

## CHECKLIST OF JUMPING PLANT-LICE (HEMIPTERA: PSYLLOIDEA) IN SERBIA

DUŠANKA JERINIĆ-PRODANOVIĆ

Faculty of Agriculture, University of Belgrade, Nemanjina 6, 11080 Zemun, Serbia  
E-mail: dusanka@agrif.bg.ac.rs

### Abstract

The fauna of jumping plant-lice (Hemiptera: Psylloidea) of Serbia is reviewed based on extensive recent field work and previously published data. In total, 63 species are reported, 44 for the first time from the country. The Serbian Psylloidea belong to four families: Calophyidae (1 species), Homotomidae (1 species), Psyllidae (43 species) and Triozidae (18 species). Jumping plant-lice were sampled from 71 plant species from 25 families, of which 63 plants from 21 families were registered as their hosts.

KEY WORDS: Psylloidea, jumping plant - lice, checklist, fauna, Serbia

### Introduction

Jumping plant lice or psylloids is a small group of insects of Hemiptera. Psylloidea comprise a group of about 3000 species (HODKINSON, 2009), and contain six families Calophyidae, Carsidaridae, Homotomidae, Phacopteronidae, Psyllidae and Triozidae BURCKHARDT, (2009). They are distributed among all biogeographic regions but are most numerous in warmer regions (BURCKHARDT, 1994). These are small insects, 1,5-4,5 mm overall in length, only rarely somewhat larger, and in general appearance resemble miniature cicades (HODKINSON & WHITE, 1979). Jumping plant lice are exclusively phytophagous sap-sucking insects. The great majority of psyllid species are narrowly host-specific and are predominantly associated with perennial dicotyledenous angiosperms (HODKINSON, 2009).

The fauna of jumping plant-lice (Psylloidea) in Serbia has not yet been studied comprehensively. Previous Serbian literature generally relates to investigations of a few pest species of agricultural, ornamental and forest plants (BOGAVAC, 1967; GRBIĆ, 1974; JERINIĆ & SPASIĆ, 1999; JERINIĆ, 2000; JERINIĆ-PRODANOVIĆ & SPASIĆ, 2002; JERINIĆ-PRODANOVIĆ & SPASIĆ, 2003; MILOŠEVIĆ & MIHAJLOVIĆ, 2001; PAVIĆEVIĆ, 1977; 1980;

SIMOVA-TOŠIĆ & PETANOVIĆ, 1986) only. Over the past few years, more attention has been focused on the fauna of jumping plant-lice of Serbia. Some results have already been published in a number of short papers (JERINIĆ-PRODANOVIĆ, 2006a,b,c, 2007a,b,c,d, 2009a,b).

According to previously published data and recent investigations carried out by the author, 63 species of jumping plant-lice have been determined so far in the fauna of Serbia. This number probably represents only about 60% of the species that can be expected in this region, given the numbers in neighbouring countries, e.g. 107 species of Psylloidea are known from Slovenia (SELJAK, 2006; SELJAK *et al.*, 2008), 98 species from Romania (DOBREANU & MANOLACHE, 1962), 80 species from Bulgaria (HARIZANOV, 1966; HARIZANOV & LAUTERER, 1968; GŁOWACKA, 1989), and 67 species from Hungary, (RIPKA, 2008), while the fauna of Europe includes a total of 382 species (BURCKHARDT, 2009).

## Material and Methods

The data in this paper were collected from 1995–2009 with more intensive research from 2005–2009 in the course of the author's preparation of her PhD thesis.

Jumping plant-lice were collected throughout the year, although more intensively during spring and summer months. Most of the material was collected directly from plants using an aspirator (adults) or by manual sampling of plant parts with the larvae which were subsequently reared in laboratory until the eclosion of adults. A small part of the material was collected from a yellow watery trap. Altogether, the material was collected from 71 plant species from 25 families, of which 63 plant species from 21 families were registered as host-plants for Psylloidea. Plants on which jumping plant lice in egg or larval stage were found and then reared until imago eclosion were considered as host plants. Other plants implied the plants from which jumping plant lice were collected as adults exclusively.

The material was collected on 418 localities encompassing the entire territory of the Republic of Serbia (Fig. 1). A full list of localities with corresponding UTM MGRS coordinates and altitudes is given in Appendix I.

All examined material is kept in the Entomology collection, Department of Entomology and Agricultural Zoology, Faculty of Agriculture, University of Belgrade, Serbia.

The following literature was used in order to determine the material: BURCKHARDT, 1986; BURCKHARDT & HODKINSON, 1986; BURCKHARDT & LAUTERER, 1997a; BURCKHARDT & LAUTERER, 1997b; BURCKHARDT & LAUTERER, 2002; DOBREANU & MANOLACHE, 1962; HODKINSON & BIRD, 2000; HODKINSON & HOLLIS, 1987; HODKINSON & WHITE, 1979; KONOVALOVA, 1988; LAUTERER & BURCKHARDT, 1997; LOGINOVA, 1963., 1964., 1967, 1978; OSSIANILSSON, 1992; WHITE & HODKINSON, 1982. The nomenclature and classification follow BURCKHARDT (2009).

## Results & Discussion

Altogether, 63 jumping plant lice species were determined in Serbia, 44 of which are new for the Serbian fauna. According to the current classification (BURCKHARDT, 2009), they belong to four families and 15 genera. The family Psyllidae with 43 species was the most species-rich in the examined data, followed by Triozidae with 18 species. One species each was determined for both Calophyidae and Homotomidae.

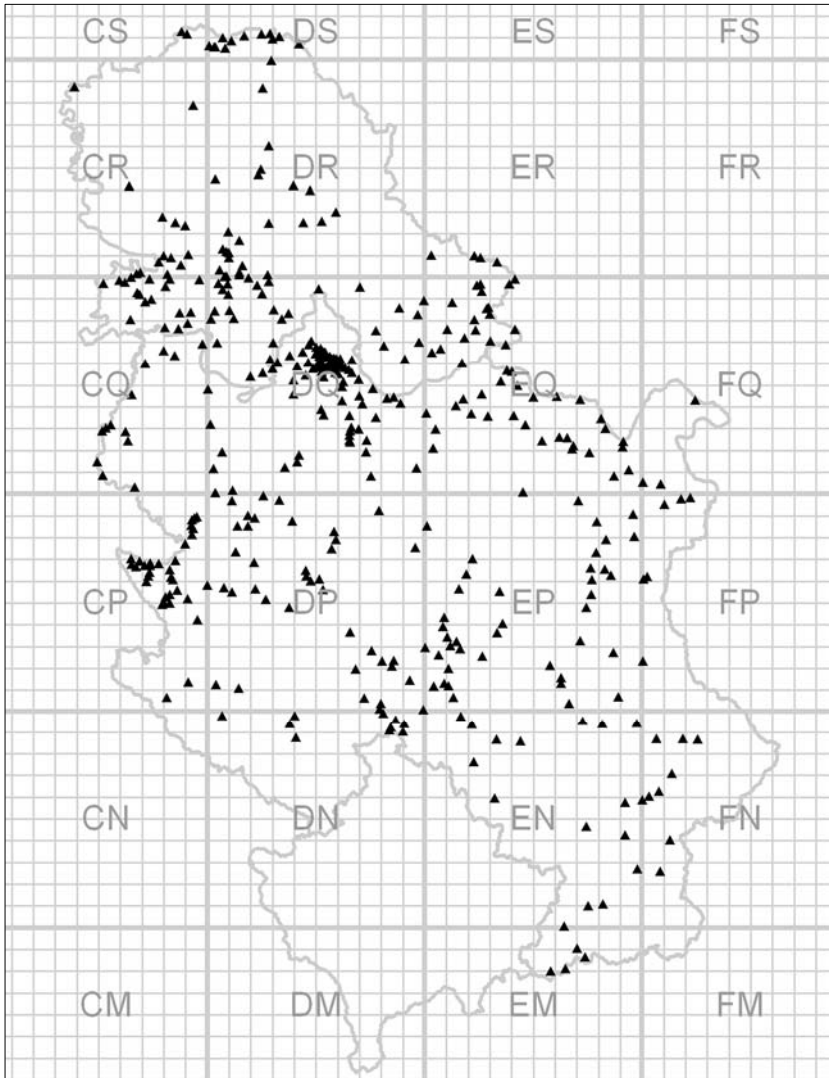


Figure 1. Map of inspected localities of Serbia in UTM projection (34T) (Original).

