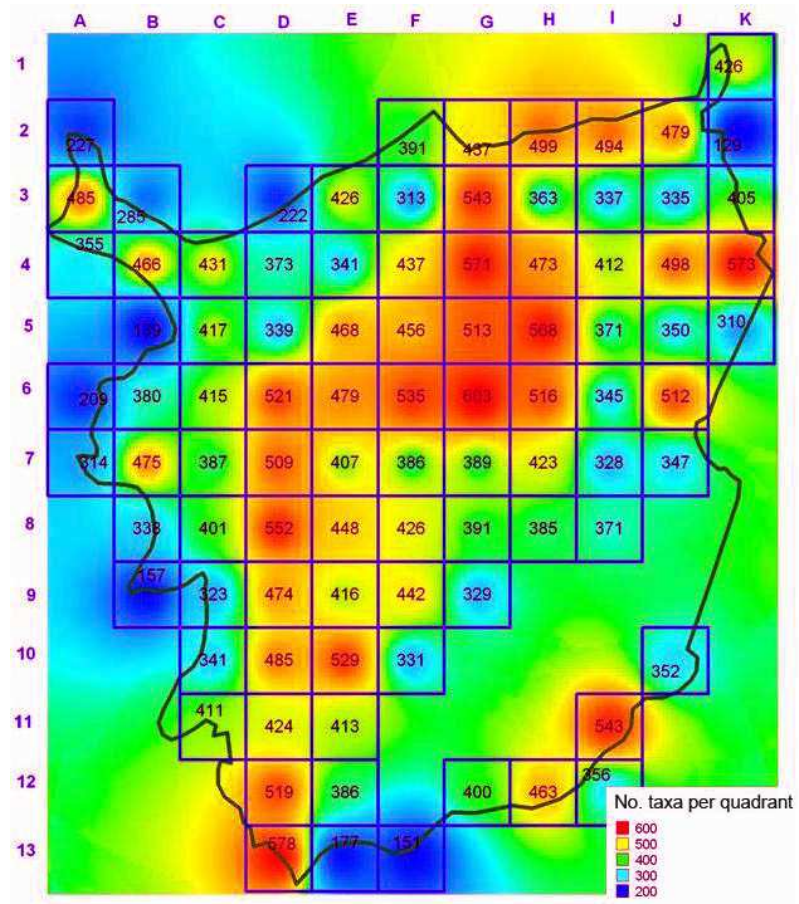


Figure 20. Distribution of taxa found in Podgorica per quadrant (each 1 km<sup>2</sup>)



Figure 21. Diversity hottest spot in Podgorica (quadrant G6, 603 taxa): 1 - Skaline and lower part of the course of Ribnica River; 2 - Ivana Milutinovića Park; 3 - Mali Park; 4 - part of the Morača River canyon from Blažov Most to Novi Most; 5 - Stara Varoš; 6 - Drač; 7 - part of Ljubović Hill; 8 - Central Park Pobrežje.



In quadrants with relatively small participation of semi-natural habitats with intense urbanisation pressure (H3-settlement of Zagorič, I3 and J3-Old Zlatica, I6-Konik, J5-Masline, I7-Stari Aerodrom and J7-Vrela Ribnička), a notably smaller number of taxa has been recorded (<365).

The reason for a relatively small number of taxa in quadrants I7 and J7 (Fig. 22) is the creation of a permanent landfill (it takes up to 30% of the quadrant I7), the rapid expansion of the unplanned refugee settlements (quadrant J7) and plantations with conifers. Similar situation with the creation of landfills is obvious in other quadrants belonging to Čemovsko Polje (G9 and F10).

Quadrants located in the western parts of the city area, characterised by the domination of grassy surfaces (Tološko Polje, Lješkopolje, Kokotski Ovčar), feature an intermediate number of taxa (around 400).



**Figure 22.** Example of areas with low plant diversity in Podgorica (quadrants I7 and J7): 1 – settlement of Stari Aerodrom; 2 – landfill at Čemovsko Polje; 3 – planted forest of pine and cypress; 4 – Čemovsko Polje-Stari Aerodrom; 5 – settlement of Vrela Ribnička.

### Distribution of taxa in respect to their behaviour towards the urbanisation

As expected, the number of urbanophile species is the highest in the central part of the city area and gradually declines away from the urban core (Fig. 23). Considering the life forms, most of these taxa are annuals and belong to the alien flora (Fig. 25, 26). Urbanophobe taxa are mostly present in the peripheral quadrants located in the NNE, extreme NW and S parts of the city area (Fig. 24). They have also been recorded in significant numbers in the very core of the city, exactly due to the presence of semi-natural habitats. Moving from the centre towards the periphery, in the NW, SE and SW directions, the number of urbanophobe taxa decreases, in accordance with the decline of the green areas and the increase in urbanisation pressure. In terms of life forms and chorology of taxa, hemicryptophytes and plants of Mediterranean origin are prevalent (Fig. 25, 26). Urbanoneutral plants showed no great difference in distribution patterns in the city area. Dominant among them are annual taxa and those of Mediterranean origin (Fig. 25, 26).

Typical urbanophile plants (UFI) in Podgorica are: *Amaranthus cruentus*, *Broussonetia papyrifera*, *Chenopodium ambrosioides*, *Citrullus lanatus*, *Commelina communis*, *Eleusine indica*, *E. tristachya*, *Erigeron bonariensis*, *Euphorbia nutans*, *E. prostrata*, *Galinsoga parviflora*, *Ipomoea purpurea*, *Lepidium virginicum*, *Mentha × piperita*, *Mirabilis jalapa*, *Panicum miliaceum*, *P. capillare*, *Paspalum paspaloides*, *Sporobolus vaginiflorus*, *Symphyotrichum squamatus*, etc.

Typical urbanoneutral plants (UNE) in Podgorica are: *Achillea millefolium*, *Agrimonia eupatoria*, *Anacamptys papilionaceae*, *Arenaria leptoclados*, *Bellis perennis*, *Berteroa mutabilis*, *Bromus hordeaceus* subsp. *mollis*, *Cardamine hirsuta*, *Carduus pycnocephalus*, *Centaurea calcitrapa*, *C. solstitialis*, *Cerastium brachypetalum*, *Chenopodium album*, *C. murale*, *Geum urbanum*, *Hordeum murinum* subsp. *leporinum*,



*Lotus corniculatus*, *Poa annua*, *P. bulbosa*, *Potentilla reptans*, *Sedum acre*, *S. hispanicum*, *Stellaria media*, *Trifolium incarnatum*, *T. campestre*, *T. stellatum*, *Vicia grandiflora*, *V. villosa* subsp. *varia*, etc.

Typical urbanophobe plants (UFO) in Podgorica are: *Aethionema saxatile*, *Allium roseum*, *A. flavum*, *Anemone apennina*, *Aristolochia clematitis*, *A. rotunda*, *Astragalus illyricus*, *Caltha palustris*, *Cardamine pratensis* subsp. *matthioli*, *Carpinus orientalis*, *Cladium mariscus*, *Colchicum visiani*, *C. hungaricum*, *Crocus dalmaticus*, *C. weldenii*, *Crupina vulgaris*, *Danthoniastrum compactum*, *Dianthus ciliatus* subsp. *dalmaticus*, *Edraianthus tenuifolius*, *Ephedra foeminea*, *Fumaria capreolata*, *Genista sericea*, *Gladiolus illyricus*, *G. palustris*, *Helichrysum italicum*, *Iris tuberosa*, *Matthiola fruticulosa*, *Moltkia petraea*, *Ophrys* spp., *Paronychia kapela*, *Quercus pubescens*, *Q. trojana*, *Sedum ochroleucon*, *Silene coronaria*, *S. floccuculi*, *Stipa bromoides*, *S. pulcherima*, *Tyrimnus leucographus*, *Vicia lutea*, etc.

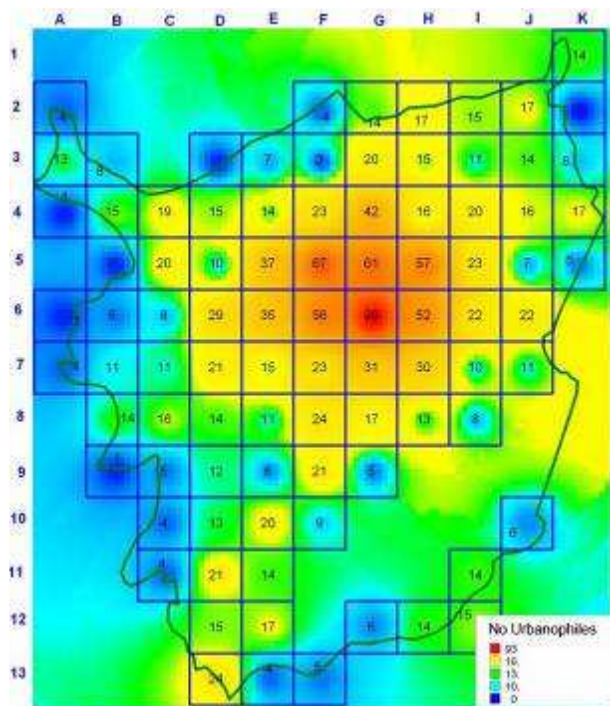


Figure 23. Total urbanophile taxa per quadrant (each 1 km<sup>2</sup>) in the city area of Podgorica.

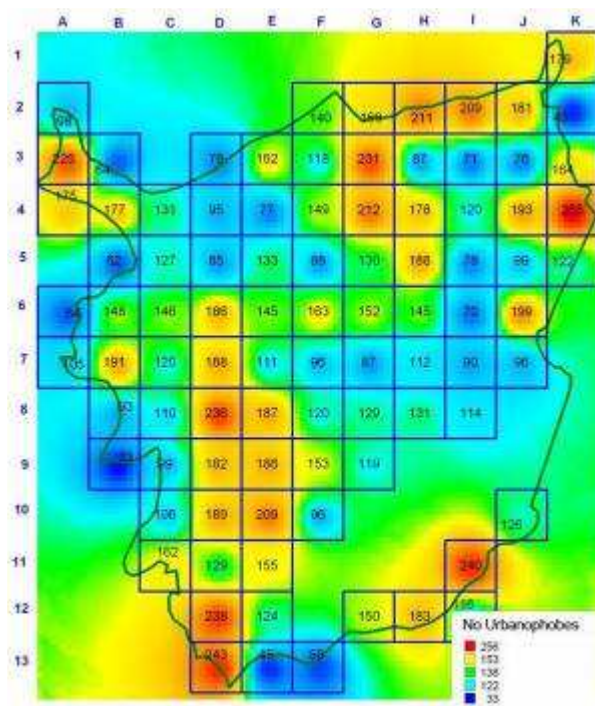


Figure 24. Total urbanophobe taxa per quadrant (each 1 km<sup>2</sup>) in the city area of Podgorica.

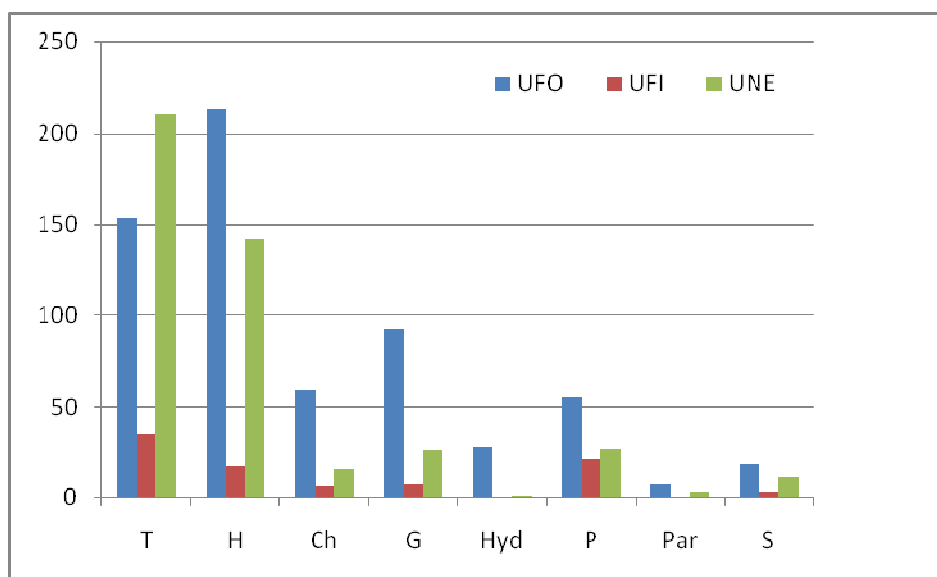
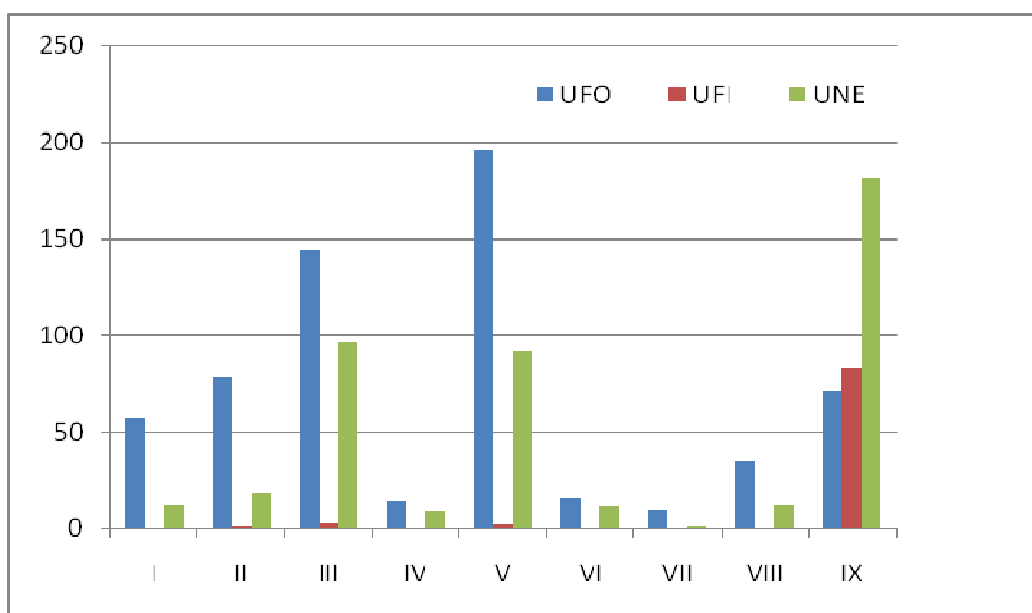


Figure 25. Participation of basic life forms in the categories urbanophobe (UFO), urbanoneutral (UNE) and urbanophile (UFI).



**Figure 26.** Participation of chorological types in categories urbanophobe (UFO), urbanoneutral (UNE) and urbanophile (UFI).

### Taxonomic spectrum of the flora in the Podgorica city area

The taxonomic spectrum of the vascular flora in the city area of Podgorica includes 6 classes, 121 families, 561 genera and 1222 species and subspecies. *Dicotyledones*, with 91 families (75.2%), 440 genera (78.4%) and 942 taxa (77.1%), is richer than *Monocotyledones* which include 20 families (16.5%), 109 genera (19.4%) and 263 taxa (21.5%). Fern-like plants is represented with 7 families (5.7%), 8 genera (1.4%) and 13 taxa (1.1%). Conifers are represented with 2 families (1.6%), 3 genera (0.6%) and 3 taxa (0.2%), while the class of *Gnetopsida* is represented only with one taxon (0.1%). *Poaceae* (11.5%), *Asteraceae* (11.2%) and *Fabaceae* (9.2%) are most prominent among families (Table 2).

In respect to urbanisation, the grass family contains approximately the same number of urbanophobe and urbanoneutral species. Despite the small number of urbanophiles, some of their representatives occur with great frequency and sometimes with large populations (e.g. *Eleusine indica*, *E. tristachya*, *Sporobolus indicus* and *Paspalum dilatatum*).

Among *Asteraceae*, urbanoneutral taxa prevail, while there is a fairly small number of urbanophiles. As in the case of grasses, certain urbanophiles occur with high frequency or have large populations (e.g. *Symphotrichum squamatus*, *Helianthus tuberosus*, *Erigeron bonariensis*). Among the urbanoneutral plants, widespread in the city area are the following: *Crepis sancta*, *C. neglecta*, *C. setosa*, *Carduus pycnocephalus*, *Centaurea solstitialis*, *Cichorium intybus*, *Erigeron sumatrensis*, *Erigeron annuus*, *Hypochoeris cretensis*, *Senecio vulgaris*, *Sonchus arvensis*, *S. oleraceus*, *S. asper* and *Tragopogon porrifolius*.

Close to 70% of *Fabaceae* taxa belong to the category of urbanophobes, while there are only three urbanophile plants (*Gleditsia triacanthos*, *Wisteria sinensis* and *Cercis siliquastrum*). Widespread in the city area are the following: *Lathyrus cicera*, *Lotus corniculatus*, *Medicago orbicularis*, *M. arabica*, *M. sativa*, *M. rigidula*, *Trifolium subterraneum*, *T. incarnatum*, *T. campestre*, *T. stellatum*, *Vicia grandiflora* and *V. villosa* subsp. *varia* (all of them urbanoneutrals).

Significant participation in the flora of Podgorica have *Scrophulariaceae*, *Euphorbiaceae*, *Chenopodiaceae*, *Geraniaceae*, *Solanaceae*, *Malvaceae* and *Amaranthaceae*, all including numerous synanthropic plants, but also *Iridaceae*, *Amaryllidaceae* and *Orchidaceae* despite the anthropogenic influence. This support the viewpoint of Celesti Grapow (1998) who pointed out the phenomenon that even the most urbanised sections of Mediterranean cities bare the mark of the surrounding flora. In contrast to the Mediterranean cities, prominent in the Central European cities is the phenomenon of biotic homogenisation (Mc Kinney & Lockwood 1999).

A common trait of the compared taxonomic spectra between different cities examined (Fig. 27) is that the families of *Asteraceae*, *Poaceae* and *Fabaceae* are among the dominant ones in most cases.

**Table 2.** Taxonomic spectrum of families with >1% participation in the flora of Podgorica.

Family	No of taxa	%
Poaceae	141	11.5
Asteraceae	137	11.2
Fabaceae	112	9.2
Lamiaceae	62	5.1
Brassicaceae	61	5.0
Caryophyllaceae	40	3.3
Scrophulariaceae	40	3.3
Apiaceae	38	3.1
Rosaceae	38	3.1
Ranunculaceae	32	2.6
Boraginaceae	26	2.1
Cyperaceae	26	2.1
Polygonaceae	22	1.8
Orchidaceae	20	1.6
Euphorbiaceae	19	1.6
Rubiaceae	19	1.6
Amaryllidaceae	18	1.5
Chenopodiaceae	15	1.2
Asparagaceae	14	1.0
Geraniaceae	12	1.0
Solanaceae	12	1.0

The richest genera in taxa found in Podgorica (Table 3): *Trifolium* (2.1%), *Euphorbia*, *Bromus* (1.4% each), *Carex*, *Ranunculus* (1.3% each), *Veronica* (1.2%), *Allium* (1.1%), *Vicia* and *Lathyrus* (1.0% each). Although these genera usually include numerous ruderal and ruderal-segetal plants, a small number of them were found as typical urbanophile in the city of Podgorica. Thus, for example, out of the group of dominant genera only *Euphorbia* and *Veronica* contain typical urbanophile plants. Even the synanthropic genera of *Chenopodium* (0.9%), *Rumex* (0.8%) and *Amaranthus* (0.6%) seem to have more urbanoneutral than typical urbanophile plants in the flora of Podgorica.

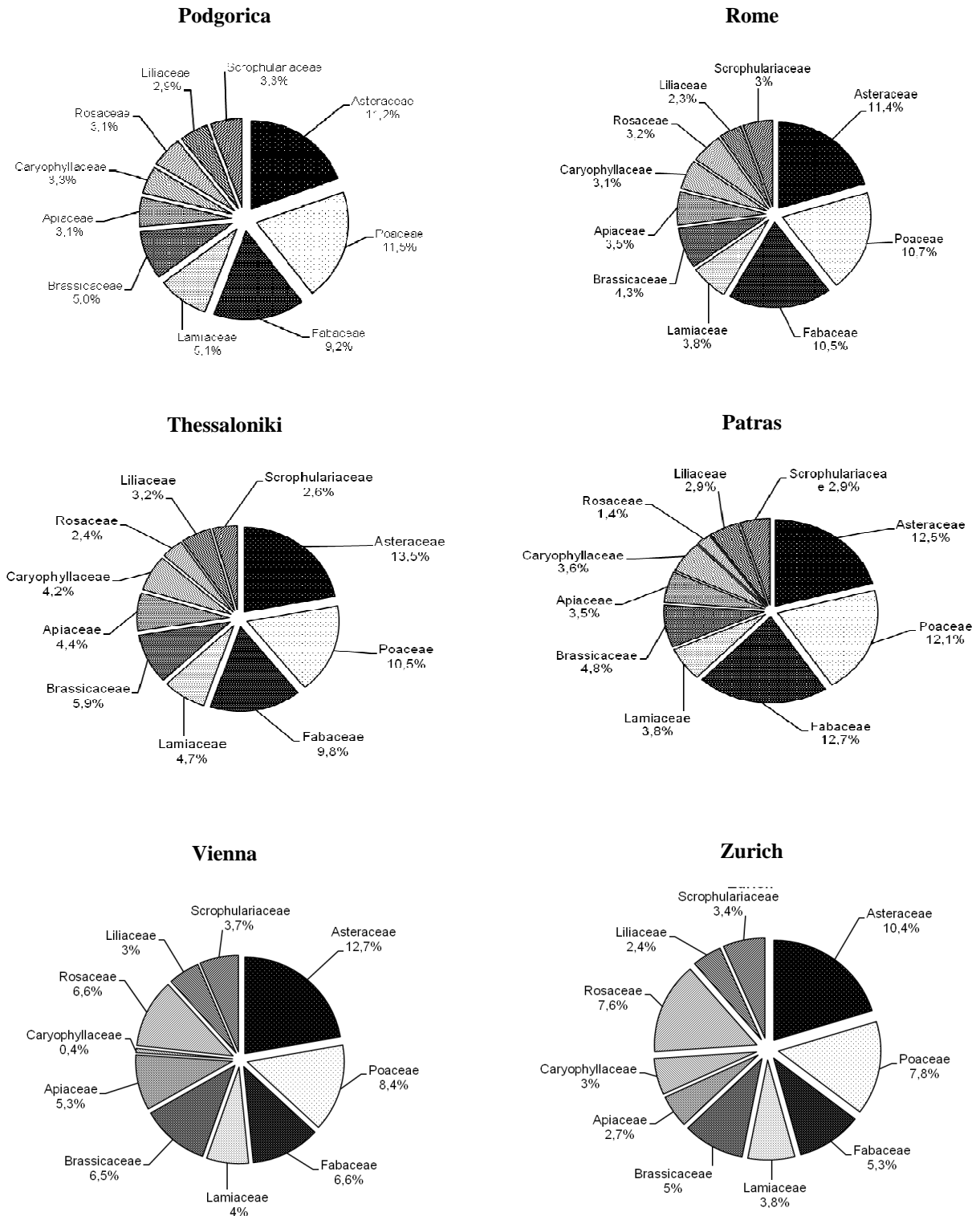
**Table 3.** Taxonomic spectrum of genera with  $\geq 10$  taxa in the flora of Podgorica.

Genus	No of taxa	%
<i>Trifolium</i>	26	2.1
<i>Euphorbia</i>	17	1.4
<i>Bromus</i>	16	1.4
<i>Carex</i>	16	1.3
<i>Ranunculus</i>	16	1.3
<i>Veronica</i>	14	1.2
<i>Allium</i>	13	1.1
<i>Lathyrus</i>	12	1.0
<i>Vicia</i>	12	1.0
<i>Chenopodium</i>	11	0.9
<i>Galium</i>	10	0.8
<i>Geranium</i>	10	0.8
<i>Medicago</i>	10	0.8
<i>Rumex</i>	10	0.8

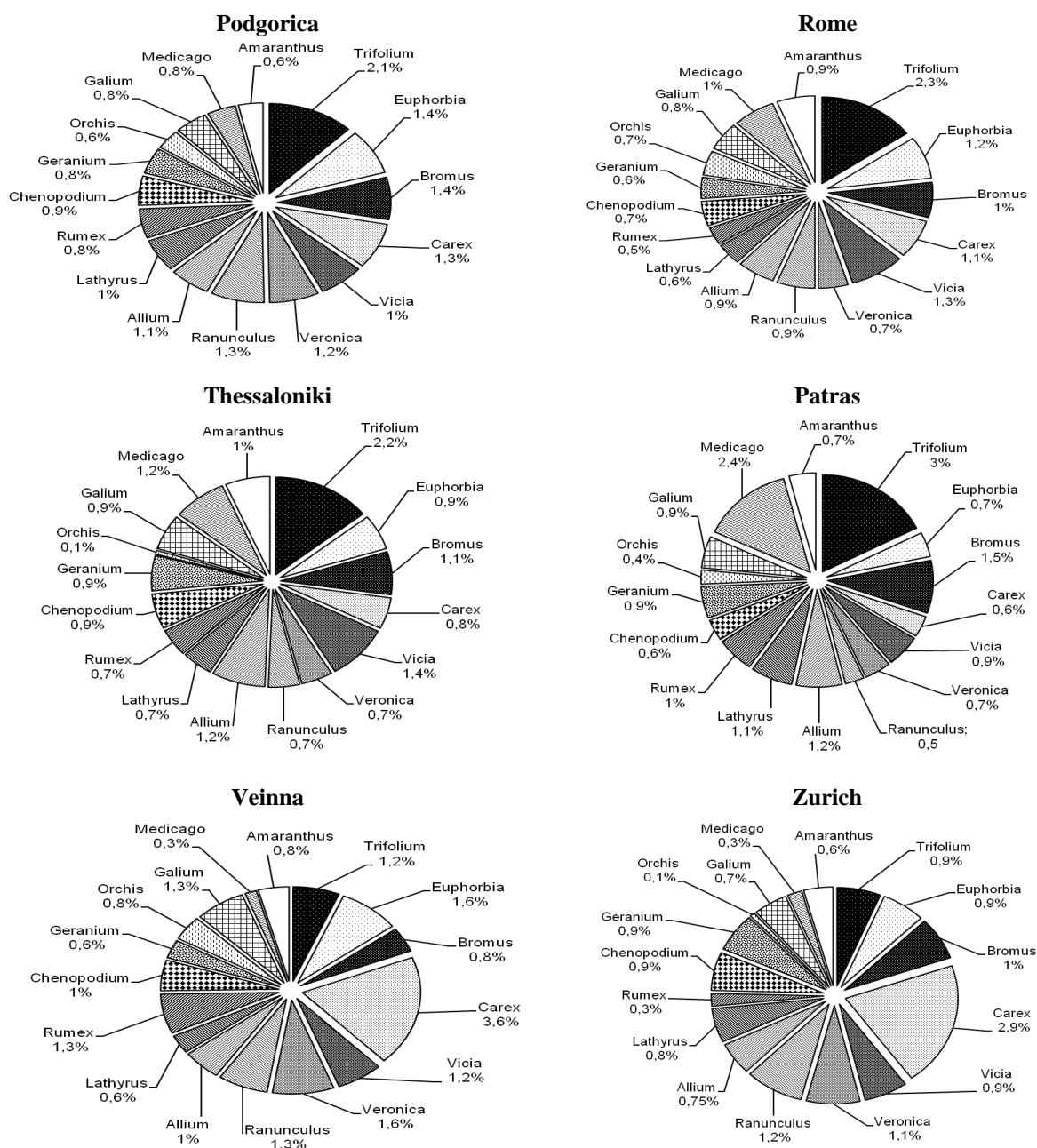
The similarity of taxonomic spectres of the genera of the floras of Podgorica, Rome, Thessaloniki, Patras, Zurich and Vienna is displayed in the figure 28.

