

## NEW WEEVILS (COLEOPTERA: CURCULIONOIDEA) IN THE SPECIAL NATURE RESERVE ZASAVICA

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### Abstract

This paper presents a new contribution to knowledge of weevil fauna (Coleoptera, Curculionoidea) in Special Nature Reserve (SNR) Zasavica, based on the findings of adults collected in July 2007. There are 54 weevils species listed: 10 from family Apionidae, 3 Nanophyidae, 4 Erihniidae, 1 Dryophthoridae and 36 Curculionidae. Among them 45 species are new for weevil-fauna of SNR Zasavica. Particularly interesting are 15 new hygrophilous species: *Nanophyes brevis*, *N. globiformis*, *N. marmoratus*, *Notaris scirpi*, *Thryogenes scirrhosus*, *Stenopelmus rufinasus*, *Tanysphyrus (Tanysphyrus) lemnae*, *Bagous nodulosus*, *Limnobaris dolorosa*, *Thamiocolus viduatus*, *Pelenomus commari*, *P. quadricorniger*, *P. waltoni*, *Rhinoncusbruchoides* and *R. perpendicularis*. In this material there are five species registered for the first time for the territory of Serbia - *Stenopelmus rufinasus*, *Ceutorhynchus picitarsis*, *Pelenomus quadricorniger* (= *quadricornis*), *Rhinoncusbruchoides* (Hbst.) and *Hylobius (Callirus) transversovittatus* (Goeze). This data represents one more cube for the picture of Zasavica's ecological mosaic.

KEY WORDS: Fauna, weevils, Serbia, Special Nature Reserve (SNR) Zasavica.

### Introduction

The superfamily Curculionoidea has a cosmopolitan distribution and enormous ecological importance. The largest group within this superfamily is real weevils (Curculionidae), which is also the most numerous family in the animal kingdom on earth (LYAL & KING, 1996; ALONSO-ZARAZAGA & LYAL, 1999).

While in European countries this group of insects is pretty well covered, in Serbia it was faunistically studied only partially (PEŠIĆ, 2006a). Perhaps because it is very difficult to collect these beetles (CALDARA & O'BRIEN, 1995), there is in particular very little data about wetlands and aquatic weevils fauna in Serbia (PEŠIĆ, 2000, 2002, 2004, 2006b, 2007; PEŠIĆ & STANKOVIĆ, 2007).

In the area of SNR "Zasavica", thanks to the collecting efforts of Mihajlo STANKOVIĆ (PEŠIĆ & STANKOVIĆ, 2007) the first weevil faunistic research since 1996 has started, The present study is a new contribution to the knowledge of weevil-fauna in this part of Mačva (Vojvodina, Serbia). These, together with the much wider and systematically collected future data on fauna and Zasavica's habitats, will enable a serious ecological analysis of this wetland terrain, based on weevils as bioindicators.

In 1997 Zasavica's area, i.e. 33.1 km along the meandering alluvial terrain between the Drina and Sava Rivers, north in the northern part of Mačva plain, 6 km west of Sremska Mitrovica (44°56'N and 19°32'E), attained the status of Special Nature Reserve primarily due to its aquatic as well as wet, swampy habitats from (floodable meadows and forests). In total, 1812 ha is protected, 671 ha of which is under strict protection (LAZIĆ, 2008). This internationally important habitat for plants, birds and butterflies was declared a Wetland of International Importance (Ramsar site) in 2008 ([http://www.ramsar.org/cda/en/ramsar-news-archives-2008-zasavica-river-ecosystem/main/ramsar/1-26-45-85%5E17462\\_4000\\_0\\_](http://www.ramsar.org/cda/en/ramsar-news-archives-2008-zasavica-river-ecosystem/main/ramsar/1-26-45-85%5E17462_4000_0_)). Zasavica's water refreshes underground from the Drina and Sava Rivers. It is unclear whether it should be classified as static or flowing water (STANKOVIĆ, 2006).

## Material and Methods

Adult weevils analysed here were collected by the author during a short collecting trip, conducted from the 3rd to the 5th of July 2007 at three localities: Valjevac, Turske livade and Trebljevine (Fig. 1).