In the following list, host plant records are given for every species based on the author's collections in Serbia, followed by a list of other plants (shelter plants or accidental findings of vagrant specimens) from which the species was collected as well. All the material was collected by the author. Information on general distribution was based on literature data GEGECHKORI & LOGINOVA, 1990., BURCKHARDT & BASSET, 2000., BURCKHARDT & LAUTERER, 1997a., BURCKHARDT & LAUTERER, 1997b., HODKINSON, 1980, 1988., HODKINSON & HOLLIS, 1987. and BURCKHARDT, 2009. An asterisk (\*) denotes that the species is reported from Serbia for the first time.

Superfamily Psylloidea Handlirsch, 1903

Family Calophyidae Vondráček, 1957

Genus *Calophya* Löw, 1879

\*1) *Calophya rhois* (Löw, 1877)

Host plant: *Cotinus coggygria* Scop. (Beograd - hotel Jugoslavija, Donji Milanovac - Veliki greben, Deliblato, Goč-Kamenica, Iriški Venac - spomenik, Kanjon Dervente, Kozja Stena, Mokra Gora - Obilaznica, Stari Ledinci, Sremska Kamenica, Široka Torina, Zemunski Kej).

Distribution: Europe (Mediterranean, introduced to Central Europe), Caucasus, China.

Family Homotomidae Heslop-Harrison, 1958

Genus *Homotoma* Guérin-Méneville 1844

2) *Homotoma ficus* (Linnaeus, 1758)

Ref: JERINIĆ-PRODANOVIĆ (2007d)

Host plant: *Ficus carica* L. (Beograd - Banjica, Beograd - hotel Jugoslavija, Beograd - Lazarevićeva, Beograd - Studentski grad, Beograd - Šumice, Beograd - Voždovac, Beograd - Zvezdara-Olimp, Dobanovci, Novi Sad - Liman, Zemun - fakultet, Zemun - Nova Galenika, Zemunski Kej).

Distribution: Mediterranean, Caucasus, Middle East, introduced to Central Europe, Great Britain and North America.

Family Psyllidae Löw, 1878

Subfamily Aphalarinae Löw, 1979

Genus *Aphalara* Foerster, 1848

\*3) *Aphalara ulicis* Foerster, 1848

Host plant: *Rumex* sp. (Goč, Zemun-Lido).

Other plant: *Salix* sp. (Goč).

Distribution: West Palaearctic.

\*4) *Aphalara freji* Burckhardt & Lauterer, 1997

Host plant: *Polygonum lapathifolium* L. (Radmilovac).

Distribution: West Palaearctic, perhaps also Central Asia, China and Japan.

\*5) *Aphalara maculipennis* Löw, 1886

Host plant: *Polygonum amphibium* L. (Galovica).

Distribution: Palaearctic, North India.

Genus *Craspedolepta* Enderlein, 1921\*6) *Craspedolepta conspersa* (Löw, 1888)

Host plant: *Artemisia vulgaris* L. (Bački breg, Beograd - Bezanijska Kosa, Beograd - Blok 45, Beograd - Makiš, Đala, Horgoš, Ilinci, Koracička banja, Ludaško jezero, Obrenovac - Zabran, Pančevo, Radmilovac, Surčin - Rimski kanal, Vršački breg, Zemun - Zmaj).

Distribution: Italy, Moldova, Slovenia.

\*7) *Craspedolepta nervosa* (Foerster, 1848)

Host plant: *Achillea millefolium* L. (Barajevo, Beograd - Milošev konak, Vlasinsko jezero - Blato, Đala, Gornja Toponica, Kusić, Mali Žam, Mitrovac, Rabe, Sopot, Šašinci, Šopići, Veliko Središte, Vrčin).

Distribution: Euro-Siberian.

## Subfamily Arytaininae Crawford, 1914

Genus *Livilla* Curtis, 1836\*8) *Livilla cognata* (Löw, 1882)

Host plant: *Cytisus heuffelii* (W.) Rothm. (Pašina ravan).

Distribution: Europe, Caucasus.

\*9) *Livilla radiata* (Förster, 1848)

Host plant: *Lembotropis nigricans* (L.) Gris. Fruška Gora - Kurjakovac, Vlasina (trap).

Distribution: European.

## Subfamily Diaphorininae Vondráček, 1957

Genus *Psyllopsis* Löw. 198710) *Psyllopsis discrepans* (Flor, 1861)

Ref: JERINIĆ & SPASIĆ (1999)

Host plants: *Fraxinus angustifolia* Vahl. (Beograd - Autokomanda, Hram Svetog Save, Beograd - Kralja Milana), *Fraxinus excelsior* L. (Beograd - Nemanjina, Obedska bara), *Fraxinus ornus* L. (Beograd - Autokomanda, Beograd - Kalemegdan, Beograd -Voždovac, Ilinci Kosmaj-manastir, Palić, Radenković, Sopot, Šimanovci, Vršački breg), *Fraxinus* sp. (Beograd - Autokomanda, Brestovačka Banja, Majdanpek, Poljna, Radenković, Salakovac, Umčari, Veliko Središte, Vršac).

Distribution: West Palaearctic, introduced to North America.

\*11) *Psyllopsis fraxini* (Linnaeus, 1758)

Host plants: *Fraxinus ornus* L. (Veliko Središte), *Fraxinus* sp. (Kuštilj, Mitrovac, Radenković, Umčari, Veliko Središte, Vojvodinci, Vrčin).

Distribution: West Palaearctic, North India, introduced to North America.

12) *Psyllopsis fraxinicola* (Foerster, 1848)

Ref: JERINIĆ-PRODANOVIĆ (2007a)

Host plants: *Fraxinus angustifolia* Vahl. (Beograd - Ada Ciganlija, Beograd - Hram Svetog Save, Beograd - Kralja Milana, Zemun - Nova Galenika), *Fraxinus excelsior* L. (Beograd - Kralja Milana, Beograd - Nemanjina, Beograd - Blok 45, Zemun - Nova Galenika), *Fraxinus ornus* L. (Banja Vrujci, Beograd - Autokomanda, Galovica, Gusta Jela, Ilinci, Kosmaj-manastir, Obedska bara, Obrenovac-Zabran, Palić, Radmilovac, Sopot, Subotica, Šimanovci, Vršački breg, Vrujci), *Fraxinus* sp. (Beograd - Autokomanda, Banjski Kamen, Beograd - Ada Ciganlija, Beograd - Autokomanda, Beograd - hotel Jugoslavija, Beograd - Hram Svetog Save, Beograd - Kalemegdan, Beograd - Palilulska pijaca, Beograd - Takovska, Blagojev Kamen, Brestovačka Banja, Brodica, Čačak, Konjevići, Kruščica, Kuštilj, Majdanpek, Markovac, Niš, Novi Kneževac, Palić - zoo vrt, Radmilovac, Salakovac, Umčari, Veliko Središte, Vrčin, Vršac, Zemun - Nova Galenika).

Distribution: West Palaearctic, introduced to North America.

\*13) *Psyllopsis machinosa* Loginova, 1963Host plant: *Fraxinus excelsior* L. (Beograd - Autokomanda).

Distribution: Bulgaria, Moldova, Turkey, Caucasus, Kazakhstan, Central Asia.

\*14) *Psyllopsis meliphila* Löw, 1881Host plant: *Fraxinus* sp. (Nemenikuće, Vršački Breg, Mokra Gora - Obilaznica).Other plant: *Pyrus pyraeaster* Borkh. (Kosmaj).

Distribution: Central and south-eastern Europe.

\*15) *Psyllopsis repens* Loginova, 1963

Host plants: *Fraxinus excelsior* L. (Beograd - Autokomanda), *Fraxinus ornus* L. (Beograd - Hram Svetog Save, Beograd - Autokomanda), *Fraxinus* sp. (Beograd - Autokomanda, Beograd - Hram Svetog Save).

Distribution: Caucasus, Middle East, Central Asia.

Subfamily Liviinae Löw, 1879

Genus *Livia* Latreille, 1804\*16) *Livia junci* (Schränk, 1789)Host plant: *Juncus bulbosus* L. (Beograd - Blok 45, Obrenovac - Zabran, Ostružnički most).

Distribution: Palaearctic.

Subfamily Paurocephalinae Vondráček, 1963

Genus *Camarotoscena* Haupt, 1935\*17) *Camarotoscena speciosa* (Flor, 1861)

Host plant: *Populus nigra* L. (Bingula, Novi Sad, Radmilovac, Zemun - Lido, Zemun - Nova Galenika, Zemunski kej).

Distribution: West-Palaeartic.