Regarding the genera dominating the flora of different cities (Fig. 28), our comparison showed that *Trifolium*, *Euphorbia*, *Carex*, *Bromus*, *Vicia* and *Allium* are most prominent, and among continental cities *Carex*, *Veronica*, *Ranunculus* and *Euphorbia* are most frequently found.

By analysing the similarity index between different city floras (Table 4), our study shows that the flora of Podgorica is most similar to the flora of Rome (Cs= 69.4%).



**Figure 27.** Taxonomic spectra of dominant families in the floras of Podgorica, Rome (Celasti Grapow, 1995), Thessaloniki (Krigas & Kokkini, 2004; 2005), Patras (Chronopoulos & Christodoulakis, 1996; 2000), Vienna (Adler & Mrkvicka, 2003), and Zurich (Landolt, 2001). Family of *Liliaceae* is treated in broader sense and it included *Asparagaceae*, part of *Amaryllidaceae* (genus *Allium*), *Colchicaceae*, *Dioscoreaceae*, *Liliaceae* and *Xanthorrhoeaceae*.



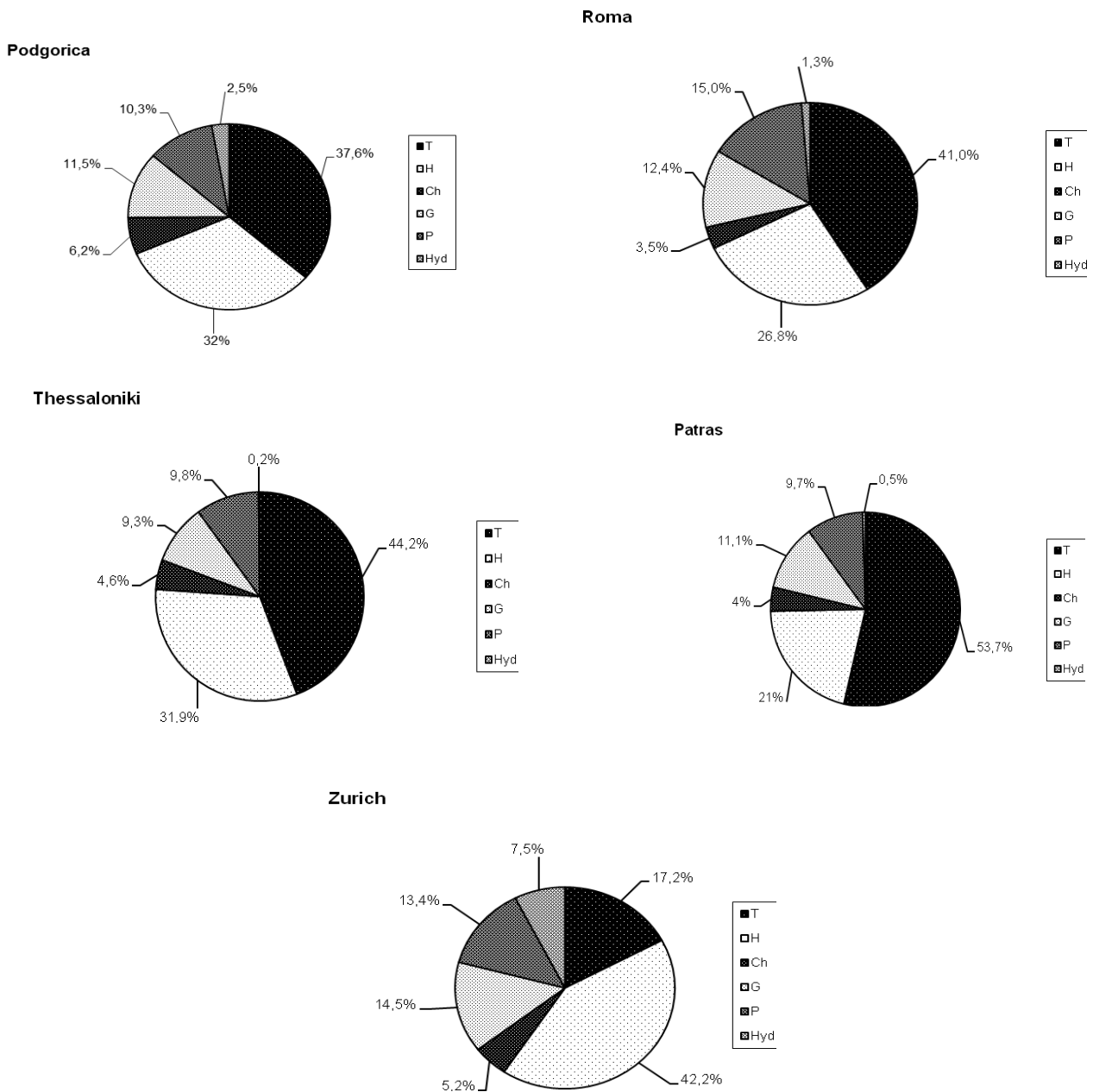
**Figure 28.** Taxonomic spectra of dominant genera in the floras of Rome (Celasti Grapow, 1995), Thessaloniki (Krigas & Kokkini, 2004; 2005), Patras (Chronopoulos & Christodoulakis, 1996; 2000), Vienna (Adler & Mrkvicka, 2003), and Zurich (Landolt, 2001).

**Table 4.** Values of the Sørensen similarity index (Cs) for the comparisons of the flora of Podgorica with the floras of Thessaloniki (Krigas & Kokkini, 2004; 2005), Patras (Chronopoulos & Christodoulakis, 1996; 2000), Zurich (Landolt, 2001) and Vienna (Adler & Mrkvicka, 2003).

Floristic comparisons of cities	$2ab \times 100 / (a + b)$	Cs (%)
Podgorica-Roma	$2 \times 870 \times 100 / (1222 + 1285)$	69.4
Podgorica-Thessaloniki	$2 \times 504 \times 100 / (1222 + 1012)$	45.1
Podgorica-Patras	$2 \times 419 \times 100 / (1222 + 808)$	41.3
Podgorica-Zurich	$2 \times 589 \times 100 / (1222 + 1950)$	37.1
Podgorica-Vienna	$2 \times 725 \times 100 / (1222 + 2024)$	44.7

**General life form spectrum**

The flora of Central European cities is dominated by hemicryptophytic life forms (Sukopp 1990) while in South European city floras the prevalence of therophytic life forms is prominent (e.g. Hruška 1989, Celesti Grapow & Blasi 1998, Fig. 29).



**Figure 29.** Biological spectra of the floras of Podgorica, Roma (Celesti Grapow 1995), Patras (Chronopoulos & Christodoulakis, Thessaloniki (Krigas & Kokkini 2004; 2005), and Zurich (Landolt 2001)

In the study on the comparative analysis of the floras of Italian cities, Hruška (1989) has calculated that the average participation of hemicryptophytes in the spectrum is approximate 32%, while phanerophytes is 12% and geophytes is 9%. Taking into account the domination of the therophytes and the increased participation of the hemicryptophytes and geophytes in the biological spectrum of the flora of Podgorica (Table 5), it approximately fits the profile of the flora of Italian cities. High participation of the geophytic life form, even in the most urbanised parts of city, has already been mentioned as a characteristic of the Mediterranean city floras (Hruška, 1989).

**Table 5.** Biological spectrum of the flora of the city area of Podgorica.

Life form	No of taxa	%
Therophytes	434	35.5
Hemicryptophytes	388	31.8
Chamaephytes	79	6.5
Geophytes	132	10.8
Scandentophytes	35	2.9
Parasitic	10	0.8
Hydrophytes	30	2.5
Phanerophytes	114	9.3
Total	1222	100

The urban flora of Podgorica is characterised by the prevalence of the therophytic - hemicryptophytic life forms, mainly due to the climatic conditions and the constant disturbance in the urban area.

In terms of phenology, the majority of taxa start flowering at the same time, in May, and only a small number of plants is in bloom in December (Table 6).

**Table 6.** Number of taxa with same phenophase of flowering (per month) in the flora of Podgorica based on observations from 2006 to 2013.

Month	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
No taxa.	17	49	116	473	776	566	328	304	246	76	18	5

Due to the extremely mild climatic conditions in 2006, 2011, 2013 as many as 20 plants flowered sporadically in December.

The literature on the phenology of flowering in urban environments of North America, Europe and China indicates that vernal plants tend to flower earlier in cities than in the surrounding areas. This phenomenon is partially explained by the “warm island effect” (Neil & Wu 2006). In the area of Podgorica and its surroundings we did not observe noticeable fluctuations of the flowering time. This can be explained by the minor “warm island” effect, present in Mediterranean cities.

### Therophytes

The breakdown of the therophytic form, display of the number of species in flowering by month, as well as the relationship between their number according to the dimensions of the above-ground part of the plant are given in the figure 30 and Tables 7 and 8.

The life form of therophytes is mostly represented with scapose forms (T scap- 65.0%), and caespitose forms (T caesp- 14.4%), then partial rosette forms (T semiros-13.0%), reptant forms (T rept-6.2%), rosette forms (T ros- 0.7%) and succulent forms (T succ- 0.7%) (Fig. 30).

In terms of phenology, most of the therophytes flower simultaneously, in May, and the smallest number of annual plants flower in December (Table 7). From the point of view of plant dimensions, taxa with low to medium height forms are prevalent (Table 8).

Considering the distribution of therophytes in the city area, a series of studies (Kunick 1974, Sukopp *et al.* 1979, Sukopp & Werner 1983, Kowarik 1985; 1988; 1990, Sudnik-Wójcikowska 1987, Pyšek & Pyšek 1988; 1991, etc.), indicate that there is a positive correlation between the number of therophytes and vicinity to the urban core. In Podgorica, the majority of therophytes has been recorded in the central city zone which reflects both anthropogenic influence, geomorphology of the area and climatic conditions. In Central European cities, high participation of therophytes in the central urban zone is partially attributed to the “warm island effect”; however, in the (sub) Mediterranean region this effect is not clearly present (Hruška 1989).



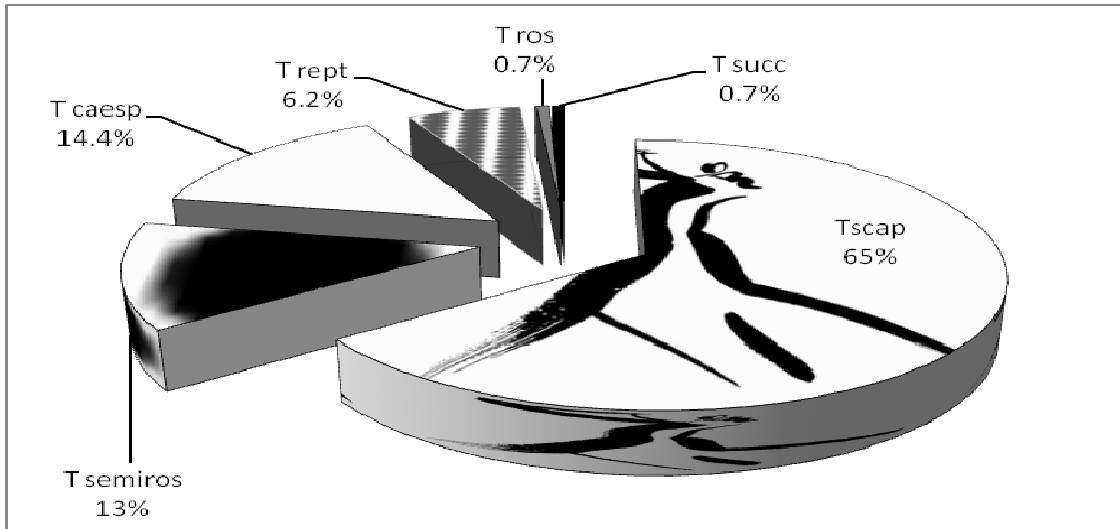


Figure 30. Breakdown participation of taxa with therophytic life forms in the flora of Podgorica.

Table 7. Number of taxa with different therophytic life forms in the flowering phenophase of the flora of Podgorica per month.

Month	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
<b>Life form</b>												
T scap	5	10	26	140	<b>220</b>	129	75	84	73	25	6	2
T semiros	1	9	18	<b>37</b>	34	12	5	5	0	0	0	0
T caesp	1	1	2	18	<b>24</b>	8	9	14	11	3	1	0
T rept	0	1	3	8	13	13	13	<b>14</b>	12	4	1	0
T ros	1	1	1	1	<b>1</b>	0	0	0	0	0	0	0
T succ	0	0	0	2	<b>0</b>	<b>0</b>	0	0	0	0	0	0
<b>Total</b>	8	22	50	206	<b>291</b>	162	102	117	96	32	8	2

Table 8. The number of different therophytic forms of the flora of Podgorica according to the size of the above-ground part of the plants.

Form	Plant height														Total		
	N (< 3 cm)	N-Mi (< 10 cm)	N-Mes (< 30 cm)	Mi (3-10 cm)	<b>Mi-Mes (3-30 cm)</b>	Mi-Meg (3-100 cm)	Mes (10-30 cm)	Mes-Mac (10-60 cm)	Mes-Meg (10-100 cm)	Mes-Alt (10 cm, > 1m)	Mac (30-60 cm)	Mac-Meg (30-100 cm)	Mac-Alt (30 cm, > 1m)	Meg (60-100 cm)		Meg-Alt (60 cm, > 1m)	Alt (> 1m)
T scap	1	2	-	13	<b>81</b>	-	74	50	53	2	5	10	6	2	14	3	316
T semiros	1	7	-	4	<b>13</b>	-	12	6	5	-	-	1	2	-	1	-	52
T caesp	-	1	1	1	8	-	<b>10</b>	8	4	-	1	1	-	1	2	-	38
T rept	-	1	<b>5</b>	3	1	3	2	2	2	-	-	-	-	2	3	-	24
T ros	-	1	-	1	-	-	-	-	-	-	-	-	-	-	-	-	2
T succ	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-	-	2
<b>Σ T</b>	2	12	6	23	<b>104</b>	3	98	66	64	2	6	12	8	5	20	3	434

In general, the relatively high presence of therophytes is characteristic of quadrants in which sunny, dry and degraded habitats are prevalent (for example Ćemovsko Polje outside of the central zone or the karst terrain of city hillocks). In NW and W directions, due to the changes in ecological conditions (from xerophilia

towards mesophilia and hygrophilia), but also due to the decline in the disturbance regimes, the total number of therophytes is clearly declining. The number of therophytic urbanophile plants is highest in the city core and declines towards the periphery (Fig. 31).

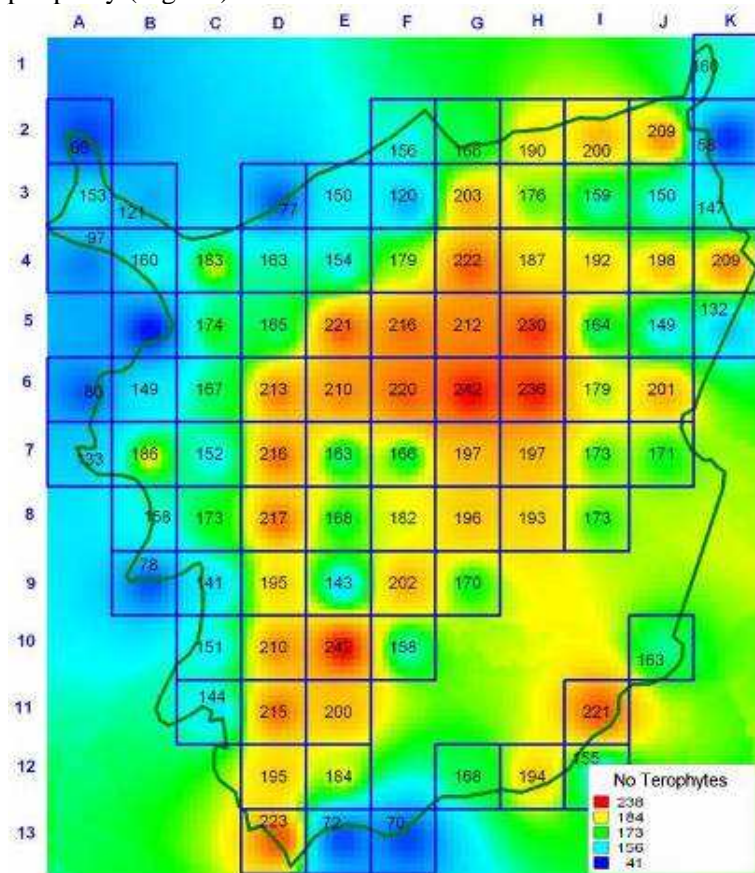


Figure 31. Total number of therophytic taxa per quadrant (1 km<sup>2</sup>) in the city area of Podgorica.

### Hemicryptophytes

Hemicryptophytes are represented in the flora of Podgorica with 388 species (31.8%). Hemicryptophytes with scapose forms (H scap-59.8%) prevail, followed by caespitose forms (H caesp-15.7%), semirosette forms (H semiros- 14.7%), rosette forms (H ros- 4.1%) and reptant forms (H rept- 5.7%) (Fig. 32).

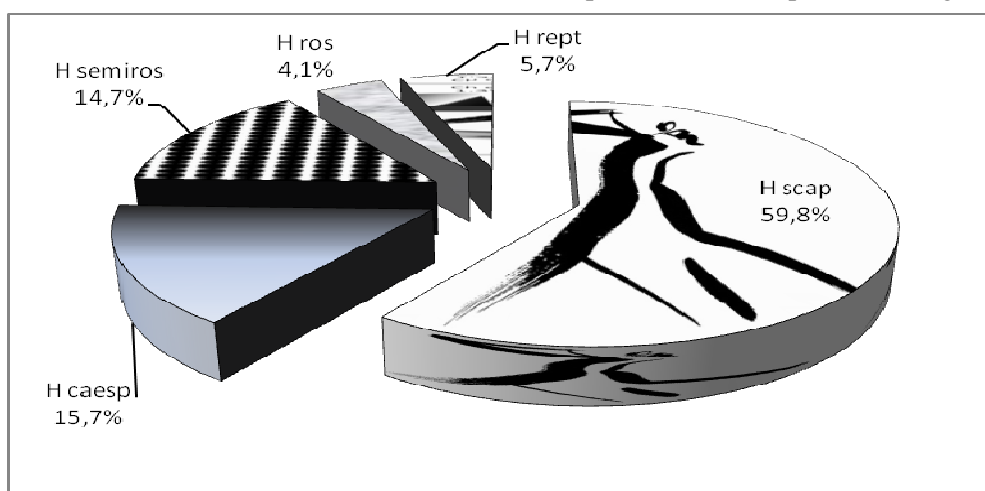


Figure 32. Breakdown participation of taxa with hemicryptophytic life forms in the flora of Podgorica.

Regarding phenology, most hemipterophytes are in flower simultaneously in May and June, and the smallest number flower in December (Table 9). In relation to plant dimensions, taxa with medium to high forms are prevalent (Table 10).

**Table 9.** Number of taxa with different hemipterophytic forms in the flowering phenophase of the flora of Podgorica per month.

Month	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
Life form												
H scap	1	1	4	45	132	<b>163</b>	116	102	79	23	5	1
H caesp	0	1	4	25	<b>48</b>	26	8	8	6	2	0	0
H semiros	0	2	4	21	<b>41</b>	39	19	17	14	2	0	0
H rept	0	0	0	8	<b>17</b>	12	8	7	5	0	0	0
H ros	3	3	4	8	<b>10</b>	9	6	5	5	4	2	1
<b>Σ H</b>	<b>4</b>	<b>7</b>	<b>16</b>	<b>107</b>	<b>248</b>	<b>248</b>	<b>157</b>	<b>139</b>	<b>109</b>	<b>31</b>	<b>7</b>	<b>2</b>

**Table 10.** Number of different hemipterophytic life forms in the flora of Podgorica according to the size of the above-ground part of the plants.

Plant height													Total
Form	Mi (3-10 cm)	Mi-Mes (3-30 cm)	Mes (10-30 cm)	Mes-Mac (10-60 cm)	Mes-Meg (10-100 cm)	Mes-Alt (10cm, >1m)	Mac (30-60 cm)	Mac-Meg (30-100 cm)	Mac-Alt (30 cm, >1m)	Meg (60-100 cm)	Meg-Alt (>60cm)	Alt (>1m)	Total
H scap	-	8	29	48	<b>53</b>	2	14	22	14	12	21	9	232
H caesp	-	-	13	<b>19</b>	10	1	-	4	1	7	4	2	61
H semiros	-	7	5	<b>21</b>	8	1	2	6	-	3	4	-	56
H rept	2	2	<b>9</b>	4	4	-	-	-	-	1	-	-	22
H ros	2	2	<b>6</b>	5	1	-	-	-	-	-	-	-	16
<b>Σ H</b>	<b>4</b>	<b>19</b>	<b>62</b>	<b>97</b>	<b>76</b>	<b>4</b>	<b>16</b>	<b>32</b>	<b>15</b>	<b>23</b>	<b>29</b>	<b>11</b>	<b>388</b>

The majority of hemipterophytes has been recorded in natural and semi-natural types of habitats, in quadrants covering the immediate vicinity of the Morača and Cijevna canyons, the city hillocks and the flooding part of Tološko Polje (typical urbanophobes, Fig. 33).

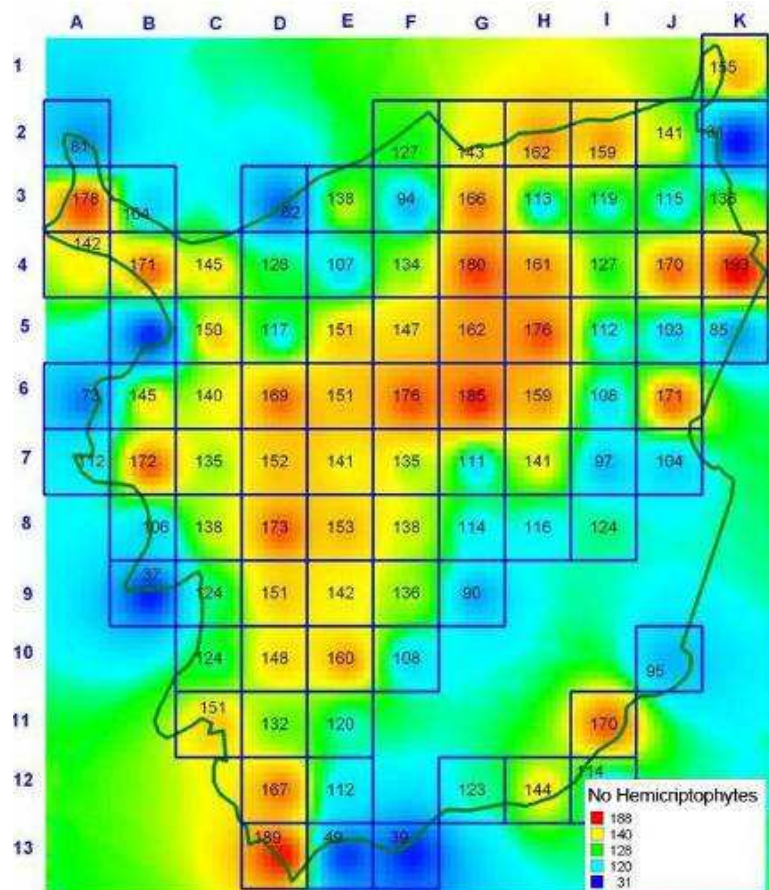


Figure 33. Total number of taxa with hemicryptophytic life forms per quadrant (1 km<sup>2</sup>) in the city area of Podgorica.

### Chamaephytes

In the flora of Podgorica chamaephytes are represented with four forms: fruticose (Ch frut), epiphytes (Ch ep), suffruticose (Ch suffr) and herbaceous chamaephytes (Ch herb) (Fig. 34); dominant among them is Ch suffr (73.4%).