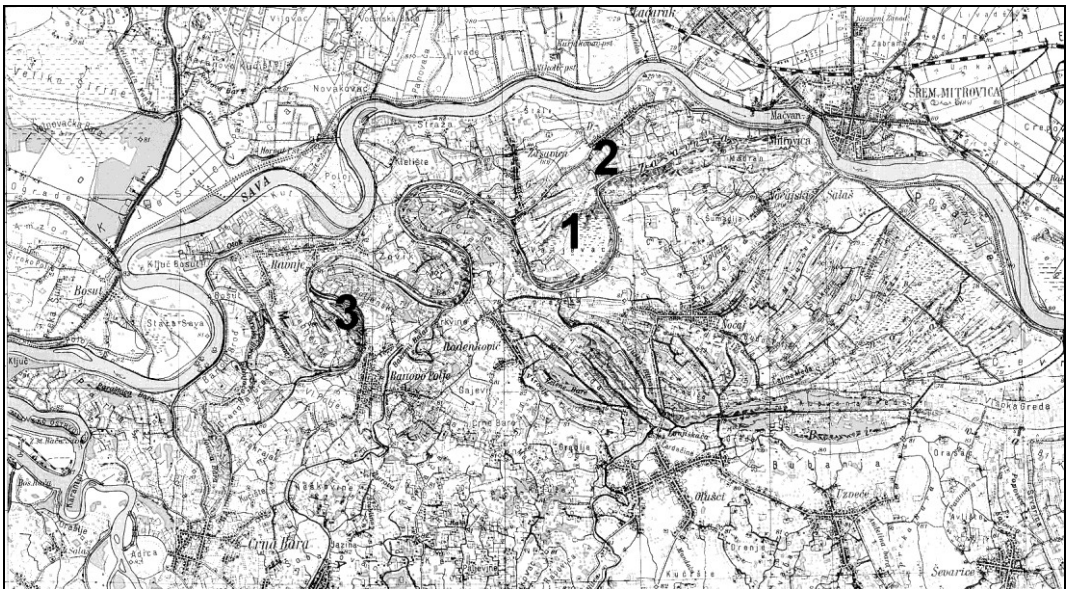


Figure 1. Position of researched localities: 1- Valjevac, 2 – Turske livade, 3 – Trebljevine.

Different collecting techniques were used – sweeping of herbaceous plants, beating of bushes and lower tree branches, manual collecting, litter and soil sifting, Malaise trap etc. Insects were killed by ethanol or ethyl acetate. For each specimen the sex was determined. Male genitalia and seria of keys (ALONSO-

ZARAZAGA, 1990; ANGELOV, 1976, 1978, 1979, 1980, 1981; CALDARA, 1990; EHRET, 1990; FREUDE *et al.*, 1981, 1983; SMRECZYŃSKI, 1965; TEMPÈRE *et al.*, 1989) were used for species identification. All material is deposited in the weevils collection at the Faculty of Science in Kragujevac.

## Results and Discussion

A total of 269 specimens were collected (129 males and 140 females). Fifty-four species were identified and classified into families: Apionidae (10 species), Nanophyidae (3 species), Eirrhiniidae (4), Dryophthoridae (1) and Curculionidae (36) (Tab. I).

Table I. Faunistical data on weevils of Zasavica SNR, collected on July 3-5th, 2007 (\* - species new for Serbian fauna).

Taxa	Records			Number of collected individuals		
	Date, Locality	Loc. description	Plant	♂	♀	Σ
Fam. <i>Apionidae</i> Schönherr, 1823						
Subfam. <i>Apioninae</i> Schoenherr, 1823						
Trib. <i>Apionini</i> Schoenherr, 1823						
Gen. <i>Apion</i> Herbst, 1797						
1 <i>A. frumentarium</i> (Linnaeus, 1758) (= <i>miniaturum</i> Germar, 1833)	03.07.2007, Vajjevac	pasture	<i>Rumex</i> sp.	2	2	4
	04.07.2007, Vajjevac	edge of the reserve	<i>Crataegus</i> sp., <i>Comus</i> sp.	1	1	
Trib. <i>Ceratapiini</i> Alonso-Zarazaga, 1990						
Gen. <i>Ceratapion</i> Schilsky, 1901 ( <i>Ceratapion</i> Schilsky, 1901)						
2 <i>C. carduorum</i> (W. Kirby, 1808)	04.07.2007, Vajjevac	pasture	<i>Cirsium</i> sp., <i>Urtica</i> sp.	1	1	
Gen. <i>Diplapion</i> Reitter, 1916						
3 <i>D. detritum</i> (Mulsant & Rey, 1858)	03.07.2007, Vajjevac	pasture	<i>Matricaria inodora</i>	1	1	
Trib. <i>Kalcapiini</i> Alonso-Zarazaga, 1990						
Gen. <i>Taeniapion</i> Schilsky, 1906						
4 <i>T. urticarium</i> (Herbst, 1784)	04.07.2007, Vajjevac	pasture	<i>Cirsium</i> sp., <i>Urtica</i> sp.	2	2	
	05.07.2007, Trebjišvine, Ljubinkovića čuprija	beside forest road	<i>Urtica dioica</i>	1	3	4
Trib. <i>Malvapiini</i> Alonso-Zarazaga, 1990						
Gen. <i>Pseudapion</i> Schilsky, 1906						
5 <i>P. fulvirostre</i> (Gyllenhal, 1833)	03.07.2007, Vajjevac	pasture	<i>Althaea officinalis</i>	1		1
	03.07.2007, Vajjevac	pasture	<i>Matricaria inodora</i>	1		1
Trib. <i>Oxystomatini</i> Alonso-Zarazaga, 1990						
Subtrib. <i>Oxystomatina</i> Alonso-Zarazaga, 1990						
Gen. <i>Cyanapion</i> Bokor, 1923 ( <i>Cyanapion</i> Bokor, 1923)						
6 <i>C. columbinum</i> (Germar, 1817)	05.07.2007, Trebjišvine		<i>Hypericum acutum</i>	1		1

