

The snout-beetles (Coleoptera, Curculionoidea) from the middle Arieş River basin (Apuseni Mountains, Romania)

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Summary

We recorded 269 species, from 95 genera, 16 subfamilies and 7 families of Curculionoidea in the studied area (table 1). *Micrelus ericae* (GYLL.) is new for Romanian fauna. Four species are new for the Transylvanian fauna: *Ceutorhynchus atomus* BOH., *C. chlorophanus* ROUGET, *Smicronyx nebulosus* TOURNIER and *Hypera rogenhoferi* (FERRARI); 16 species are rare: *Omphalapion laevigatum* (PAYK.), *Stenopterapion intermedium* (EPPELSHEIM), *Oryxolaemus falavifemoratus* (HBST.), *Pelenomus waltoni* (BOH.), *Ceutorhynchus nanus* GYLL., *Datonycus arquatus* (HBST.), *Tychius sharpi* TOURNIER, *Otiorhynchus* (*s. str.*) *perdix* (OLIV.), *O. (Magnanotius) schaumii* STIERL., *O. (Elechranus) ormayi* STIERL., *Phyllobius* (*Pseudomyllocers*) *cinerascens* (FABRICIUS), *Tropiphorus obtusus* (BONSD.), *Donus elegans* (BOH.), *D. maculatus* (W. REDTENBACHER), *Hypera ononidis* (CHEVROLAT), *Nanophyes brevis* BOH.; one species *Otiorhynchus* (*Magnanotius*) *rufomarginatus* STIERL. is endemical for Romania and is also rare. Two species are endemical in Carpatian area: *Otiorhynchus* (*Prilisvanus*) *opulentus* GERM. and *O. (Magnanotius) schaumii* STIERL..

Keywords: snout-beetles, middle Arieş River basin, faunistical studies, ecology, Romania

Introduction

We started our studies on the Curculionoidea (Coleoptera) from the middle Arieş River basin a mountain area of 400-1826 m altitude in 1994. Before our studies, only few data was available on snout-beetles of this area, and these referred to only 12 species (MARCUS 1957, ENDRÖDI 1960, TEODOREANU 1986). In 1999, KOCs and PODLUSSÁNY, published 83 Curculionoidea species from Rimetea, Buru and Runcului Gorges. Till now, we published of our data only those from „Scăriţa-Beloara” Botanical Reserve (TEODOR and CRIŞAN 1996) and from Poşaga-Belioara Valley area (TEODOR et al. 2001), altogether 106 species.

Material and methods

The snout-beetles were collected from different habitats in 22 locations between 1994-2006: Bistra Valley, Dobra Valley, Gârde, Lupşa, Lupşa Valley, Muncelu, Brăzeşti, between Brăzeşti and Sălciua, between Băişoara Mountain and Scăriţa Belioara, Scăriţa Belioara, Poşaga-Belioara Valley area, “Muntele Mare” (Big Mountain), between “Muntele Mare” (Big Mountain) and Băişoara Mountain, Runcului Gorges, Ocoliş, Vidolm, Ocolişel, Lungeşti, Băişoara Mountain, Filii Mountain, Rimetea, Buru (fig. 1).

The following types of habitats were selected for sampling: spruce forests, mixed forests of conif-

erous and deciduous trees, pine forests, beech forests, mixed deciduous forests, coppices, limestone habitats, sub-alpine meadow, mountain meadow, natural grasslands (hayfields and pastures) and weed associations.

Location of sampling sites in the middle Arieş River basin (fig. 1):

1. Bistra Valley is the first valley tributary to Arieş River on left side downstream Câmpeni town. Samples were taken in three habitats:

1a. Piceo-Carpino-Fagetum association situated at 600 m altitude, on the right side of valley, with North-Eastern aspect.

1b. Hygrophilous hayfield, situated nearby the forest (1a), on the right side of the valley, with North-Eastern aspect. The dominant plants were species of *Trifolium*, *Mentha*, *Carex* and some hygrophilous herbs.

1c. Salicetum association situated by the valley, at 600 m altitude, with better represented bed of weeds, dominating *Urtica dioica*.

2. Dobra Valley, village situated at the confluence between Arieş River and Dobra Valley in the mixed forest of coniferous and deciduous trees area, at 550 m altitude.

2a. Piceo-Fagetum association, situated on a slope with South-Eastern aspect.