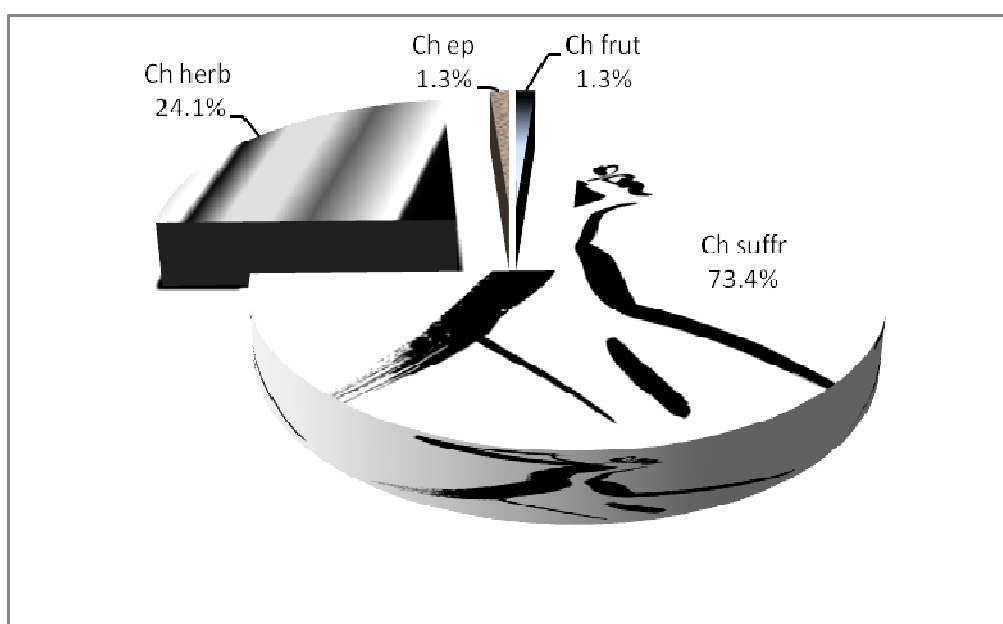


Figure 34. Breakdown participation of taxa with chamaephytic life forms in the flora of Podgorica

THE URBAN FLORA OF PODGORICA

In terms of plant dimensions, Mes (10-30 cm) form is dominant (Table 11) and the largest number of chamaephytes are flowering simultaneously in May (Table 12).

**Table 11.** Number of taxa with different chamaephytic life forms according to the size of the above-ground part of the plants.

Plant height												
Form	N-Mi (<10 cm)	Mi (3-10 cm)	Mi-Mes (3-30 cm)	<b>Mes (10-30 cm)</b>	Mes-Meg (10-100 cm)	Mes-Mac (10-60 cm)	Mes-Alt (10-30 cm, >1m)	Mac (30-60 cm)	Mac-Meg (30-100 cm)	Mac-Alt (30-60 cm, >1m)	Meg-Alt (> 60 cm)	Σ
<b>Ch herb</b>												
- caesp	-	2	1	4	-	-	-	-	-	-	-	7
- succ	-	-	-	6	-	-	-	-	1	-	-	7
- rept	-	1	3	1	-	-	-	-	-	-	-	5
<b>Ch suffr</b>												
- caesp	-	1	8	<b>16</b>	7	10	1	4	1	1	2	51
- succ	-	-	-	1	-	-	-	-	-	-	-	1
- rept	-	-	1	1	1	-	-	-	-	-	-	3
- caesp-rept	3	-	-	2	1	-	-	-	-	-	-	3
<b>Ch frut</b>	-	-	-	-	1	-	-	-	-	-	-	1
<b>Ch ep</b>	1	-	-	-	-	-	-	-	-	-	-	1
<b>Total</b>	1	4	13	<b>31</b>	10	10	1	4	2	1	2	79

**Table 12.** Number of taxa with different chamaephytic life forms in the flowering phenophase of the flora of Podgorica per month.

Month	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
Life form												
<b>Ch herb</b>												
- caesp	-	-	-	<b>3</b>	<b>3</b>	1	1	1	-	-	-	-
- succ	-	-	1	3	<b>6</b>	4	1	-	-	-	-	-
- rept	-	-	-	2	<b>5</b>	<b>5</b>	2	-	-	-	-	-
<b>Ch suffr</b>												
- caesp	-	-	3	12	<b>31</b>	28	14	15	15	5	2	-
- succ	-	-	-	-	<b>1</b>	<b>1</b>	-	-	-	-	-	-
- rept	-	-	<b>3</b>	<b>3</b>	2	-	-	-	-	-	-	-
- caesp-rept	-	-	-	<b>2</b>	<b>2</b>	1	-	-	-	-	-	-
<b>Ch frut</b>	-	-	-	<b>1</b>	<b>1</b>	-	-	-	-	-	-	-
<b>Ch ep</b>	-	-	-	-	<b>1</b>	<b>1</b>	-	-	-	-	-	-
<b>Total</b>	-	-	7	26	<b>52</b>	41	18	16	15	5	2	-

The chamaephytic form contains mostly urbanophobic plants, bound by habitat to canyons of Morača and Cijevna Rivers and the karst terrains of city hillocks (Srpska and Kakaricka gora). The smallest number of these plants has been recorded in the W and NW parts of the city area, where grasslands are prevalent (Mareza, Tološko Polje, Lješkopolje), but also in the SE and E parts (Fig. 35), characterised by exposure to strong disturbance (Zlatica, Konik, Vrela Ribnička, Stari Aerodrom).

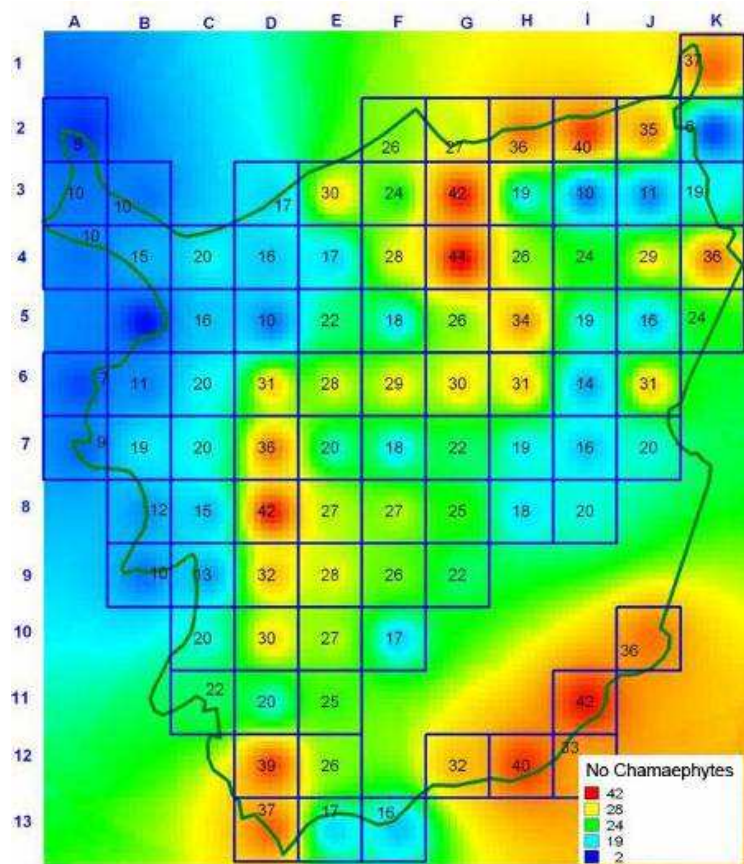


Figure 35. Total number of taxa with chamaephytic life forms in the city area of Podgorica per quadrant (1 km<sup>2</sup>).

### Geophytes

In the flora of Podgorica geophytes are represented with four forms: bulbous geophytes (G bulb), tuberous geophytes (G tub), root geophytes (G rad) and rhizome geophytes (G rhiz).

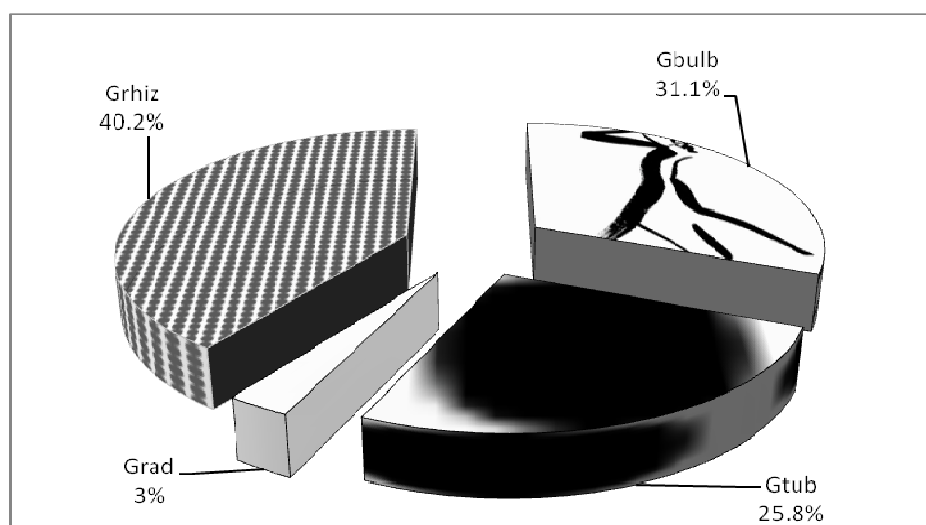


Figure 36. Breakdown participation of taxa with geophytic life forms in the flora of Podgorica.

Represented with the largest number of taxa are Grhiz forms (40.2%), then Gbulb (34.6%), Gtub (25.8%) and lastly Grad (3%) (Fig. 36).

Most geophytes flower in May. Regarding the dimensions of the above-ground part, Mes form dominates (Tables 13 and 14).

**Table 13.** Number of taxa with different geophytic life forms in the flowering phenophase of the flora of Podgorica per month.

Month Life form	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
G bulb	4	9	12	<b>17</b>	13	10	6	3	3	2	0	1
G rhiz	0	1	7	22	<b>26</b>	10	10	5	0	0	0	0
G tub	0	1	0	22	<b>26</b>	5	1	2	4	2	0	0
G rad	0	0	2	0	3	<b>4</b>	2	1	0	0	0	0
<b>Total</b>	4	11	21	61	<b>68</b>	29	19	11	7	4	0	1

**Table 14.** Number of taxa with different geophytic life forms according to the size of the above-ground part of the plants.

Form	Plant height													Total
	N (< 3cm)	Mi (3-10cm)	Mi-Mes (3-30 cm)	<b>Mes (10-30 cm)</b>	Mes-Mac (10-60 cm)	Mes-Meg (10-100 cm)	Mes-Alt (10, >1m)	Mac (30-60 cm)	Mac-Meg (30-100 cm)	Mac-Alt (30, >1m)	Meg (60-100 cm)	Meg-Alt (>60 cm)	Alt (> 1m)	
G rhiz	-	1	6	6	9	<b>13</b>	1	-	1	2	-	10	4	53
G bulb	3	<b>8</b>	6	6	6	3	-	2	3	-	-	3	-	41
G tub	-	1	7	<b>17</b>	5	2	-	-	-	-	1	-	1	34
G rad	-	-	-	-	-	1	-	-	-	1	-	-	2	4
<b>Total</b>	3	10	20	<b>29</b>	20	19	1	2	4	3	1	13	7	132

Similar to other forms characterised by the prevalence of the urbanophobic component (Ch, P, H) most species of geophytes have been recorded in quadrants containing (semi) natural habitats (canyons of Morača and Cijevna Rivers, thickets on city hillocks and the flooding part of Tološko Polje, Fig. 37).



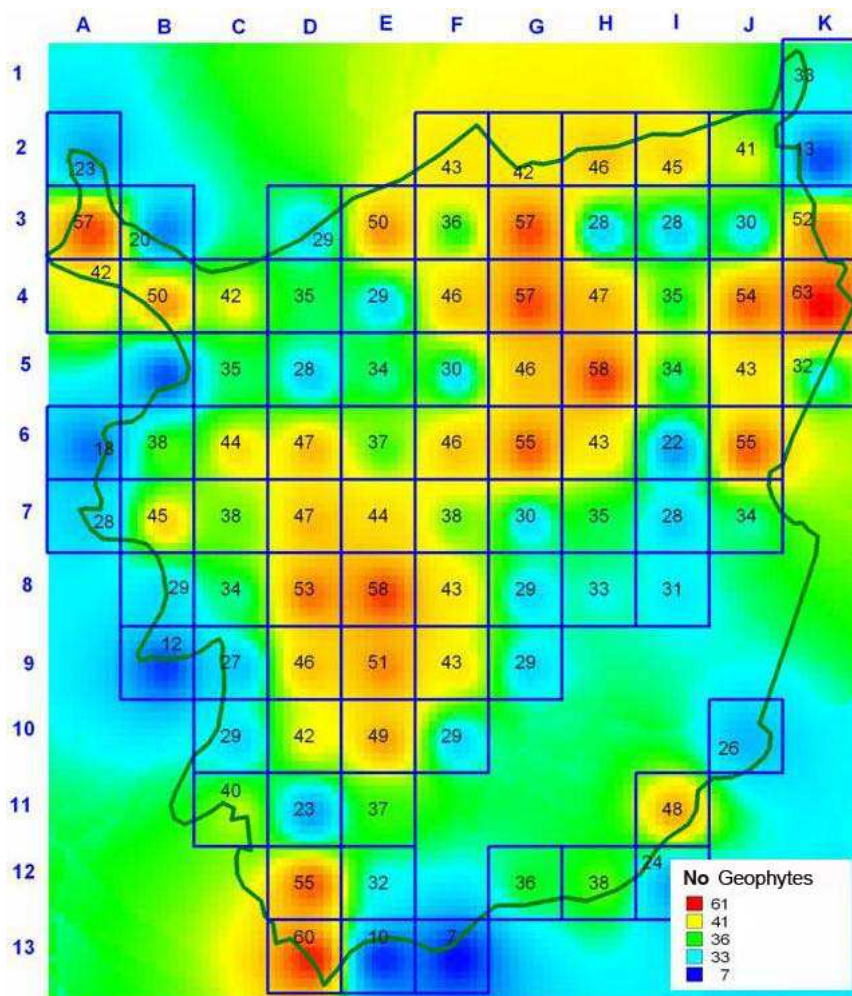


Figure 37. Total number of taxa with geophytic life forms in the city area of Podgorica per quadrant (1 km<sup>2</sup>).

### Hydrophytes

In the flora of the city area of Podgorica, 30 hydrophytes have been recorded - 23 with perennial geophytic form, and 7 with annual form (Table 15).

Table 15. Number of taxa with hydrophytic life forms in the flora of Podgorica.

HydG rhiz (18 spp.)			HydG rad (5 spp.)		HydG non rad (1 spp)
Emer	Nat	sbm	Sbm		Sbm
15	2	1	4		1
<b>Total HydG (23 spp.)</b>					
HydT rad (4 spp.)			HydT er (3 spp.)		
Nat		nat-sbm	nat		Sbm
2		2	2		1
<b>Total HydT 7 (spp.)</b>					

Regarding phenology, most hydrophytes flower in June (Table 16). In terms of the dimensions of the above-ground part, Alt (>1m) form is dominant (Table 17).



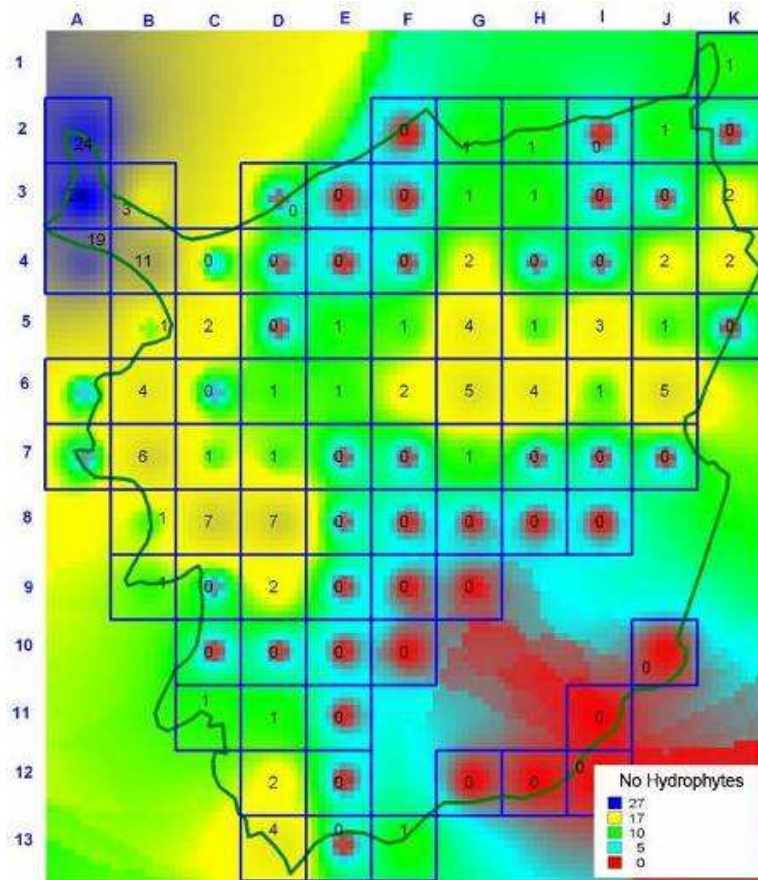
**Table 16.** Number of taxa with different hydrophytic life forms in the flowering phenophase of the flora of Podgorica per month.

Month Form	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
<b>HydG rhiz</b>												
- emer	-	-	-	-	6	<b>11</b>	9	5	4	-	-	-
- nat	-	-	-	-	-	-	2	2	-	-	-	-
- sbm	-	-	-	-	-	-	2	2	-	-	-	-
<b>HydG rad</b>	-	-	-	-	-	-	-	-	-	-	-	-
- sbm	-	-	-	1	2	<b>4</b>	3	1	-	-	-	-
<b>HydT rad</b>	-	-	-	-	-	-	-	-	-	-	-	-
- nat	-	-	-	2	2	2	-	-	-	-	-	-
- nat-sbm	-	1	2	2	2	1	-	-	-	-	-	-
<b>HydT er</b>	-	-	-	-	-	-	-	-	-	-	-	-
- nat	-	-	-	-	-	<b>2</b>	2	-	-	-	-	-
- sbm	-	-	-	1	1	-	-	-	-	-	-	-
<b>Total</b>	0	1	2	6	13	<b>24</b>	18	6	4	0	0	0

**Table 17.** Number of taxa with different hydrophytic forms according to the size of the above-ground part of the plants.

Form	Plant height							Σ
	N (< 3cm)	Mes (10-30 cm)	Mes-Mac (10-60 cm)	Mes-Meg (10-100 cm)	Mes-Alt (10, <1m)	Meg-Alt (< 60cm)	Alt (>1m)	
<b>Hyd G rhiz</b>								
- emer	-	1	1	1	1	2	<b>9</b>	15
- nat	-	-	-	-	-	-	<b>2</b>	2
- sbm	-	-	-	-	-	<b>1</b>	-	1
<b>Hyd G non rad</b>								
- sbm	-	-	-	-	-	1	-	1
<b>Hyd G rad</b>								
- sbm	-	-	-	-	-	-	<b>4</b>	4
<b>Hyd T rad</b>								
-nat	-	-	-	-	-	<b>2</b>	-	2
- nat-sbm	-	-	-	-	-	-	<b>2</b>	2
<b>Hyd T er</b>								
- nat	1	1	-	-	-	-	-	2
- sbm	1	-	-	-	-	-	-	1
<b>Total</b>	2	2	1	1	1	6	<b>17</b>	30

Hydrophytes are a group with the most limited distribution in the city area (Fig. 38). Most of them have been recorded at Mareza and along the right bank of Sitnica. Due to their specific ecological requirements, hydrophytes are completely absent from quadrants located on Čemovsko Polje and city hillocks.



**Figure 38.** Total number of taxa with hydrophytic life forms in the city area of Podgorica per quadrant (1 km<sup>2</sup>)

**Parasitic forms**

The parasitic form is represented with two sub-forms: ST Par (parasitic scandentophyta & therophyta) and Par G (parasitic geophyta). The first includes four plants of the genus *Cuscuta*, while the second is represented by 6 plants of the genus *Orobanche*. According to the dimensions of the above-ground part of the plants, Mes form (10-30 cm) is dominant. The largest number of representatives of the parasitic form flower simultaneously in May (Table 18).

**Table 18.** Number of taxa with different parasitic life forms according to the size of the above-ground part of the plants and in the flowering phenophase of the flora of Podgorica per month.

Plant size, Month											
Form				I-III	IV	V	VI	VII	VIII	IX-XII	
	Mi (3-10 cm)	Mes (10-30 cm)	Alt (>1m)	Total							
Par scand	-	-	4	4	-	-	3	3	2	1	1
Par G	2	4	-	6	-	2	6	2	-	-	-
<b>Σ Par</b>	2	4	4	10	-	2	9	5	2	1	1

The largest number of taxa have been recorded in the peri-urban zone, due to the fact that the host species they depend on belong to urbanophobe plants (Fig. 39).

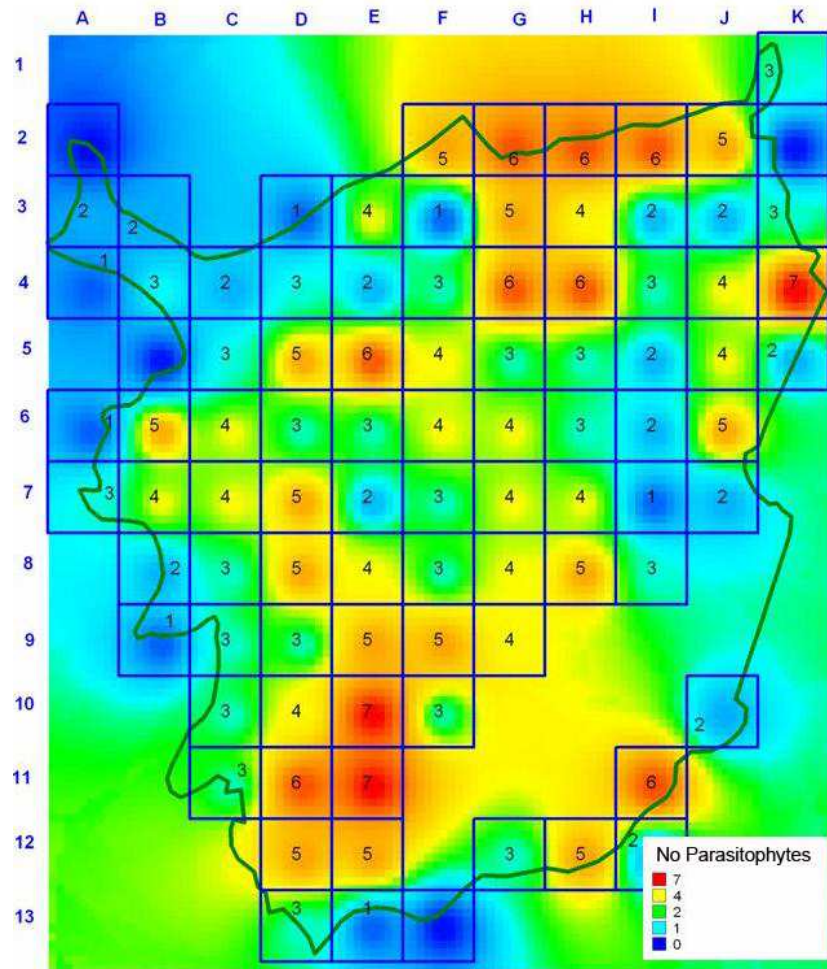


Figure 39. Total number of taxa with parasitic life forms in the city area of Podgorica per quadrant (1 km<sup>2</sup>)

**Scandentophyta**

The scandentophytic form is represented with woody (evergreens and deciduous) and herbaceous forms (annual and perennial). Most of the species flower simultaneously in May (Table 19). Concerning dimension of the above-ground part of the plant, Alt (>1m) form is dominant (Table 20).

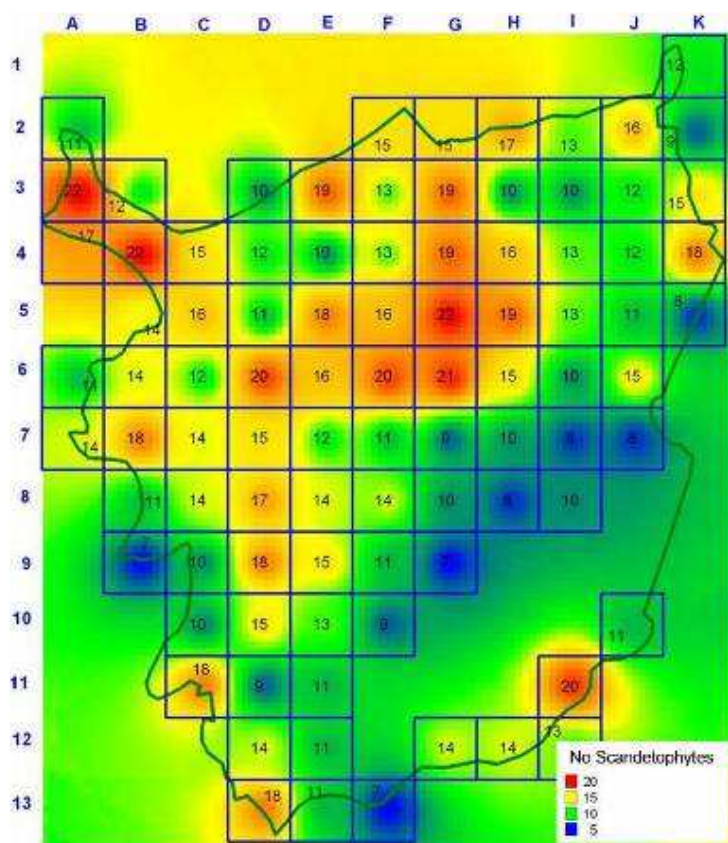
Table 19. Number of taxa with different scandentophytic life forms in the flowering phenophase of the flora of Podgorica per month.