Taxa (Table I - continued)	Records			Number of collected individuals		
	Date, Locality	Loc. description	Plant	♂	♀	Σ
Gen. <i>Holotrichapion</i> Gyorffy, 1956 ( <i>Apiops</i> Alonso-Zarazaga, 1990)						
7 <i>H. pisi</i> (Fabricius, 1801)	05.07.2007, Trebljevine	flood zone	<i>Polygonum</i> sp.	7	4	11
	05.07.2007, Trebljevine		<i>Hypericum acutum</i>	2	1	3
Subtrib. <i>Catapiina</i> Alonso-Zarazaga, 1990						
Gen. <i>Catapion</i> Schilsky, 1906						
8 <i>C. jaffense</i> (Desbrochers, 1896) (= <i>ononiphagum</i> Schatzmayr, 1920)	03.07.2007, Valjevac	pasture	<i>Ononis spinosa</i>	1	1	
	03.07.2007, Valjevac	pasture	<i>Matricaria inodora</i>	1	1	
Trib. <i>Piezotrachelini</i> Voss, 1959						
Gen. <i>Protapion</i> Schilsky, 1908						
9 <i>P. nigrirtarse</i> (W. Kirby, 1808)	05.07.2007, Trebljevine	flood zone		1	1	
10 <i>P. ononidis</i> (Gyllenhal, 1827) (= <i>ononicola</i> Bach, 1854)	03.07.2007, Valjevac	pasture	<i>Althaea officinalis</i>	1	1	
	03.07.2007, Valjevac	pasture	<i>Ononis spinosa</i>	7	5	12
	03.07.2007, Valjevac	pasture	<i>Matricaria inodora</i>	1	1	
	04.07.2007, Valjevac	edge of the reserve	<i>Crataegus</i> sp., <i>Cornus</i> sp.	2	1	3
	04.07.2007, Valjevac	pasture	<i>Cirsium</i> sp., <i>Urtica</i> sp.	1	1	
Fam. <i>Nanophyiidae</i> Gistel, 1856						
Trib. <i>Nanophyini</i> Gistel, 1856						
Gen. <i>Nanophyes</i> Schoenherr, 1838						
11 <i>N. brevis</i> Boheman, 1845	03.07.2007, Valjevac	cane		1	1	
	04.07.2007, Turske Livade	beside water	<i>Hottonia palustris</i>	1	1	
	05.07.2007, Trebljevine	flood zone	<i>Lithrum salicaria</i>	1	1	
?12 <i>N. globiformis</i> Kiesenwetter, 1864	14.06. – 04.07.2007, Turske Livade			1	1	
13 <i>N. marmoratus</i> (Goeze, 1777)	03.07.2007, Valjevac	pasture	<i>Rumex</i> sp.	1	1	2
	03.07.2007, Valjevac	cane		1	2	3
	04.07.2007, Turske Livade	beside water	<i>Hottonia palustris</i>	6	5	11
	05.07.2007, Trebljevine	flooded forest ash, elm, maple		1	2	3
	05.07.2007, Trebljevine	flood zone		2	2	
	05.07.2007, Trebljevine, Ljubinkovića čuprija	beside forest road	<i>Lithrum salicaria</i>	5	5	10
	05.07.2007, Trebljevine	flood zone	<i>Lithrum salicaria</i>	1	3	4
	05.07.2007, Trebljevine		<i>Hypericum acutum</i>	1	1	
Fam. <i>Erihiniidae</i> Schoenherr, 1825						
Subfam. <i>Erihiniinae</i> Schoenherr, 1825						
Trib. <i>Erihiniini</i> Schoenherr, 1825						
Gen. <i>Notaris</i> Germar, 1817						
14 <i>N. scirpi</i> (Fabricius, 1793)	03.07.2007, Valjevac	cane		1	1	

