

## WEEVILS (CURCULIONOIDEA) IN THE CENTER FOR SMALL GRAINS KRAGUJEVAC COLLECTION

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**ABSTRACT.** The data on the weevils in The Center for Small Grains Kragujevac collection, registered during the winter 2005 are presented in this work. Totally observed material contained 380 specimens, from 84 species, classified into 47 genera, 30 tribes, 15 subfamilies, from seven families (Anthribidae, Rhynchitidae, Attelabidae, Apionidae, Brachyceridae, Dryophthoridae and Curculionidae). List was made according to the newest literature sources of the weevils' taxonomy. The all available labels' data, as the number and sex of specimens are given.

### INTRODUCTION

The Center for Small Grains Kragujevac (CSGK) is 107 years old research institution. During the history, it changed name and place many times. Now, it works as a part of Serbian Agricultural Research Institute. This scientific center is well known by genetically selected new sorts of small grains, particularly wheat and tritikale.

Between other treasures the CSGK keeps collection of insects. Among other insects, the weevils have important place, as the phytophagous and important agricultural pests.

### MATERIAL AND METHODS

The entomological collection of the CSGK contains quite old the weevil materials. They were carefully cleaned, checked, identified and registered in entomological laboratory on Faculty of Science University of Kragujevac, during the winter 2005.

All label data are carefully (without any change) transcribed.

Numbers of specimens are given.

Sex was determined for each specimen, except 15 exemplars.

Material mostly is older than 50 years. The oldest are specimens collected in 1921.

Determination was made with help of many keys cited in reference list. List of taxa is prepared adequately to the world catalogue of families and genera of Curculionoidea (ALONSO-ZARAZAGA & LYAL, 1999) and the newest taxonomical data for the European weevils (<http://www.faunaeur.org/>).

### RESULTS AND DISCUSSION

Complete CSGK collection contains 382 weevils' specimens (Tab. 1). They belong into seven families: Anthribidae (three species, four specimens), Rhynchitidae (five species, 78

specimens), Attelabidae (one species, one specim.), Apionidae (34 specimens from 8 species), Brachyceridae (one species, one specim.), Dryophthoridae (22 specimens from four species) and Curculionidae (242 specimens from 62 species). Determined species are classified into 47 genera, 30 tribes and 15 subfamilies.

Unfortunately, 253 specimens (more than 66%) are not labeled. One label was not readable. Finding data exist for only 128 specimens.

Particularly important is the oldest material (45 specimens), collected before the Second world war.

The dominance of family Curculionidae is very clear (63.35% of totally number of specimens, and 73.81% of species). It is not surprising, because this family is dominant everywhere (with more than 60.000 described species it is probably the largest animal group in the world – BURRINI *et al.*, 1988; LYAL & KING, 1996). In CSGK collection, this family is represented with 7 subfamilies. Among them especially reach is subfam. Entiminae (112 specimens, from 27 species).

By the sex, 187 specimens are males, 180 females. We could not to determine sex for 15 specimens.

According to their biology, dominant are agricultural pests [*Rhynchites (Rhynchites) bacchus* (L.) – 39 specimens, *Tatyanaehynchites (Neocoenorrhinus) aequatus* (L.) – 23 specimens, *Byctiscus betulae* (L.) – 11, *Protapion trifolii* (L.) – 19, *Sitophilus granarius* (L.), *Anthonomus (Anthonomus) pomorum* (L.) – 24, *Phyllobius (Phyllobius) thalassinus* Gyll. – 11] and weeds-connected weevils' species [*Mononychus punctumalbum* (Hbst.) – 22, *Otiorrhynchus (Cryphiphorus) ligustici* (L.) – 20, , *Cleonis pigra* (Scop.) – 11]. Some species, like *Tanymecus (Tanymecus) palliatus* (F.) (13 specimens) and *T. (Episomecus) dilaticollis* Gyll. (11) are in both categories. (POIRAS, 1998).