Month	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
S lig semp	-	-	-	1	7	9	3	2	1	-	-	-
S lig a	-	-	-	1	2	1	-	1	3	2	-	-
S herb T	-	-	-	8	12	9	1	-	-	-	-	-
S herb H	-	-	-	-	4	3	1	1	-	-	-	-
S herb G rhiz	-	-	-	2	2	1	1	2	2	1	-	-
S herb G tub	-	-	-	-	2	2	-	-	-	-	-	-
Σ S	-	-	-	12	29	25	6	6	6	3	-	-

**Table 20.** Breakdown participation of taxa with scandentophytic life forms and number of different life forms according to the size of the above-ground part of the plants.

Plant height								
Form	Mes-Mac (10-60 cm)	Mes-Meg (10-100 cm)	Mac (30-60 cm)	Mac-Meg (30-100 cm)	Mac-Alt (30, >1m)	Meg-Alt (>60 cm)	Alt (>1m)	Total
<b>S lig</b>								
- semp	-	-	-	-	-	-	6	6
- a	-	-	-	-	-	-	9	9
<b>S herb</b>								
T	4	2	2	1	4	1	-	14
H	-	-	-	-	-	-	4	4
<b>G rhiz</b>	-	-	-	-	-	-	3	3
<b>G tub</b>	-	-	-	-	-	-	2	2
<b>Total</b>	4	2	2	1	4	1	24	38

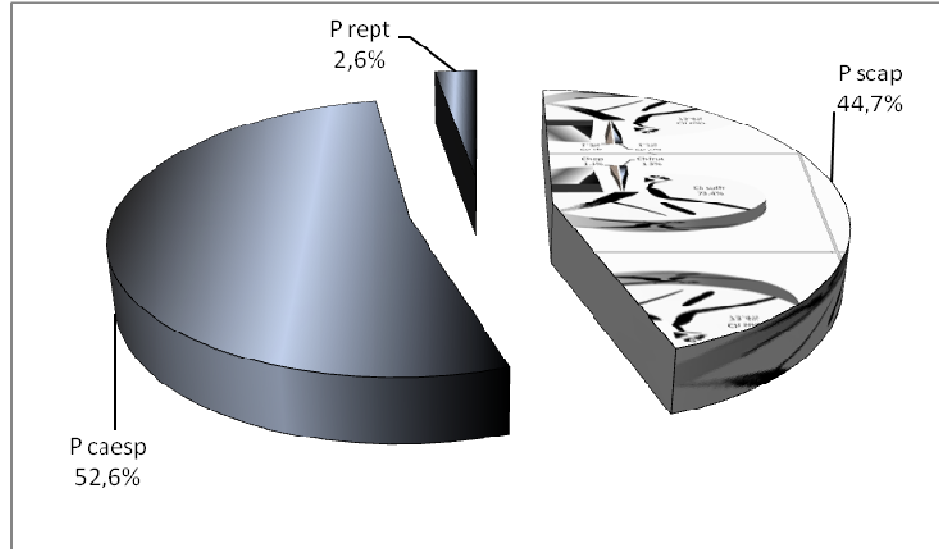
The most scandentophytes have been recorded in the central part of the city area, in the canyon of Cijevna River and on Tološko polje (Fig. 40). In terms of behaviour, dominating among them are urbanoneutral plants.



**Figure 40.** Total number of taxa with scandentophytic life forms in the city area of Podgorica per quadrant (1 km<sup>2</sup>).

**Phanerophytes**

Woody life forms are represented by shrub-like forms, scapose and reptant forms (Fig. 41). The domination of the shrub-like form is largely influenced by anthropogenic factors. Thereby, some plants have scapose form in the natural environment (e.g. *Carpinus orientalis*, *Crataegus monogyna* or *Prunus cerasifera*), while in the anthropogenically influenced ones have the shrub-like form.



**Figure 41.** Breakdown participation of taxa with phanerophytic life forms in the flora of Podgorica.

The majority of plants flower in May (74), while during September and December none of the woody taxa are in flower (Table 21). The majority of taxa have a Mes form (5-50 m) (Table 22).

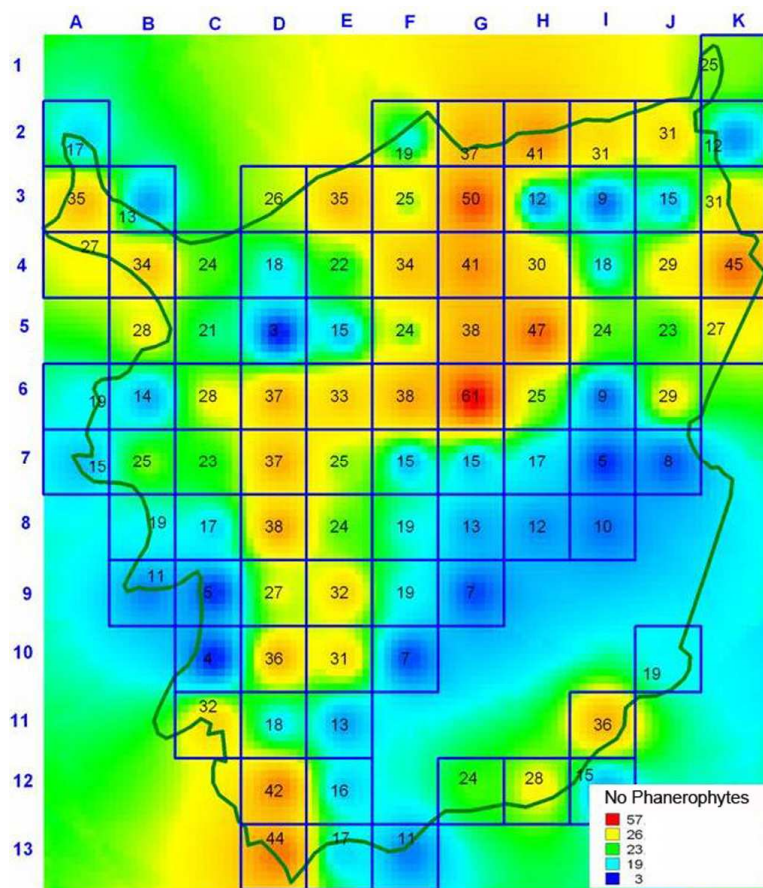
**Table 21.** Number of taxa with different phanerophytic life forms in the flowering phenophase of the flora of Podgorica per month.

Month	I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII
P caesp	1	2	7	28	<b>38</b>	22	3	2	0	1	1	0
P scap	0	5	14	<b>33</b>	31	12	2	2	0	0	0	0
P rept	0	0	0	0	<b>3</b>	<b>3</b>	2	1	0	0	0	0
<b>Σ P</b>	<b>1</b>	<b>7</b>	<b>21</b>	<b>61</b>	<b>72</b>	<b>37</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>1</b>	<b>1</b>	<b>0</b>

**Table 22.** Number of taxa with different phanerophytic life forms according to the size of the above-ground part of the plants (NP - nanophanerophyte, < 2 m; MiP - microphanerophyte, 2 - 5 m; MesP - mesophanerophyte, 5 - 50 m).

Form	Plant height				Total
	NP (< 2 m)	MiP (2 - 5 m)	Mi-Mes (2-50 m)	MesP (5 - 50 m)	
P scap	-	-	15	36	51
P caesp	31	5	1	23	60
P rept	3	-	-	-	3
<b>Total</b>	<b>34</b>	<b>5</b>	<b>16</b>	<b>59</b>	<b>114</b>





**Figure 42.** Total number of taxa with phanerophytic life forms in the city area of Podgorica per quadrant (1 km<sup>2</sup>).

The majority of phanerophytic urbanophobe plants is recorded in the immediate vicinity of Morača and Cijevna canyons, along the bank of Sitnica, at Mareza, as well as on part of the city hillocks, where fragments of natural forest vegetation are located (Fig. 42).

The most frequently found plant is the urbanoneutral Tree-of-Heaven (*Ailanthus altissima*), which managed to invade almost all types of habitats.

### Ecological indices

Analysing the values of ecological indices of various urban floras, Wittig & Durven (1981), Klotz (1984), Pyšek & Pyšek (1990) and Wittig (2002) concluded that when plants grow in cities are more demanding in terms of temperature, nitrogen, and to a smaller degree of humidity. Observing the floristic changes in the city of Halle from 1848 to 1983, it has been shown that the indicator values for temperature (T), quantity of nitrogen (N), soil reaction (R) were increased, while the value of the index of humidity (H) was declined (Klotz 1987).

Concerning light, L7 (26.4%) and L8 (22.3%) taxa are dominant (Table 23). Their high participation is explained by the domination of open and sunny habitats, exposure of the terrain to direct sunlight, which is mostly caused by the degradation of the primary forest cover. Sciophyllic plants (L1-L5) are only represented with 8.6%.

Typical representatives of L7 plants are the following: *Anthemis arvensis*, *Artemisia annua*, *A. verlotiorum*, *Bromus hordeaceus*, *Cardamine hirsuta*, *Cerastium glomeratum*, *Carduus pycnocephalus*, *Chenopodium album*, *Clematis vitalba*, *Convolvulus arvensis*, *Crepis neglecta*, *Erigeron annuus*, *Geranium brutium*, *G. purpureum*, *Hypericum perforatum*, *Lamium purpureum*, *Lotus corniculatus*, *Medicago orbicularis*, *Mercurialis annua*, *Poa annua*, *Parietaria judaica*, *Paliurus spina-christi*, *Polygonum aviculare*, *Polycarpon tetraphyllum*, *Rubus ulmifolius*, *Senecio vulgaris*, *Sonchus arvensis*, *Taraxacum officinale*, *Scandix pecten-veneris*, *Trifolium pratense*, *Vicia grandiflora*, *V. villosa* subsp. *varia*, etc.

Typical representatives of L8 plants are the following: *Amaranthus hybridus*, *Avena barbata*, *Berteroa mutabilis*, *Bromus madritensis*, *Bunias erucago*, *Calepina irregularis*, *Carex caryophylla*,

*Chondrilla juncea*, *Chrozophora tinctoria*, *Cynodon dactylon*, *Cuscuta scandens*, *Dasypyrum villosum*, *Erigeron bonariensis*, *Malva sylvestris*, *Medicago sativa*, *Micromeria juliana*, *Rhagadiolus stellatus*, *Rumex pulcher*, *Sagina apetala*, *Sherardia arvensis*, *Silene vulgaris*, *Sisymbrium officinale*, *Sedum acre*, *Sorghum halepense*, *Tragus racemosus*, *Trifolium arvense*, *T. campestre*, *T. nigrescens*, *Veronica persica*, *Xanthium orientale* subsp. *italicum*, etc.

**Table 23.** Values of ecological indices for the taxa of the flora of Podgorica city area. L: light, T: temperature, H: humidity, R: soil reaction, N: nitrogen. Dominant values of ecological indices are marked in bold letters. x: taxa with indifferent values. 0: taxa without value.

Indices / Values	Light		Temperature		Humidity		Soil Reaction		Nitrogen	
	No taxa	%	No taxa	%	No taxa	%	No taxa	%	No taxa	%
1	2	0.2	1	0.1	9	0.7	5	0.4	99	8.1
2	2	0.2	2	0.2	171	14.0	29	2.4	<b>205</b>	<b>16.8</b>
3	4	0.3	1	0.1	<b>287</b>	<b>23.5</b>	57	4.7	<b>151</b>	<b>12.4</b>
4	33	2.7	22	1.8	<b>226</b>	<b>18.5</b>	68	5.6	130	10.6
5	63	5.2	134	11.0	127	10.4	<b>228</b>	<b>18.7</b>	133	10.9
6	110	9.0	173	14.2	59	4.8	100	8.2	87	7.1
7	<b>322</b>	<b>26.4</b>	<b>262</b>	<b>21.4</b>	50	4.1	<b>223</b>	<b>18.2</b>	90	7.4
8	<b>272</b>	<b>22.3</b>	<b>231</b>	<b>18.9</b>	35	2.9	123	10.1	58	4.7
9	94	7.7	125	10.2	25	2.0	26	2.1	28	2.3
10	1	0.1	18	1.5	22	1.8	-	0.0	-	0.0
11	150	12.3	3	0.2	4	0.3	-	0.0	-	0.0
12	1	0.1	3	0.2	12	1.0	-	0.0	-	0.0
x	4	0.3	82	6.7	32	2.6	192	15.7	65	5.3
0	164	13.4	165	13.5	163	13.3	171	14.0	176	14.4
Total	1222	100	1222	100	1222	100	1222	100	1222	100.0

Concerning temperature, thermophilic species T7 (21.4%) and T8 (18.9%) are dominant, as the city area of Podgorica is located in the Mediterranean climatic region (Table 23). Lower value of the temperature index T1-T4 have only 2.2% of the taxa. They are bound to more shady habitats, such as canyon of Morača or Cijevna Rivers, river banks or humid habitats but also the north slopes of city hillocks. The species with the highest value of the temperature index (T12): *Heliotropium supinum*, *Chrozophora tinctoria* and *Aegilops neglecta*.

Typical representatives of T7 index are: *Ailanthus altissima*, *Artemisia annua*, *A. verlotiorum*, *Bromus sterilis*, *B. madritensis*, *Cerastium brachypetalum*, *Chenopodium album*, *Chondrilla juncea*, *Clematis vitalba*, *Consolida regalis*, *Convolvulus arvensis*, *Digitaria sanguinalis*, *Echinochloa crus-galli*, *Erigeron annuus*, *Erophila spathulata*, *Euphorbia helioscopia*, *Fumaria officinalis*, *Geranium brutium*,

*Lamium purpureum*, *Mercurialis annua*, *Polycarpon tetraphyllum*, *Ranunculus millefoliatus*, *Tragus racemosus*, *Tamus communis*, *Scandix pecten-veneris*, etc.

Typical representatives of T8 index are: *Arum italicum*, *Bupleurum baldense* subsp. *gussonei*, *Berteroa mutabilis*, *Bunias erucago*, *Calepina irregularis*, *Cardamine hirsuta*, *Carduus pycnocephalus*, *Carthamus lanatus*, *Datura stramonium*, *Eleusine indica*, *Erigeron bonariensis*, *E. sumatrensis*, *Euphorbia maculata*, *Foeniculum vulgare*, *Geranium lucidum*, *Heliotropium europaeum*, *Hypericum perforatum*, *Medicago rigidula*, *Paliurus spina-christi*, *Parietaria judaica*, *Petrorhagia saxifraga*, *Portulaca oleracea*, *Punica granatum*, *Rubus ulmifolius*, *Rumex pulcher*, *Scolymus hispanicus*, *Sorghum halepense*, *Teucrium capitatum*, *Trifolium incarnatum*, *T. resupinatum*, *Vicia grandiflora*, *Xanthium orientale* subsp. *italicum*.

Regarding humidity, the taxa with H3 and H4 index dominate (a total of 42.0%), which correlates with the climatic conditions and the geomorphology of the study area. Plants belonging to moderately humid, humid and aquatic habitats (index values H7-H12) are represented with 12.2% and are restricted to the flooding areas of Mareza, river and channel banks and some micro localities with high levels of ground water (Table 23).

Some of the representatives with H3 values are: *Berteroa mutabilis*, *Bromus madritensis*, *Calepina irregularis*, *Carduus pycnocephalus*, *Cerastium brachypetalum*, *Chondrilla juncea*, *Eryngium amethystinum*, *Euphorbia helioscopia*, *Foeniculum vulgare*, *Geranium purpureum*, *Heliotropium europaeum*, *Hordeum murinum* subsp. *leporinum*, *Leontodon crispus*, *Linaria pelisseriana*, *L. vulgaris*, *Medicago orbicularis*, *Parentucellia latifolia*, *Parietaria judaica*, *Rhagadiolus stellatus*, *Reseda phyteuma*, *Scandix pecten-veneris*, *Scrophularia canina*, *Tragopogon porrifolius*, *Verbascum blattaria*, *Vicia grandiflora*, *Viola kitaibeliana*, etc.

Representatives with H4 values are: *Anthemis arvensis*, *Aristolochia clematitis*, *Bunias erucago*, *Bromus sterilis*, *Carex caryophylla*, *Chenopodium album*, *Consolida regalis*, *Convolvulus arvensis*, *Cynodon dactylon*, *Euphorbia peplus*, *Fumaria officinalis*, *Galium aparine*, *Lamium purpureum*, *Lepidium virginicum*, *Lotus corniculatus*, *Mercurialis annua*, *Oxalis corniculata*, *Portulaca oleracea*, *Polycarpon tetraphyllum*, *Ranunculus millefoliatus*, *Silene vulgaris*, *Sisymbrium officinale*, *Sonchus oleraceus*, *Stellaria media*, *Rubus ulmifolius*, *Trifolium campestre*, *T. incarnatum* etc.

Concerning soil reaction, neutrophilic species are dominant (R5-18.7%), then neutro-basophile species (R7-18.2%) and indifferent species (Rx-15.7%) (Table 25). Acidophile species (R1-R3) are represented with 7.5%, acid-neutrophilic with 5.6%, while typical basophile species are presented with 2.1%.

Some of the representatives of R5 are: *Ailanthus altissima*, *Artemisia verlotiorum*, *Bunias erucago*, *Calepina irregularis*, *Carthamus lanatus*, *Cardamine hirsuta*, *Cerastium glomeratum*, *Convolvulus arvensis*, *Datura stramonium*, *Erigeron annuus*, *Erodium cicutarium*, *Euphorbia helioscopia*, *E. maculata*, *Galium aparine*, *G. mollugo*, *Geranium brutium*, *G. dissectum*, *Lamium purpureum*, *Lathyrus sphaericus*, *Polycarpon tetraphyllum*, *Trifolium incarnatum*, *T. nigrescens*, *Vicia grandiflora*, *Veronica persica*, etc.

Some of the representatives with Rx (indifferent) are: *Bellis perennis*, *Bromus sterilis*, *B. madritensis*, *Carduus pycnocephalus*, *Carex caryophylla*, *Crepis sancta*, *C. foetida*, *Cuscuta scandens*, *Cynodon dactylon*, *Erigeron sumatrensis*, *E. canadensis*, *Hedera helix*, *Hypericum perforatum*, *Malva sylvestris*, *Medicago arabica*, *Poa annua*, *Parietaria judaica*, *Plantago major*, *Punica granatum*, *Setaria viridis*, *Senecio vulgaris*, *Sisymbrium officinale*, *Silene alba* s.l., *Tordylium apulum*, *Verbena officinalis*, *Vitex agnus-castus*, *Xanthium spinosum*, *X. orientale* subsp. *italicum*, *Trifolium stellatum*, *T. Campestre*, etc.

Typical representatives of the R7: *Avena barbata*, *Bupleurum baldense* subsp. *gussonei*, *Cerastium brachypetalum*, *Chrozophora tinctoria*, *Eleusine indica*, *Foeniculum vulgare*, *Heliotropium europaeum*, *Leontodon crispus*, *Linaria vulgaris*, *Lotus corniculatus*, *Mercurialis annua*, *Paliurus spina-christi*, *Papaver rhoeas*, *Portulaca oleracea*, *Potentilla reptans*, *Ranunculus millefoliatus*, *Rhagadiolus stellatus*, *Saponaria officinalis*, *Sedum hispanicum*, *Silene vulgaris*, *Stellaria media*, *Tragopogon pratensis*, *Tragus racemosus*, etc.

Concerning N index, oligotrophic plants are dominant: N2-16.8% and N3-12.4% (Table 23), and with the increase of the nitrogen index the number of taxa declines.

Typical representatives of N2 are: *Avena barbata*, *Bupleurum baldense* subsp. *gussonei*, *Cerastium brachypetalum*, *Eleusine indica*, *Heliotropium europaeum*, *Lathyrus cicera*, *Leontodon crispus*, *Lotus corniculatus*, *Medicago arabica*, *Nigella damascena*, *Rhagadiolus stellatus*, *Silene vulgaris*, *Verbascum phoeniceum*, etc.



Typical representatives of N3 are: *Anemone hortensis*, *Bromus hordeaceus*, *Bunias erucago*, *Dichanthium ischaemum*, *Consolida regalis*, *Crataegus monogyna*, *Genista sericea*, *Hordeum murinum* subsp. *leporinum*, *Petrorhagia saxifraga*, *Potentilla recta*, *Ranunculus millefoliatus*, *Scilla autumnalis* etc.

### Phytogeographical analysis

In comparison to natural environments, cities represent a relatively young habitat type. According to Pyšek (1989a), their flora represents a compilation of native (autochthonous) and alien (allochthonous) species. Plants from the surrounding ecosystems that can adapt to the newly created, anthropogenic environment belong to the native flora (chorological types I-VIII and partially IX), while plants originating from more or less remote areas which were brought on purpose or accidentally through human actions, belong to the alien flora (IX chorological type, pro parte). Phytogeographic spectrum of the flora of Podgorica is given in the table 24.

**Table 24.** Phytogeographic spectrum of the flora of Podgorica with chorological types according to Pignatti (1982): I-Endemic, II-Steno-Mediterranean, III-Euri-Mediterranean, IV-Mediterranean-mountainous, V-Eurasian s.l., VI-Atlantic, VII-South European mountainous, VIII-Boreal, IX- Plants with wide distribution.

Chorological type	No of taxa	%
I	66	5.4
II	98	8.0
III	263	21.5
IV	27	2.2
V	312	25.6
VI	25	2.0
VII	9	0.7
VIII	53	4.3
IX	368	30.1
Total	1221	100.0

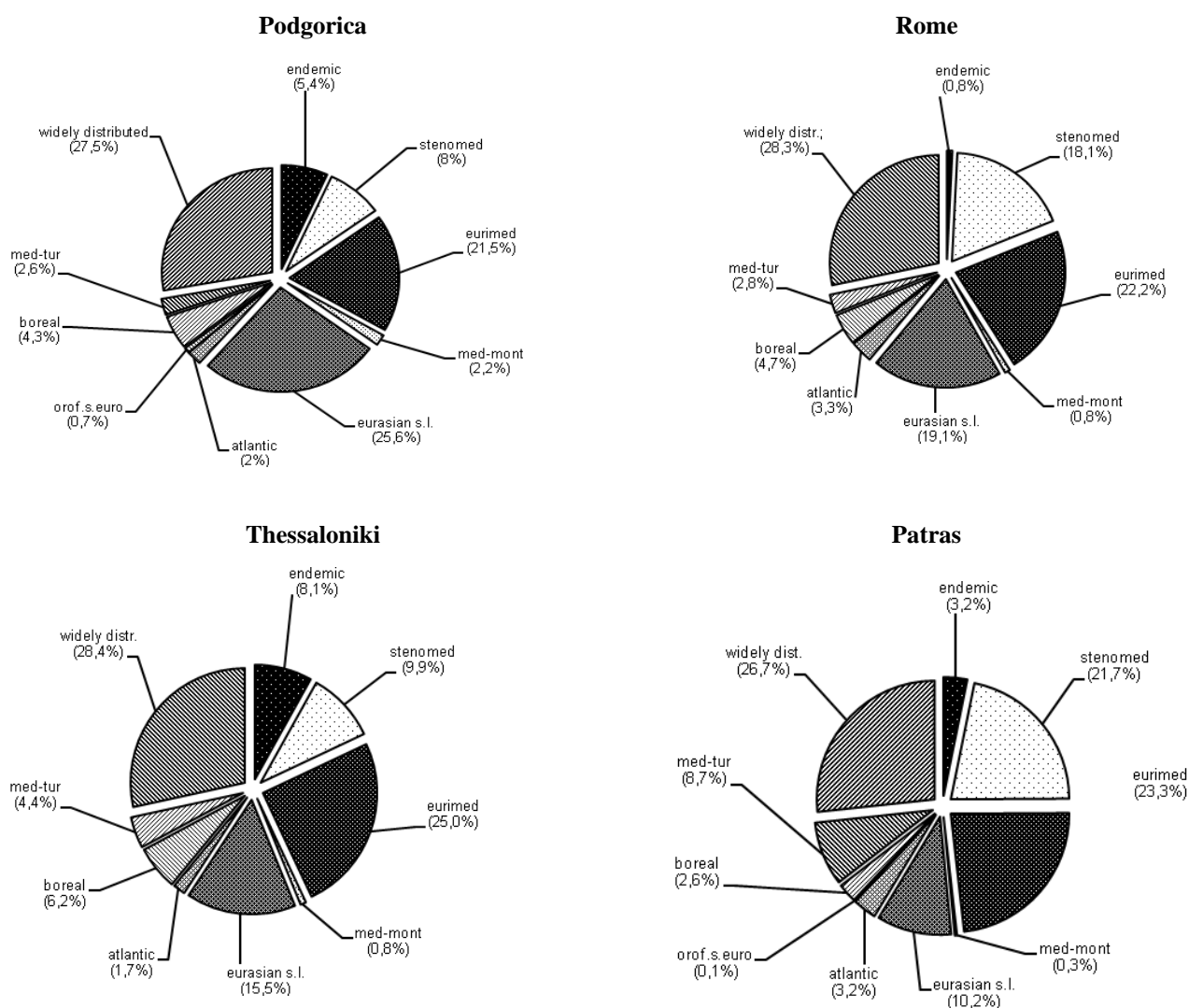
Dominant in the flora of Podgorica are plants with wide distribution areas (chorological type IX -30.1%) which include cosmopolitan (12.8%), Mediterranean-Turan (2.6%), Paleosubtropical (0.6%) and also alien elements (14.1%). The Eurasian chorological type, in a broader sense (type V-25.6%), and the Eurimediterranean types follow (type III-21.5%).