Taxa (Table I - continued)	Records			Number of collected individuals		
	Date, Locality	Loc. description	Plant	♂	♀	Σ
Gen. <i>Thryogenes</i> Bedel, 1884						
15 <i>T. scirrhosus</i> (Gyllenhal, 1836)	05.07.2007, Trebljevine	flood zone	<i>Scirpus lacustris</i>	1		1
Trib. <i>Stenopelmini</i> LeConte, 1876						
Gen. <i>Stenopelmus</i> Schoenherr, 1835						
*16 <i>S. rufinasus</i> Gyllenhal, 1835	05.07.2007, Trebljevine	water	<i>Lemna</i> sp.	2	1	3
	05.07.2007, Banovo polje, Ljubinkvića čuprija	beside water		3	2	5
Trib. <i>Tanysphyrini</i> Gistel, 1856						
Gen. <i>Tanysphyrus</i> Germar, 1817 ( <i>Tanysphyrus</i> Germar, 1817)						
17 <i>T. lemnae</i> (Fabricius, 1792)	03.07.2007, Valjevac	pasture	<i>Verbascum nigrum</i>	3		3
	03.07.2007, Valjevac	pasture	<i>Ononis spinosa</i>		1	1
	04.07.2007, Turske Livade	beside water	<i>Hottonia palustris</i>		1	1
	05.07.2007, Trebljevine	water	<i>Lemna</i> sp.	18	22	40
	05.07.2007, Trebljevine, Rašovića čuprija	water	<i>Lemna minor</i> , <i>L. trisulca</i>	2	2	4
Fam. <i>Dryophthoridae</i> Schoenherr, 1825						
Subfam. <i>Dryophthorinae</i> Schoenherr, 1825						
Gen. <i>Dryophthorus</i> Germar, 1824						
*18 <i>D. corticalis</i> (Paykull, 1792)	14.06. – 04.07.2007, Turske Livade			1		1
Fam. <i>Curculionidae</i> Latreille, 1802						
Subfam. <i>Curculioninae</i> Latreille, 1802						
Trib. <i>Curculionini</i> Latreille, 1802						
Gen. <i>Archarius</i> Gistel, 1856 ( <i>Archarius</i> Gistel, 1856)						
19 <i>A. salicivorus</i> (Paykull, 1792)	04.07.2007, Turske Livade	beside water	<i>Hottonia palustris</i>	1		1
	04.07.2007, Valjevac	beside water and cane		1		1
Trib. <i>Anthonomini</i> C.G. Thomson, 1859						
Gen. <i>Anthonomus</i> Germar, 1817 ( <i>Anthonomus</i> Germar, 1817)						
20 <i>A. rubi</i> Herbst, 1795	05.07.2007, Trebljevine		<i>Rubus</i> sp.	2		2
Trib. <i>Cionini</i> Schoenherr, 1825						
Gen. <i>Stereonychus</i> Suffrian, 1854						
21 <i>S. fraxini</i> (De Geer, 1775)	04.07.2007, Valjevac	forest soil of willow, poplar, ash		2	12	14
	05.07.2007, Trebljevine	forest ash, maple, willow			1	1
	05.07.2007, Trebljevine	soil of flooded forest ash, willow, walnut		2		2
Trib. <i>Ellescini</i> C.G. Thomson, 1859						
Subtrib. <i>Dorytomina</i> Germar, 1817						
Gen. <i>Dorytomus</i> Germar, 1817 ( <i>Euolamus</i> Reitter, 1916)						
22 <i>D. minutus</i> (Gyllenhal, 1836)	04.07.2007, Valjevac	forest soil of willow, poplar, ash		1		1

Taxa (Table I - continued)	Records			Number of collected individuals		
	Date, Locality	Loc. description	Plant	♂	♀	Σ
Trib. <i>Mecynini</i> Gistel, 1856						
Gen. <i>Gymnetron</i> Schoenherr, 1825						
23 <i>G. erinaceum</i> (Bedel, 1885)	03.07.2007, Vajjevac	pasture	<i>Verbascum nigrum</i>	1	1	2
24 <i>G. villosulum</i> Gyllenhal, 1838	03.07.2007, Vajjevac	pasture	<i>Verbascum nigrum</i>		1	1
	03.07.2007, Vajjevac	pasture	<i>Ononis spinosa</i>	1		1
Gen. <i>Rhinusa</i> Stephens, 1829						
25 <i>R. tetra</i> (Fabricius, 1792)	03.07.2007, Vajjevac	pasture	<i>Verbascum nigrum</i>	1	2	3
Trib. <i>Rhamphini</i> Rafinesque, 1815						
Subtrib. <i>Rhamphina</i> Rafinesque, 1815						
Gen. <i>Isochnus</i> C.G. Thomson, 1859						
26 <i>I. sequensi</i> (Stierlin, 1894) (= <i>populicola</i> Silferberg, 1977)	14.06. – 04.07.2007, Turske Livade			4	2	6
Gen. <i>Orchestes</i> Illiger, 1798 ( <i>Orchestes</i> Illiger, 1798)						
27 <i>O. avellanae</i> (Donovan, 1797)	04.07.2007, Turske Livade	beside water	<i>Hottonia palustris</i>		1	1
Gen. <i>Tachyerges</i> Schoenherr, 1825						
28 <i>T. salicis</i> (Linnaeus, 1758)	05.07.2007, Trebljevine	flood zone	<i>Polygonum</i> sp.		1	1
Subfam. <i>Bagoinae</i> C.G. Thomson, 1859						
Trib. <i>Bagoini</i> C.G. Thomson, 1859						
Gen. <i>Bagous</i> Germar, 1817						
<i>B. nodulosus</i> Gyllenhal, 1836	04.07.2007, Turske Livade	beside water	<i>Hottonia palustris</i>	2	1	3
*29 <i>B. puncticollis</i> Boheman, 1845	03.07.2007, Vajjevac	cane		2	1	3
	05.07.2007, Trebljevine	water	<i>Lemna</i> sp.		1	1
Subfam. <i>Baridinae</i> Schönherr, 1836						
Trib. <i>Madopterini</i> Lacordaire, 1866						
Subtrib. <i>Zygobaridina</i> Pierce, 1907						
Gen. <i>Limnobaris</i> Bedel, 1885						
30 <i>L. dolorosa</i> (Goeze, 1777)	05.07.2007, Trebljevine	water	<i>Carex</i> sp.	2	2	4
	05.07.2007, Trebljevine	flood zone			1	1
Subfam. <i>Ceutorhynchinae</i> Gistel, 1856						
Trib. <i>Ceutorhynchini</i> Gistel, 1856						
Gen. <i>Ceutorhynchus</i> Germar, 1824						
31 <i>C. erysimi</i> (Fabricius, 1787)	05.07.2007, Turske Livade	soil of forest of oak, ash, elm			1	1
*32 <i>C. picitarsis</i> Gyllenhal, 1837	04.07.2007, Vajjevac	forest soil of willow, poplar, ash			1	1
	05.07.2007, Trebljevine	soil of flooded forest ash, willow, walnut			1	2
					2	3
33 <i>C. typhae</i> (Herbst, 1795) (= <i>floralis</i> Paykull, 1792)	04.07.2007, Vajjevac	forest soil of willow, poplar, ash			2	2
	04.07.2007, Turske Livade	soil of forest of oak, ash, elm			1	1