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Table 1 - Weevils collection in CSG-Kragujevac

t a x a		labels data	spcm.
<b>Fam. ANTHRIBIDAE Billberg, 1820</b>			
Subfam. Anthribinae Billberg, 1820			
Trib. Platyrhinini Bedel, 1882			
Platyrhinus Clairville, 1798			
1.	<i>resinosus</i> (Scopoli, 1763) (=costirostris Clairville, 1798)	no label	1m
Subfam. Choraginae W. Kirby, 1819			
Araecerus Schoenherr, 1823			
2.	<i>coffae</i> (Fabricius, 1801)	no labels	2
Subfam. Urodontinae C. G. Thomson, 1859			
Bruchela Dejean, 1821			
3.	<i>suturalis</i> (Fabricius, 1792)	no label	1f
<b>Fam. RHYNCHITIDAE Gistel, 1856</b>			
Subfam. Rhynchitinae Gistel, 1856			
Trib. Rhynchitini Gistel, 1856			
Subtrib. Rhynchitina Gistel, 1856			
Haplorhynchites Voss, 1924			
(Teretiorhynchites) Voss, 1938			
4.	<i>caeruleus</i> (De Geer, 1775)	Košutnjak 06.V 1942. K.Vasić	1f
Neocoenorrhinus Voss, 1952			
5.	<i>pauxillus</i> (Germar, 1824)	Topčider 20.IV 1923. unreadable	1f
		no label	3f
Rhynchites Schneider, 1791			
(Rhynchites Schneider, 1791)			
6.	<i>bacchus</i> (Linnaeus, 1758)	no label	20m, 19f
Tatyanaehynchites Legalov, 2002			
(Neocoenorrhinus) Voss, 1952			
7.	<i>aequatus</i> (Linnaeus, 1767)	Topčider 08.V 1928.	1m
		Topčider 17.IV 1942. K.Vasić	1m
		no labels	10m, 11f
Trib. Byctiscini Voss, 1923			
Byctiscus Thomson, 1859			
8.	<i>betulae</i> (Linnaeus, 1758)	Košutnjak 06.V 1942. K.Vasić	1m
		Košutnjak 14.V 1942. A.Sigunov	1f
		Košutnjak 19.V 1942. A.Sigunov	1m, 1f
		no labels	3m, 4f
<b>Fam. ATTELABIDAE Billberg, 1820</b>			
Subfam. Apoderinae Jekel, 1860			
Trib. Apoderini Jekel, 1860			
Apodererus Olivier, 1807			
(Apodererus) Olivier, 1807			
9.	<i>coryli</i> (Linnaeus, 1758)	no label	1
<b>Fam. APIONIDAE Schoenherr, 1823</b>			
Subfam. Apioninae Schoenherr, 1823			
Trib. Ceratapiini Alonso-Zarazaga, 1990			
Ceratapion Schilsky, 1901			
(Acanephodus) Alonso-Zarazaga, 1990			
10.	<i>onopordi</i> (W. Kirby, 1808)	Košutnjak 06.V 1942. K.Vasić	1m