Subfamily Psyllinae Löw, 1879

Genus *Baeopelma* Enderlein, 1926

\*18) *Baeopelma foersteri* (Flor, 1861)

Host plant: *Alnus glutinosa* (L.) Gaertn. (Bosiljkovac, Brestovačka Banja, Gornja Koviljača, Kosjerić, Kučevo, Kusić, Lješnica, Loćika, Luka, Majdanpek, Mali Zvornik, Modra Stena, Nočaj, Prohor Pčinjski, Radenković, Razbojna, Reka Vrelo, Rogačica, Rudna Glava, Sremski Karlovci, Todorovići, Tronoša, Tršić, Užice).

Other plant: *Ulmus effusa* Willd. (Perućac).

Distribution: Palaeartic.

Genus *Cacopsylla* Ossiannilsson, 1970

\*19) *Cacopsylla abdominalis* (Meyer-Dür, 1871)

Host plants: *Salix caprea* L. (Francuske barake, Goč - Cvetna Livada), *Salix* sp. (Đurina Odaja).

Distribution: Palaeartic.

20) *Cacopsylla affinis* (Löw, 1880)

Ref: JERINIĆ-PRODANOVIĆ (2009a)

Host plant: *Crataegus monogyna* Jacq. (Brestovik, Donji Milanovac - jezero, Fruška Gora - Kurjakovac, Guncati, Ilinci Koruška, Kosmaj, Kusić, Letenka, Lipovača, Ripanj, Susek, Štubičke pivnice, Vatin, Vladimirovac, Vršac, Vršački breg).

Other plants: *Abies alba* Mill. (Kopaonik - centar), *Picea* sp. (Golija - Jankov kamen, Kopaonik), *Pinus* sp. (L.) (Golija).

Distribution: West Palaeartic.

\*21) *Cacopsylla albipes* (Flor, 1861)

Host plant: *Sorbus domestica* L. (Družetić).

Other plants: *Abies* sp. (Golija), *Picea* sp. (Kopaonik).

Distribution: Europe, Caucasus.

\*22) *Cacopsylla ambigua* (Foerster, 1848)

Host plant: *Salix caprea* (Šljivovica).

Distribution: Palaeartic.

23) *Cacopsylla bidens* (Šulc, 1907)

Ref: JERINIĆ-PRODANOVIĆ (2009b)

Host plants: *Pyrus communis* L. (Banatski Karlovac, Banja Vrujci, Bavanište, Begeč, Beloljin, Beograd - hotel Jugoslavija, Beograd - Karaburma, Beograd - Studentski grad, Blace, Bogatić, Donji Milanovac - Veliki

greben, Divčibare, Kapetanova česma, Divoš, Dobanovci, Donja Bela Reka, Družetić, Dubovac, Erdevik - Selište, Fruška Gora - Kurjakovac, Golubići - Mokra Gora, Gornja Bukovica, Gornja Koviljača, Gornja Toponica, Ilinci, Irig, Ježevica, Katun, Klokočevac, Lešnica, Lipovača, Lješnica, Ločika, Majdanpek, Milutovac, Mionica, Nemenikuće, Novaci, Pančevo, Požarevac, Prokuplje, Radmilovac, Rataje, Sirakovo, Sokobanja, Šapine, Štubičke pivnice, Štubik, Tara - Kaluđerske bare, Valjevo, Velika Greda, Veliko Gradište, Voluja, Zemun - fakultet), *Pyrus pyrastrer* Borkh. (Beograd - Karaburma, Vršачki vinogradi, Dobričevo, Vršачki breg), *Pyrus* sp. (Cakanovac, Kondil).

Other plant: *Solanum tuberosum* L. (in trap) Vlasina - Preslap.

Distribution: Palaearctic.

\*24) *Cacopsylla breviantennata* (Flor, 1861)

Host plant: *Sorbus aria* (L.) Banjski Kamen, Bilješke stene, Predov krst - Livada.

Distribution: Europe, Caucasus.

\*25) *Cacopsylla brunneipennis* (Edwards, 1896)

Other plant: *Picea abies* (L.) (Bilješke stene, Kopaonik - Treska).

Distribution: Euro-Siberian.

\*26) *Cacopsylla corcontum* (Šulc, 1910)

Host plant: *Sorbus aucuparia* L. (Kopaonik, Zlatibor).

Distribution: European.

27) *Cacopsylla crataegi* (Schrank, 1801)

Ref: JERINIĆ & SPASIĆ (2002), JERINIĆ-PRODANOVIĆ (2009a)

Host plants: *Crataegus monogyna* Jacq. (Banja Vrujci, Beliči, Beograd - hotel Jugoslavija, Blace, Brestovik, Brodica, Divčibare, Divoš, Drenovac, Družetić, Fruška Gora - Kurjakovac, Guncati, Ilinci, Klokočevac, Kondil, Kosmaj, Kusić, Letenka, Plavna, Prokuplje, Radmilovac, Štubičke Pivnice, Velika Drenova, Veliko Središte, Vrujci), *Crataegus oxyacantha* L. cv. *rubra plena* (Zemun - Nova Galenika), *Malus domestica* Mill. (Ilinci), *Mespilus germanica* L. (Ilinci), *Sorbus aucuparia* L. (Kopaonik - centar).

Other plants: *Abies alba* Mill. (Kopaonik - centar), *Picea abies* (L.) (Kopaonik - Treska).

Distribution: Palaerctic, North India.

\*28) *Cacopsylla mali* (Schmidberger, 1836)

Host plant: *Malus domestica* Mill. (Biljanovac, Gornji Milanovac, Ježevica, Kopaonik - Gvozdac, Kopaonik - ulaz u nac. Park, Trstenik, Zlatibor - Kraljevske Vode).

Distribution: Palearctic, introduced to North America and Australia.

29) *Cacopsylla melanoneura* (Foerster, 1848)

Ref.: JERINIĆ & SPASIĆ (2002), JERINIĆ-PRODANOVIĆ (2006b, 2009a)

Host plants: *Crataegus monogyna* Jacq. (Ašanja, Barajevo, Beli Potok, Beliči, Beograd - hotel Jugoslavija, Beograd - Stari Merkator, Brestovik, Čelije, Čortanovci, Donji Milanovac - jezero, Deliblato, Divoš, Dobra,



Donja Bela Reka, Draževac, Drenovac, Đipša, Golubac, Gornja Trnava, Guncati, Gusta Jela, Hrtkovci, Ilinci, Kelebija, Klokočevac, Kondil, Koruška, Kosmaj, Kusić, Letenka, Lipovača, Neštin - lčke, Obedska bara, Oparić, Plavna, Prokuplje, Radenković, Radmilovac, Rataje, Razbojna, Ripanj, Rivica, Rogačica, Salaš Nočajski, Sotsko jezero, Stražilovo, Susek, Štubičke pivnice, Šušara, Tara - Omorika, Vatin, Velika Drenova, Veliko Središte, Vladimirovac, Vršac, Zemun - Pregrevica, Zlatibor - Kraljevske Vode), *Crataegus oxyacantha* L. cv. *rubra plena* (Banja Koviljača, Beograd - Bežanijska Kosa, Beograd - hotel Jugoslavija, Beograd - Hram Svetog Save, Beograd - Novi Merkator, Rogačica, Zemun - Nova Galenika), *Cydonia oblonga* Mill. (Beograd - hotel Jugoslavija, Ilinci), *Malus domestica* Mill. (Ašanja, Bačko Petrovo selo, Badovinci, Bečej, Beloljin, Belosavci, Beška - most, Beograd - hotel Jugoslavija Blace, Brestova zemlja - autoput, Cerovac, Čelije, Čortanovci, Donji Milanovac - Veliki greben Divoš, Dobanovci, Donja Omašnica, Draginje, Glavinci, Gornja Toponica, Grocka, Guncati, Hrtkovci, Ilinci, Indija, Irig, Jagodina, Kaluđerica, Katun, Kosjerić, Kragujevac, Kremna, Kukujevi, Kusić, Lešnica, Lipovača, Loćika, Loznica, Maradić, Milutovac, Mosurovina, Obedska bara, Oparić, Požega, Radenković, Radmilovac, Rimski Šančevi, Ripanj, Rogačica, Salaš Nočajski, Senta, Sevojno, Šid - Branjevina, Srbobran, Sremski Karlovci, Stara Pazova, Šušara, Trstenik, Uzovnica, Valjevo, Velika Greda, Voganj, Zemun - Nova Galenika, Žirovnica), *Malus sylvestris* Mill. (Iriški Venac), *Mespilus germanica* L. (Družetić, Gornji Milanovac, Ilinci Irig, Lugavčina).