Taxa (Table I - continued)	Records			Number of collected individuals		
	Date, Locality	Loc. description	Plant	♂	♀	Σ
Gen. <i>Datonychus</i> Wagner, 1944						
34 <i>D. arquata</i> (Herbst, 1795)	05.07.2007, Trebljevine	flood zone	<i>Polygonum</i> sp.	1	1	2
Gen. <i>Nedyus</i> Schoenherr, 1825						
35 <i>N. quadrimaculatus</i> (Linnaeus, 1758)	05.07.2007, Trebljevine	poftlood zone	<i>Urtica dioica</i>	1		1
	05.07.2007, Trebljevine, Ljubinkovića čuprija	beside forest road	<i>Urtica dioica</i>	2	1	3
Gen. <i>Thamiocolus</i> C.G. Thomson, 1859						
36 <i>T. viduatus</i> (Gyllenhal, 1813)	03.07.2007, Vajjevac	pasture	<i>Rumex</i> sp.	1		1
Trib. <i>Phytobiini</i> Gistel, 1856						
Gen. <i>Pelenomus</i> C.G. Thomson, 1859						
37 <i>P. canaliculatus</i> (Fähræus, 1843)	04.07.2007, Turske Livade	beside water	<i>Hottonia palustris</i>	1		1
	14.06. – 04.07.2007, Turske Livade			1		1
38 <i>P. comari</i> (Panzer, 1794) (=comari Herbst, 1795)	05.07.2007, Trebljevine	flooded forest ash, elm, maple		1		1
	05.07.2007, Trebljevine	flood zone	<i>Polygonum</i> sp.			
*39 <i>P. quadricorniger</i> (Colonnelli, 1986) (=quadricornis Gyllenhal, 1813)	04.07.2007, Turske Livade	beside water	<i>Hottonia palustris</i>	1		1
	05.07.2007, Trebljevine	flood zone	<i>Polygonum</i> sp.	1		1
40 <i>P. waltoni</i> (Boheman, 1843)	05.07.2007, Trebljevine	forest ash, maple, willow		1		1
	05.07.2007, Trebljevine	flood zone	<i>Polygonum</i> sp.	2		2
Gen. <i>Rhinoncus</i> Schoenherr, 1825						
*41 <i>R. bruchoides</i> (Herbst, 1784)	03.07.2007, Vajjevac	pasture	<i>Ononis spinosa</i>	4	2	6
	04.07.2007, Vajjevac	beside water	<i>Polygonum</i> sp.	6	4	10
42 <i>R. perpendicularis</i> (Reich, 1797)	04.07.2007, Vajjevac	beside water	<i>Polygonum</i> sp.	3		3
	04.07.2007, Vajjevac	beside water and cane		1		1
Subfam. <i>Entiminae</i> Schönherr, 1826						
Trib. <i>Sitonini</i> Gistel, 1856						
Gen. <i>Sitona</i> Germar, 1817 ( <i>Sitona</i> Germar, 1817)						
43 <i>S. hispidulus</i> (Fabricius, 1776)	05.07.2007, Trebljevine		<i>Hypericum acutum</i>	1		1
44 <i>S. humeralis</i> Stephens, 1831	03.07.2007, Vajjevac	pasture	<i>Ononis spinosa</i>	1		1
	04.07.2007, Turske Livade	beside water	<i>Hottonia palustris</i>	1		1
	05.07.2007, Trebljevine		<i>Hypericum acutum</i>	1		1
45 <i>S. lateralis</i> Gyllenhal, 1834 (=ononidis Sharp, 1866)	03.07.2007, Vajjevac	cane		1		1
46 <i>S. lineatus</i> (Linnaeus, 1758)	03.07.2007, Vajjevac	cane		1		1
	04.07.2007, Vajjevac	edge of the reserve	<i>Crataegus</i> sp., <i>Cornus</i> sp.	1		1
47 <i>S. tenuis</i> Rosenhauer, 1847	04.07.2007, Vajjevac	edge of the reserve	<i>Crataegus</i> sp., <i>Cornus</i> sp.	1		1