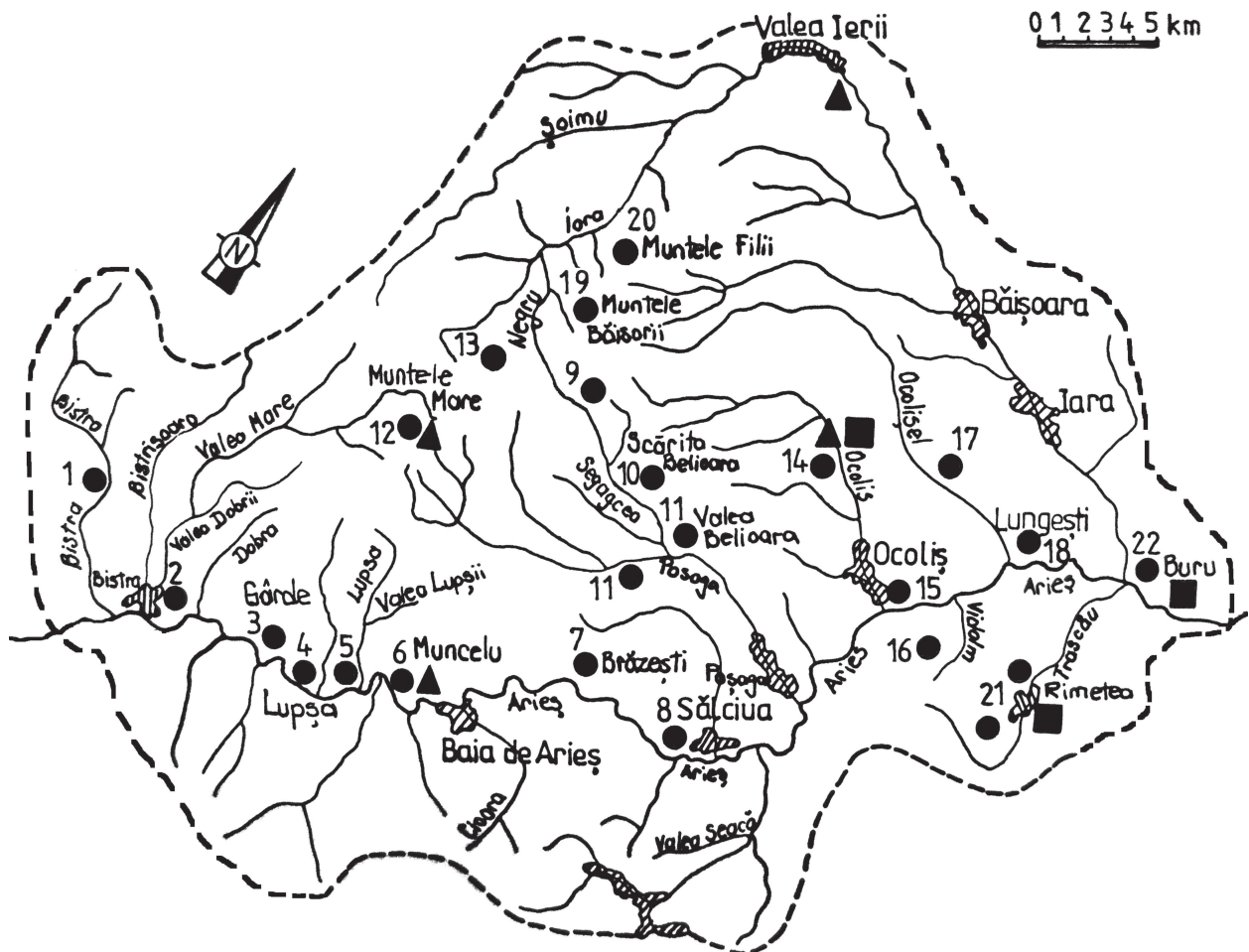


Fig. 1 Location of the sampling sites from the middle Arieș River basin:
 ▲ = data published by other authors before 1994, only 12 species (MARCUS 1957, ENDRÖDI 1960, TEODOREANU 1986);
 ■ = data published by other authors after 1994, 83 species (KOCIS & PODLUSSÁNY 1999);
 ● = our sampling sites, our data, between 1994-2006:
 1 = Bistra Vall ey, 2 = Dobra Valley, 3 = Gârde, 4 = Lupșa, 5 = Lupșa Valley, 6 = Muncelu, 7 = Brăzești, 8 = between Brăzești and Sălciua, 9 = zone between Băișoara Mountain and Scărița Belioara Reserve, 10 = Scărița Belioara Reserve, 11 = Poșaga-Belioara Valley area, 12 = “Muntele Mare” (Big Mountain), 13 = between “Muntele Mare” (Big Mountain) and Băișoara Mountain, 14 = Runcului Gorges, 15 = Ocoliş, 16 = Vidolm, 17 = Ocolişel, 18 = Lungești, 19 = Băișoara Mountain, 20 = Filii Mountain, 21 = Rimetea, 22 = Buru (modified after POPESCU-ARGEȘEL 1984).

2b. Hayfield, situated near *Piceo-Fagetum* (2a), where species of *Trifolium* and *Rumex* are dominant.

3. Gârde village. Samples were taken on the slopes from the left side of Arieș River

3a. Fagetum association, forest on a Southern exposed slope, a tilted and steep area between 500-525 m altitude, with *Fagus sylvatica*, *Corylus avellana* and *Crataegus monogyna* as wooden vegetation and a well represented bed of herbs and weeds.

3b. Coppice, at 500 m altitude, with species of *Populus* and *Salix* and with *Corylus avellana*.

4. Lupșa village situated in the deciduous forest area.

4a. Fageto-Quercetum association, at 500

m altitude, on a Southern exposed slope on the left side of the Arieș River, with well represented beds of bushes, weeds and herbs mostly on the glades where *Corylus avellana*, *Salix caprea*, *Urtica dioica* and species of *Rumex* were dominants.

5. Lupșa Valley, village situated on the left side of Arieș River, to Lupșa Valley mouth.

5a. Alnetum association, on the left side of the river at 500 m altitude, with weeds mostly by *Urtica dioica* and species of *Mentha*.

6. Muncelu village, at 500 m altitude.

6a. Hayfield, in Arieș River everglade, with best represented herbaceous vegetation in some places with species of *Trifolium* and *Urtica dioica*.

7. Brăzești, village situated in a depression area. Samples were taken on the left side of Arieș River and also in a point on the right side.

7a. Piceo-Fagetum association situated between 460-485 m altitude, on a slope with Southern aspect and very tilted. Except the *Picea abies* and *Fagus sylvatica* we found here also *Corylus avellana*, *Carpinus betulus*, *Clematis vitalba* and herbaceous plants from Fabaceae family and species of *Luzula* and *Dianthus*.

7b. Pineto-Carpino-Fagetum association, on the left side of the river, a North-Eastern exposed slope at approximately 480 m altitude. Besides the indicator species this association contains also *Corylus avellana*, *Crataegus monogyna*, *Alnus incana* and *Salix caprea*. The herbaceous bed and the weeds were also representative.

7c. Salicetum association nearby the Arieș River at 450 m altitude, with species of *Salix*, *Corylus*, *Fagus*, as well as *Rumex*, *Equisetum*, *Urtica* and some hygrophilous herbs.

7d. Pasture nearby Brăzești village, at 460 m altitude on a strongly tilted slope, South-Western exposed. The vegetation was represented by mesophilous herbs and weeds, with rare bushes of *Corylus*, *Crataegus*, *Fagus*, *Betula* and *Salix caprea*. The pasture is bordered, nearby the top of the hill, by a deciduous forest.