Other plants: *Abies alba* Mill. (Bilješke stene, Goč - Cvetna Livada, Golija, Divčibare, Kopaonik - centar, Krnja Jela), *Elaeagnus angustifolia* L. (Zemun - Nova Galenika), *Fraxinus* sp. (Čačak), *Juniperus communis* (Divčibare), *Picea abies* (L.) (Divčibare, Golija, Kopaonik - centar, Kopaonik - Treska), *Pinus* sp.(L.) (Golija), *Populus alba* L. (Ilinci), *Prunus domestica* L. (Velika Greda), *Prunus spinosa* L. (Mali Žam), *Pyrus communis* L. (Beograd - hotel Jugoslavija, Čortanovci, Deč, Družetić, Dubovac, Ilinci, Indija - brza pruga, Koruška, Novi Sad - Detelinara, Radmilovac, Susek, Velika Greda, Vladimirovac), *Pyrus pyraeaster* Borkh. (Kosmaj), *Salix alba* L. (Beograd - hotel Jugoslavija), *Urtica dioica* L. (Ilinci).

Distribution: Palaearctic.

\*30) *Cacopsylla nigrita* (Zetterstedt, 1828)

Host plants: *Salix caprea* L. (Šljivovica, Perućac, Francuske barake, Erdevik - Bruja), *Salix cinerea* L. (Ilinci).

Other plant: *Picea* sp. (Golija - Jankov kamen).

Distribution: Palaearctic.

31) *Cacopsylla peregrina* (Foerster, 1848)

Ref.: JERINIĆ-PRODANOVIĆ (2009a)

Host plants: *Crataegus monogyna* Jacq. (Beograd - hotel Jugoslavija Brestovik, Čelije, Milanovac - jezero, Deliblato, Đipša, Dobra, Draževac, Gornja Koviljača, Ilinci, Jantare, Kaluđerica, Kaona, Kondil, Koruška, Kuštilj, Letenka, Lipovača, Markovac, Neštin-lčke, Oparić, Potaj Čuka, Radenković, Razbojna, Rivica, Salaš Nočajski, Uzovnica, Velika Drenova, Vršac), *Crataegus oxyacantha* cv. *rubra plena* L. (Banja Koviljača, Beograd - hotel Jugoslavija, Zemun - Nova Galenika).

Other plants: *Abies alba* Mill. (Bilješke stene, Kopaonik - centar, Predov krst - Livada), *Picea abies* (L.) (Golija - Jankov kamen, Kopaonik - centar, Kopaonik - Treska), *Juniperus communis* L. (Divčibare), *Picea* sp. (Divčibare).

Distribution: Palaearctic.

32) *Cacopsylla picta* (Foerster, 1848)

Ref.: JERINIĆ-PRODANOVIĆ (2007b)

Host plants: *Malus domestica* Mill. (Ašanja, Bela Palanka, Beograd - Ada Ciganlija, Beograd - hotel Jugoslavija, Dejan, Ilinci, Irig, Kragujevac, Kraljevci, Lipovača, Loznica, Obedska bara, Velika Greda, Vršачki vinogradi, Zemun - Nova Galenika), *Malus sylvestris* Mill. (Iriški Venac).

Other plants: *Abies alba* Mill. (Bilješke stene, Krnja Jela), *Populus alba* L. (Ilinci), *Prunus domestica* (Obedska bara).

Distribution: European.

33) *Cacopsylla pruni* (Scopoli, 1763)

Ref.: BOGAVAC (1967), SIMOVA-TOŠIĆ &amp; PETANOVIĆ (1986), TANASKOVIĆ (2009)

Host Plants: *Prunus armeniaca* L. (Brestova zemlja - autoput, Donja Omašnica, Ilinci, Milutovac, Srebrno jezero), *Prunus cerasifera* Ehrh. (Aleksandrovac, Ilinci, Obedska bara), *Prunus domestica* L. (Babušinac, Bački breg, Blace, Braničevo, Brestova zemlja - autoput, Čelije, Donji Milanovac - Veliki greben, Deč, Dobanovci, Donja Omašnica, Fruška gora - Kurjakovac, Glavinci, Golubac, Grocka, Ilinci, Kelebija, Knjaževac, Ločika, Milutovac, Obedska bara, Oparić, Rataje, Ruma, Sirakovo, Sokobanja, Trstenik, Udovice, Velika Greda, Vršac), *Prunus spinosa* Ehrh. (Deč, Ilinci, Kondil, Mali Žam, Obedska bara, Radmilovac).

Other plants: *Abies alba* Mill. (Bilješke stene, Kopaonik - centar), *Picea* sp. (L.) (Golija - Jankov kamen, Kopaonik - centar), *Pyrus communis* L. (Ilinci), *Solanum tuberosum* [Vlasina (Preslap) (trap)].

Distribution: Euro-Siberian.

\*34) *Cacopsylla pulchra* (Zetterstedt, 1838)

Host plants: *Salix alba* L. (Lješnica), *Salix caprea* L. (Erdevik - Bruja), *Salix cinerea* L. (Bačinci, Ilinci, Kuzmin), *Salix purpurea* L. (Ilinci, Zlatibor - Kraljevske Vode), *Salix* sp. (Erdevik - Bruja, Ilinci), *Salix triandra* L. (Rogačica).

Other plants: *Abies alba* (L.) (Kopaonik - centar), *Crataegus monogyna* Jacq. (Rivica), *Picea abies* (L.) (Kopaonik - Treska), *Populus alba* L. (Ilinci).

Distribution: Palaearctic.

35) *Cacopsylla pyri* (Linnaeus, 1758)

Ref.: GRBIĆ (1974), PAVIČEVIĆ (1977)

Host plants: *Pyrus communis* L. (Bavanište, Begeč, Bela Crkva, Beograd - Ada Ciganlija, Beograd - hotel Jugoslavija, Beograd - Karaburma, Beograd - Studentski grad, Cerovac, Čortanovci, Deč, Družetić, Horgoš, Ilinci, Irig, Izvor, Jasenov, Lešnica, Lipovača, Loznica, Lješnica, Maradić, Nemenikuće, Neštin, Novi Sad - Detelinara, Palić - jezero, Paraćin, Požarevac, Rabrovo, Radmilovac, Rimski Šančevi, Sremska Mitrovica, Stari Ledinci, Uljma, Veliko Središte, Vranje, Vučje), *Pyrus pyraeaster* Borkh. (Vršачki vinogradi).

Other plant: *Prunus domestica* L. (Vladimirovac).

Distribution: Palaearctic.

36) *Cacopsylla pyricola* (Foerster, 1848)

Ref.: PAVIČEVIĆ (1977)

Host plants: *Pyrus communis* L. (Bavanište, Blagojev Kamen, Bogatić, Brzeće, Cerovac, Divčibare - Kapetanova časma, Družetić, Gusta Jela, Ilinci, Jezero Zaovine, Knjaževac, Koruška, Kosmaj - manastir, Kučevo, Lešnica, Letenka, Luka, Majdanpek, Mali Zvornik, Mosurovina, Nemenikuće, Niš, Pančevo, Radmilovac, Rataje, Rudna Glava, Susek, Velika Greda, Vladimirovac, Zlatibor - Kraljevske Vode), *Pyrus pyraeaster* Borkh. (Kosmaj, Markovac-Sočica), *Pyrus* sp. (Francuske barake, Kondil, Pašina ravan 1, Potaj Čuka, Predov krst (Livada), Rtanj, Tara - Kaluđerske bare, Tara – Omorika).

Distribution: Palearctic, North India, introduced to North and South America.

37) *Cacopsylla pyrisuga* (Foerster, 1848)

Ref.: GRBIĆ (1974), PAVIČEVIĆ (1977)

Host plants: *Pyrus communis* L. (Ašanja, Babušinac, Bačko Petrovo selo, Badovinci, Banatski Karlovac, Barajevo, Bavanište, Begaljičko brdo, Bela Palanka, Belići, Beloljin, Belosavci, Beška - most, Beograd - hotel Jugoslavija, Beograd - Karaburma, Blace, Brestova zemlja - autoput, Brnjica, Cerovac, Crnoklište, Čelije, Čortanovci, Deč, Deliblato, Divčibare - Kapetanova česma, Divoš, Dobanovci, Dolac, Donja Omašnica, Donje Selo, Družetić, Erdevik - Selište, Fruška Gora - Kurjakovac, Glavinci, Gornja Toponica, Gornja Trnava, Ilinci, Inđija - brza pruga, Irig, Jagodina, Kaluđerica, Katun, Klokočevac, Knjaževac, Kosjerić, Kosmaj, Kosmaj - manastir, Kragujevac, Kraljevci, Krnjevo, Kusić, Lešnica, Letenka, Lipovača, Ločika, Loznica, Maradić, Milutovac, Modra Stena, Nemenikuće, Neštin, Nova Varoš, Obedska bara, Oparić, Paklje, Palić - jezero, Pančevo, Paraćin, Požega, Rabrovo, Radenković, Radmilovac, Ralja, Rataje, Rimski Šančevi, Rogačica, Rudna Glava, Salaš Noćajski, Senta, Sirakovo, Sokobanja, Sopot, Sot, Sremska Mitrovica, Srbobran, Stara Pazova, Stari Tamiš, Surdulica, Susek, Svode, Svrljig, Šid - Branjevina, Šimanovci, Štubičke Pivnice, Štubik, Šušara, Tara - Kaluđerske bare, Trstenik, Uzovnica, Valjevo, Velika Drenova, Velika Greda, Veliko Gradište, Vladimirovac, Vlasotince, Voganj, Voluja, Vranje, Vrdnik, Vršac, Zemun - fakultet, Zemun - Gornji grad, Zemun - Lido, Žirovnica), *Pyrus pyraeaster* Borkh. (Donji Milanovac - Veliki greben, Donji Milanovac - jezero, Kosmaj, Markovac - Sočica, Vršački breg), *Pyrus* sp. (Beograd - Košutnjak, Dobra, Guncati, Predov krst - Livada, Rtanj, Tara - Kaluđerske bare).