Concerning the aspect of areal groups, species of Mediterranean distribution (in a broad sense) which include type I (Endemic), type II (Stenomediterranean), type III (Eurimediterranean), type IV (Mediterranean-montane), and partially type IX (Mediterranean-Turanian) taxa are dominating with total of 39.7%.

The endemic chorological type (I) is represented with 5.4%. Comparing this value with those of the floristic spectra of Rome (0.8%), Patras (3.2%), and Thessaloniki (8.1%) (Fig. 43), the endemic elements in the phytogeographic spectrum of Podgorica is rather high.

The endemic chorological type includes endemic (4.4%) and sub-endemic (1%) elements such as Dinaric and Dinaric-Balkan elements of the South European mountainous distribution (e.g. *Asperula scutellaris*, *Genista sericea*, *Micromeria longipedunculata*, *Satureja subspicata*, etc.), Illyrian (Adriatic) and

Illyrian-Balkan elements of Mediterranean distribution (*Chaerophyllum coloratum*, *Crocus dalmaticus*, *Dianthus ciliatus* subsp. *dalmaticus*, *Hyacinthella dalmatica*, *Hieracium waldsteinii*, *Rhamnus orbicularis*, etc.) or sub-endemic Balkan-Apennine taxa (*Bupleurum baldense* subsp. *gussonei*, *Matthiola fruticulosa*, *Onosma echioides*, *Peucedanum coriaceum*, etc.).



**Figure 43.** Chorological spectra of the urban and suburban floras of Podgorica, Rome (Celasti Grapow, 1995), Thessaloniki (Krigas & Kokkini, 2004; 2005), Patras (Chronopoulos & Christodoulakis, 1996; 2000).

Due to the presence of semi-natural habitats in the city area of Podgorica, endemic elements have been recorded in the very urban core (Fig. 44). However, rapid urbanisation and insufficient care for the remaining fragments of natural habitats represent a serious threat to these plants. Most of the (sub) endemic taxa have been recorded in quadrants close to the river beds of Morača and Cijevna.

Investigating the flora and vegetation of different Mediterranean cities, Celesti Grapow (1998) showed that even the most urbanized regions reflected the flora of their immediate surroundings and were rich in native species, while participation of aliens was generally low, indicating an important role for apophytes (native plants occupying man-made habitats) in the Mediterranean area. In contrast to the Mediterranean region, central European cities are characterised by increased uniformity and high participation of alien plants which may range from 20% to 60%, with an average value of 35-40% (Brandes 1989, Pyšek 1998b). In the area of Podgorica, the alien component is represented with 14.1%.

The comparison of the chorological spectra of Podgorica with those of Rome, Patras and Thessaloniki, revealed the following (Fig. 43):

1. Prevalence of plants with wide distribution areas such as cosmopolitans (K) and aliens (A): in the flora of Rome (K)=11.3% and (A)=15.3%; in the flora of Patras (K)=12.8% and, (A)=12.4%; in the flora of Thessaloniki (K)=11.3% and (A)=14.5% and in the flora of Podgorica (K)=12.8% and (A)=14.1%.
2. High participation of the Mediterranean elements in a broader sense (stenomed, eurimed, med-mont and med-turan): in the flora of Patras (54%), Rome (44%), Thessaloniki (39.7%) and Podgorica (34.3%).

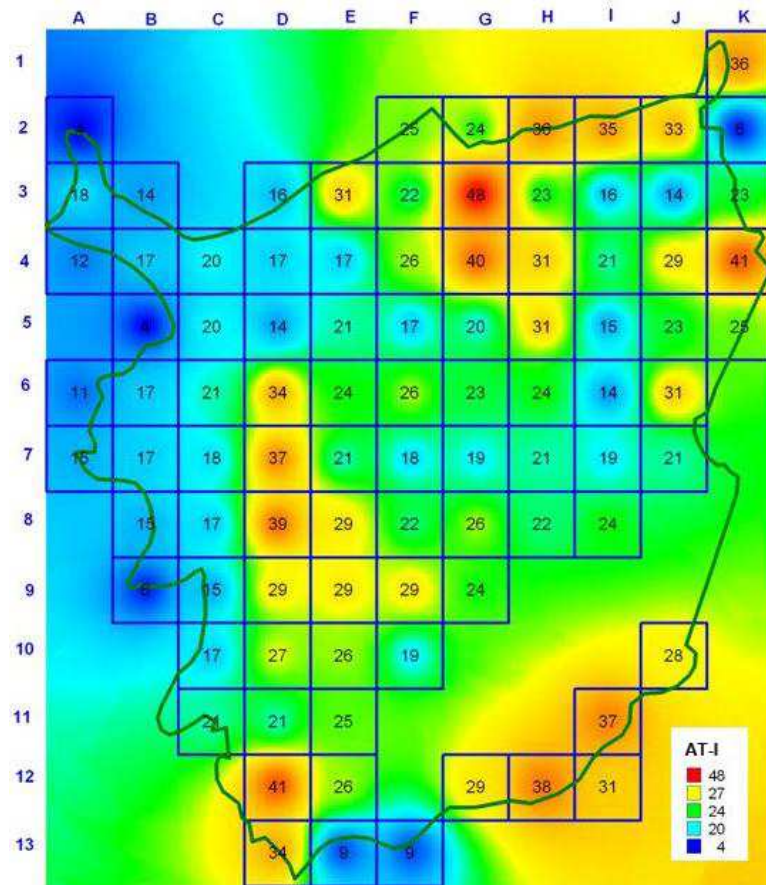


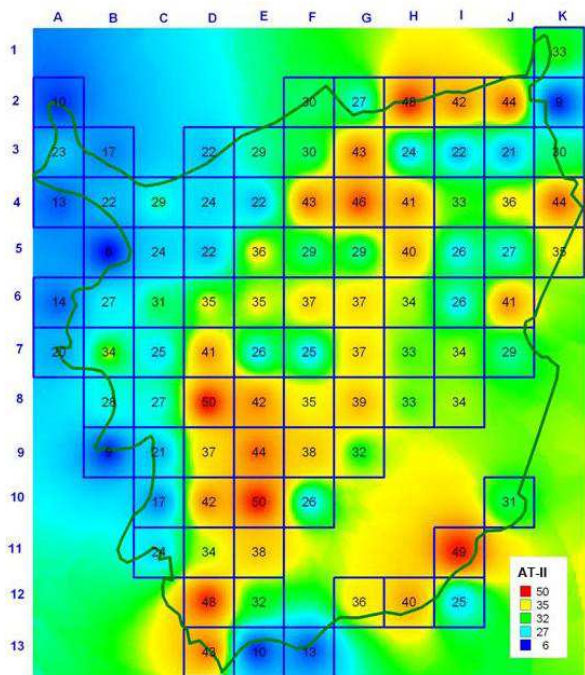
Figure 44. Total number of taxa of the endemic chorological type (I) per quadrant (1 km<sup>2</sup>) in the area of Podgorica.

Due to their ecological preferences, plants of steno-mediterranean and euri-mediterranean chorological type are the mostly abundant at the sunny, dry and partly disturbed habitats, located mainly in the vicinity of the river banks of Morača and Cijevna, and on the city hills (Fig. 45-46). Decrease of the number of such taxa towards NW and W (Mareza, Tološko polje, Vranići, Lješkopolje and part of Kokotski Ovčar), can be explained with changes in ecological conditions, from xero- to meso- and hygrophilous habitats, while their decrease in the quadrants of the central and the eastern part of the city is probably due to high anthropogenic pressure (Figs. 45-46).

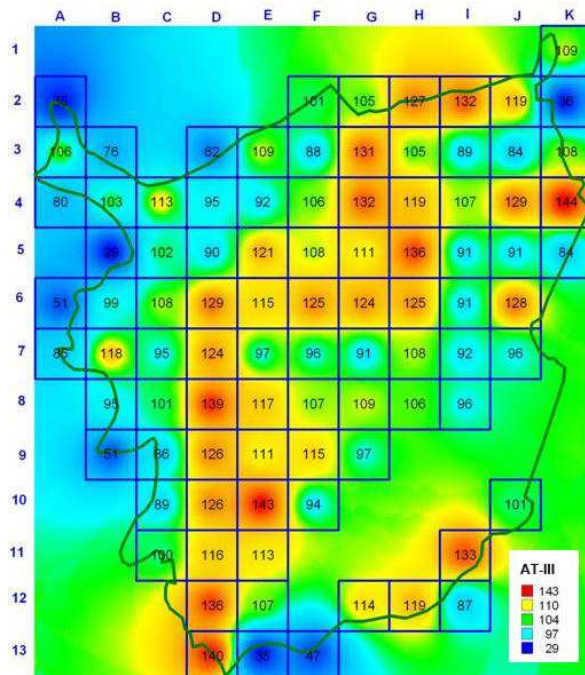
Grid distribution of plants of Mediterranean-mountainous (Fig. 47) and South European-mountainous chorological type (Fig. 50) is almost identical to the distribution of the endemic taxa, due to similar biological properties and overlapping ecological preferences.

Plants of the Eurasian and Atlantic chorological types have been recorded as the most numerous in quadrants which fully or partially include localities with fragments of natural or semi-natural vegetation: Mareza, part of Tološko Polje and Lješkopolje, immediate surroundings of the banks of Morača and Cijevna Rivers and part of Kakaricka gora (Fig. 48-49). These plants mostly prefer rather mesophilic habitats and their participation is small exactly in those quadrants in which sunny, dry, open and degraded habitats are prevalent. Within this chorological type, there are only urbanophobic and urbanoneutral plants, while typical urbanophiles are absent.

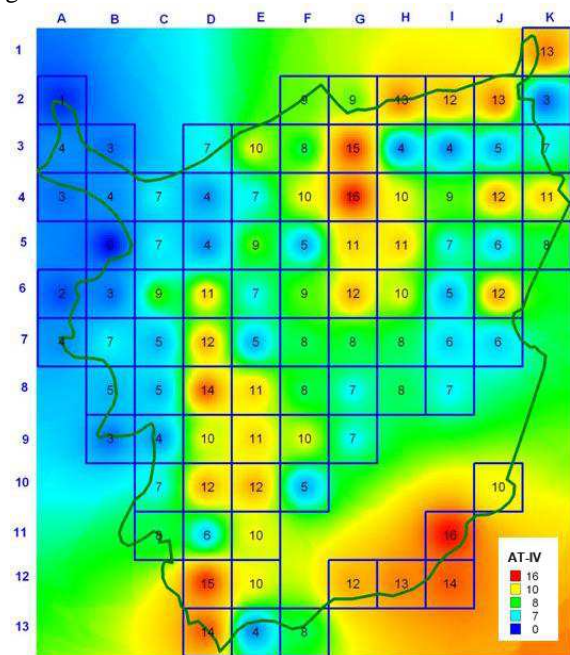




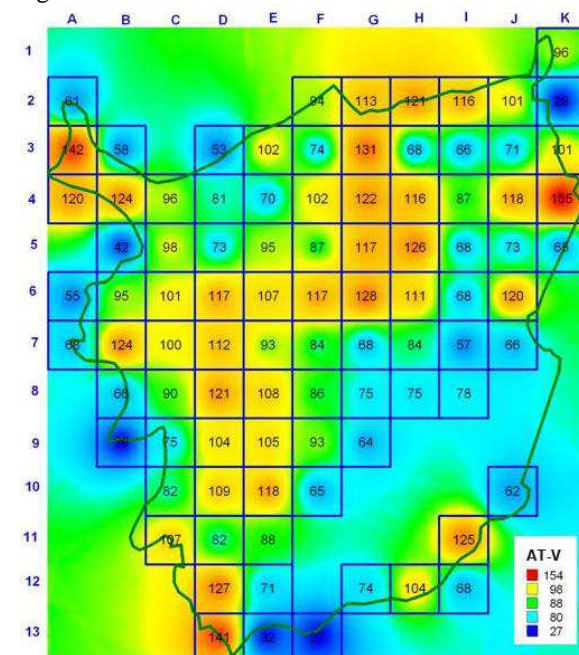
**Figure 45.** Total number of taxa of the Steno-med chorological type (II) per quadrant (1 km<sup>2</sup>) in the area of Podgorica



**Figure 46.** Total number of taxa of the Euri-med chorological type (III) per quadrant (1 km<sup>2</sup>) in the area of Podgorica



**Figure 47.** Total number of taxa of Mediterranean - montaneous chorological type (IV) per quadrant (1 km<sup>2</sup>) in the area of Podgorica.



**Figure 48.** Total number of taxa of Eurasian chorological type (V) per quadrant (1 km<sup>2</sup>) in the area of Podgorica.

Plants with wide distribution (IX chorological type) are the most numerous in the central part of the city area (Fig. 52) and belong to the category of urbanoneutrals or urbanophiles. A small group of Mediterranean-Turan plants are an exception in this group. Their number increases moving away from the central zone and with declining disturbance regime. Although represented with more than 50% in the chorological type of wide distribution, the alien component has a relatively small participation in the overall floristic spectrum (14.1%). This is explained by the city's relatively new expansion but also by the poorly developed transportation and trade networks until recently. Saarisalo-Taubert (1963) indicated the existence of a positive correlation between age of a settlement and structure of its flora. Therefore, we consider the old age

of Podgorica as the main reason for the small number of aliens. According to Sukopp *et al.* (1979), Sukopp & Werner (1983), Pyšek (1989a), and Kowarik (1990), development of a transportation and trade open better options for the introduction and spread of new species and contribute to their increasing numbers. Furthermore, the number of alien plants and the size of a settlement has been positively correlated (Sukopp *et al.* 1979a, Sukopp & Werner 1983, Pyšek 1989b, 1998a, Pyšek & Pyšek 1991, Hruška 1989). Examples chosen for our analysis corroborate this regularity. Rome (300 km<sup>2</sup>), as the largest of the compared cities, has the highest participation of the alien component (15.3%), while Patras, as the smallest (55 km<sup>2</sup>), has the smallest participation (12.4%).

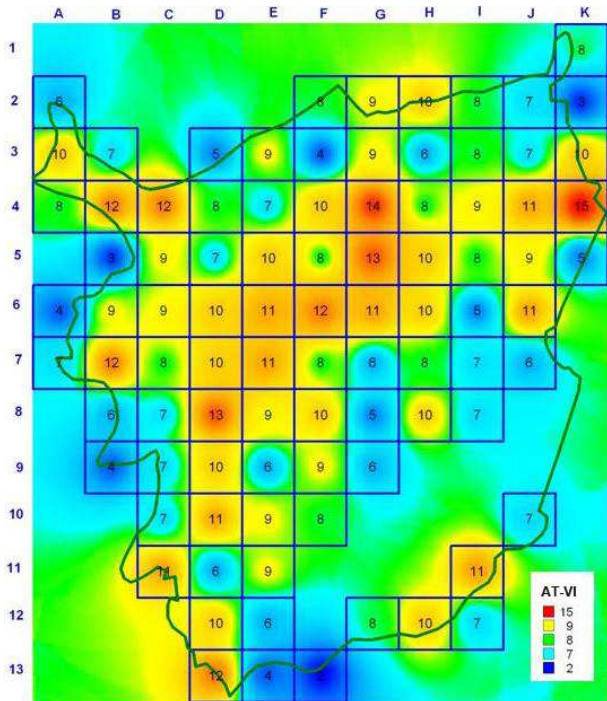


Figure 49. Total number of taxa of Atlantic chorological type (VI) per quadrant (1 km<sup>2</sup>) in the area of Podgorica.

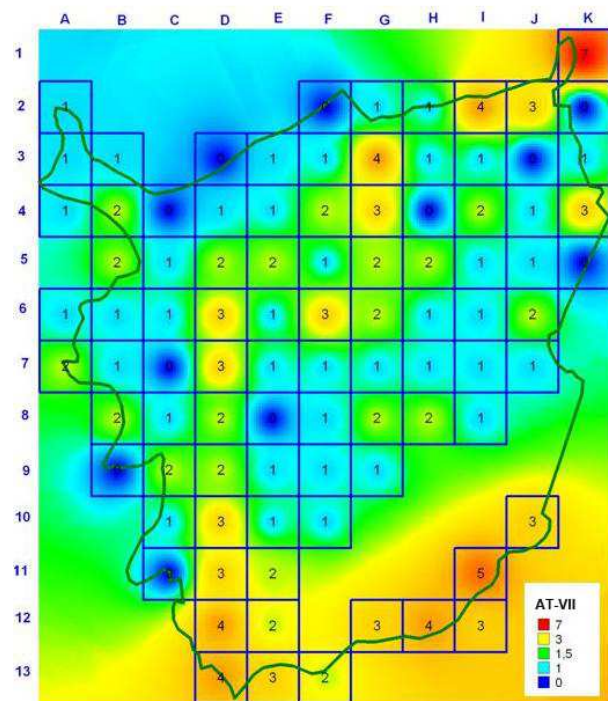


Figure 50. Total number of taxa of S. Eu.-mountainous chorological type (VII) per quadrant (1 km<sup>2</sup>) in the area of Podgorica.

Comparing the alien component of the floras of Italian cities, Hruška (1989) concludes that apart from the positive correlation between the size of a city and the number of alien species, the fact that in medium sized and large cities the percentage of decorative and naturalised exotic species is higher than in small cities. Deliberate introduction of plants is considered in many countries of the world as the main source of allochthonous species (Groves 1998, Mack 2003, Reichard & White 2001). New trends in gardening may largely contribute to the spread of plants within the boundaries of one country. Biological characteristics, making a species desirable for growing, almost as a rule may contribute to their successful spreading. According to Kowarik (2003), the naturalisation rate of the deliberately introduced species is notably higher than the spreading rate of the accidentally introduced ones.

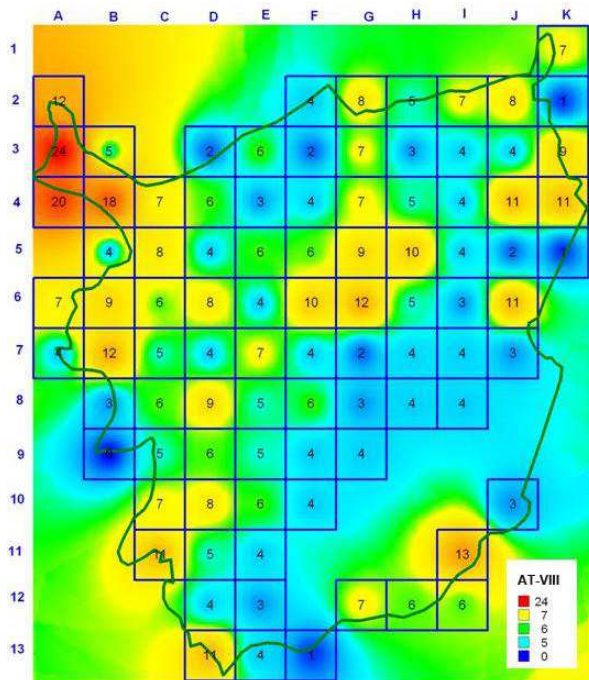
A good example of a decorative species that managed to spread rapidly across the city area of Podgorica because of its biological properties is *Broussonetia papyrifera*, even competing successfully with *Ailanthus altissima*. Recently, pampas grass (*Cortaderia selleana*), a plant from the EPPO list of invasive species ([http://www.eppo.int/INVASIVE\\_PLANTS/ias\\_lists.htm#IAPList](http://www.eppo.int/INVASIVE_PLANTS/ias_lists.htm#IAPList)) has become a common park decorative plant. It will not be surprising if pampas grass will soon go out of control and find its place on the list of the alien species of Podgorica.

By comparing the number of alien species in sub-urban areas and in the urban core, it has been observed that their number increases closer to the core (Kunick 1974, Wittig *et al.* 1989; Kowarik 1990, Chocholoušková & Pyšek 2003). This trend is also evident in the area of Podgorica (Fig. 53).

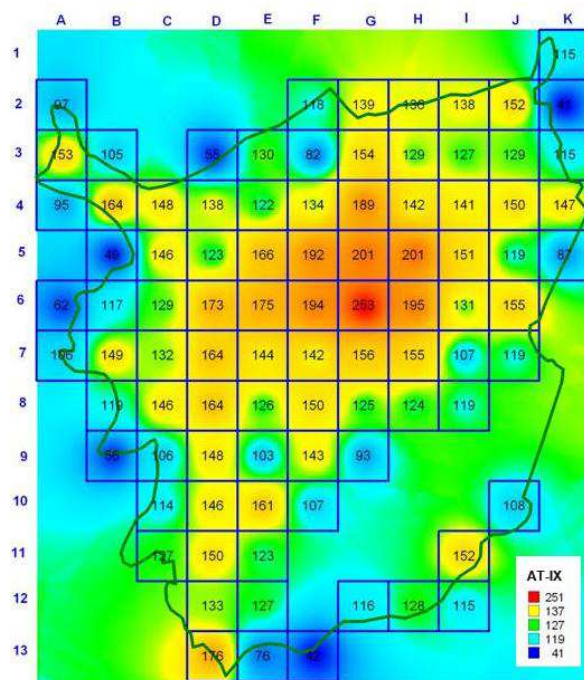
The number of alien taxa is also higher in habitats subjected to stronger disturbance regimes such as landfills, frequently trampled and mown meadows, cultivated land (Siniscalco & Montacchini 1989, Chronopoulos & Christodoulakis 2000, 2003). Habitats with scarce vegetation composition are more



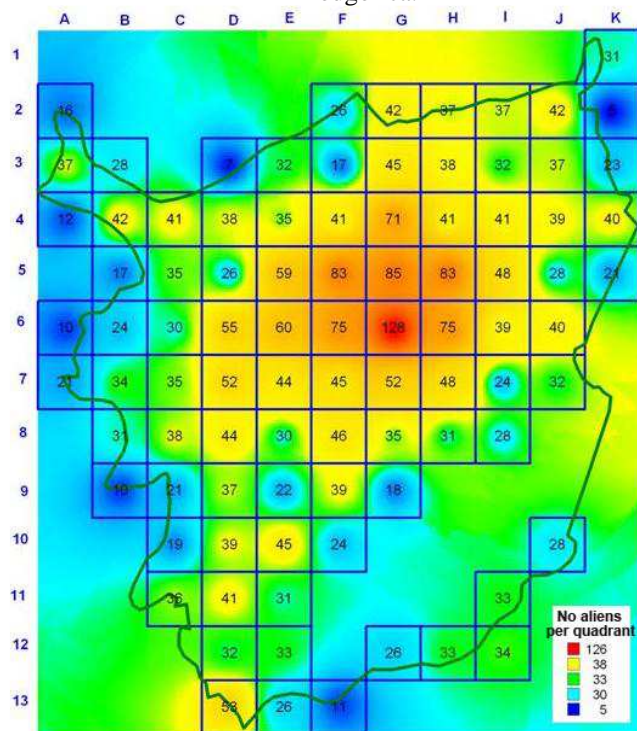
vulnerable to biological invasion compared to those with closed vegetation canopy (Kowarik 1995, Chytrý *et al.* 2005). According to Hobbs & Humphries (1995), the degree of vulnerability of habitat to invasion is conditioned by three disturbance parameters: intensity, frequency and change in its regime. The findings in Podgorica also support these statement. Because of the rapid urbanisation, scenes presented in figures 54-62 have become very frequent in the city area. Soon after the degradation of the vegetation cover, the newly created “bare spaces” are quickly colonised by *Ailanthus altissima*, *Xanthium orientale* subsp. *italicum*, taxa of the genus *Erigeron*, *Artemisa annua*, *A. verlotiorum*, *Bidens subalternans*, and *Symphytotrichum squamatum*.



**Figure 51.** Total number of taxa of boreal chorological type (VIII) per quadrant (1 km<sup>2</sup>) in the area of Podgorica.



**Figure 52.** Total number of taxa of widespread distribution (IX) per quadrant (1 km<sup>2</sup>) in the area of Podgorica.



**Figure 53.** Total number of alien taxa per quadrant (1 km<sup>2</sup>) in the Podgorica city area.





**Figure 54.** *Xanthium orientale* subsp. *italicum* and *Ailanthus altissima*.



**Figure 55.** *Artemisia verlotiorum*.



**Figure 56.** *Bidens subalternans*.



**Figure 57.** *Erigeron canadensis* & *E. sumatrensis*.



**Figure 58.** *Erigeron bonariensis*.



**Figure 59.** *Symphyotrichum squamatum*.



**Figure 60.** *Artemisia annua*.



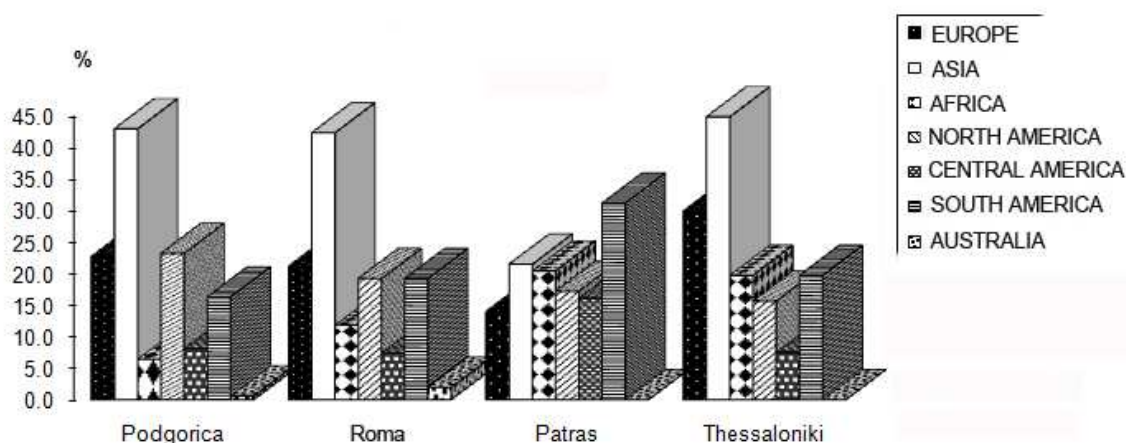


**Figure 61.** *Ailanthus altissima*.



**Figure 62.** *Broussonetia papyrifera*.

Dominant among the alien taxa in the flora of Podgorica are plants of Asian (43%) and North American (23.2%) origin (Fig. 63).