Table 1 - Continuation 1

	Trib. <i>Malvapiini</i> Alonso-Zarazaga, 1990		
	Rhopalapion Schilsky, 1906		
11.	<i>longirostre</i> (Olivier, 1807)	no labels	2m
	Trib. <i>Oxystomatini</i> Alonso-Zarazaga, 1990		
	Subtrib. Oxystomatina Alonso-Zarazaga, 1990		
	Oxystoma Duméril, 1805		
12.	<i>craccae</i> (Linnaeus, 1767)	Košutnjak 06.V 1942. K.Vasić	1m
13.	<i>ochropus</i> (Germar, 1818)	Košutnjak 06.V 1942. K.Vasić	1m, 1f
		no label	1f
14.	<i>pomona</i> (Fabricius, 1798)	Topčider 17.IV 1942. K.Vasić	1m
		Topčider 20.IV 1942. A.Sigunov	1m
		no labels	2m, 1f
	Subtrib. Synapina Alonso-Zarazaga, 1990		
	Ischnopterapion Bokor, 1923		
	(Chlorapion) Gyoeffroy, 1956		
15.	<i>virens</i> (Herbst, 1797)	Košutnjak 06.V 1942. K.Vasić	1m
	Trib. <i>Piezotrachelini</i> Voss, 1959		
	Protapion Schilsky, 1908		
16.	<i>trifolii</i> (Linnaeus, 1768)	no labels	10m, 9f
17.	<i>varipes</i> (Germar, 1817)	no labels	2f
	Fam. <b>BRACHYCERIDAE</b> Billberg, 1820		
	Subfam. <b>Brachycerinae</b> Billberg, 1820		
	Trib. <i>Brachycerini</i> Billberg, 1820		
	Brachycerus Olivier, 1790		
18.	??? <i>foveicollis</i> Gyllenhal, 1833	Košutnjak 10.IV 1942. A.Sigunov	1f
	Fam. <b>DRYOPHTHORIDAE</b> Schoenherr, 1825		
	Subfam. <b>Rhynchophorinae</b> Schoenherr, 1833		
	Trib. <i>Litosomini</i> Lacordaire, 1866		
	Sitophilus Schoenherr, 1838		
19.	<i>granarius</i> (Linnaeus, 1758)	V. Orašje, 1924	2m, 7f
		no labels	3m, 5f
20.	<i>oryzae</i> (Linnaeus, 1758)	no labels	1f
	Trib. <i>Sphenophorini</i> Lacordaire, 1866		
	Sphenophorus Schoenherr, 1838		
21.	<i>abbreviatus</i> Fabricius, 1787	Golubaz, VI 1924.	1f
22.	<i>parumpunctatus</i> (Gyllenhal, 1837)	no labels	2m, 1f
	Fam. <b>CURCULIONIDAE</b> Latreille, 1802		
	Subfam. <b>Curculioninae</b> Latreille, 1802		
	Trib. <i>Anthonomini</i> C. G. Thomson, 1859		
	Anthonomus Germar, 1817		
	(Anthonomus) Germar, 1817		
23.	<i>pomorum</i> (Linnaeus, 1758)	Topč. 10.V 1924.	1m, 1f
		Krag. 29.V 1954. D.P.	1f
		no labels	8m, 13f
	Trib. <i>Cionini</i> Schoenherr, 1825		
	Cionus Clairville, 1798		
24.	<i>hortulanus</i> (Geoffroy, 1785)	Lipovica 22.VI 1939.	2m, 1f

Table 1 - Continuation 2

	Trib. <i>Ellescini</i> C.G. Thomson, 1859		
	Subtrib. <i>Dorytomina</i> Bedel, 1886		
	<i>Dorytomus</i> Germar, 1817		
	(Dorytomus) Germar, 1817		
25.	<i>longimanus</i> (Forster, 1771)	Košutnjak 14.V 1942. A.Sigunov	1m
	Trib. <i>Mecini</i> Gistel, 1856		
	<i>Rhinusa</i> Stephens, 1829		
26.	<i>antirrhini</i> (Paykull, 1800)	no label	1f
27.	<i>tetra</i> (Fabricius, 1792)	Topč. 1.V 1922.	1m
		05.VI 1923. unreadable	3m, 1f
		10.VI 1923. unreadable	1m
		Topč. 12.V 1922.	1m
	Trib. <i>Rhamphini</i> Rafinesque, 1815		
	Subtrib. <i>Rhamphina</i> Rafinesque, 1815		
	<i>Orchestes</i> Illiger, 1798		
	(Orchestes) Illiger, 1798		
28.	<i>pilosus</i> (Fabricius, 1781)	Topčider 19.IV 1923. na dubov	1f
	Trib. <i>Tychiini</i> C.G. Thomson, 1859		
	Subtrib. <i>Tychiina</i> C.G. Thomson, 1859		
	<i>Tychius</i> Germar, 1817		
	(Tychius) Germar, 1817		
29.	<i>junceus</i> (Reich, 1797)	no label	1m
30.	<i>quinquepunctatus</i> (Linnaeus, 1758)	no label	4m, 1f
	<i>Sibinia</i> Germar, 1817		
	(Sibinia) Germar, 1817		
31.	<i>pellucens</i> (Scopoli, 1772)	no labels	1m, 2f
32.	<i>viscariae</i> (Linnaeus, 1761)	no label	1m
	Subfam. <b>Baridinae</b> Schoenherr, 1836		
	Trib. <i>Baridini</i> Schoenherr, 1836		
	Subtrib. <i>Baridina</i> Schoenherr, 1836		
	<i>Aulacobaris</i> Desbrochers, 1892		
33.	<i>lepidii</i> (Germar, 1824)	no label	1m
	Subfam. <b>Ceutorhynchinae</b> Gistel, 1856		
	Trib. <i>Ceutorhynchini</i> Gistel, 1856		
	<i>Ceutorhynchus</i> Germar, 1824		
34.	<i>assimilis</i> (Paykull, 1792)	Košutnjak 22.IV 1942.A.Sigunov	1f
		Košutnjak 28.IV 1942.A.Sigunov	1f
35.	<i>erysimi</i> (Fabricius, 1787)	no label	2m
	<i>Nedyus</i> Schoenherr, 1825		
36.	<i>quadrimaculatus</i> (Linnaeus, 1758)	Košutnjak 06.V 1942. K.Vasić	2m
	(=didymus Fabricius, 1781)	Košutnjak 14.V 1942. A.Sigunov	1f
		Košutnjak 19.V 1942. A.Sigunov	1m, 1f
	Trib. <i>Mononychini</i> LeConte, 1876		
	<i>Mononychus</i> Germar, 1824		
37.	<i>punctumalbum</i> (Herbst, 1784)	no label	22m
	Subfam. <b>Cossoninae</b> Schoenherr, 1825		
	Trib. <i>Onycholipini</i> Wollaston, 1873		
	<i>Hexarthrum</i> Wollaston, 1860		
38.	<i>exiguum</i> (Boheman, 1838)	5.VI 23., poce	1f
		no label	2f