Other plants: *Abies alba* Mill. (Bilješke stene), *Crataegus monogyna* Jacq. (Ilinci), *Cydonia oblonga* Mill. (Ilinci), *Malus domestica* Mill. (Ilinci, Irig), *Picea abies* (L.) (Bilješke stene, Golija, Kopaonik - Treska).

Distribution: Palearctic.

38) *Cacopsylla rhamnocola* (Scott, 1876)

Ref.: JERINIĆ-PRODANOVIĆ (2007c)

Host plant: *Rhamnus cathartica* L. (Beograd - hotel Jugoslavija, Grebenac, Ilinci, Kelebija, Kondil, Mali Žam, Neštin, Obedska bara, Široka Torina).

Other plants: *Abies alba* Mill. (Bilješke stene), *Populus alba* L. (Ilinci).

Distribution: Palearctic.

\*39) *Cacopsylla saliceti* (Foerster, 1848)

Host plants: *Salix alba* L. (Beograd - hotel Jugoslavija), *Salix* sp. (Ostružnicki most, Zemunski kej).

Other plants: *Abies alba* Mill. (Kopaonik - centar), *Picea* sp. (Kopaonik - centar), *Pinus* sp. (Golija).

Distribution: Palaearctic.

\*40) *Cacopsylla sorbi* (Linnaeus, 1758)

Host plants: *Sorbus aria* L. (Tara - Bilješke stene), *Sorbus aucuparia* L. (Kopaonik).

Distribution: Europe, introduced to North America.

41) *Cacopsylla ulmi* (Foerster, 1848)

Ref.: JERINIĆ-PRODANOVIĆ (2006a)

Host plant: *Ulmus effusa* Willd. (Bački breg, Beograd - Ada Ciganlija, Beograd - Blok 44, Beograd - Blok 45, Beograd - hotel Jugoslavija, Gornja Koviljača, Radenković, Reka Vrelo, Vršac).

Other plants: *Abies alba* Mill. (Bilješke stene, Predov krst - Livada), *Picea abies* (L.) (Kopaonik - Treska), *Prunus cerasifera* Ehrh. (Radmilovac), *Pyrus communis* L. (Velika Greda), *Urtica dioica* L. (Beograd - Ada Ciganlija).

Distribution: Euro-Siberian.

42) *Cacopsylla visci* (Curtis, 1835)

Ref.: PROTIĆ & MILENKOVIĆ (1995)

Host plant: *Viscum album* L. (Beograd - Bulevar A. Karađorđevića, Beograd - Milošev konak, Lipovača).

Distribution: West Palaearctic.

Genus *Psylla* Geoffroy, 1762

Subgenus *Psylla* Geoffroy

\*43) *Psylla alni* (Linnaeus, 1758)

Host plant: *Alnus glutinosa* (L.) Gaertn. (Gvozdac, Jošanička Banja, Kremna, Mitrovo Polje, Šargan potok, Todorovići).

Distribution: Holarctic.

44) *Psylla buxi* (Linnaeus, 1758)

Ref.: MILOŠEVIĆ & MIHAJLOVIĆ (2001)

Host plant: *Buxus sempervirens* L. (Aleksandrovac, Amajići, Ašanja, Banja Koviljača, Belotić, Beograd - Zvezdara-Olimp, Čačak, Donji Milanovac, Drenovac, Družetić, Ilinci, Kelebija, Manastir - Rača, Manastir - Tronoša, Niška Banja, Radenković, Radmilovac, Smederevska Palanka, Stara Pazova, Straža, Šid, Užice, Vlaško polje, Vranje, Vrdnik, Vršac, Vrujci, Zemun - fakultet, Zemun - Gornji grad, Zemun - Nova Galenika).

Other Plant: *Fraxinus angustifolia* Vahl. (Beograd - Hram Svetog Save).

Distribution: Europe, Caucasus, introduced to North America.

Subfamily Rhinocolinae Vondráček, 1957

Genus *Rhinocola* Foerster, 1848

\*45) *Rhinocola aceris* (Linnaeus, 1758)

Other plants: *Pyrus communis* L. (Kosmaj - manastir), *Pyrus pyraeaster* Borkh. (Kosmaj).

Distribution: Euro-Siberian.

Family Triozidae Löw, 1879

Genus *Bactericera* Puton, 1876

\*46) *Bactericera albiventris* (Foerster, 1848)

Host plants: *Salix alba* L. (Beograd - hotel Jugoslavija), *Salix* sp. (Beograd - hotel Jugoslavija, Ostružnicki most, Pašina ravan 1, Zemunski kej).

Distribution: Palaearctic.

\*47) *Bactericera curvatinervis* (Foerster, 1848)

Host plant: *Salix caprea* L. (Šljivovica, Tara - Kaluderske bare).

Distribution: Palaearctic.

\*48) *Bactericera nigricornis* (Foerster, 1848)

Host plants: *Barbarea vulgaris* R. Br. (Goč - Cvetna livada), *Solanum tuberosum* L. [Guča, Vlasina (trap)].

Distribution: Palaearctic.

49) *Bactericera tremblayi* (Wagner, 1961)

Ref.: JERINIĆ (2000), JERINIĆ-PRODANOVIĆ & SPASIĆ (2003), JERINIĆ-PRODANOVIĆ (2006)

Host plants: *Allium cepa* L. (Bački Maglić, Bački Petrovac, Baluga, Banjica, Batajnica - 13. maj, Bela Voda, Bogovina, Boljevci, Čičevac, Čortanovci, Đurinci, Galovica, Horgoš, Ilinci, Kladašnica, Konjuh, Kosmaj - manastir, Kovačica, Kuršumljija, Kusić, Mala Krsna, Negotin, Orašac, Osnić, Počekovina, Podgorac, Požarevac, Prohor Pčinjski, Radmilovac, Smederevska Palanka, Soko Salaš, Sremska Mitrovica, Stalać, Sumrakovac, Tatarinovac, Topolovnik, Tošin Bunar, Trbušani, Trnjane, Vranići, Zaječar, Zemun Polje, Zlot, Zrenjanin), *Allium porrum* L. (Galovica, Obedska bara, Prohor Pčinjski, Slanci, Tošin Bunar), *Allium sativum* L. (Baluga, Čortanovci, Galovica, Ilinci Negotin, Prohor Pčinjski, Radmilovac, Sirakovo, Slanci, Smederevska Palanka, Soko Salaš, Topolovnik, Tošin Bunar, Trbušani, Vranići), *Brassica oleracea* v. *capitata* L. (Batajnica - 13. maj, Čenta, Ilinci, Kosmaj-manastir, Podgorac, Slanci), *Daucus carota* L. (Galovica, Soko Salaš, Sremska Mitrovica, Zemun - fakultet), *Solanum tuberosum* L. (Aljinovići, Božetići).

Other plants: *Solanum tuberosum* L. (trap) (Štapari), *Triticum vulgare* L. (in trap) (Zaječar).

Distribution: West Palaearctic (Italy, Switzerland, Turkey, Iran, Syria).

Genus *Trichohermes* Kirkaldy, 1904

\*50) *Trichohermes walkeri* (Foerster, 1848)

Host plant: *Rhamnus cathartica* L. (Ilinci, Široka Torina).

Distribution: European.

Genus *Trioza* Foerster, 1848

\*51) *Trioza centranthi* (Vallot, 1829)

Other plants: *Abies alba* Mill. (Goč - Cvetna Livada), *Sorbus aucuparia* L. (Zlatibor - Kraljevske vode).