7e. Coryletum avellanae-Fagetum association, situated at 470 m altitude nearby a pasture (7d) on same left slope with South-Western aspect. Here, mostly in the glades, *Corylus avellana* and *Crataegus monogyna* were dominant.

7f. Coppice on the right side of Arieș River at 450 m altitude, with various trees like: *Corylus avellana*, species of *Salix* and *Alnus*, *Crataegus monogyna*, *Sambucus nigra*, *Pirus communis*, *Malus domestica* and *Juglans regia*.

7g. Coryletum avellanae-Fagetum association situated on the right side of Arieș River at 460 m altitude, on the second half of a slope with Southern aspect, where nearby *Corylus avellana* and *Fagus sylvatica*, *Crataegus monogyna* and *Cornus mas* are frequent.

7h. Hayfield situated between 450-460 m altitude on the first half of same hill, Southern exposed slope, with well represented herbaceous mezophilous vegetation, with species of *Agrostis*, *Trifolium*, *Urtica dioica* etc.

8. Between Brăzești and Sălciua villages. Samples were taken on the left side of the Arieș River basin.

8a. Saliceto-Alnetum association, situated nearby the Arieș River, at 436 m altitude. Beside the

indicator species, also *Corylus*, *Lamium*, *Agrostis*, *Ranunculus*, *Urtica*, *Rubus*, *Mentha* species and some hygrophilous herbs were present.

8b. Carpino-Fagetum association, a forest covering the upper half of a hill, on a South-Western exposed slope, at 475-500 m altitude. Old high trees as well as young ones and shrubs of *Crataegus monogyna*, *Corylus avellana* and *Rosa canina* are present. The herbaceous bed contains mesophilous to meso-hygrophilous herbs and weeds.

8c. Hayfield covering the first half of the same hill, South-Western exposed, at 460-475 m altitude, with vegetation dominated by Poaceae and Fabaceae species.

8d. Alnetum association nearby the Arieș River, in Arieș River everglade at 420 m altitude, with species of *Alnus*, *Sambucus*, *Populus*, *Salix*, *Corylus*, *Urtica dioica*, *Rubus idaeus* and some hygrophilous herbs.

8e. Hayfield situated in Arieș River everglade at 420 m altitude, on the left side of the river, nearby *Alnetum* association (8d). The vegetation was dominated by Poaceae and Fabaceae species but *Urtica dioica*, *Rubus idaeus* and *Rubus caesius*, species of *Pteridium* and young shrubs of *Robinia pseudacacia*, *Corylus avellana* and *Salix caprea* were also present.

8f. Weeds, with *Urtica dioica*, *Carduus nutans* and *Rubus caesius*, situated nearby hayfield (8d) at 420 m altitude.

9. Zone between Băișoara Mountain and Scărița Belioara Reserve.

9a. Naturals grasslands-hayfields on hay hills (between 900-950 m altitude) with diverse hygrophilous vegetation. Here *Trollius europaeus* and some species of orchids are present.

9b. Pasture, situated nearby Scărița Belioara Reserve, on a Western exposed slope, between 1000-1100 m altitude with low herbaceous vegetation, *Nardus stricta* and species of *Potentilla*.

10. Scărița Belioara Botanical Reserve situated between 1200-1365 m altitude, on the top of the calcareous massif „Scărița Belioara”, a plateau namely „Șesul Craiului” with 5° inclination and Southern aspect.

10a. Mountain meadow-Seslerietum rigide arctostaphylosum association, situated on the Reserve's plateau between 1230-1240 m altitude, with various herbaceous vegetation made of *Sesleria rigida* and with rare plants: *Arctostaphylos uva-ursi*, *Saponaria belidifolia*, *Daphne cneorum*, *Primula columnnae*, *Dryas octopetala* etc. Bushes of *Juniperus communis* are also present.

10b. Steep rocks-*Seslerietum rigide arctostaphylosum* association, near the mountain meadow, relief like an amphitheatre covered by herbaceous vegetation, situated between 1220-1235 m altitude, with 35-40° inclination and South-South-Eastern aspect. Here *Sesleria rigida* is dominant, following by *Arctostaphylos* and *Heliactotrichum*.

10c. Mountain meadow with shrubs and trees-*Pinetum sylvestris seslerietosum* association, situated on the Reserve's plateau between 1260-1265 m altitude. This meadow has numerous shrubs and trees like: *Juniperus*, *Pinus sylvestris* and *Picea abies*. In herbaceous bed besides *Sesleria rigida*, *Arctostaphylos* and *Dryas* are frequent.

10d. Steep rocks-*Seslerietum rigide* association, situated nearby *Fagetum* association (10e), between 1260-1265 m altitude, 40-45° inclination and South-South-Eastern aspect. In herbaceous bed *Sesleria rigida* and *Heliactotrichum* are dominant. This association is bordered by some trees of *Fagus* and *Picea*.

10e. *Pulmonario rubre-Abieti-Fagetum* association, forest situated in the Northern part of Reserve, on the slope with Northern aspect, between 1225-1235 m altitude and 30-40° inclination.

11. Poșaga-Belioara Valley area. Samples were taken both in the Belioara Valley which is tributary of the Poșaga Valley and on some accessible slopes of the „Scărița Belioara” Massif.

11a. *Phyllitidi-Fagetum* association, extended between 750-800 m altitude from the valley to the boundary of the „Scărița Belioara” Botanical Reserve. In this forest we sampled slopes with South-Eastern aspect.

11b. *Salicetum* association, along the Belioara Valley at 750 m altitude, containing also species of *Acer*, *Betula*, *Corylus* and herbaceous bed with species of *Mentha*, *Urtica*, *Verbascum*, *Ranunculus* and hygrophilous herbs.

11c. Pasture with bushes, on the left side of the valley at about 750 m altitude, on a slope with Western aspect, having hygrophilous herbaceous vegetation, in some places with *Urtica dioica*, *Equisetum arvense* and numerous bushes of *Betula*, *Corylus* and *Robinia pseudaccacia*.

11d. Steep rocks-*Juniperus sabinae* association, on the left side of the valley, on a slope with Eastern aspect at about 750 m altitude, a xerophilous habitat, covered by rare herbaceous vegetation and mostly *Juniperus* bushes.