Table 1 - Continuation 3

	Subfam. <b>Entiminae</b> Schoenherr, 1823		
	Trib. <b>Oti or h yn ch i n i</b> Schoenherr, 1826		
	Oti or h yn ch us Germar, 1822		
	(Oti or h yn ch us) Germar, 1817		
39.	<i>bisulcatus</i> (Fabricius, 1781)	no label	1f
	(Amosilnus) Reitter, 1912 (=Mitarodes Reitter, 1912)		
40.	<i>lavandus</i> Germar, 1824	Topčider 18.V 1922.	1f
		no label	1f
	(Cryphiphorus) Stierlin, 1883		
41.	<i>ligustici</i> (Linnaeus, 1758)	Kovin 26.IV 1930.	4m, 2f
		27.V 1953. D.H.	1m
		no labels	8m, 5f
	(Paracryphiphorus) Magnano, 1988		
42.	<i>orbicularis</i> (Herbst, 1795)	Krag. 9.V 1953. P.V.	1f
	(Satnalistus) Reitter, 1912		
43.	<i>stenorostris</i> Apfelbeck, 1898	Košutnjak 06.V 1942. A.Sigunov	1f
		Košutnjak 14.V 1942. A.Sigunov	1m
		Košutnjak 19.V 1942. A.Sigunov	1f
	Trib. <b>Ph y l o b i i n i</b> Schoenherr, 1826		
	Phyllobius Germar, 1824		
	(Phyllobius) Germar, 1824 (=Ustavenus Reitter, 1916)		
44.	<i>betulinus betulinus</i> Bechstein & Scharfenberg, 1805 (=betulae Fabricius, 1801)	no label	1m
45.	<i>seladonius</i> Brulle, 1832	???? 16.V 1953. P.V.	1f
	(Phyllobius) Germar, 1824 (=Subphyllobius Schilsky, 1911)		
46.	<i>thalassinus</i> Gyllenhal, 1834 (=scutellaris Redtenbacher, 1849 a. <i>mutabilis</i> Desbrochers)	no labels	5m, 6f
	(Nemoicus) Dillwyn, 1829		
47.	<i>oblongus</i> (Linnaeus, 1758)	Topčider 17.IV 1942. K.Vasić	1f
		Košutnjak 06.V 1942. K.Vasić	1m, 1f
		Košutnjak 14.V 1942. K.Vasić	1f
		no labels	1m, 4f
	Pseudomylocerus Desbrochers, 1872		
	(Neohenschia) Korotyaev, 1992		
48.	<i>periteloides</i> (Fuss, 1861)	no label	1m, 1f
	Trib. <b>P o l y d r u s i n i</b> Schoenherr, 1823		
	Metadrosus Schilsky, 1910		
49.	<i>schwiegeri</i> (reitter, 1908)	Topčider 17.IV 1923.	1f
	Polydrosus Germar, 1817		
	(Polydrosus) Germar, 1817		
50.	<i>picus</i> (Fabricius, 1792)	Košutnjak 2.V 1922. na ??????	1m
		Topč. 23.V 1922.	1f
		Košutnjak 19.V 1942. A.Sigunov	1f
	(Chrysoyphis) Gozis, 1882 (=Neodrosus Apfelbeck, 1922)		
51.	<i>thalassinus</i> Gyllenhal, 1834	no label	1m, 1f
	(Eustolus) C. G. Thomson, 1859 (=Tylododrusus Stierlin, 1884)		
52.	<i>pterygomalis</i> Boheman, 1840	Košut. 05.V 1922.	1f
		Košutnjak 6.V 1942. K.Vasić	3m
		Košutnjak 19.V 1942. A.Sigunov	1m
	(Neoeustolus) Alonso-Zarazaga & Lyal, 1999		
53.	<i>cervinus</i> (Linnaeus, 1758)	Košutnjak 28.IV 1942. A.Sigunov	1f