Distribution: West Palaearctic.

\*52) *Trioza chenopodii* Reuter, 1876

Host plants: *Atriplex oblongifolia* W. et K. (Beograd - Blok 45, Galovica, Odžaci, Radenković, Velika Greda, Zemun - železnička stanica, Zrenjanin), *Atriplex* sp. (Čortanovci, Rajac, Vršački breg), *Atriplex tatarica* L. (Bojčinska šuma, Horgoš, Ilinci, Novi Kneževac, Mionica, Ostružnički most, Srpski Krstur, Zemun - železnička stanica).

Distribution: Palaearctic, India, Pakistan, introduced to North America.

\*53) *Trioza chrysanthemi* Löw, 1878

Host plant: *Chrysanthemum leucanthemum* L. (Golija - Bele Vode).

Distribution: European.

\*54) *Trioza cirsii* Löw, 1881

Host plants: *Cirsium rivulare* (Jacq.) (Krnja Jela, Mitrovac), *Carduus personata* (L.) Jaq. (Mitrovac), *Cirsium palustre* (L.) Scop. (Mitrovac).

Distribution: West Palaearctic.

\*55) *Trioza dispar* Löw, 1878

Host plant: *Taraxacum officinale* Web. (Kopaonik - centar, Mitrovac, Predov krst - Livada).

Other plants: *Abies alba* Mill. (Predov krst - Livada), *Picea abies* (L.) (Bilješke stene), *Pinus* sp. (Golija).

Distribution: Euro-Siberian.

\*56) *Trioza foersteri* Meyer-Dür, 1871

Host plant: *Mycelis muralis* (L.) Rchb. [Banjski Kamen, Bilješke stene, Mitrovac, Predov krst (Livada)].

Distribution: European.

\*57) *Trioza laserpitii* Burckhardt & Lauterer, 1982

Host plant: *Chaerophyllum aromaticum* L. (Bilješke stene, Predov krst - Livada).

Distribution: European.

\*58) *Trioza mesembrina* Burckhardt, 1986

Host plant: *Chaerophyllum hirsutum* L. (Kopaonik - Srebrenac).

Other plant: *Picea* sp. (Kopaonik).

Distribution: European.

\*59) *Trioza neglecta* Loginova, 1978

Host plant: *Elaeagnus angustifolia* L. (Zemun - Nova Galenika).

Distribution: Caucasus, Central Asia, introduced to Europe.

60) *Trioza rhamni* (Schrank, 1801)

Ref.: JERINIĆ-PRODANOVIĆ (2007c)

Host plant: *Rhamnus cathartica* L. (Beograd - hotel Jugoslavija, Beograd - Makiš, Grebenac, Ilinci, Kelebija, Kondil, Mali Žam, Neštin, Obedska bara, Široka Torina).

Other plant: *Malus domestica* Mill. (Ilinci), *Pyrus communis* L. (Stara Pazova, Velika Greda).

Distribution: West Palaearctic.

\*61) *Trioza remota* Foerster, 1848

Other plants: *Allium cepa* L. (in trap) (Zaječar), *Triticum vulgare* L. (in trap) (Zaječar).

Distribution: West Palaearctic.

\*62) *Trioza rotundata* Flor, 1861

Other plants: *Picea* sp. (Kopaonik), *Pinus* sp. (Golija).

Distribution: West Palaearctic.

\*63) *Trioza urticae* (Linnaeus, 1758)

Host plant: *Urtica dioica* L. Božetići, Bački breg, Bački vinogradi, Bačko Gradište, Badovinci, Beška, Beograd - Ada Ciganlija, Beograd - Milošev konak, Blato, Bosiljkovac, Brzeće, Đala, Đavolja Varoš, Dejan, Divčibare, Dolac, Gornja Koviljača, Gornji Milanovac, Graševci, Grebenac, Gusta Jela, Ilinci, Indija, Jasenovo, Kelebija, Kondil, Kopaonik - centar, Kosmaj, Krnjevo, Kruščica, Kučevo, Kusić, Kuštilj, Lešnica, Lipovača, Loznica, Luka, Majdan, Majdanpek, Mali Žam, Mitrovac, Mosurovina, Mramorak, Nemenikuće, Novi Kneževac, Obedska bara, Pašina ravan 1, Perućac, Predejane, Radenković, Radmilovac, Ralja, Reka Vrelo, Rogačica, Rudna Glava, Salakovac, Salaš Noćajski, Široka Torina, Šopići, Stari Tamiš, Subotica, Tara - Omorika, Velika Greda, Vladimirovac, Vrdnik, Vršački breg, Zlatibor - Kraljevske Vode, Zobnatica].

Other plant: *Alnus glutinosa* (L.) Radenković.

Distribution: Palaearctic, North India.

Most of the species are from the Palearctic region (22). 14 species belong to West Palearctic, the subregion of Palearctic, 15 species to European and 6 to Euro-Siberian. Each of Holarctic and Mediterranean includes one species. Two species (*Craspedolepta conspersa* i *Psyllopsis machinosa*) were registered in several European and Asian countries, while *Psyllopsis repens* is an Asian species, which was determined in Serbia and Europe for the first time on this occasion.

On cultivated plants 13 species of jumping plant lice were determined, among which the strongest influence have pear jumping plant lice *Cacopsylla pyri*, *C. pyrisuga* and *C. bidens*. Other species (*C. melanoneura*, *C. picta*, *C. mali*, *C. pruni*, *C. pyricola*, *C. albipes*, *C. crataegi*, *Bactericera tremblayi*, *B. nigricornis* and *Homotoma ficus*) can occasionally cause damage on cultivated plants.

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# СПИСАК ВРСТА ЛИСНИХ БУВА (HEMIPTERA, PSYLLOIDEA) У СРБИЈИ

ДУШАНКА ЈЕРИНИЋ-ПРОДАНОВИЋ

## Извод

Лисне буже су мало позната група инсеката у оквиру реда Hemiptera. У свету је до сада утврђено око 3000 врста, са највећом бројношћу у областима топлијег климата. Сврстане су у шест фамилија Calophyidae, Carsidaridae, Homotomidae, Phacopteronidae, Psyllidae и Triozidae, од којих су прве четири углавном заступљене у тропском и умерено тропском региону. Лисне буже су ситни инсекти од 1,5 до 4,5 mm, изгледом подсећају на минијатурне цикаде од којих се разликују по дужим пипцима. Искључиво су фитофагне, уско везане за једну биљку или неколико сродних биљака.

У Србији је до сада било познато шест врста као штеточине на пољопривредним и украсним биљкама. Последњих година фаунистичко – таксономско истраживање ове групе инсеката, као део докторске дисертације аутора, резултирало је налазом још 57 врста, тако да је до сада утврђено 63 врсте у фауни Србије. Регистроване врсте лисних бува Србије су сврстане у четири фамилије: Calophyidae (1 врста), Homotomidae (1 врста), Psyllidae (43 врсте) и Triozidae (18 врста). Лисне буже су сакупљане са 71 биљне врсте из 25 фамилија, од којих су 63 биљке из 21 фамилије регистроване као њихови домаћини.

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## Appendix 1

List of inspected localities with coordinates (UTM MGRS) and altitudes (m a.s.l)

No.	Locality	MGRS coord.	Altitude
1	Aleksandrovac	EP0414711684	350
2	Aleksinac	EP5779521277	245
3	Aljinovići	DN0691098059	1200
4	Amajći	CQ5198508582	160
5	Aradac	DR4418625150	80
6	Ašanja	DQ2556855845	79
7	Avala	DQ6211249310	365
8	Babušinar	EQ1783443622	75
9	Bačinci	CQ6768593010	87
10	Bački breg	CR3898587549	88
11	Bački Maglić	CR8531825280	84
12	Bački Petrovac	CR8980423829	85
13	Bački vinogradi	DS1120608567	101
14	Bačko Gradište	DR2363247085	80
15	Bačko Petrovo selo	DR2833260221	72
16	Badovinci	CQ7139160031	90
17	Bajina Bašta	CP8526469599	250
18	Baluga	DP5323756087	230
19	Banatski Karlovac	DQ9980089096	111
20	Banja Koviljača	CQ5333530366	140
21	Banjski Kamen	CP7133967288	1082
22	Barajevo	DQ5364136171	130
23	Batajnica - 13. maj	DQ4805370488	100
24	Bavanište	DQ9100662044	80
25	Bečej	DR2472149552	80
26	Begaljičko brdo	DQ7131141448	265
27	Begeč	CR9140510544	79
28	Bela Crkva	EQ3039170587	79
29	Bela Palanka	FN0671187250	270