11e. Hayfield, situated on the right side of the valley North-Eastern exposed, at about 750 m altitude, with abundant herbaceous vegetation, bushes

of *Corylus avellana* and some trees of *Fraxinus excelsior* and *Acer sp.*

11f. Hayfield with bushes and trees (mesophilous meadow), on the right side of the Belioara Valley on a slope with Eastern aspect, between 750-900 m altitude, with diverse herbaceous vegetation and species of *Fraxinus*, *Acer*, *Rosa*, *Corylus avellana* and *Crataegus monogyna*. This meadow goes to the base of the rocks that surround a large plane area, called „Șesul Craiului” where “Scărița Belioara” Botanical Reserve is.

11g. Coppice, nearby Poșaga Valley at 700 m altitude, with species of *Salix* and *Populus* and abundant hygrophilous vegetation.

12. “Muntele Mare” an area situated between 1650-1826 m altitude.

12a. Mountain meadow with bushes, situated at the foot of the mountain at about 1650 m altitude, where Poaceae species are dominant: *Festuca rubra*, *Agrostis tenuis* and *Poa media* and bushes of *Juniperus sibirica*.

12b. Sub-alpine meadow, situated in the second half and on the top of the Big Mountain (till 1826 m altitude), with low vegetation made preponderant from: *Festuca supina*, *Agrostis rupestris*, *Poa media* and species of *Potentilla*.

13. Between “Muntele Mare” and Băișoara Mountain in spruce forest area.

13a. Spruce forest-*Oxalo-Piceetum* association, situated at 1600 m altitude, a very hygrophilous forest, having numerous springs and brooks. This forest has numerous glades where species of *Poaceae* are dominant and along the brooks there are *Betula pendula*, *Sorbus aucuparia* and *Rubus idaeus*.

13b. Mountain meadow, at 1600 m altitude, with *Nardus stricta* and bushes of *Juniperus sibirica*.

13c. Oligotrophe marsh, situated at 1600 m altitude with *Sphagnum* and *Vaccinium vitis-idaea*.

14. Runcului Gorges situated upstream of Runc Village, at 450 m altitude, in the Ocoliș Valley, tributary on left side to middle Arieș River.

14a. *Alneto-Betulo-Salicetum* association with a representative bed of herbs: species of *Trifolium*, *Urtica dioica* etc.

14b. Thicket of trees and bushes, on the left side of the gorges and of the Ocoliș Valley, a slope with Southern aspect. Here species of *Alnus*, *Betula*, *Rosa*, *Crataegus*, *Pyrus*, *Salix*, *Corylus* and *Rubus* were present.

15. Ocoliș, village situated at the Ocoliș Valley mouth in a depression area at 420 m altitude.

15a. *Salicetum* association, situated on the left side of the river, with hygrophilous bed of weed.

15b. Pasture situated on the left side of Arieș River, with mesophilous herbs mixed with some weeds as *Verbascum blattaria*, *Achillea millefolium* etc.

16. Vidolm, village situated in the Vidolm Valley, tributary on right side to middle Arieș River, at 450 m altitude.

16a. *Fagetum* associatin, on the superior half of Ardoscheia peak between 1100-1250 m altitude, on a slope with North-Eastern aspect. This forest is made of *Fagus sylvatica*, *Larix decidua* and *Betula pendula* and at the forest border there are *Corylus avellana*, *Crataegus monogyna*, *Rosa canina* and bushes of *Juniperus*.

16b. Hayfield situated between 800-1100 m altitude in the first half of the slope North-Eastern exposed, bordered to the top by the *Fagetum* association (16a). It has well developed mesophilous vegetation, represented mostly by herbs and some dicotyledonous plants as *Myosotis*, *Rumex*, *Euphorbia*, *Trifolium* etc. species.

16c. Hayfield with bushes of *Juniperus* and *Rosa*, South-Western exposed slope between 800-1100 m altitude, on the left side of the Vidolm Valley, dominated by Poaceae species and containing also species of *Centaurea*, *Carex*, *Rumex* etc.

16d. *Betulo-Salicetum* association, close to the Vidolm Valley at 500 m altitude, having also *Fagus* individuals and species of *Urtica*, *Carex*, *Juncus* etc. in the herbaceous bed.

17. Ocolișel, a village situated along the Ocolișel Valley, at about 500 m altitude.

17a. Hayfield with mezophilous herbs mixed with *Trifolium*, *Centaurea*, *Mantha* and *Carduus* species, situated on the left side of the valley.

17b. Pasture with mesophilous species of Gramineae and others as *Rumex*, *Cirsium*, *Centaurea*, *Viola* and *Genista* species, also situated on the left side of the valley.

17c. *Alnetum* association, with species of *Trifolium*, *Petasites*, *Urtica* and different hygrophilous herbs.

18. Lungești, an extended village along the middle Arieș River, beginning at Ocolișel Valley mouth, between 400-420 m altitude.

18a. Hayfield, on the left side of the river, dominated by herbs in mixture with species of *Trifolium*, *Urtica* and *Carduus*.

18b. Pasture, also on the left side of the river, with species of *Centaurea*, *Mentha*, *Verbas-*

cum, *Urtica*, *Lepidium* etc, mixed with species of Gramineae.

18c. *Alneto-Salicetum* association close to the left side of the river, having also species of *Corylus avellana*, *Trifolium repens*, *Mentha piperita*, *Urtica dioica* etc.

19. Băișoara Mountain area, between 1000-1400 m altitude.

19a. Spruce forest-*Oxalo-Piceetum* association situated nearby and behind of “Băișoara Mountain” chalet, on a slope with Northern aspect at about 1400 m altitude. In this forest there are numerous little glades with *Rubus idaeus*.

19b. Spruce forest-*Oxalo-Piceetum* association situated nearby and in front of “Băișoara Mountain” chalet and “Avalanșa” chalet, on the slope with Southern aspect at about 1400 m altitude. This forest has also *Fagus sylvatica* individuals, numerous shrubs of *Rubus idaeus* and ferns (*Pteridium*).