Table 1 - Continuation 4

	Trib. <i>Psalidiini</i> Lacordaire, 1863		
	Psalidium Herbst, 1795		
	(Psalidium) Herbst, 1795		
54.	<i>maxillosum</i> (Fabricius, 1792)	Krag. 25.V 1953.	1f
		no label	2f
	Trib. <i>Sciaphilini</i> Sharp, 1891		
	Eusomus Germar, 1824		
	(Eusomus) Germar, 1824		
55.	<i>beckeri</i> Tournier, 1874	Topčider 14.V 1922.	1
56.	<i>ovulum</i> Germar, 1824	Košutnjak 06.V 1942.	1f
		no label	1f
	Sciaphobus K. Daniel, 1904		
	(Sciaphobus) K. Daniel, 1904		
57.	<i>caesius</i> (Hampe, 1870)	no label	2m
		unreadable	1f
	(Neosciaphobus) Apfelbeck, 1922		
58.	<i>squalidus</i> (Gyllenhal, 1834)	Košutnjak 06.V 1942. K.Vasić	2m, 2f
		Košutnjak 19.V 1942. A.Sigunov	1m, 1f
		Topčider 22.IV 1924.	1f
		Topčider 20.IV 1942. A.Sigunov	1f
		no label	1f
	Trib. <i>Sitonini</i> Gistel, 1856		
	Sitona Germar, 1817		
	(Sitona) Germar, 1817		
59.	<i>hispidulus</i> (Fabricius, 1776)	Kragujev. 15.III 1954.	1m
		no label	1m
60.	<i>humeralis</i> (Stephens, 1831)	no label	1f
61.	<i>lineatus</i> (Linnaeus, 1758)	Vučitrn 08.09.1946.	1m
		Kraguj. 15.III 1954.	1f
62.	<i>macularius</i> (Marsham, 1802) (= <i>crinitus</i> Herbst, 1795)	no label	1f
63.	<i>puncticollis</i> Stephens, 1831	no label	1f
	Trib. <i>Tanymecini</i> Lacordaire, 1863		
	Subtrib. <i>Tanymecina</i> Lacordaire, 1863		
	Tanymecus Germar, 1817		
	(Tanymecus) Germar, 1817		
64.	<i>palliatu</i> s (Fabricius, 1787)	Košutnjak 05.III 1942.	1f
		Lipovica 22.VI 1939.	2f
		Kragujevac 12.V 1952.	2f
		Kragujevac 16.V 1953. P.V.	1m, 1f
		Krag. 21.V 1953.	1m
		Kragujevac 14.III 1954.	1f
		Krag. 24.V 1954. D.H.	1f
		no label	1m
		no label	2f
	(Episomecus) Reitter, 1903		
65.	<i>dilatocollis</i> Gyllenhal, 1834	Bogatić maj 1947.	3
		Krag. 19.V 1954. D.H.	1
		Košutnjak 6.V 1942.	1
		Topčider 17.V 1942.	1
		no labels	5