30	Bela Voda	EP1628429109	172
31	Beli Potok	DQ6252651552	130
32	Belići	DP1150597070	400
33	Beloljin	EN3307786904	289
34	Belosavci	DQ7532308179	150
35	Belotić	CQ8517463692	83
36	Beška	DQ2829998079	115
37	Beška - most	DR2788101110	160
38	Beograd - Ada Ciganlija	DQ5300259653	74
39	Beograd - Autokomanda	DQ5825659642	100
40	Beograd - Banjica	DQ5907755872	190
41	Beograd - Banjica 1	DQ5749657607	190
42	Beograd - Bež. Kosa	DQ5160463367	100
43	Beograd - Blok 44	DQ5165660539	76
44	Beograd - Blok 45	DQ5094260195	76
45	Beograd - Bul. Al. Karađ.	DQ5717358724	175
46	Beograd - hototel Jugoslavija	DQ5437563864	77
47	Beograd - Hram Svetog Save	DQ5790160679	120
48	Beograd - Kalemegdan	DQ5635863340	108
49	Beograd - Karaburma	DQ5949662355	110
50	Beograd - Košutnjak	DQ5464658370	205
51	Beograd - Kralja Milana	DQ5751861990	104
52	Beograd - Lazarevićeva	DQ5779861931	125
53	Beograd - Makiš	DQ5064358267	76
54	Beograd - Mali Mokri Lug	DQ6350558090	220
55	Beograd - Mali Mokri Lug 1	DQ6203859030	202
56	Beograd - Marinkova bara	DQ5954458785	105
57	Beograd - Milošev konak	DQ5570358407	80
58	Beograd - Novi Merkator	DQ5371163115	80
59	Beograd - naselje Veljko Vlahović	DQ6037755218	200
60	Beograd - Nemanjina	DQ5726961545	96
61	Beograd -Palilulska pijaca	DQ6126162215	115
62	Beograd - Stari Merkator	DQ5341264142	75
63	Beograd - Studentski grad	DQ5245563671	80
64	Beograd - Šumice	DQ5958159159	85

65	Beograd - Takovska	DQ5840962480	110
66	Beograd - Tošin Bunar	DQ5234362854	80
67	Beograd - Voždovac	DQ5842859541	85
68	Beograd - Zeleni venac	DQ5724562323	75
69	Beograd - Zvezdara-Olimp	DQ6130760301	120
70	Beograd - Žarkovo	DQ5267056296	100
71	Bingula	CQ8074895792	108
72	Biljanovac	DP7229906240	380
73	Bilješke stene	CP6500070202	1205
74	Bistrica	CP9126213772	450
75	Blace	EN2185994007	387
76	Blagojev Kamen	EQ6806020737	250
77	Blato	FN0854225967	1215
78	Bogatić	CQ8003666050	85
79	Bogovina	EP7712060720	260
80	Bojčinska šuma	DQ3002457909	78
81	Boleč	DQ6973652707	100
82	Boljevac	EP7684754051	280
83	Boljevci	DQ3963052433	80
84	Bosiljkovac	EQ6836422165	240
85	Božetići	DP1463310835	1060
86	Braničevo	EQ4274049988	83
87	Brestova zemlja - autoput	DQ3738683312	86
88	Brestovačka Banja	EP8357879087	360
89	Brestovik	DQ8261444051	152
90	Brnjica	EQ6096144730	80
91	Brodica	EQ6572525912	220
92	Brzeće	DN9070794158	990
93	Bujanovac	EN6414400854	394
94	Cakanovac	EM5809280044	445
95	Cerovac	DQ0031348202	110
96	Crnoklište	FN1884387249	277
97	Čačak	DP4775360206	242
98	Čortanovci	DQ1894199819	254
99	Čelije	DQ3573012354	140

100	Ćelije - jezero	EP1338706729	294
101	Ćenta	DQ5120194567	79
102	Ćičevac	EP3589540667	140
103	Donji Milanovac	EQ9151824072	85
104	Donji Milanovac - Veliki greben	EQ8334030090	150
105	Donji Milanovac - jezero	EQ9122821492	250
106	Debelo brdo	CP9525889466	1050
107	Deč	DQ2890362091	77
108	Dejan	FN0030858900	292
109	Deliblato	EQ0339065040	89
110	Devojački bunar	DQ9680282603	185
111	Divčibare	DP1876985263	967
112	Divčibare - Kapetanova česma	DP2174989131	713
113	Divčibare - Krčmar	DP1886190279	522
114	Divoš	CQ8276599099	290
115	Dobanovci	DQ3789263688	80
116	Dobra	EQ7152643327	83
117	Dobričevo	EQ3004683078	94
118	Dolac	EN9777094368	280
119	Donja Bela Reka	EP9649380523	238
120	Donja Omašnica	EP1107820082	271
121	Donje Selo	FN2561586740	271
122	Draginje	DQ0145731961	240
123	Draževac	EP6286413185	205
124	Drenovac	CQ9792669145	80
125	Družetić	DQ0688519290	180
126	Dubovac	EQ1731960465	74
127	Đala	DS3328310668	90
128	Đala - Tisa	DS2888412008	85
129	Đavolja Varoš	EN3215559664	625
130	Đipša	CR8159501281	254
131	Đurina Odaja	CP9285585572	1070
132	Đurinci	DQ6968629813	160
133	Erdevik - Bruja	CQ7360099024	150
134	Erdevik - Selište	CQ7446389797	88

135	Francuske barake	EP7930787288	620
136	Fruška Gora - Kurjakovac	DR1485201110	327
137	Galovica	DQ4867157921	76
138	Glavinci	EP1938563295	151
139	Goč - Cvetna livada	DP8496921134	1000
140	Goč - Dobre vode	DP8053823256	850
141	Goč - Kamenica	DP7569528082	225
142	Goč - Vrnjačka banja	DP8574423557	1050
143	Golija - Bele Vode	DN4095087717	800
144	Golija - Jankov kamen	DN4025298029	1669
145	Golija - Odvraćenica	DN3812094335	1155
146	Golubac	EQ5001644363	80
147	Golubići	CP7980749835	555
148	Gornja Bukovica	DQ0299211759	427
149	Gornja Koviljača	CQ5173829057	120
150	Gornja Toponica	EP6664303760	305
151	Gornja Trnava	DP7914592381	320
152	Gornjačka klisura	EQ4523900974	200
153	Gornji Milanovac	DP5714574808	305
154	Graševci	DP9945600950	503
155	Grebenac	EQ1851671866	70
156	Grocka	DQ7628048484	125
157	Guča	DP3783447969	334
158	Guncati	DQ5234038866	218
159	Gusta Jela	CP9364084277	1050
160	Gvozdac	DN8107099372	1290
161	Horgoš	DS1704910922	90
162	Hrtkovci	DQ0470069728	79
163	Ilinci	CQ5220797046	82
164	Indija	DQ2519492227	130
165	Indija - brza pruga	DQ3055985066	90
166	Irig	DQ0951196824	210
167	Iriški Venac - spomenik	DR0883800587	520
168	Iriški Venac	DR0812100307	450
169	Izvor	FN1390770974	292



170	Jagodina	EP2205070316	155
171	Jantare	CP8294849834	720
172	Jasenovo	EQ2339675612	90
173	Jezero Zaovine	CP7194759723	800
174	Ježevica	DP2169768532	533
175	Jošanicka Banja	DP7987103930	560
176	Kač	DR1486016980	82
177	Kaluđerica	DQ6511157353	200
178	Kanjon Dervente	CP6889369288	295
179	Kaona	DP1392085297	759
180	Katun	EP6290815764	235
181	Kelebija	CS9083711683	126
182	Kelebija - granični prelaz	CS8830512978	127
183	Kladušnica	FQ2455943138	40
184	Klek	DR5932129989	80
185	Klokočevac	EQ9399311212	140
186	Knjaževac	FP0051023226	238
187	Kondil	EP8682327374	630
188	Konjevići	DP5169661125	220
189	Konjuh	EP1468332310	183
190	Kopaonik - centar	DN8448992572	1720
191	Kopaonik - Srebrenac	DN8667096057	1740
192	Kopaonik - Treska	DN8395491144	1540
193	Kopaonik - ulaz	DP7939801289	805
194	Koraćička banja	DQ7322219335	140
195	Koruška	CR8793505742	108
196	Kosjerić	DP1310873334	420
197	Kosmaj	DQ6586023848	545
198	Kosmaj - manastir	DQ6554724542	495
199	Kovačica	DQ7018995509	81
200	Kozja Stena	CP7365267112	900
201	Kragujevac	DP9567175527	160
202	Kraljevci	DQ1225180895	99
203	Kremna	CP8610456023	700
204	Križevac - kanjon Dervente	CP6723166654	600