19c. Hayfields, situated behind of “Băișoara Mountain” chalet on the slope with Southern aspect and on the “Băișoara Mountain” brook at about 1000 m altitude. Here is diverse and high herbaceous vegetation and in some places bushes and trees of: *Populus*, *Betula pendula*, *Corylus avellana* etc.

20. Filii Mountain area, situated not far from Băișoara Mountain.

20a. Spruce forest-*Oxalo-Piceetum* association at the foot and at the first half of the mountain, between 800-1000 m altitude. Here are numerous glades with low herbaceous vegetation, shrubs of ferns (*Pteridium*) and small trees of *Picea abies* and *Fagus sylvatica*.

20b. Mountain meadow, with *Festuca rubra*, *Agrostis tenuis* and *Nardus stricta*, situated at the foot and at the first half of the mountain, at about 800 m altitude, surrounded by the spruce forest (20a).

21. Rimetea, village situated in the Rimetea (Trascău) Valley, tributary on right to middle Arieș River, in a depression area, at about 500 m altitude.

21a. *Carpino-Fagetum* association, on the left slope with South-Eastern aspect between 500-550 m altitude. In this forest besides *Fagus sylvatica* and *Carpinus betulus*, *Acer campestre* and *Corylus avellana* are also frequent.

21b. Coppice, *Salicetum* association close to Rimetea Valley at about 500 m altitude, with hygrophilous herbaceous vegetation, with *Petasites* and *Urtica dioica*.

21c. Mountain meadow, at about 1129 m altitude on “Colții Trascăului” Massif-“Piatra Secuiu-

lui” peak. This meadow is made of *Festuca rubra* and *Agrostis tenuis*.

21d. Hayfields on the left side of Rimetea Valley and on the slopes with South-Eastern and South-Western aspect between 500-550 m altitude, with *Festuca rubra*, *Trifolium pratense*, *Trifolium repens*, *Coronilla varia*, *Urtica dioica*, *Carduus acanthoides*, species of *Cirsium*, *Centaurea* and *Lotus*, and some specimens of *Pyrus pyraister*.

21e. Hayfield situated in the surroundings and nearby the ruins of the Trascău Fortress (Colțești Village) at 700 m altitude. This hayfield is made of *Festuca valesiaca* and has some bushes of *Crataegus monogyna*, *Corylus avellana* and *Rosa canina*.

21f. Pasture, on the left slope with South-Eastern aspect at 600 m altitude, with *Trifolium pratense*, *Mentha longifolia*, *Urtica dioica* and *Plantago lanceolata*.

21g. Weeds at 500 m altitude, with *Urtica dioica*, *Mentha longifolia*, *Capsella bursa-pastoris* and *Carduus acanthoides*.

22. Buru, the downstream village on the middle Arieș River basin.

22a. Hayfield, on a Southern exposed slope on the left side of the Arieș River at 420 m altitude. Many herbs, as well as other species as: *Trifolium pratense*, *Plantago lanceolata*, *Lotus corniculatus*,

Vicia faba, *Melilotus officinalis*, *Coronilla varia*, *Onobrichis vicifolia*, *Centaurea austriaca* etc. were present. The hayfield, not so extended, is bordered by species of *Prunus*, *Pyrus*, *Corylus*, *Centaurea*, *Crataegus*, *Viburnum*, *Ligustrum* and *Acer*.

22b. Weeds at 400 m altitude, with *Urtica dioica*, *Mentha arvensis*, *Verbascum flomoides* and sparse bushes of *Crataegus* and *Rosa*.

22c. Pasture at 400 m altitude on the right side of the Arieș River, close to Rimetea Valley mouth. It has mesophilous character, with some hygrophilous zones having *Carex* and *Juncus* species as indicators.

The biological material was collected by sweeping the vegetation with the entomological net or using umbrella net. Some snout-beetles were collected by “Barber” traps and others directly from the host-plants.

The identification of the snout-beetle species was carried out in laboratory based on their morphology and male genitalia, using different literature (ENDRÖDI 1961, DIECKMANN 1974, 1977, 1980, 1983, 1986, 1988, FREUDE et al. 1981, 1983, LUCHT 1987, ALONSO-ZARAZAGA 1989, 1990, ABAZZI & OSELLA 1992, COLONNELLI 1994, BEHNE 1994, 1998, LAWRENCE and NEWTON 1995, PODLUSSÁNY 1996).

Table 1

Curculionoidea species from middle Arieș River basin, collected by us in 1994-2006

Abbreviations: No. ind. = Number of individuals; * = see codes in “Material and methods “

	Families, subfamilies, tribe, subtribe, species	Date	No. ind.	Sampling sites*
APIONIDAE				
Apioninae				
Apionini				
1	<i>Apion haematodes</i> KIRBY, 1808	24.VI.1998	1	8f
2	<i>Apion rubiginosum</i> GRILL, 1893	17.V.1997	2	2b
Aplemonini				
3	<i>Aizobius sedi</i> (GERMAR, 1818)	25.VII.1997	2	11f
4	<i>Perapion (s.str.) affine</i> (KIRBY, 1808)	21.VI.2002	1	17b
5	<i>Perapion (s.str.) curtirostre</i> (GERMAR, 1817)	16.VI.1997	1	11c
		1.VI.1998	2	7d, g
		24.VI.1998	2	7d
6	<i>Perapion (s.str.) marchicum</i> (HERBST, 1797)	16.VI.1997	1	11c
		25.VII.1997	1	11e
		21.V.2006	3	21c
7	<i>Perapion (s.str.) oblongum</i> (GYLLENHAL, 1839)	16.VI.1997	1	11c
8	<i>Perapion (s.str.) violaceum</i> (KIRBY, 1808)	22.IV.1998	6	8c, d
		23.V.1998	5	8a, c, e
		1.VI.1998	2	8c, e
		25.VI.1998	1	8e
		12.V.2001	1	16 d
		28.VII.2001	2	16 c