**Figure 63.** Phylogeographic spectra of the alien floras of Podgorica, Rome (Celasti Grapow, 1995), Thessaloniki (Krigas & Kokkini, 2004), Patras (Chronopoulos & Christodoulakis 2000). If the native area of a given plant envelops two or more continents, it was counted for each individual continent.

With the exception of the alien flora of Patras, where the South American element is dominant, prevalent in the floras of other cities are plants of Asian origin. The majority of these plants have been brought as ornamentals. Species of Australian origin are negligible (Rome-2%, Podgorica-0.6%) or are completely absent (Patras, Thessaloniki).

Results of many studies confirm the homoclimatic hypothesis, that certain species of plants have a hard time going beyond their evolutionary and ecological limitations and that during the process of expanding their range they conquer areas with ecological conditions similar to those present in their native habitats (Chicoine *et al.* 1985, Panetta and Mitchell 1991). This trend has also been proven for higher taxonomic categories (Pyšek 1998a).

In Central Europe, higher number of alien plants originate from regions warmer than Central Europe, as quantified by Ellenberg's temperature indices. Comparing those indices between native flora and neophytes (aliens introduced after 1500 AD), it has been noticed that the T index with neophytes is higher (Pyšek 1989b). Due to the geographic positioning of Podgorica which reflects the climatic conditions present in the area, the differences in T index values are not prominent.



**Table 25.** Sørensen's similarity index calculated for the alien floras of Podgorica, Rome, Thessaloniki and Patras.

Comparison of cities	Sørensen index (Cs)	Value (%)
Podgorica-Roma	$2 \times 97 \times 100 / (172 + 196)$	52.7
Podgorica-Thessaloniki	$2 \times 75 \times 100 / (172 + 147)$	47.0
Podgorica-Patras	$2 \times 48 \times 100 / (172 + 93)$	36.2

Sørensen's index shows that the alien flora of Podgorica is more like that of Rome-52.7% (Table 25). Because of the similarity in the taxonomic structure of the floras and climate conditions, the similarity of the alien floras was to be expected.

Concerning the floristic composition of the alien floras of the compared cities, the domination of taxa of *Asteraceae* is prominent (Table 26). *Asteraceae* are one of the evolutionarily most advanced families (Cronquist 1981), possessing a series of progressive characteristics in invasion processes, such as high reproduction rate, specialised way of spreading seeds, capability of generating various metabolic products protecting them from herbivores and high level of apomixis (Heywood 1989, Pyšek 1997). Extreme habitat diversity and ecological adaptations may contribute to their success in conquering new spaces (Heywood 1989).

**Table 26.** Taxonomic spectra of the alien floras of Podgorica, Rome, Patras and Thessaloniki.

City	Podgorica		Roma		Thessaloniki		Patras	
	No	%	No	%	No	%	No	%
Asteraceae	27	15.7	20	10.2	10	10.8	16	10.9
Poaceae	16	9.3	21	10.7	13	14.0	19	12.9
Fabaceae	10	5.8	14	7.1	0	0.0	3	2.0
Rosaceae	9	5.2	8	4.1	6	6.5	8	5.4
Brassicaceae	7	4.1	7	3.6	5	5.4	14	9.5
Amaranthaceae	7	4.1	10	5.1	5	5.4	10	6.8
Solanaceae	6	3.5	9	4.6	10	10.8	6	4.1
Euphorbiaceae	5	2.9	4	2.0	2	2.2	3	2.0
Cucurbitaceae	5	2.9	4	2.0	2	2.2	4	2.7
Scrophulariaceae	4	2.3	1	0.5	2	2.2	5	3.4
Apiaceae	3	1.7	4	2.0	2	2.2	6	4.1
Others	73	42.4	94	48	57	48.7	53	36.1
Total	172	100	196	100	147	100	93	100

The key to the spreading success of other families, such as *Amaranthaceae* and *Chenopodiaceae* is apart from the high reproduction rate, the long lasting vitality of their seeds and the C4 photosynthetic cycle

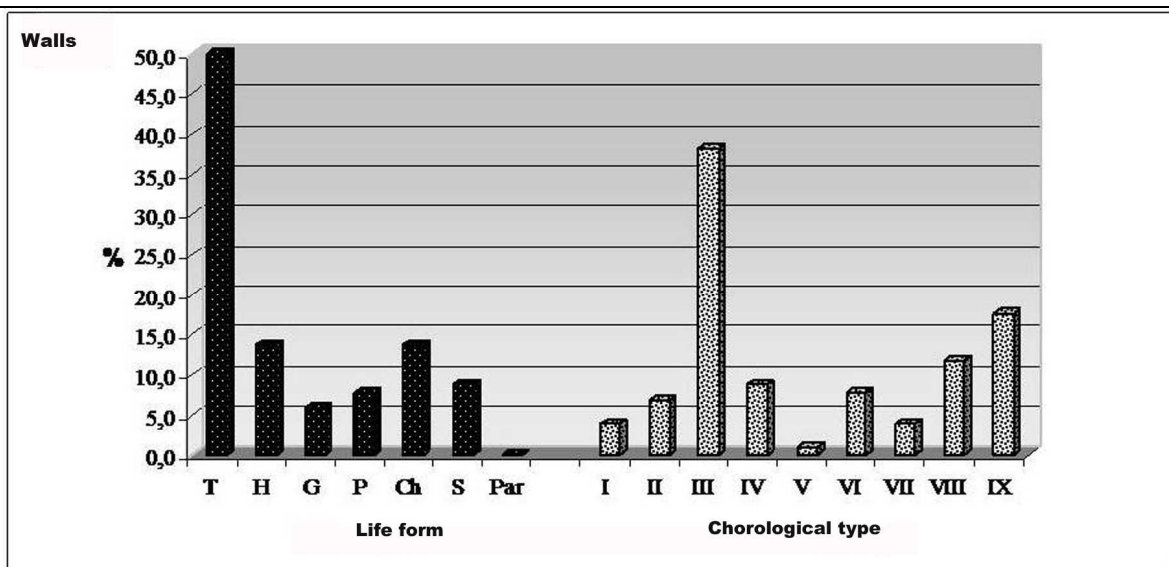
(Cronquist 1970, 1981, Heywood 1989). The characteristics determining whether an alien species becomes naturalised or invasive are according to Richardson *et al.* (2000b): perennial life form, capability of vegetative reproduction and clonality (Pyšek 1997, Kolar & Lodge 2001), as well as the capability of spreading seeds and fecundity (Noble 1989, Richardson et al 2000a).

**Taxonomic, ecological and phytogeographic analysis of selected urban habitats of Podgorica (walls, pavement cracks, roofs, street gutters, parking lots, concrete planters, lawns, trampled habitats of the urban zone, meadows, railway lines)**

The overview of taxonomic, ecological and phytogeographical characteristics of the floras of selected types of urban habitats (walls, cracks in the pavement, roofs, street gutters, parking lots, concrete planters, lawns, trampled habitats of the urban zone, meadows and dikes along railroad tracks) are presented in Tables 27-36.

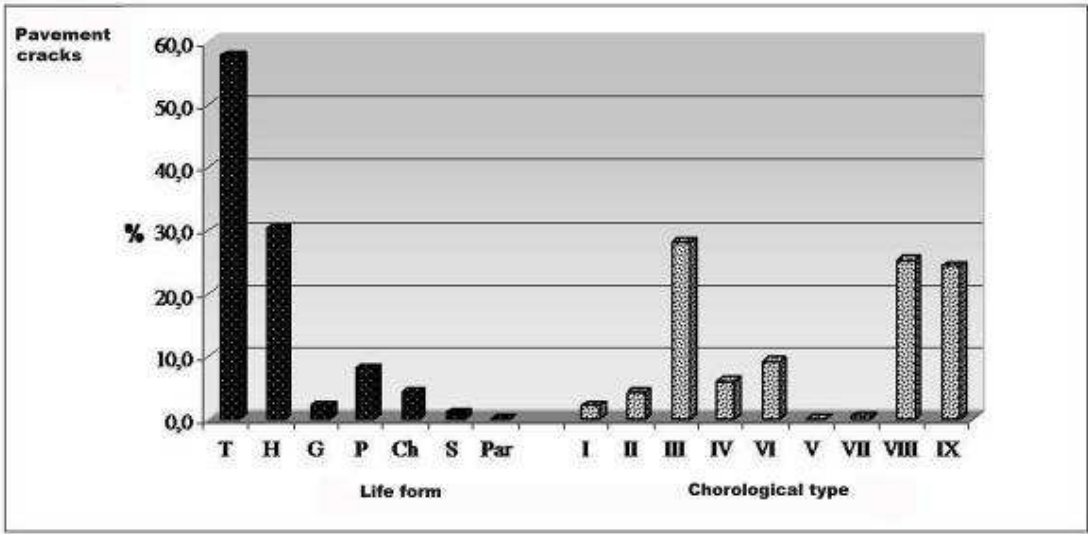
**Table 27.** Taxonomic, ecological and phytogeographical characteristics of the flora of walls in Podgorica.

No species/ family	Dominant families (%)	Dominant values of ecological indices (%)				
		L	T	H	N	R
102/34	<i>Brassicaceae</i> (10.8) <i>Lamiaceae</i> (9.8) <i>Geraniaceae</i> (8.8) <i>Poaceae</i> (5.9) <i>Scrophulariaceae</i> (5.8)	L7 (32.4)	T8 (29.4) T7 (27.5)	H2 (24.5) H3 (24.5) H4 (21.6)	N2 (18.6) N3 (14.7)	R5 (25.5) Rx (21.6)
Typical species: <i>Parietaria judaica</i> , <i>Ceterach officinarum</i> , <i>Cheilanthes persica</i> , <i>Asplenium trichomanes</i> , <i>Geranium lucidum</i> , <i>G. purpureum</i> , <i>Sedum hispanicum</i> , <i>Cotyledon rupestris</i> , <i>Arabis verna</i> , <i>Cardamine hirsuta</i> , <i>Lamium purpureum</i> , <i>L. bifidum</i> , <i>Tordylium apulum</i> etc. Comment: <i>Cymbalaria muralis</i> , which is typical for walls in other cities, was not recorded in this habitata during our field investigations.						



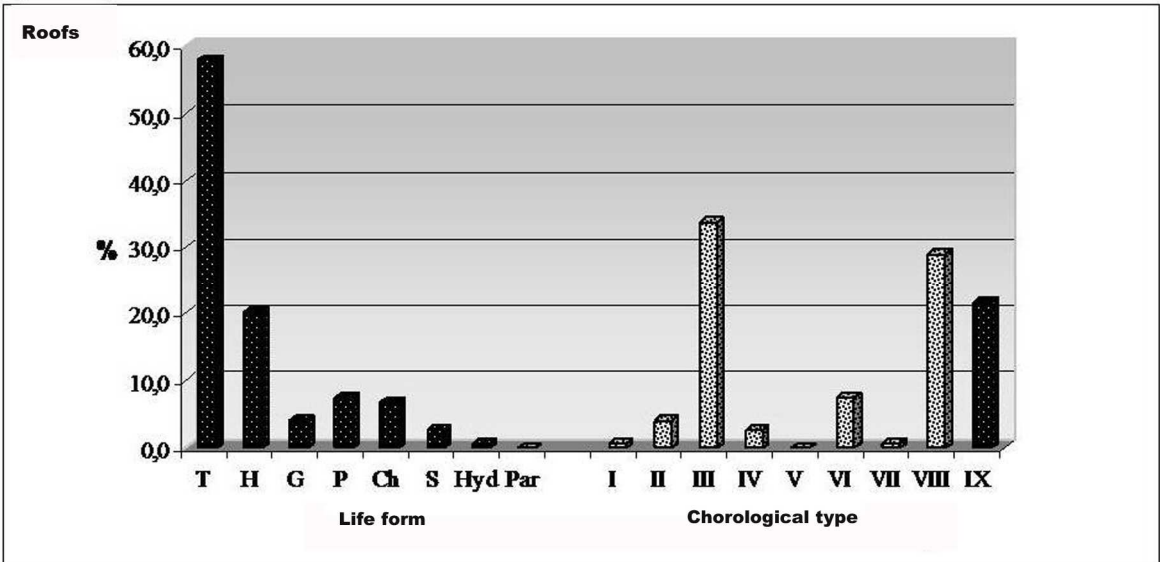
**Table 28.** Taxonomic, ecological and phytogeographical characteristics of the flora of pavement cracks in Podgorica.

Pavement cracks						
No species/ family	Dominant families (%)	Dominant values of ecological indices (%)				
		L	T	H	N	R
183/41	<i>Poaceae</i> (21.1%) <i>Asteraceae</i> (13.0%) <i>Brassicaceae</i> (7.0%) <i>Caryophyllaceae</i> (7.0%) <i>Fabaceae</i> (7.0%)	L8 (34.1%) L7 (28.1%)	T7 (27.6) T8 (27.0)	H3 (27.0) H4 (21.6)	N2 (15.7) N5 (12.4) N3 (11.9)	Rx (23.2) R5 (20.5)
Typical species: <i>Arenaria serpyllifolia</i> subsp. <i>leptoclados</i> , <i>Capsella rubella</i> , <i>Cerastium brachypetalum</i> , <i>Cynodon dactylon</i> , <i>Dichanthium ischaemum</i> , <i>Eleusine indica</i> , <i>Euphorbia maculata</i> , <i>Polygonum aviculare</i> , <i>Portulaca oleracea</i> , <i>Sagina apetala</i> , <i>Tragus racemosus</i> etc.						

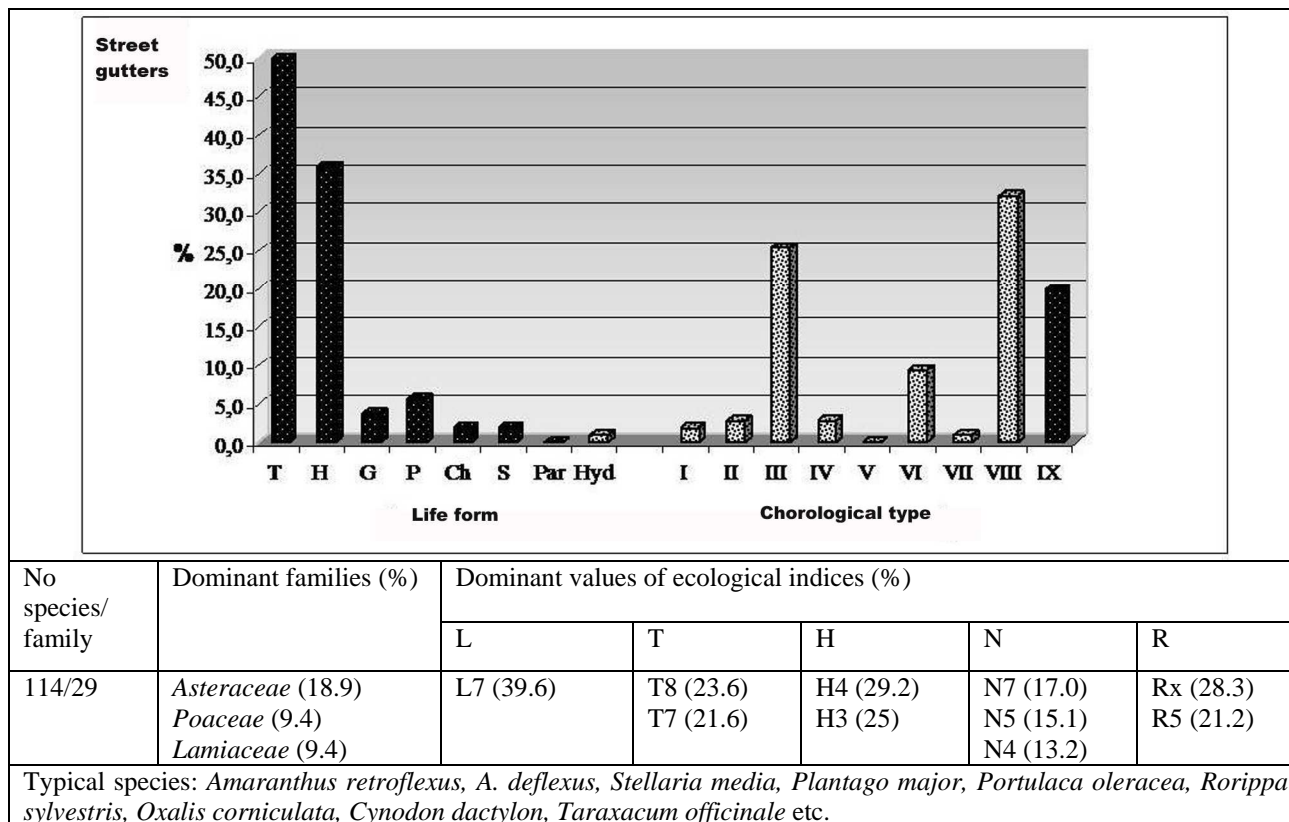


**Table 29.** Taxonomic, ecological and phytogeographical characteristics of the flora of roofs in Podgorica.

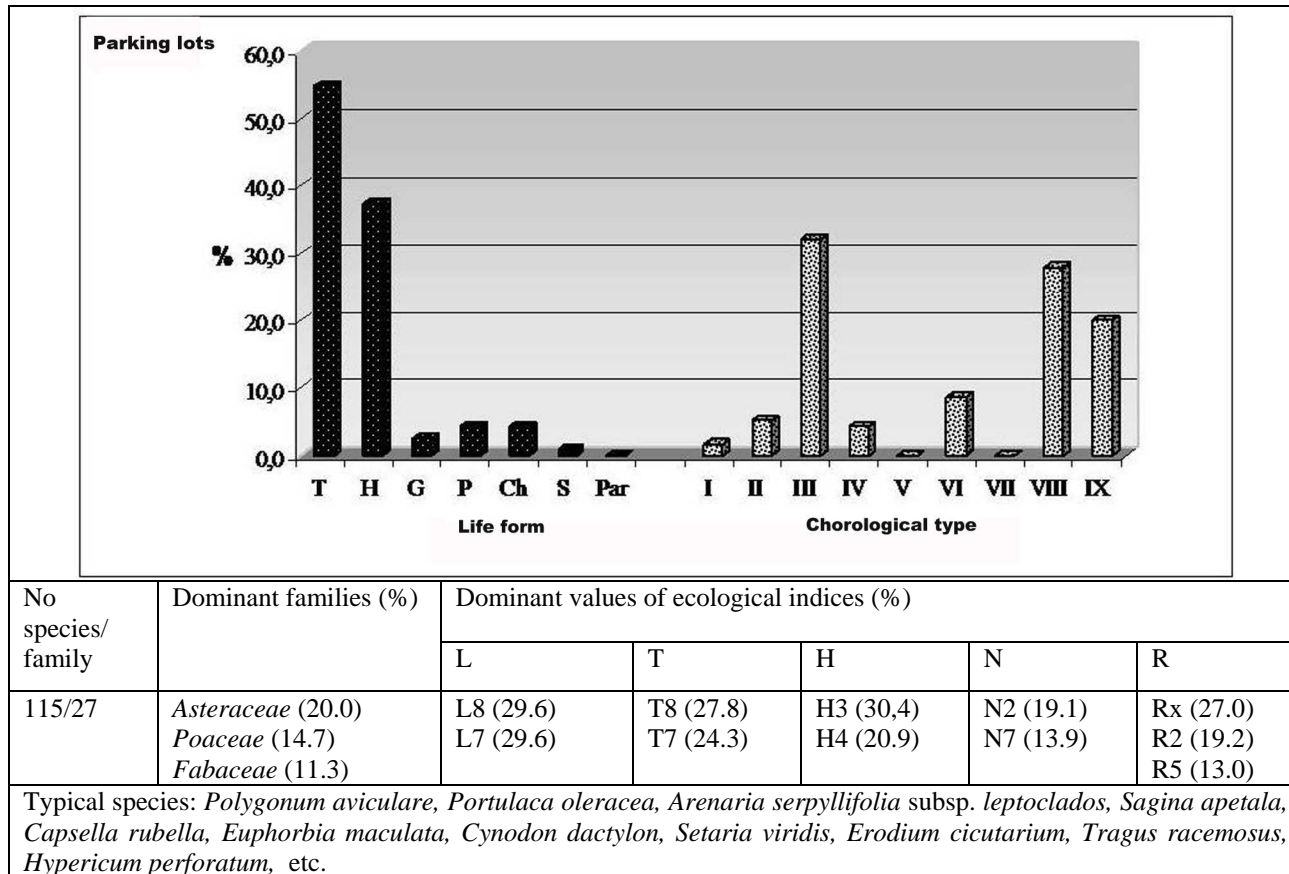
Roofs						
No species/ family	Dominant families (%)	Dominant values of ecological indices (%)				
		L	T	H	N	R
148/45	<i>Poaceae</i> (20.3) <i>Asteraceae</i> (14.8) <i>Caryophyllaceae</i> (8.1)	L7 (30.4) L8 (30.4)	T7 (25.0) T8 (23.6)	H3 (24.3) H4 (20.9)	N2 (18.2) N3 (13.1) N4 (10.8)	Rx (27.0)
Typical species: <i>Arenaria serpyllifolia</i> subsp. <i>leptoclados</i> , <i>Sagina apetala</i> , <i>Sedum acre</i> , <i>S. hispanicum</i> , <i>Crepis setosa</i> , <i>Juncus bufonius</i> etc.						



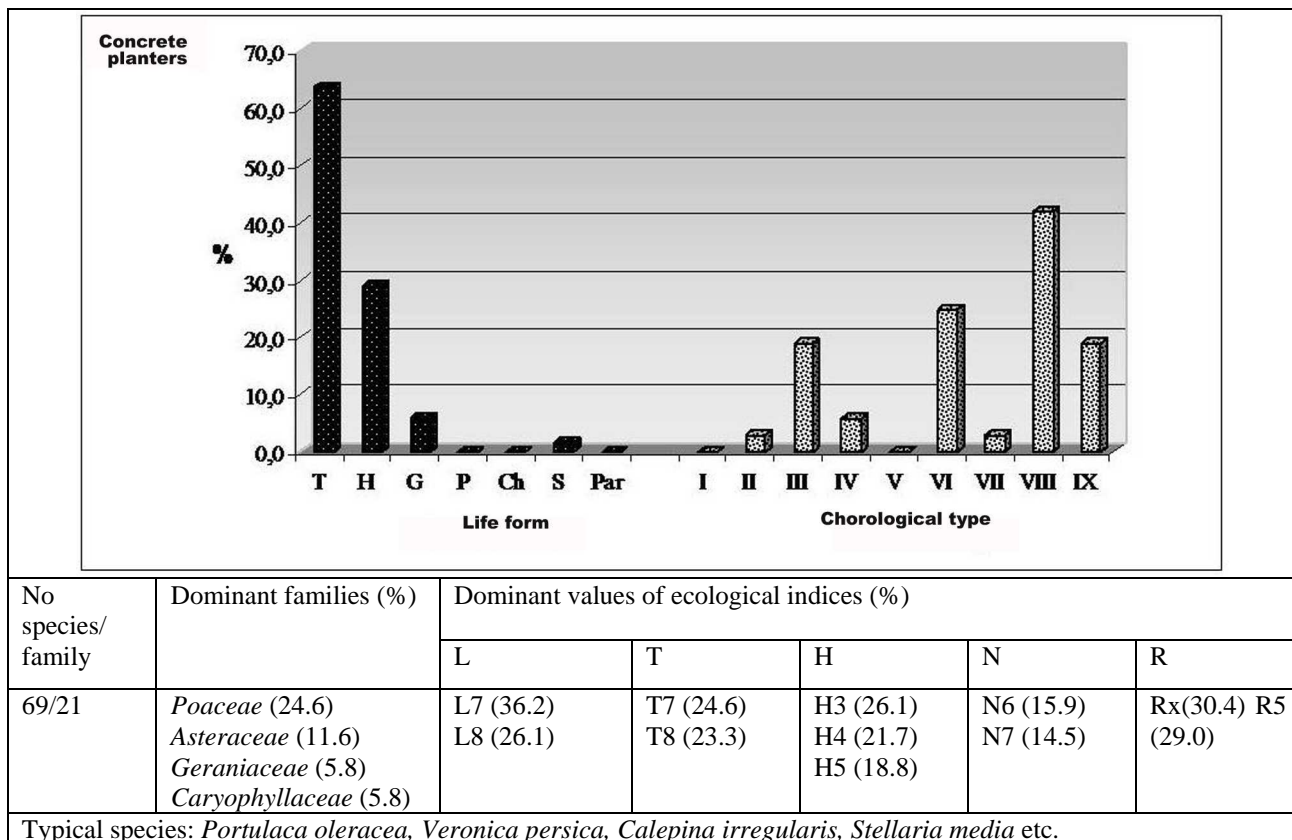
**Tabela 30.** Taxonomic, ecological and phytogeographical characteristics of the flora of street gutters in Podgorica.