Table 1 - Continuation 5

	Subfam. <b>Hyperinae</b> Lacordaire, 1863		
	Trib. <b>Hyperini</b> Marseul, 1863		
	Hypera Germar, 1817		
	(Hypera) Germar, 1817		
66.	<i>pandellei</i> (Capiomont, 1868)	Lipovica 22.VI 1939.	1f
67.	<i>postica</i> (Gyllenhal, 1813) (= <i>variabilis</i> Herbst, 1795)	Košutnjak 6.V 1942. K.Vasić	1f
		Kragujevac. 15.III 1954.	1m
	Neoglanis Alonso-Zarazaga & Lyal, 1999		
	(Neoglanis) Alonso-Zarazaga & Lyal, 1999		
68.	<i>intermedius</i> (Boheman, 1842)	no label	1f
69.	<i>??rubi</i> (Krauss, 1900)	no label	1m
	Subfam. <b>Lixinae</b> Schoenherr, 1823		
	Trib. <b>Lixini</b> Schoenherr, 1823		
	Larinus Dejean, 1821		
	(Larinus) Dejean, 1821		
70.	<i>latus</i> (Herbst, 1783)	Kragujevac 05.IV 1952.	1m
		no label	1m, 2f
	(Phyllonomeus) Gistel, 1856 (=Larinodontes Faust, 1898)		
71.	<i>jaceae</i> (Fabricius, 1775)	no labels	2m
72.	<i>??planus</i> (Fabricius, 1792)	Lipovica 22.VI 1939.	1m
		no labels	1m, 1f
73.	<i>sturnus</i> (Schaller, 1873)	Bela Palanka 07.VII 1946.	1m, 2f
74.	<i>turbinatus</i> Gyllenhal, 1835	Top. 16.V 1921.	1m
		no label	1m
	Lixus Fabricius, 1801		
	(Compsolixus Reitter, 1916)		
75.	<i>ascanii</i> (Linnaeus, 1767)	Topč. 18.IV 1921.	1m
	(Dilixellus Reitter, 1916)		
76.	<i>pulverulentus</i> (Scopoli, 1763) (= <i>algirus</i> Linnaeus, 1758)	no label	2m, 1f
	(Epimeces Billberg, 1820) (=Lixochelus Reitter, 1916)		
77.	<i>cardui</i> Olivier, 1807	no label	1m
78.	<i>filiformis</i> (Fabricius, 1781) (= <i>elongatus</i> Goeze, 1777)	no labels	2m, 1f
	(Eulixus Reitter, 1916)		
79.	<i>iridis</i> Olivier, 1807	12.VI 1955. unreadable	1f
80.	<i>myagri</i> Olivier, 1807	29.V 1953. D.H.	1m
		no label	1m, 1f
	Trib. <b>Cleonini</b> Schoenherr, 1826		
	Asproparthenis Gozis, 1886 (Bothynoderes Chevrolat, 1873)		
81.	<i>punctiventris</i> (Germar, 1824)	no label	1m, 1f
		Kragujevac 05.V 1952.	1m
		Kragujevac 17.V 1952.	1f
	Bothynoderes Schoenherr, 1823 (=Chromoderus Motschulsky, 1860)		
82.	<i>affinis</i> (Schrank, 1781) (= <i>Ch. fasciatus</i> Mueller, 1776)	Kragujevac 12.V 1952.	1f
	Cleonis Dejean, 1821		
83.	<i>pigra</i> (Scopoli, 1763)	Kragujevac 05.V 1952.	2m
		Kragujevac 13.V 1954.	1m
		Kragujevac 13.V 1954. P.V.	1m
		Kragujevac 13.V 1954. D.(?)	1f
		Kragujevac 13.VI 1955.	1f
		Kragujevac 12.V 1957.	1f
		Kragujevac 04.VI 1965.	1m
		no label	2m, 1f
	Pseudocleonus Chevrolat, 1873		
	(Pseudocleonus) Chevrolat, 1873		
84.	<i>cinereus</i> (Schrank, 1781)	no label	1m