	Families, subfamilies, tribe, subtribe, species	Date	No. ind.	Sampling sites*
8	<i>Perapion (s.str.) violaceum</i> (KIRBY, 1808)	1.VI.2002	3	22b
		21.VI.2002	2	22a
Ceratapiini				
9	<i>Ceratapion (Acanephodus) onopordi</i> (KIRBY, 1808)	16.VI.1997	2	11c, f
		25.VII.1997	1	11b
		24.V.1998	1	14b
		24.VI.1998	2	8d, f
		12.V.2001	2	22a
		28.VII.2001	1	22a
10	<i>Ceratapion (Clementiellus) orientale</i> (GERSTÄCKER, 1854)	31.V.1996	1	10a
		16.VII.1996	1	10a
		16.VI.1997	1	11b
		1.VI.2002	1	22a
		21.VI.2002	2	17a, b
		31.V.2002	2	21d
11	<i>Omphalapion dispar</i> (GERMAR, 1817)	16.VI.1997	1	11c
12	<i>Omphalapion hookeri</i> (KIRBY, 1808)	1.VI.1998	1	7d
13	<i>Omphalapion laevigatum</i> (PAYKULL, 1792)	16.VI.1997	4	11b, c
Exapiini				
14	<i>Trichopterapion holosericeum</i> (GYLLENHAL, 1833)	21.V.2006	1	21c
Kalcapiini				
15	<i>Squamapion atomarium</i> (KIRBY, 1808)	15-16.VII.2002	2	21e, f
16	<i>Squamapion elongatum</i> (GERMAR, 1817)	28.VII.2001	1	16b
17	<i>Squamapion vicinum</i> (KIRBY, 1808)	22.IX.1998	1	1b
18	<i>Taeniapion urticarium</i> (HERBST, 1784)	1.VI.2002	2	18b; 22b
Oxystomatini				
Catapiina				
19	<i>Catapion pubescens</i> (KIRBY, 1811)	25.VII.1997	2	11f
20	<i>Catapion seniculus</i> (KIRBY, 1808)	24.VI.1998	2	3b
		22.IX.198	1	7d
		31.V.2002	3	21d
		31.VIII.2002	1	21d
Oxystomatina				
21	<i>Cyanapion (s. str.) columbinum</i> (GERMAR, 1817)	23.V.1998	1	8a
22	<i>Cyanapion (s. str.) spencei</i> (KIRBY, 1808)	12.V.2001	1	16c
23	<i>Cyanapion (Bothryorrhynchapion) gyllenhalii</i> (KIRBY, 1808)	22.IV.1998	1	8d
		23.V.1998	5	8a, c
		1.VI.1998	2	8c, e
		25.VI.1998	1	8e
24	<i>Eutrichapion (s. str.) ervi</i> (KIRBY, 1808)	18.VI.1997	3	11e, f
		2.VI.1998	1	1b
		31.V.2002	1	21f
		16.VII.2002	1	21f
25	<i>Eutrichapion (s. str.) viciae</i> (PAYKUL, 1800)	16-18.VI.1997	2	11b, c
		23.V.1998	3	8a, c
		1.VI.1998	1	8c
		24-25.VI.1998	2	8e, f
		12.V.2001	2	22a
		28.VII.2001	1	16a
		1.VI.2002	2	22a
		16.VII.2002	1	21a
26	<i>Eutrichapion (Phalacrolobus) melancholicum</i> (WENCKER, 1864)	18.VI.1997	1	11c

	Families, subfamilies, tribe, subtribe, species	Date	No.	Sampling sites*
			ind.	
27	<i>Eutrichapion (Psilocalymma) punctigerum</i> (PAYKULL, 1792)	23.V.1998	5	8a
		1.VI.1998	2	8c, e
		12.V.2001	2	22a
		31.V.2002	1	21d
		1.VI.2002	7	18a, b; 22a
		21.VI.2002	1	22b
28	<i>Hemitrichapion (Dimesomyops pavidum)</i> (GERMAR, 1817)	28.VII.2001	3	16a
		31.V.2002	3	21d
		1.VI.2002	1	22a
		21.VI.2002	3	17a
		16.VII.2002	2	21a
		31.VIII.2002	1	21d
29	<i>Hemitrichapion (Tinocyba) reflexum</i> (GYLLENHAL, 1833)	12.V.2001	1	22a
		28.VII.2001	1	22a
30	<i>Holotrichapion (Apions) aestimatum</i> (FAUST, 1891)	12.V.2001	1	16c
31	<i>Holotrichapion (s. str.) ononis</i> (KIRBY, 1808)	16.VI.1997	2	11c
		23.V.1998	1	8a
32	<i>Mesotrichapion (Mesotrichapion) punctirostre</i> (GYLLENHAL, 1839)	31.VIII.2002	9	21d
33	<i>Oryxolaemus falvifemoratus</i> (HERBST, 1797)	24.VI.1998	1	7d
34	<i>Oxystoma cerdo</i> (GERSTÄCKER, 1854)	23.V.1998	1	8b
		1-2.VI.1998	2	3b; 8f
		25.VI.1998	1	8d
		16.VII.2002	2	21a
35	<i>Oxystoma craccae</i> (LINNAEUS, 1767)	1.VI.2002	2	18a
36	<i>Oxystoma dimidiatum</i> (DESBROCHERS DES LOGES, 1897)	16.VI.1997	1	11c
		25.VII.1997	1	11f
		23.V.1998	1	8a
		25.VI.1998	2	8e
		1.VI.1998	1	8d
37	<i>Oxystoma ochropus</i> (GERMAR, 1818)	23.V.1998	1	8a
		1.VI.2002	1	22b
Synapiina				
38	<i>Ischnopterapion (Chlorapion) virens</i> (HERBST, 1797)	23.V.1998	3	8c
		1.VI.1998	1	8c
39	<i>Ischnopterapion (s. str.) loti</i> (KIRBY, 1808)	18.VI.1997	1	11e
		24.VI.1998	4	7d
		22.IX.1998	2	1b
		12.V.2001	1	16c
		28.VII.2001	1	16c
		31.V.2002	2	21d
		16.VII.2002	8	21a, f
40	<i>Stenopterapion intermedium</i> (EPPELSHEIM, 1875)	16.VI.1997	1	11c
		21.V.2006	1	21c
41	<i>Stenopterapion tenue</i> (KIRBY, 1808)	28.VII.2001	1	16d
Piezotrachelini				
42	<i>Protapion apricans</i> (HERBST, 1797)	17.V.1997	2	2b
		16-18.VI.1997	4	11c, e, f
		25.VII.1997	1	11f
		28.VIII.1997	1	11c
		29.IX.1997	1	1b
		22.IV.1998	1	8d
		23.V.1998	3	8a, c
		1-2.VI.1998	8	7d, h; 8c, d