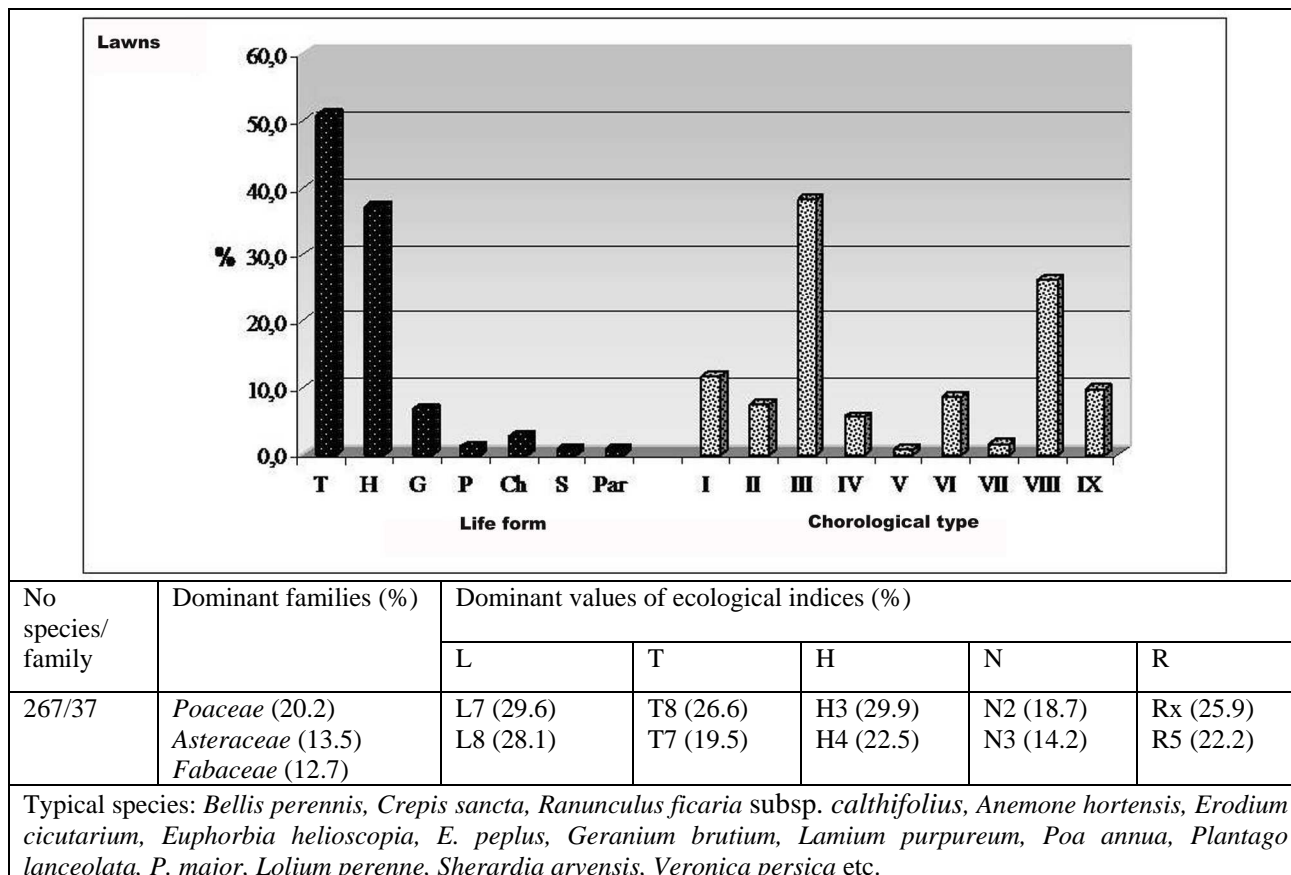
**Table 31.** Taxonomic, ecological and phytogeographical characteristics of the flora of parking lots in Podgorica.



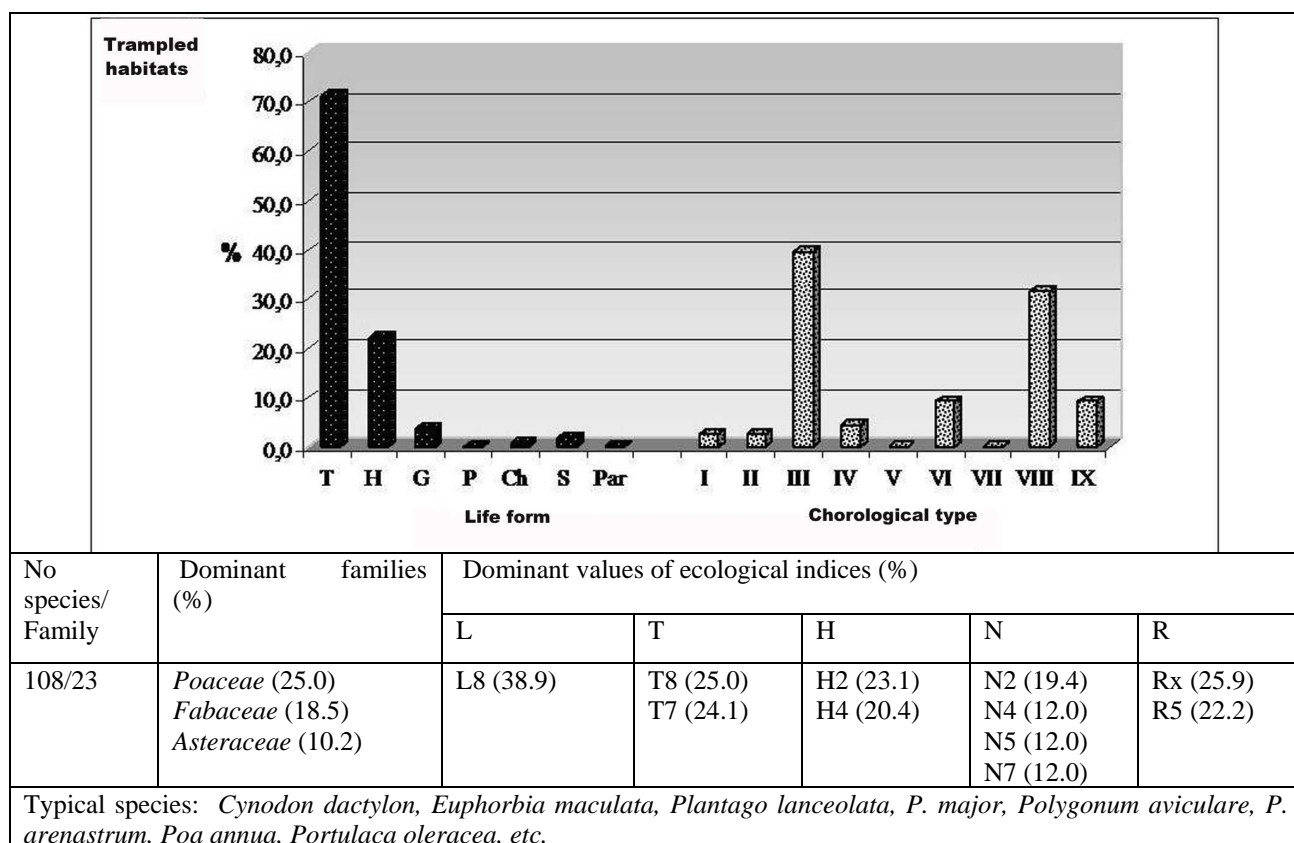
**Table 32.** Taxonomic, ecological and phytogeographical characteristics of the flora of concrete planters in Podgorica.



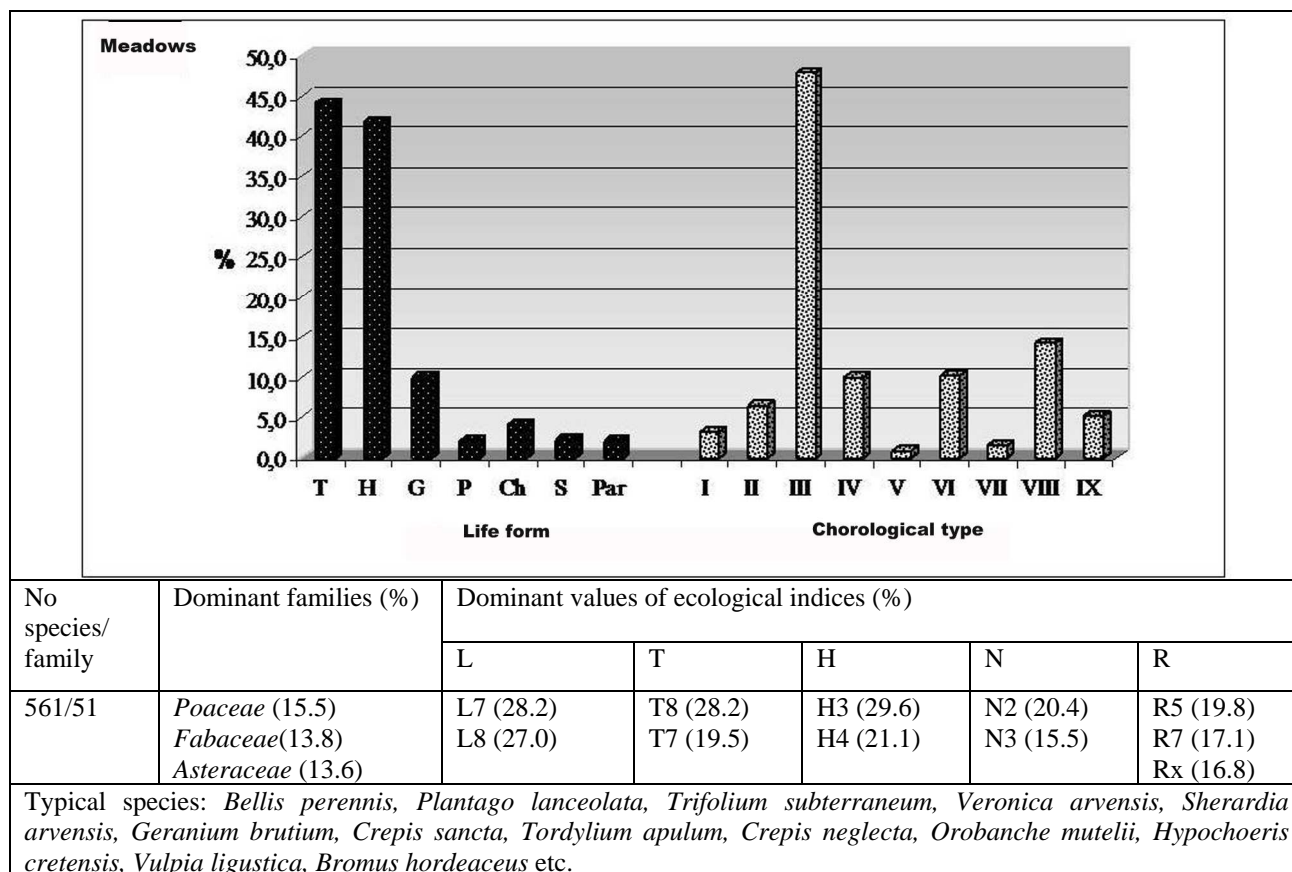
**Table 33.** Taxonomic, ecological and phytogeographical characteristics of the flora of lawns in Podgorica.



**Table 34.** Taxonomic, ecological and phytogeographical characteristics of the flora of trampled habitats of the urban zone of Podgorica.

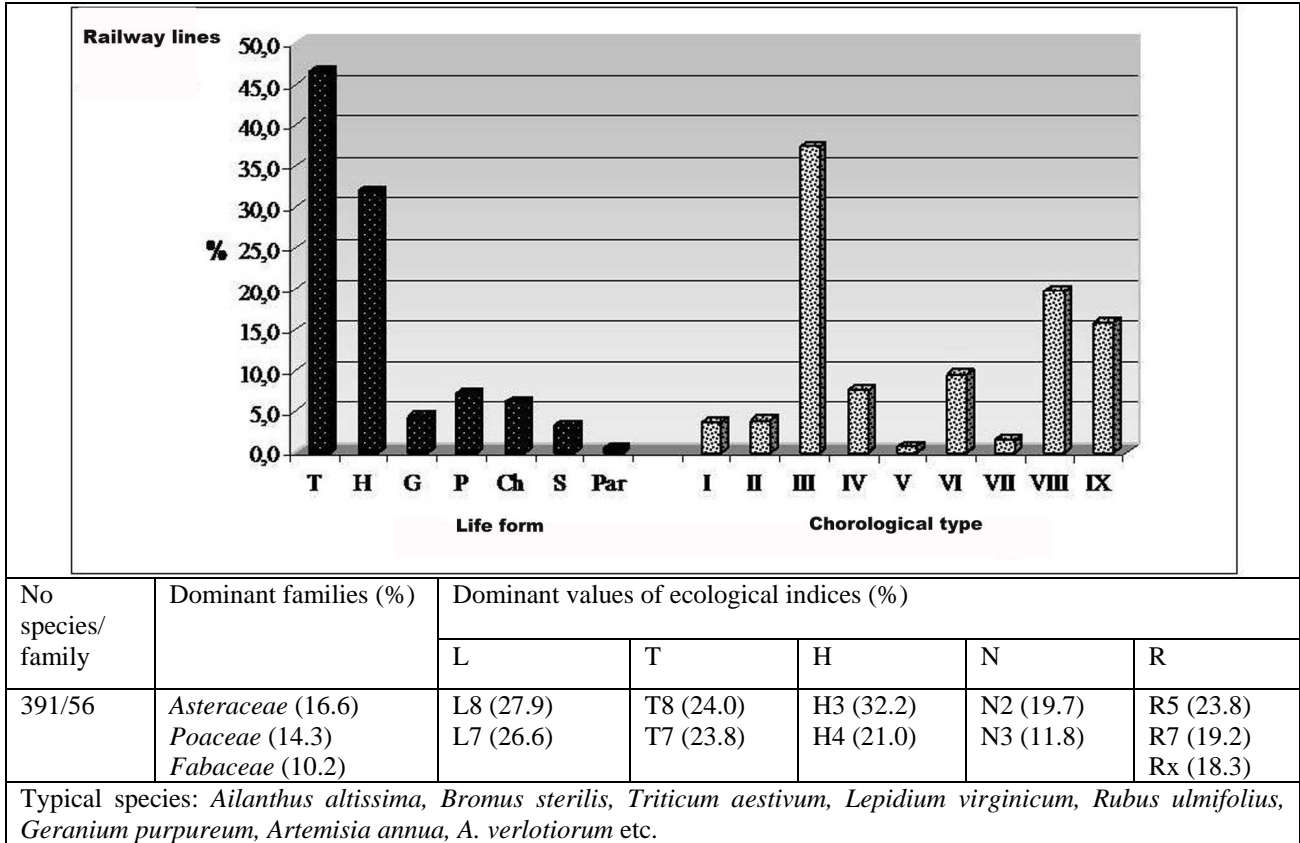


**Table 35.** Taxonomic, ecological and phytogeographical characteristics of the flora of meadows in Podgorica.





**Table 36.** Taxonomic, ecological and phytogeographical characteristics of the flora of railway lines in Podgorica.



Concerning the number of taxa, two types of habitats are characterised by their floristic richness: meadows containing 46.1% of the city area flora and the dikes along the railroad tracks with 32.1%. The dike is well-known as floristically very rich and, according to the interpretation of Wittig *et al.* (1989), the richness of its flora can be explained by its linear structure crossing the city space, bordering at the same time with other types of habitats. This makes dikes along railroad tracks the most representative ecological unit of the city.

Comparing habitats according to the taxonomic spectra, the following groups can be formed:

1. Habitats where *Poaceae*, *Asteraceae* and *Fabaceae* are dominant (pavement cracks, parking lots, lawns, trampled habitats, meadows, railway lines),
2. Habitats where *Poaceae*, *Asteraceae* and *Caryophyllaceae* are dominant (roofs, concrete planters),
3. Habitats where *Poaceae*, *Asteraceae* and *Lamiaceae* are dominant (street gutters),
4. Habitats where *Brassicaceae*, *Lamiaceae* and *Geraniaceae* are dominant (walls).

Considering the type of biological spectre, habitats with therophytic-hemicryptophytic character (meadows, lawns, dikes along railroad tracks, street gutters and parkings) are separated from habitats with a spectrum of therophytic character (walls, roofs, trampled habitats and concrete planters). High participation of the therophytic form is caused by light, thermal and water regimes of the habitat, but also by the degree of exposure to disturbance. Almost as a rule, sunny, thermophilic or degraded habitats are characterised by the prevalence of the annual life form.

Chorologic aspects of floras of the compared habitats are rather diverse. Street gutters and concrete planters are characterised by the prevalence of the cosmopolitan plants, while in the spectrum of floras of pavement cracks, parking lots, roofs and trampled habitats the participation of Mediterranean and cosmopolitan elements is approximately the same. A clear domination of the Mediterranean element is distinct on lawns, walls and dikes along railroad tracks. Alien species have the largest participation in the spectra of floras on pavement cracks (24.3%), roofs (21.6%), parking lots (20%), street gutters (19.8%), and the smallest in meadows (5.2%).

Dominant values of the light index in all types of habitats are L7 and L8, of the temperature index are T7 and T8, of humidity index are H3 and H4, of the nitrogen index are N2 and N3 (except street gutters



and pavement cracks with N5) and of the Soil Reaction index are Rx and R5 (except dikes along railroad tracks with R7).

Typical photographs illustrating some of the analysed habitats are given in the figures 64-69.



**Figure 64.** Drač (stone walls).



**Figure 65.** Building of Ei Niš (roof).



**Figure 66.** Main train station, railway lines.



**Figure 67.** Street gutters.



**Figure 68.** Lawn.



**Figure 69.** Parking lot (near Sports Centre).



### **Classification of urban habitats of Podgorica**

As shown in a growing number of cities across the world, the establishment of GIS (Geographic Information Systems) databases of green areas and local biodiversity represents the main precondition for carrying out sustainable urban planning in a city. Providing data on different types of habitats, their diversity and distribution, data on the diversity of life forms, presence of species of special conservation interest (endemic, relict, endangered, protected by law or species of international importance), GIS databases are valuable when making strategic environment studies.

As the development of Podgorica slowly begins to follow European trends, we expect that activities will start very soon on establishing the “City’s Green Regulations”.

Based on the key for mapping habitats in Belgrade (Cvejić *et al.* 2007) and Schulte *et. al.* (1993), a classification of urban habitats of Podgorica we made. An overview is in the text below:

**MAIN GROUP OF HABITATS I: Construction zone** (envelopes the residential zone, public facilities, commercial facilities, infrastructural and transportation facilities)

#### **Type of habitat 1. Residential zone (residential facilities)**

Subtype a: City core

Subtype b: Suburban residential areas

#### **Type of habitat 2. Public facilities (educational facilities, health care facilities, state authorities, local authorities, embassies)**

#### **Type of habitat 3. Economic facilities**

Subtype a: Production facilities (Melamin, Okov, Dairy)

Subtype b: Industrial zone (Tobacco Factory, Marko Radović, Hemomont)

Subtype c: Commercial zone

#### **Type of habitat 4. Commercial facilities**

Subtype a: Open markets (Great Market, Truck Market, Small Market)

Subtype b: Shopping malls (ERA, MEX, VOLI, MARKET PLUS, DELTA, HOME market)

#### **Type of habitat 5. Infrastructural and transportation facilities (Water Supply, Telekom, energy facilities-Zagorič, Tološi, Bus station, Train station, gas stations-Petrovački put, Zabjelo, Blok V, Zagorič, Zlatica)**

#### **Type of habitat 6. Historical and cultural facilities**

Subtype a: Historical facilities (Duklja, Grad Nemanjića, Jusovača, Stara Varoš)

Subtype b: Cultural facilities (theatre, galleries)

#### **Type of habitat 7. Unfinished, abandoned or temporary facilities (green areas around the facilities treated as fallow land habitats)**

Subtype a: Unfinished constructions

Subtype b: Abandoned constructions, industrial or agricultural facilities (Radoje Dakić)

Subtype c: Temporary facilities (workers’ settlements)

### **MAIN GROUP OF HABITATS II: Transportation network**

#### **Type of habitat 1. Roads** (regional roads, streets, bridges, passages and stairways)

Subtype a: Green areas along roads

Variety 1: Woody and shrub-like formations

Variety 2: Herbaceous formations

Subtype b: Spontaneous vegetation occurring immediately on the edges of roads

#### **Type of habitat 2. Roads and paths** (macadam, village roads, forest paths)

#### **Type of habitat 3. Parking lots**

#### **Type of habitat 4. Railroad transportation** (railroad tracks, dikes along railroad tracks)

Variety a: Formations with the domination of herbaceous annual or perennial forms

Variety b: Formations with shrub-like or woody flora

### **MAIN GROUP OF HABITATS III: Green areas in the urban core**

#### **Type of habitat 1. Physical structures intended for sports and recreation (stadiums, sports courts, running tracks, playgrounds)**

Subtype a: Grass courts (stadiums)

Subtype b: Running tracks in wooded areas

Subtype c: Playgrounds on gravel (yards)

**Type of habitat 2. Cultivated green areas**

Subtype a: Parks

Subtype b: Park forests

Subtype c: Tree-lined avenues

Subtype d: Lawns in front of residential or public facilities

**Type of habitat 3. Non-cultivated green areas and city fallow land**

Subtype a: Lawns

Subtype b: Concrete planters

Subtype c: Formations with the domination of woody and shrub-like species

Subtype d: Planted forests

Subtype e: Cemeteries

Subtype f: Neglected backyards and ruins

Variety 1: Formations with the domination of herbaceous annual or perennial forms

Variety 2: Formations with shrub-like or woody form

Subtype g: Trampled habitats

Variety 1: Walking lanes

**MAIN GROUP OF HABITATS IV: Walls, roofs and sidewalks**

**Type of habitat 1.** Walls

**Type of habitat 2.** Roofs

**Type of habitat 3.** Sidewalks

**MAIN GROUP OF HABITATS V: Green areas outside of the strict urban zone**

**Type of habitat 1.** Hedges (line formations of shrubs and low bushes in fields, of up to 20 m in width)

**Type of habitat 2.** Thickets

Subtype: Deciduous thicket

Subtype: Mixed, deciduous-evergreen thicket

**Type of habitat 3.** Individual trees, groups of trees and groves

**Type of habitat 4.** Meadows

Subtype: Xerophilic meadows

Subtype: Mesophilic meadows

Subtype: Hygrophilic meadows

**MAIN GROUP OF HABITATS VI: Biotopes with poorly developed vegetation**

**Type of habitat.** Karst terrains

**MAIN GROUP OF HABITATS VII: Open-pit mines and garbage dumps**

**Type of habitat 1.** Open-pit mines (exploitation of gravel on Ćemovsko Polje)

Subtype a: Active open-pit mines

Subtype b: Inactive open-pit mines

**Type of habitat 2.** Garbage dumps

Variety 1: Formations with the domination of herbaceous annual or perennial forms

Variety 2: Formations with shrub-like or woody flora

**MAIN GROUP OF HABITATS VIII: Water surfaces**

**Type of habitat 1.** Flowing waters

Subtype a: Springs (Vrelo Ribničko)

Subtype b: Streams (permanent and temporary)

Subtype c: Small rivers

Subtype d: Rivers

Subtype c: Channels

**Type of habitat 2.** Flowing water banks

Subtype a: Thickets and hedges

Subtype b: Rocks and rock shelter

Subtype c: Sandy and gravel beaches

**Type of habitat 3.** Still water surfaces

Subtype a: Permanent water accumulations

Variety 1: Red lake-red mud dump of the Aluminium Plant Podgorica (KAP)

Variety 2: Mareza Fish Farm, Vrela Ribnička

Subtype b: Temporary still water surfaces (ponds)

**Type of habitat 4. Banks of still water surfaces**

**Type of habitat 5. Flooding zone (Mareza)**

Subtype a: Periodically dry habitats, with the domination of low hydromorphic herbaceous forms (*Equisetum*, *Carex*, *Eleocharis*) zones of still or flowing waters

Subtype b: Periodically dry habitats, with reed thickets outside of the zones of still or flowing waters (reed thicket at the foot of Srpska Hill)

**MAIN GROUP OF HABITATS IX: Agricultural land surfaces**

**Type of habitat 1. Farm land**

Subtype a: Intensively cultivated

Subtype b: Neglected

**Type of habitat 2. Orchards and vineyards (plantations of “Agrokombinat”)**

**Type of habitat 3. Meadows**

Subtype a: Dry meadows

Variety 1: Mown

Variety 2: Non mown

Subtype b: Moist meadows

Variety 1: Mown

Variety 2: Non mown

Subtype c: Flooding meadows

**Type of habitat 4. Hotbeds**

**Type of habitat 5. Experimental fields**

**Type of habitat 6. Bounds**

**Some remarks about vegetation of the area**

Dealing with the evaluation of the number of taxa in certain types of habitats, in the area of the city of Podgorica, we have recognised the following plant communities:

PARIETARIEA JUDAICAE Oberd. 1977.

Parietaria judaicae Segal 1969.

Ass. Parietarium judaicae (Arenes 1928) Oberd. 1977.

BIDENTETEA TRIPARTITI R.Tx., Lohm. et Preising ex Rochow 1951.

Bidentetalia tripartitae Br.-Bl et Tx. ex Klika et Hadac 1944.

Bidentetion tripartitae Nordhagen 1940.

Aggr. a *Xanthium italicum*

POLYGONO-POETEA ANNUAE Rivas-Martinez 1975.

Polygono arenastri-Poetalia annuae R.Tx 1972.

Polycarpion tetraphylli Rivas-Martinez 1975.

Ass. Bryo-Saginetum apetalae Blasi et Pignati 1984

Soc. a *Cynodon dactylon*

Soc. a *Polygonetum arenastrum*

STELLARIEA MEDIAE R. Tx. Lohm et Preising et Rochow 1951.

Chenopodietalia muralis Br.-Bl. 1936.

Ass. *Xanthio italicum*-*Daturetum stramonii* Fanelli 2002

Soc. a *Chenopodium album*

Ass. *Conyzetum albido-canadensis* Baldoni et Biondi 1993.

Eragrostietalia R.Tx ex Poli 1966.

Polycarpo-Eleusinion indicae Carni et Mucina 1998.

Ass. *Eleusinatum indicae* Pignatti 1953.

*Sisymbrietalia officinalis* J. Tx, Lohmeyer et Preising in R. Tx 1950.