Taxa (Table I - continued)	Records			Number of collected individuals		
	Date, Locality	Loc. description	Plant	♂	♀	Σ
Subfam. <i>Hyperinae</i> Marseul, 1863						
Trib. <i>Hyperini</i> Marseul, 1863						
Gen. <i>Hypera</i> Germar, 1817 ( <i>Eirinomorphus</i> Capiomont, 1868)						
48 <i>H. rumericis</i> (Linnaeus, 1758)	03.07.2007, Vajjevac	cane		1	1	
Subfam. <i>Lixinae</i> Schönherr, 1823						
Trib. <i>Lixini</i> Schönherr, 1823						
Gen. <i>Larinus</i> Dejean, 1821 ( <i>Phyllonomeus</i> Gistel, 1856)						
49 <i>L. jaceae</i> (Fabricius, 1775)	04.07.2007, Vajjevac	pasture	<i>Cirsium</i> sp., <i>Urtica</i> sp.	2	1	3
50 <i>L. sturnus</i> (Schaller, 1783)	03.07.2007, Vajjevac	pasture	<i>Carduus</i> sp.	1		1
	04.07.2007, Vajjevac	pasture	<i>Carduus</i> sp.	4	2	6
Gen. <i>Lixus</i> Fabricius, 1801 ( <i>Compsolixus</i> Reitter, 1916)						
51 <i>L. ascanii</i> (Linnaeus, 1767) ( <i>Epimeces</i> Billberg, 1820)	03.07.2007, Vajjevac	cane			1	1
52 <i>L. filiformis</i> (Fabricius, 1781) (= <i>elongatus</i> Goeze, 1777) ( <i>Ortholixus</i> Reitter, 1916)	04.07.2007, Vajjevac	pasture	<i>Cirsium</i> sp., <i>Urtica</i> sp.	2	2	4
53 <i>L. tibialis</i> Boheman, 1842	04.07.2007, Turske Livade	beside water	<i>Hottonia palustris</i>	1		1
Trib. <i>Cleonini</i> Schönherr, 1826						
Gen. <i>Cleonis</i> Dejean, 1821 (= <i>Cleonus</i> Schoenherr, 1826)						
54 <i>C. pigra</i> (Scopoli, 1763)	04.07.2007, Vajjevac		<i>Carduus</i> sp.	1		1
TOTAL				129	140	269

Among the newly detected 45 (84.9%) species are registered for the first time from the territory of Zasavica. Shown by the families the list looks like this:

Apionidae - 6 species:

*Apion frumentarium* (Linnaeus, 1758), *Ceratapion* (*Ceratapion*) *carduorum* (W. Kirby, 1808), *Diplapion detritum* (Mulsant & Rey, 1858), *Pseudapion fulvirostre* (Gyllenhal, 1833), *Catapion jaffense* (Desbrochers, 1896), *Protapion nigratarse* (W. Kirby, 1808);

Nanophyidae - 3 species:

*Nanophyes brevis* Boheman, 1845, *N. globiformis* Kiesenwetter, 1864, *N. marmoratus* (Goeze, 1777);

Eirirhinidae - 4 species:

*Notaris scirpi* (Fabricius, 1793), *Thryogenes scirrhosus* (Gyllenhal, 1836), *Stenopelmus rufinasus* Gyllenhal, 1835, *Tanysphyrus* (*Tanysphyrus*) *lemnae* (Fabricius, 1792);



Dryophthoridae - 1 species

*Dryophthorus corticalis* (Paykull, 1792); and

Curculionidae - 31 species:

*Archarius* (*Archarius*) *salicivorus* (Paykull, 1792), *Anthonomus* (*Anthonomus*) *rubi* Herbst, 1795, *Dorytomus* (*Euolamus*) *minutus* (Gyllenhal, 1836), *Gymnetron* *erinaceum* (Bedel, 1885), *G. villosulum* Gyllenhal, 1838, *Rhinusa* *tetra* (Fabricius, 1792), *Isochnus* *sequensi* (Stierlin, 1894), *Orchestes* (*Orchestes*) *avellanae* (Donovan, 1797), *Tachyerges* *salicis* (Linnaeus, 1758), *Bagous* *nodulosus* Gyllenhal, 1836, *Limnobaris* *dolorosa* (Goeze, 1777), *Ceutorhynchus* *erysimi* (Fabricius, 1787), *C. picitarsis* Gyllenhal, 1837, *C. typhae* (Herbst, 1795), *Datonychus* *arquata* (Herbst, 1795), *Nedys* *quadrifasciatus* (Linnaeus, 1758), *Thamiocolus* *viduatus* (Gyllenhal, 1813), *Pelenomus* *commari* (Panzer, 1794), *P. quadricorniger* (Colonnelli, 1986), *P. waltoni* (Boheman, 1843), *Rhinoncus* *bruchoides* (Herbst, 1784), *R. perpendicularis* (Reich, 1797), *Sitona* *hispidulus* (Fabricius, 1776), *S. lateralis* Gyllenhal, 1834, *S. lineatus* (Linnaeus, 1758), *S. tenuis* Rosenhauer, 1847, *Tanymecus* (*Tanymecus*) *palliatum* (Fabricius, 1787), *Hypera* (*Eirynomorphus*) *rumicis* (Linnaeus, 1758), *Lixus* (*Compsolixus*) *ascanii* (Linnaeus, 1767), *L. (Ortholixus) tibialis* Boheman, 1842 and *Larinus* (*Phyllonomeus*) *jaceae* (Fabricius, 1775).

Among the newly registered species, a special place belongs to those now recorded for the first time in Serbia. According to the European database (ALONSO-ZARAZAGA, 2005) there are seven such species: *Stenopelmus rufinasus* Gyll., *Dryophthorus corticalis* (Payk.), *Bagous puncticollis* Boh., *Ceutorhynchus picitarsis* Gyll., *Pelenomus quadricorniger* (Colonn.) (= *quadricornis* Gyll.), *Rhinoncusbruchoides* (Hbst.) and *Hylobius* (*Callirus*) *transversovittatus* (Goeze). However, two of them, *Bagous puncticollis* and *Dryophthorus corticalis*, are already published as species present in the fauna of Zasavica, i.e. Serbia (PEŠIĆ, 2007, 2011).

Since the analysis in the previous work [101 individuals, collected sporadically in the period 1996-2006 by Mihajlo Stanković (PEŠIĆ & STANKOVIĆ, 2007)] ascertained 41 species, along with findings from 2007 the Zasavica weevils fauna list now includes 86 species.

These new findings in particular contribute to the recording of smaller species (previously neglected due to collecting techniques). A list of higr- and hydrophilous species is significantly supplemented also. There are 15 hygrophilous species not mentioned earlier for SNR Zasavica: *Nanophyes brevis*, *N. globiformis*, *N. marmoratus*, *Notaris scirpi*, *Thryogenes scirrhosus*, *Stenopelmus rufinasus*, *Tanysphyrus* (*Tanysphyrus*) *lemnae*, *Bagous nodulosus*, *Limnobaris dolorosa*, *Thamiocolus viduatus*, *Pelenomus commari*, *P. quadricorniger*, *P. waltoni*, *Rhinoncusbruchoides* and *R. perpendicularis*. Among them three species are new for Serbian weevils fauna (*Stenopelmus rufinasus*, *P. quadricorniger* and *Rhinoncusbruchoides*). Altogether the list of higr- and hydrophilous weevils in SNR Zasavica now contains 20 species.

But these results are still just a beginning of the study of SNR Zasavica weevil fauna. To gain a more complete picture much more systematic collecting is necessary, over many years, through all the seasonal aspects, at many different habitats. After that it will be possible to draw an ecological picture of Zasavica as fragile wetland terrain, based on weevils as bioindicators.

## Acknowledgement

Without the professional guidance of colleague Mihajlo STANKOVIĆ through the spaces of Zasavica this work would not be realized.

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## НОВИ СУРЛАШИ (COLEOPTERA, CURCULIONOIDEA) У СПЕЦИЈАЛНОМ РЕЗЕРВАТУ ПРИРОДЕ ЗАСАВИЦА

СНЕЖАНА ПЕШИЋ

### Извод

Овај рад приказује нове податке о фауни сурлаша (Coleoptera, Curculionoidea) у Специјалном резервату природе Засавица, базиране на налазима адулата из јула 2007. године. Укупно је прикупљено 269 јединки (129 мужјака и 140 женки). Идентификоване су 54 врсте, сврстане у пет фамилија: Apionidae (10 врста), Nanophyidae (три врсте), Eirrhiniidae (четири), Dryophthoridae (једна) и Curculionidae (36). Међу њима је чак 45 врста по први пут регистрованих за Засавицу. По фамилијама листа ових врста изгледа овако:

Apionidae (6 врста) – *Apion frumentarium* (Linnaeus, 1758), *Ceratapion* (*Ceratapion*) *carduorum* (W. Kirby, 1808), *Diplapion detritum* (Mulsant & Rey, 1858), *Pseudapion fulvirostre* (Gyllenhal, 1833), *Catapion jaffense* (Desbrochers, 1896), *Protapion nigratarse* (W. Kirby, 1808);

Nanophyidae (3 врсте) – *Nanophyes brevis* Boheman, 1845, *N. globiformis* Kiesenwetter, 1864, *N. marmoratus* (Goeze, 1777);

Eirrhinidae (4 врсте) – *Notaris scirpi* (Fabricius, 1793), *Thryogenes scirrhosus* (Gyllenhal, 1836), *Stenopelmus rufinasus* Gyllenhal, 1835, *Tanysphyrus (Tanysphyrus) lemnae* (Fabricius, 1792);

Dryophthoridae (1 врста) - *Dryophthorus corticalis* (Paykull, 1792);

Curculionidae (31 врста) – *Archarius (Archarius) salicivorus* (Paykull, 1792), *Anthonomus (Anthonomus) rubi* Herbst, 1795, *Dorytomus (Euolamus) minutus* (Gyllenhal, 1836), *Gymnetron erinaceum* (Bedel, 1885), *G. villosulum* Gyllenhal, 1838, *Rhinusa tetra* (Fabricius, 1792), *Isochnus sequensi* (Stierlin, 1894), *Orchestes (Orchestes) avellanae* (Donovan, 1797), *Tachyerges salicis* (Linnaeus, 1758), *Bagous nodulosus* Gyllenhal, 1836, *Limnobaris dolorosa* (Goeze, 1777), *Ceutorhynchus erysimi* (Fabricius, 1787), *C. picitarsis* Gyllenhal, 1837, *C. typhae* (Herbst, 1795), *Datonychus arquata* (Herbst, 1795), *Nedyus quadrimaculatus* (Linnaeus, 1758), *Thamiocolus viduatus* (Gyllenhal, 1813), *Pelenomus commari* (Panzer, 1794), *P. quadricorniger* (Colonnelli, 1986), *P. waltoni* (Boheman, 1843), *Rhinoncus bruchoides* (Herbst, 1784), *R. perpendicularis* (Reich, 1797), *Sitona hispidulus* (Fabricius, 1776), *S. lateralis* Gyllenhal, 1834, *S. lineatus* (Linnaeus, 1758), *S. tenuis* Rosenhauer, 1847, *Tanymecus (Tanymecus) palliatus* (Fabricius, 1787), *Hypera (Eirrinomorphus) rumicis* (Linnaeus, 1758), *Lixus (Compsolixus) ascanii* (Linnaeus, 1767), *L. (Ortholixus) tibialis* Boheman, 1842 и *Larinus (Phyllonomeus) jaceae* (Fabricius, 1775).

Фаунистички су посебно битне врсте које представљају новину и за фауну Србије, а таквих је по подацима европске базе података (Fauna Europaea) седам: *Stenopelmus rufinasus* Gyll., *Dryophthorus corticalis* (Payk.), *Bagous puncticollis* Boh., *Ceutorhynchus picitarsis* Gyll., *Pelenomus quadricorniger* (Colonnelli, 1986) (= *quadricornis* Gyllenhal, 1813), *Rhinoncus bruchoides* (Hbst.) и *Hyllobius (Callirus) transversovittatus* (Goeze). Ипак, две врсте, *Bagous puncticollis* и *Dryophthorus corticalis*, су већ објављене као присутне на Засавици и прилози фауни Србије (PEŠIĆ, 2007, 2011).

Будући да је у претходном евидентирању анализом 101 јединке (прикупљене у периоду 1996-2006. од стране Михајла Станковића) констатована 41 врста, заједно са налазима из 2007. фаунистичка листа сурлаша Засавице сада броји 86 врста. Новим прилогом посебно је допринето евидентирању по телесним димензијама ситнијих врста (које су раније због примењиваних техника сакупљања пренебрегаване) и знатно допуњена листа хигрофилих врста. Имајући у виду значај влажних и водених станишта Засавице и у регистрованој фауни сурлаша треба истаћи 15 новозабележених врста, које са пет претходно сакупљаних сада чине попис од 20 врста биолошки везаних са хигро- и хидрофилима врстама биљака домаћина.

Да би се слика о фауни сурлаша Засавице употпунила потребно је још систематичније прикупљање материјала, током више година, кроз сва годишња доба, разноврснијим техникама, на још више локација и станишта. Тада би на бази познавања ове групе као биоиндикатора могли да Засавицу боље еколошки валоризујемо у категорији осетљивих мочварних станишта.