	Families, subfamilies, tribe, subtribe, species	Date	No. ind.	Sampling sites*
42	<i>Protapion apricans</i> (HERBST, 1797)	24.VI.1998	4	3b; 7d; 8c, f
		10.VII.1998	1	19c
		22.IX.1998	1	1b
		28.VII.2001	1	22a
		31.V.2002	2	21d
		1.VI.2002	6	18a, c; 22a, b
		21.VI.2002	1	17b
		16.VII.2002	1	21f
		21.V.2006	4	21c
43	<i>Protapion assimile</i> (KIRBY, 1808)	16-18.VI.1997	9	11b, c, e, f
		25.VII.1997	2	11e
		23-24.V.1998	5	8a; 14b
		2.VI.1998	1	7h
		24.VI.1998	2	8c
		31.V.2002	1	21f
44	<i>Protapion filirostre</i> (KIRBY, 1808)	1.VI.1998	1	8e
		21.V.2006	1	21c
45	<i>Protapion fulvipes</i> (FOURCROY, 1785)	17.V.1997	2	2b
		16-18.VI.1997	4	11b; e
		28.VIII.1997	2	11b
		29.IX.1997	1	1b
		22.IV.1998	1	7d
		23.V.1998	1	8c
		1-2.VI.1998	2	7d; h
		24.VI.1998	1	8a
		22.IX.1998	1	7d
		31.V.2002	9	21d
		1.VI.2002	1	18a
		21.V.2006	3	21e
46	<i>Protapion laevicolle</i> (KIRBY, 1811)	1.VI.1998	1	7d
47	<i>Protapion nigrirtarse</i> (KIRBY, 1808)	23.V.1998	1	8c
		1.VI.1998	1	8e
48	<i>Protapion ononidis</i> (GYLLENHAL, 1827)	1.VI.2002	1	22b
		22.VI.2002	1	16c
49	<i>Protapion ruficrus</i> (GERMAR, 1817)	21.V.2006	1	21c
50	<i>Protapion trifolii</i> (LINNAEUS, 1768)	16-17.V.1997	4	2b; 11f
		22.IV.1998	1	8c
		23.V.1998	7	7d; 8a
		1-2.VI.1998	10	3b; 7d, h; 8b, c
		24-25.VI.1998	12	3a, b; 7a, d, e; 8b, c, e, f
		27.VII.1999	1	6a
		31.V.2002	1	21d
		16.VII.2002	1	21f
		21.V.2006	1	21c
51	<i>Protapion varipes</i> (GERMAR, 1817)	16.VI.1997	4	11b
		23.V.1998	6	8c, e
		2.VI.1998	3	7h
		24.VI.1998	2	8c
		31.V.2002	1	21f
		21.VI.2002	1	17a
52	<i>Pseudoprotapion astragali</i> (PAYKUL, 1800)	31.V.2002	2	21d
		18.VI.1997	1	11a

	Families, subfamilies, tribe, subtribe, species	Date	No.	Sampling sites*
			ind.	
53	<i>Pseudoprotapion elegantulum</i> (GERMAR, 1818)	28.VII.2001	5	22a
		31.VIII.2002	1	21d
ATTELABIDAE				
Apoderinae				
Apoderini				
54	<i>Apoderus (s. str.) coryli</i> (LINNAEUS, 1758)	25.VII.1997	1	11f
		24.VI.1998	3	7c, d, e
CURCULIONIDAE				
Bagoinae				
55	<i>Bagous lutulentus</i> (GYLLENHAL, 1813)	2.VI.1998	1	1b
Ceutorhynchinae				
Ceutorhynchini				
56	<i>Amalus scortillum</i> (HERBST, 1795)	28.VII.2001	1	16a
57	<i>Ceutorhynchus atomus</i> BOHEMAN, 1845	16.VI.1997	1	11b
58	<i>Ceutorhynchus chlorophanus</i> ROUGET, 1857	16.VI.1997	2	11a
59	<i>Ceutorhynchus cochleariae</i> (GYLLENHAL, 1813)	16-18.VI.1997	5	11b
		23.V.1998	2	8c, e
60	<i>Ceutorhynchus contractus</i> (MARSHAM, 1802)	22.IV.1998	1	8c
		23.V.1998	1	8c
		1-2.VI.1998	2	7h; 8c
61	<i>Ceutorhynchus erysimi</i> (FABRICIUS, 1787)	31.V.2002	30	21d
		1.VI.2002	3	18a; 22b
62	<i>Ceutorhynchus floralis</i> (PAYKULL, 1792)	31.V.2002	2	21d
63	<i>Ceutorhynchus ignitus</i> GERMAR, 1824	31.V.2002	1	21d
64	<i>Ceutorhynchus nanus</i> GYLLENHAL, 1837	31.V.1996	1	10a
		9.VII.1998	2	10a, c
65	<i>Ceutorhynchus pallidactylus</i> MARSHAM, 1802)	16.VI.1997	1	11a
66	<i>Ceutorhynchus parvulus</i> CH. BRISOUT DE BARNEVILLE, 1869	1.V.2002	1	18b
		1.VI.2002	1	22b
67	<i>Ceutorhynchus pleurostigma</i> (MARSHAM, 1802)	2.VI.2001	2	5a
68	<i>Ceutorhynchus similis</i> CH. BRISOUT DE BARNEVILLE, 1869	17.V.1997	3	2b
69	<i>Datonychus arquata</i> (HERBST, 1795)	23.V.1998	2	8b
		27.VII.1999	2	6a
		21.VI.2002	1	17c
70	<i>Datonychus melanostictus</i> (MARSHAM, 1802)	23.V.1998	1	8a
		31.V.2002	2	21d
		1.VI.2002	2	22b
71	<i>Datonychus urticae</i> (BOHEMAN, 1845)	2.VI.2001	2	5a
72	<i>Glocianus brevicollis</i> (SCHULTZE, 1897)	16.VI.1997	3	11f
		23.V.1998	1	8d
		31.V.2002	2	21d
73	<i>Glocianus punctiger</i> (GYLLENHAL, 1837)	23.V.1998	1	8c
74	<i>Micrelus ericae</i> (GYLLENHAL, 1813)	9.VII.1998	1	10c
75	<i>Microplontus campestris</i> (GYLLENHAL, 1837)	1.VI.1998	1	7d
76	<i>Nedyus quadrimaculatus</i> (LINNAEUS, 1758)	16-18.VI.1997	77	11a, b, c
		25.VII.1997	3	11f
		24.V.1998	60	14a, b
		22-23.IV.1998	8	1c; 7c; 8a, 8c
		23.V.1998	50	7c; 8a, b, c
		1-2.VI.1998	34	1c; 3a; 7c, f; 8a, b, e, f
		24.VI.1998	48	7c; 8a, b, c
		23.IX.1998	2	7b, c
		27.VII.1999	7	6a