- Hordeion leporini Br. Bl. *et al.* 1952.  
 Ass. Hordeetum leporinii Br.-Bl. 1936.  
 Ass. Trisetarium paniceae Hruska 1990 ex Fanelli 2001  
 Soc.a Carduus pycnocephalus
- KOELERIO-CORYNEPHORETEA Klika 1941.  
 Alyso-Sedetalia albi Moravec 1967.  
 Alyso-Sedion albi Oberd. et Muller 1961  
 Ass. a Saxifraga tridactylites et Erophila verna
- THERO-BRACHYPODIETEA Br.-Bl. ex A. de Bolos et Vayreda 1950.  
 Brometalia rubenti tectorum Rivas-Martinez 1977.  
 Vulpio-Lotion Horvatić 1960.  
 Ass. Vulpio ligusticae-Dasyphyretum villosii Fanelli 1998.  
 Thero-Brachypodietalia Br.-Bl.  
 Thero-Brachypodion Br.-Bl.  
 Ass. Medicagini rigidulae-Aegilopetum geniculatae Rivas-Martinez et Izco 1977.
- QUERCO-FAGETEA Br.-Bl. et Vlieger 1937.  
 Prunetalia spinosae R. Tx. 1952.  
 Pruni-Rubion ulmifolii O. Bolos 1954.  
 Soc.a Rubus ulmifolius  
 Populetalia albae Br.-Bl. ex Tchou 1948  
 Alno-Quercion roboris Horvat 1950  
 Ass. Leucojo aestivi-Fraxinetum oxycarpae Glavač 1959
- SALICETEA PURPUREAE Moor 1958  
 Salicetalia purpureae Moor 1958  
 Salicion albae Soó 1951  
 Ass. Salicetum albae Issler 1926

Due to the fact that vegetation of the city area was not the topic of the research, mentioned associations present only a part of the total vegetation diversity.

### **Threats to the native flora of Podgorica and future trends in the change of floristic composition**

Fragmentation of habitats or their complete loss are considered to be key factors in endangering current vegetation. Rapid urbanisation in Podgorica over the last decade caused a visible decrease in green areas but also the change of their composition. Following new trends in landscape architecture, the existing lush tree lanes of lime trees (*Tilia* spp.) and sycamores (*Platanus* spp.) are being replaced with exotic subtropical species and floristically diverse lawns are being planted over with monotype green carpets or simply covered with concrete.

With the merging of suburban settlements with the urban core, significant part of grass surfaces, thickets and hedges have been permanently lost. The need for new construction surfaces started to endanger the city hillocks of Podgorica as well. The phenomenon of “cutting into hillsides”, in conjunction with fires, threatens fragments of natural forest vegetation, and by that, the habitats of semiskiophilic and mesophilic species, such as *Anemone apennina*, *Erythronium dens-canis*, *Fragaria viridis*, *Potentilla micrantha*, *Scilla vindobonensis*, etc. (Fig. 70-73).



Figure 70. *Anemone apennina*.



Figure 71. *Potentilla micrantha*.

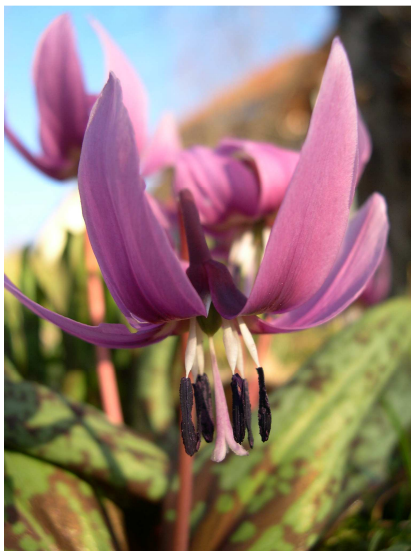


Figure 72. *Erythronium dens-canis*.



Figure 73. *Scilla vindobonensis*.

The idea to meliorate the wider area of Mareza in order to urbanise it further, endangers its sensitive hygrophilic flora. If doing so, the following species would lose their habitats and will vanish from the city area: *Caltha palustris*, *Cladium mariscus*, *Gratiola officinalis*, *Iris pseudacorus*, *Juncus* sp., *Leucojum aestivum*, *Ranunculus ophioglossifolius*, *Silene flos-cuculi*, *Succisella petteri*, *Scirpus* spp. (Fig. 74-77).



Figure 74. *Iris pseudacorus*.

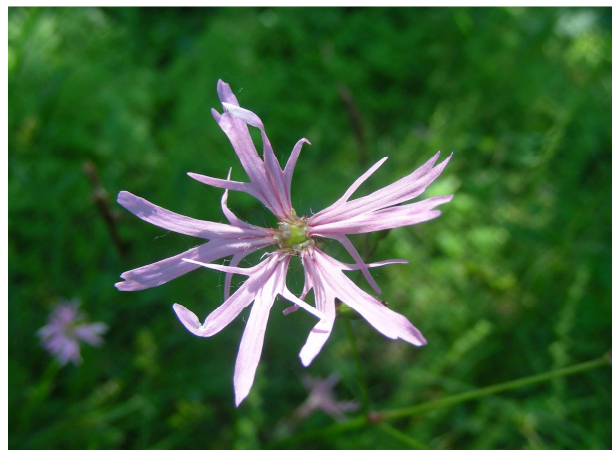
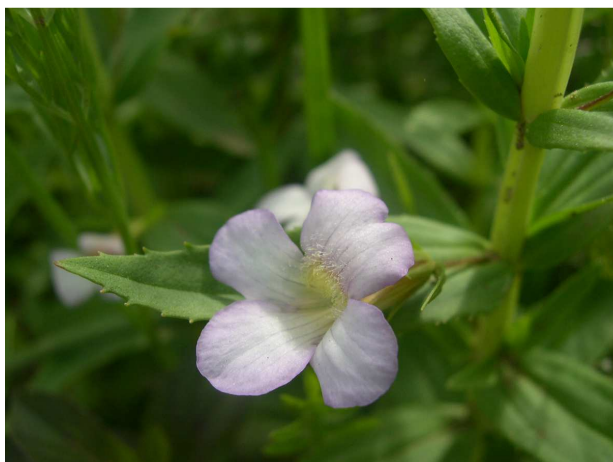


Figure 75. *Silene flos-cuculi*.





**Figure 76.** *Gratiola officinalis*.



**Figure 77.** *Ranunculus ophioglossifolius*.

Exploitation of gravel has been long recognised as an important factor endangering the vegetation. Today, due to increased demand for construction materials, the exploitation of gravel has intensified, so that, apart from the remote digs, new digs have opened along the course of Morača and on Čemovsko Polje. The increase in the intensity of construction, but also the growth of population have caused the expansion of the existing landfills and the creation of new ones.

Uncontrolled planting of alien plants (exotics) is recognised as especially dangerous for the native flora and may alter the floristic “identity” of the city. These plants can start growing uncontrolled once introduced and may become invasive. Problems already exist i.e. *Brussonetia papyrifera* which started spreading rapidly across the city area thanks to the capability of vegetative reproduction, and started to compete even with the Tree of Heaven (*Ailanthus altissima*). Recently, pampas grass, *Cortaderia selloana*, a well known invasive species, is frequently introduced to city lawns and green islands by local authorities.

On a global scale, after loss of habitat, biological invasions are considered to be the main cause for the loss of biodiversity (Mooney 1988, Lodge 1993, Huston 1994). This type of threat to the diversity of native species has not been paid any attention so far at the local scale (in the case of Podgorica).

In the area of Podgorica, we have recorded 33 taxa which are included in the list of protected plants (Official Gazette of Montenegro 76/06). These are (Fig. 78-87): *Anacamptys coriophora*, *A. palustris*, *A. morio* subsp. *morio*, *A. morio* subsp. *albanica*, *A. papilionacea*, *Colchicum hungaricum*, *Cyclamen hederifolium*, *Cymbalaria microcalyx* subsp. *ebelii*, *Chaerophyllum coloratum*, *Galanthus nivalis*, *Gladiolus palustris*, *Hyacinthella dalmatica*, *Iris tuberosa*, *Neotinea tridentata*, *Ophrys apifera*, *O. bertolonii*, *O. incubacea*, *O. scolopax* subsp. *cornuta*, *O. sphegodes* subsp. *sphegodes*, *O. tenthredinifera*, *Orchis provincialis*, *O. quadripunctata*, *Romulea linaresii* subsp. *graeca*, *Sternbergia colchiciflora*, *S. lutea*, *Succisella petteri*, *Serapias cordigera*, *S. lingua*, *S. vomeracea* subsp. *laxiflora*, *S. vomeracea* subsp. *vomeracea*, *Spirantes spiralis*, and *Vincetoxicum huteri*, while the following species are of international importance: *Chaerophyllum coloratum*, *Hyacinthella dalmatica*, and *Micromeria longipedunculata* and all orchids (Stevanović *et al.* 1995b). Species *Gagea amblyopetala* is proposed to be added on the list of vascular plants protected by the National Law (Petrović *et al.* 2008).



Figure 78. *Gladiolus palustris*.



Figure 79. *Iris tuberosa*.



Figure 80. *Hyacinthella dalmatica*.



Figure 81. *Ophrys scolopax* subsp. *cornuta*.

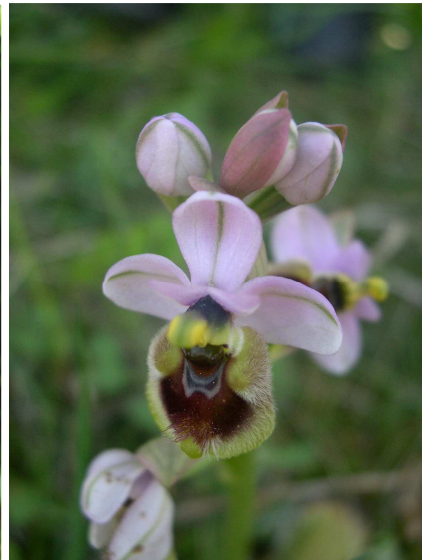


Figure 82. *Ophrys tenthredinifera* *cornuta*.

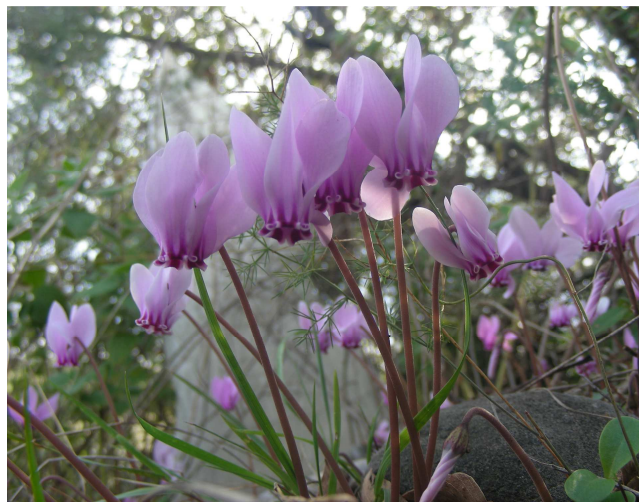


Figure 83. *Ophrys bertolonii*.





**Figure 84.** *Chaerophyllum coloratum*.



**Figure 85.** *Cyclamen hederifolium*.



**Figure 86.** *Romulea linaresii* subsp. *graeca*.



**Figure 87.** *Sternbergia lutea*.

Observing the trends of change of the floristic composition of cities in during the last two centuries, numerous authors notice a significant decline in the number of native plants. Sukopp (1973), shows that in the period between 1850 and 1950, some European cities faced a 4-16% loss of their native flora. Klotz (1987) and Landolt (2000) pointed out that over the past one to two centuries the number of species in city floras remained approximately the same but that the composition of those floras changed, to the disadvantage to of native flora which got replaced by alien components in 30-40% of the cases examined. This is also shown for Warsaw (Sudnik-Wojcikowska 1987) over the period of 150 years where 15% of the native flora vanished, while in Zurich, over the last 160 years, only 5.7% of the native plants were lost (Landolt, 2001). In the Czech industrial city of Plzeň the loss of native species has been 11.5% over the past 120 years (Chocholoušková & Pyšek 2003). The Belgian city of Turnhout can serve as a drastic example of the general loss of native plants, where approximately 25% of the native flora was replaced by aliens in the period from 1888 to 1990 (Van der Veken *et al.* 2004). The phenomenon of the loss of native flora, also spreading of alien species is known as biotic homogenisation (McKinney & Lockwood 1999, McKinney 2006, Olden *et al.* 2004, La Sorte & McKinney 2006).

Due to the aforementioned urbanisation, which on one hand causes the loss of native flora, and on the other facilitates the expansion of the alien flora, we expect the effect of the biotic homogenisation to be noticeable in the area of Podgorica as well.



Considering the fact that historical literature data about the flora of Podgorica is rather heterogeneous and rarely include information about abundance or frequency of occurrence of species, it was not possible to do detail analysis of the changes in species composition. Nevertheless, in the case of some species changes are evident: i) In the *Conspectus Florae Montenegrinae* *Chenopodium murale* is considered as “non frequent” (Rohlena 1942), while today species is common in the city area; ii) *Cardamine glauca* is considered as “frequent” (Rohlena 1942), while today is rather rare; iii) Several species like *Adonis annua*, *Thalictrum minus*, *Geranium sanguineum*, *Peucedanum alsaticum*, *Cymbalaria muralis*, *Phleum montanum* were not registered during our field surveys. We consider the species extinct, due to complete loss of habitats or major habitat changes. In a former time, wheat crops (common habitat of *Adonis annua*), were present in the city area, while rocky grasslands and shrubs (common habitats of *Geranium sanguineum*, *Peucedanum alsaticum*, *Phleum montanum*, *Thalictrum minus*), as well as walls (*Cymbalaria muralis*) were more frequent than today; iv) Majority of the most frequent alien species like members of the genus *Erigeron*, *Artemisia verlotiorum*, *Broussonetia papyrifera*, *Symphytotrichum squamatum*, *Sporobolus indicus* were recorded in the area in period after 2004 (Hadžiablahović 2004, Stešević & Jovanović 2005, Stešević & Jogan 2006). Due to the fact that alien flora has never been systematically investigated, it is certainly that these species invaded city area much before. In older literature sources *Artemisia annua*, *Sorghum halepense* and *Xanthium orientale* subsp. *italicum* were listed (Rohlena 1942). Together with *Ailanthus altissima* above mentioned alien species are considered as the quickest and the most frequent colonisers of disturbed habitats in Podgorica city area. In other European cities (Hruška, 2000) these strong competitive species cause the decline of biodiversity in certain habitats and contribute to the loss of the characteristic physiognomy of the vegetation cover.

Based on the results of the studies dealing with changes in the composition of urban floras over time (e.g. Gutte 1992, Klotz 1987, Landolt 2000, Chocholeušková & Pyšek 2003, Pyšek *et al.* 2004, DeCandido 2004, Van der Veken *et al.* 2004), we assume that in the area of Podgorica the participation of aliens will increase, the frequency of the annual forms will also increase, as well as the frequency of taxa with higher temperature and light demands, and lower demands for humidity.

### Allergenic flora of Podgorica

The allergenic flora of Podgorica includes 253 taxa of wild vascular plants. Commonly, the pollen of allergenic plants is grouped in three basic categories: that of woody plants, of weeds and of grasses (Esch *et al.* 2001). In the city area of Podgorica, 32 taxa of woody allergenic plants are flowering from February to April. The number of weed allergenic taxa is 76. These species flower from the end of April to October. Allergenic grasses are the most numerous (145). This category of plants are also in flower from April to October.

Some of the allergenic plants of Podgorica city area are (Fig. 88-98):



Figure 88. *Pinus halepensis*.



Figure 89. *Cupressus sempervirens*.



Figure 90. *Juglans regia*.





**Figure 91.** *Populus nigra*.



**Figure 92.** *Salix alba*.



**Figure 93.** *Quercus pubescens*.



**Figure 94.** *Acer negundo*.



**Figure 95.** *Broussonetia papyrifera*.



**Figure 96.** *Dasypyrum villosum*.



**Figure 97.** *Sorghum halepense*.



**Figure 98.** *Ambrosia artemisiifolia*.

## Conclusions

1. The flora of the Podgorica city area includes 1222 species and sub-species of vascular plants (561 genera, 121 family), representing a third of the Montenegrin flora. The richness and diversity of the city's flora are caused by the local geomorphology and climatic conditions of the area, the high diversity of habitats with different anthropogenic impact and the increased immigration of plants from the surrounding ecosystems.

2. Concerning the distribution of the species number by quadrant in the city area of Podgorica there is no gradient between growing number of species and distance from the urban core. However, if the distribution of the number of taxa per habitat is taken into consideration, it is clear that the homogeneity of habitats and the increase in the urbanisation leads to decline of the number of wild growing taxa.

3. The number of urbanophile species is highest in the urban core and gradually declines towards the periphery. Prevalent among the urbanophiles are annual and alien plants. Urbanophobes are mostly frequent in the peripheral quadrants, located in the NE, NW and S parts of the city area. They are also recorded in significant numbers in the very urban core, due to the presence of (semi-) natural habitats. Moving from the centre towards the periphery in NW, SE and SW directions, correlated with the decrease in the participation of green areas and the increased disturbance, the number of urbanophobes decreases. Considering the life forms and geographic distribution, hemicryptophytes and Mediterranean plants are dominant. Urbanoneutrals show no clear distribution pattern and mostly include annual taxa and plants of Mediterranean distribution.

4. The most common in the flora of Podgorica are members of *Poaceae* (11.5%), *Asteraceae* (11.2%) and *Fabaceae* (9.2%). Prevalent within the family of grasses are urbanophobic and urbanoneutral plants, while within the family of *Asteraceae* are urbanoneutral ones and within the family of *Fabaceae* urbanophobic ones. The families *Scrophulariaceae*, *Euphorbiaceae*, *Chenopodiaceae*, *Geraniaceae*, *Solanaceae*, *Malvaceae* and *Amaranthaceae* are characterised by the presence of a large number of synanthropic plants.

5. The most common genera are *Trifolium* (2.1%), *Euphorbia* (1.4%), *Carex*, *Ranunculus* and *Bromus* (1.3% each), *Veronica* (1.2%), *Allium* (1.1%), *Vicia* and *Lathyrus* (1% each). Although a significant number of their members is considered as ruderal or ruderal-segetal plants, only a small number of them were found to be typical urbanophiles in Podgorica. The situation is similar with the typical synanthropic genera of *Chenopodium* (0.9%), *Rumex* (0.8%) and *Amaranthus* (0.6%).

6. Through the analysis of the similarity index of the flora of Podgorica and the floras of Vienna, Zurich, Rome, Patras and Thessaloniki, it was found that the flora of Podgorica is more similar to the flora of Rome (Cs=69.4%).

7. The life form (biological) spectrum of Podgorica is marked by a therophitic-hemicryptophytic character, primarily due to the climatic conditions of the area and secondly due to constant anthropogenic disturbance regimes. Similar to the spectra of other Mediterranean cities, geophytes appear with significant participation (11.7%) in the local flora.

8. Concerning phenology, Podgorica is a city in with no interruption of vegetation growth and in which something is always in flower. The majority of plants flower in May, the smallest number flowers in December.

9. Regarding the ecological temperature index, dominating in the city area are thermophilic plants (T7 and T8), an indication of the Mediterranean character of the city area of Podgorica. Prevalent in terms of the light index are heliophytic plants (L7 and L8), conditioned by exposure of the terrain to sunlight, as well as by the degradation of the primary forest cover and the domination of open and sunny habitats. Dominant in terms of soil reaction are neutrophilic and neutro-basophilic species (R5 and R7), and in terms of nutrients oligotrophic plants (N2 and N3). Dominating in terms of the humidity index are H3 and H4 plants, as expected considering the climatic conditions and hydrography of the area.

10. Elements of the native flora are represented with 85.9% in the city of Podgorica. Dominant among them are plants of Mediterranean distribution. Participation of alien taxa is relatively small (14.1%) probably due to the short history of the settlement and the poorly developed transportation and trading networks. Dominant among aliens are members of *Asteraceae* (15.7%) and plants of Asian (43%) and North American origin (23.2%).

11. The comparative analysis of selected habitat types in the area of Podgorica showed that two habitat types are distinguished by prominent floristic richness: meadows (46.1%) and dikes along railroad tracks (32.1%).

12. The list of urban habitats of the city area of Podgorica consists of 9 main groups of habitats and 34 types of habitats.

13. Dealing with the evaluation of the number of species in certain types of habitats, in the area of the city of Podgorica, we have recognised 18 plant communities: Ass. Parietarium judaicae (Arenes 1928) Oberd. 1977., Aggr. a Xanthium italicum, Ass. Bryo-Sagnetum apetalae Blasi et Pignati 1984 ex Fanelli, Soc. a Cynodon dactylon, Soc. a Polygonetum arenastrum, Ass. Xanthio italici-Daturetum stramonii Fanelli 2002, Soc. a Chenopodium album, Ass. Conyzetum albido-canadensis Baldoni et Biondi 1993., Ass. Eleusinetum indicae Pignatti 1953., Ass. Hordeetum leporinii Br.-Bl. 1936., Ass. Trisetarium paniceae Hruska ex Fanelli, Soc. a Carduus pycnocephalus, Ass. a Saxifraga tridactylites et Erophila verna, Ass. Vulpio ligusticae-Dasypyretum villosii Fanelli 1998., Ass. Medicagini rigidulae-Aegilopetum geniculatae Rivas-Martinez et Izco 1977., Soc. a Rubus ulmifolius, Ass. Leucojo aestivi-Fraxinetum oxycarpae Glavač 1959 and Ass. Salicetum albae Issler 1926, out of 8 classes: PARIETARIETEA JUDAICAE Oberd. 1977., BIDENTETEA TRIPARTITI R.Tx., Lohm. et Preising ex Rochow 1951., POLYGONO-POETEA ANNUAE Rivas-Martinez 1975., STELLARIETEA MEDIAE R. Tx. Lohm et Preising et Rochow 1951., KOELERIO-CORYNEPHORETEA Klika 1941., THERO-BRACHYPODIETEA Br.-Bl. ex A. de Bolos et Vayreda 1950., QUERCO-FAGETEA Br.-Bl. et Vlieger 1937. and SALICETEA PURPUREAE Moor 1958. Due to the fact that vegetation of the city area was not the topic of the research, mentioned associations present only a part of the total vegetation diversity.

14. Fragmentation of habitats or their complete loss are considered to be key factors in endangering current vegetation. Rapid urbanisation in Podgorica over the last decade caused a visible decrease in green areas but also the change of their composition. Following new trends in landscape architecture, the existing lush tree lanes of lime trees (*Tilia* spp.) and sycamores (*Platanus* spp.) are being replaced with exotic tropical species and floristically diverse lawns are being planted over with monotype green carpets or simply covered with concrete. Furthermore, fires, potential melioration of Mareza wetland area, exploitation of gravel along the river courses of Morača and Cijevna, expansion of the existing landfills and creation of new ones, as well as uncontrolled planting of alien species are recognized as the major treats to the plant life. Due to constant degradation and loss of habitat in the strict urban zone of Podgorica which is reflected in the significant reduction of green areas, we expect that the richness and the diversity of the native flora will start declining rapidly while those of the alien flora will start rising soon.

15. Considering the fact that historical literature data about the flora of Podgorica is rather heterogeneous and rarely include information about abundance or frequency of occurrence of species, it was not possible to do detail analysis of the changes in species composition. Nevertheless, in the case of some species changes are evident: i) Nowadays *Chenopodium murale* become very common in the city area, while in the past it was estimated like “non frequent”; ii) *Cardamine glauca* is considered as “frequent”, while today is rather rare; iii) Several species like *Adonis annua*, *Thalictrum minus*, *Geranium sanguineum*, *Peucedanum alsaticum*, *Cymbalaria muralis*, *Phleum montanum* were not registered during the field surveys. They are considered as extinct, due to complete loss of habitats or major habitat changes. iv) Majority of the most frequent alien species like members of the genus *Erigeron*, *Artemisia verlotiorum*, *Broussonetia papyrifera*, *Symphotrichum squamatum*, *Sporobolus indicus* were recorded in the area in period after 2004. Due to the fact that alien flora has never been systematically investigated, it is certainly that these species invaded the city area much before. In older literature sources *Artemisia annua*, *Sorghum halepense* and *Xanthium orientale* subsp. *italicum* were listed. Together with *Ailanthus altissima* above mentioned alien species are considered as the quickest and the most frequent colonisers of disturbed habitats in Podgorica city area. In other European cities these strong competitive species cause the decline of biodiversity in certain habitats and contribute to the loss of the characteristic physiognomy of the vegetation cover.

16. In the area of Podgorica, we have recorded 33 taxa which are included in the list of protected plants (Official Gazette of Montenegro 76/06) or the plants of international importance: *Anacamptys coriophora*, *A. palustris*, *A. morio* subsp. *morio*, *A. morio* subsp. *albanica*, *A. papilionacea*, *Chaerophyllum coloratum*, *Colchicum hungaricum*, *Cyclamen hederifolium*, *Cymbalaria microcalyx* subsp. *ebelii*, *Galanthus nivalis*, *Gladiolus palustris*, *Hyacinthella dalmatica*, *Iris tuberosa*, *Micromeria longipedunculata*, *Neotinea tridentata*, *Ophrys apifera*, *O. bertolonii*, *O. incubacea*, *O. scolopax* subsp. *cornuta*, *O. sphogodes* subsp. *sphogodes*, *O. tenthredinifera*, *Orchis provincialis*, *O. quadripunctata*, *Romulea linaresii* subsp. *graeca*, *Sternbergia colchiciflora*, *S. lutea*, *Succisella petteri*, *Serapias cordigera*, *S. lingua*, *S. vomeracea* subsp. *laxiflora*, *S. vomeracea* subsp. *vomeracea*, *Spirantes spiralis*, and *Vincetoxicum huteri*.



17. The allergenic flora of Podgorica includes 253 taxa of wild vascular plants whose pollen has been grouped into three categories: woody plants pollen (32 taxa), weed pollen (76 taxa) and grass pollen (145). Tree pollen is present from February to April, while weed and grass pollen from April to October.

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