205	Krnja Jela	CP7301062441	1048
206	Krnjevo	EQ0399720963	100
207	Kruščica	EQ4168976013	170
208	Kruševac	EP2649125490	160
209	Kučevo	EQ5408224440	160
210	Kukujevci	CQ6905992162	87
211	Kumane	DR3962542168	84
212	Kuršumlija	EN2259476325	345
213	Kusić	EQ3730468769	92
214	Kuštilj	EQ2931986050	85
215	Kuzmin	CQ7151188590	80
216	Laćarak	CQ8724183691	85
217	Lazarevac	DQ4138414697	150
218	Lepenski vir	EQ8131934471	131
219	Lešnica	CQ6536645699	106
220	Letenka	CQ9631498869	420
221	Lipovača	CQ6488699958	165
222	Ločika	EP1592056434	127
223	Lopaš	DP2687851560	206
224	Loznica	CQ5577431786	310
225	Ludaško jezero	DS0833805370	120
226	Lugavčina	EQ0501129704	98
227	Luka	EP9586890671	83
228	Lješnica	EQ4645331695	340
229	Majdan	DP5842882663	425
230	Majdanpek	EQ7585118930	520
231	Mala Krsna	EQ0097737087	76
232	Mali Zvornik	CQ4930714667	85
233	Mali Žam	ER2573609137	120
234	Manastir - Rača	CP8294765281	380
235	Maradik	DQ2287496424	140
236	Markovac	EQ4152699249	217
237	Markovac - Sočica	EQ3903396923	430
238	Mećavnik	CP7986050384	630
239	Melenci	DR4730039777	80

240	Milutovac	EP1046734318	200
241	Mitrovac	CP7346964032	1170
242	Mitrovo Polje	EP0414711684	660
243	Mionica	DP2586499273	215
244	Modra Stena	FN0791462874	296
245	Mokra Gora - Obilaznica	CP8094952777	905
246	Mosurovina	CP8151806701	1150
247	Mramorak	DQ9737069901	130
248	Mrtva Tisa	DS2487611866	77
249	Negotin	FP2228498387	40
250	Nemenikuće	DQ6554926826	280
251	Neštin	CR7995509752	127
252	Neštin-lčke	CR7769007100	147
253	Niš	EN7277895623	200
254	Niška Banja	EN8188894091	222
255	Noćaj	CQ8676176086	79
256	Nova Varoš	DP0406012618	980
257	Novaci	EP1097911961	280
258	Novi Kneževac	DR2946599531	80
259	Novi Sad	DR0880611953	80
260	Novi Sad - Detelinara	DR0709012978	79
261	Novi Sad - Liman	DR1009911412	80
262	Obedska bara	DQ1984854158	80
263	Obrenovac - Zabran	DQ3969045828	83
264	Odžaci	CR6411841861	84
265	Oparić	EP0892443498	309
266	Orašac	DQ8591044487	84
267	Osnić	EP8572662690	200
268	Ostružnicki most	DQ4541854680	77
269	Paklje	DQ0387400598	250
270	Palić	DS0712710187	103
271	Palić - jezero	DS0389305714	107
272	Palić - zoo vrt	DS0329505810	106
273	Pančevo	DQ7766675354	80
274	Paraćin	EP3463255422	165

275	Pašina ravan	CP9416589013	850
276	Pašina ravan 1	CP9312688107	1005
277	Peručac	CP7383768409	230
278	Petrovčić	DQ3244060541	78
279	Plavna	FQ0059805369	320
280	Pleš	DP9326514512	575
281	Počekovina	EP0661126301	160
282	Podgorac	EP7636766008	280
283	Polumir	DP6837219567	260
284	Poljna	EP0855539316	300
285	Potaj Čuka	EP7062696829	820
286	Požarevac	EQ1449040511	80
287	Požega	DP2225756566	360
288	Predejane	EN9241142758	300
289	Predov krst - livada	CP6540967713	1143
290	Preslap	FN1285440423	1598
291	Progorelica	DP6564636546	223
292	Prohor Pčinjski	EM7375086731	436
293	Prokuplje	EN4420885846	260
294	Rabe	DS4228107211	80
295	Rabrovo	EQ4090836016	140
296	Radenković	CQ8045676709	81
297	Radmilovac	DQ6656855731	160
298	Rajac	DP3919587529	700
299	Ralja	DQ6544936071	200
300	Rataje	EP0895313212	315
301	Razbojna	EN1683297879	334
302	Reka Vrelo	CP7777467999	185
303	Reka Zaplenjska	DN9008290650	920
304	Rimski Šančevi	DR0969320776	85
305	Ripanj	DQ6200142884	300
306	Rivica	DQ0727394339	200
307	Rogačica	CP8980377118	220
308	Ropočevo	DQ6628030531	200
309	Rtanj	EP7433947970	552

310	Rudna Glava	EQ8706208246	200
311	Ruma Fruktal	DQ0966091998	175
312	Ruma ulaz	DQ1021084631	130
313	Salakovac	EQ2161636972	105
314	Salaš Noćajski	CQ9097978802	80
315	Senta	DR2551586953	170
316	Sevojno	DP1140154964	555
317	Silbaš	CR7946827788	92
318	Sirakovo	EQ2635345953	77
319	Slanci	DQ6671361736	360
320	Smed. Palanka	DQ9639011851	104
321	Soko Salaš	DQ4406265493	100
322	Sokobanja	EP7151032799	87
323	Sopot	DQ6579628871	76
324	Sot	CR6750901773	148
325	Sotsko jezero	CR6917402106	150
326	Spančevac	EM7032790474	110
327	Sremska Mitrovica	CQ9251583888	880
328	Sremski Karlovci	DR0995608954	140
329	Srbobran	DR0370044905	115
330	Srebrno jezero	EQ3804156933	84
331	Sremski Karlovci	DR1623005381	348
332	Srpski Krstur	DS3001609390	100
333	Stalać	EP3347436477	244
334	Stapari	CP9994658206	123
335	Stara Pazova	DQ3438280762	140
365	Topolovnik	EQ3503551945	73
366	Trbušani	DP4552262368	250
367	Trnjane	FP1028695347	267
368	Tršić	CQ6239628628	205
369	Tronoša	CQ6346724355	330
370	Trstenik	EP0015829467	172
371	Udovice	DQ8894841728	189
372	Uljma	EQ1265388427	90
373	Umčari	DQ7751135170	160

374	Uzovnica	CQ6671703232	140
375	Užice	DP0766756974	170
376	Valjevo	DQ1173701801	186
377	Vatin	ER2287909793	80
378	Velika Drenova	EP1181530301	165
379	Velika Greda	ER0321010019	78
380	Veliko Gradište	EQ4029456470	85
381	Veliko Središte	ER3339106925	118
382	Vidikovac	DQ5358953927	150
383	Višnićevo	CQ6475080526	83
384	Vitasi	CP8289053981	810
385	Vladimirovac	DQ8849885939	140
386	Vlasotince	EN9232057706	160
387	Vlaško polje	DQ7342824744	286
388	Voganj	DQ0343084444	103
389	Vojvodinci	EQ2862585534	95
390	Voluja	EQ6210426172	190
391	Vranići	DP4546465065	268
392	Vranje	EN7534410094	435
393	Vranjska Banja	EN8205811082	400
394	Vrčin	DQ6992044946	140
395	Vrdnik	DQ0511097095	200
396	Vršac	EQ2401296218	95
397	Vršački breg	EQ2580596851	330
398	Vršački vinograd	EQ2641293375	126
399	Vrujci	P3320297153	170
400	Vučje	EN7436646717	375
401	Zaječar	FP0260462162	130
402	Zaječar institut	FP0064061066	141
403	Zemun Polje	DQ4675768828	82
404	Zemun - fakultet	DQ5344865302	75
405	Zemun - Gornji grad	DQ5279266191	100
406	Zemun - Lido	DQ5449165249	73
407	Zemun - Nova Galenika	DQ5021567776	90
408	Zemun - Pregrevica	DQ5220467028	80

409	Zemunski kej	DQ5403065502	75
410	Zemun - Tvornička	DQ5329764939	80
411	Zemun - Zmaj	DQ4989464529	90
412	Zemun - železnička stanica	DQ5047665015	93
413	Zlatibor - Kraljevske Vode	CP9543342451	950
414	Zlot	EP7896573265	270
415	Zobnatica	CR9358979076	99
416	Zrenjanin	DR5279125680	80
417	Žabalj	DR2850224816	81
418	Žirovnica	EP0112885257	150