	Families, subfamilies, tribe, subtribe, species	Date	No. ind.	Sampling sites*
76	<i>Nedyus quadrimaculatus</i> (LINNAEUS, 1758)	12.V.2001	3	16c
		2.VI.2001	16	4a, 5a
		1.V.2002	3	18b
		31.V.2002	13	21d, f
		1.VI.2002	94	18a, b; 22a, b
		21-22.VI.2002	4	14a; 22b
		11.VII.2002	1	21b
77	<i>Parethelcus pollinarius</i> (FORSTER, 1771)	21.V.2006	1	21c
		23.V.1998	1	8a
78	<i>Prisistus (s. str.) obsoletus</i> (GERMAR, 1824)	1.VI.2002	5	18b; 22b
		1.VI.1998	2	8.c, e
79	<i>Trichosirocalus barnevillei</i> (GRENIER, 1866)	25.VI.19989	1	8e
		17.V.1997	1	2b
80	<i>Trichosirocalus troglodytes</i> (FABRICIUS, 1787)	23.V.1998	1	8e
		1.VI.1998	1	8e
		31.V.2002	1	21f
		1.VI.2002	2	18a
		21.VI.2002	3	18a
81	<i>Zacladus (s. str.) geranii</i> (PAYKULL, 1800)	25.VII.1997	1	11b
		31.V.2002	3	21d
		1.VI.2002	1	22b
Phytobiini				
82	<i>Pelenomus waltoni</i> (Boheman, 1843)	24.VI.1998	1	8b
84	<i>Rhinoncus inconspiculus</i> (Herbst, 1795)	23.V.1998	1	8a
		16.VI.1997	1	11f
		1-2.VI.1998	4	1c; 8c, e
		24-25.VI.1998	2	8b; e
85	<i>Rhinoncus pericarpus</i> (LINNAEUS, 1758)	23.V.1998	3	8c
		2.VI.2001	1	5a
Scleropterini				
86	<i>Scleropterus serratus</i> (GERMAR, 1824)	23.V.1998	1	8a
		2.VI.1998	2	1b, c
Cossoninae				
Rhyncholini				
Phloeophagina				
87	<i>Phloeophagus lignarius</i> (MARSHAM, 1802)	28.VII.2001	1	16a
Cryptorhynchinae				
Cryptorhynchini				
Tylodina				
89	<i>Rutera hypocrita</i> (BOHEMAN, 1837)	23.IX.1998	2	1a
		28.VIII.1997	1	11b
		23.IX.1998	2	7b
		16.IX.2002	1	16a
Curculioninae				
Acalyptini				
90	<i>Acalyptus carpini</i> (FABRICIUS, 1792)	1.VI.1998	1	7f
		23.V.1998	1	8c
		2.VI.1998	1	7h
Anoplini				
91	<i>Anoplus roboris</i> SUFFRIAN, 1840	16.VI.1997	1	11c
		22.IV.1998	3	7d; 8a
		1-2.VI.1998	7	3b; 7c, d, g, h
		24.VI.1998	1	7e
		1.VI.2002	1	18c

	Families, subfamilies, tribe, subtribe, species	Date	No.	Sampling sites*
			ind.	
Anthonomini				
92	<i>Anthonomus (s.str.) pomorum</i> (LINNAEUS, 1758)	23.V.1998	1	8e
		1.VI.1998	1	7d
		24.VI.1998	1	7e
93	<i>Anthonomus (s.str.) rubi</i> (HERBST, 1795)	7.VII.1995	1	19c
		23.V.1998	1	8a
		24.VI.1998	1	7d
		10.VII.1998	1	19c
		22.VI.2002	1	14a
		12.VII.2002	2	21c
		21.V.2006	1	21c
Cionini				
94	<i>Cionus alauda</i> (HERBST, 1784)	2.VI.1998	1	1a
95	<i>Cionus hortulanus</i> (FOURCROY, 1785)	15.VII.1996	1	10d
		13.VII.1997	1	10a
		25.VII.1997	14	11b, d
		28.VIII.1997	2	11d
		2.VI.2001	8	15b
96	<i>Cionus nigritarsis</i> REITTER, 1904	21.VI.2002	1	22a
		24.VI.1998	1	7a
		23.IX.1998	1	7c
97	<i>Cionus tuberculatus</i> (SCOPOLI, 1792)	2.VI.2001	1	15b
		23.V.1998	1	8e
		24.VI.1998	1	8a
Curculionini				
Curculionina				
98	<i>Curculio (Archarius) pyrrhoceras</i> MARSHAM, 1802	2.VI.2001	1	4a
99	<i>Curculio (Archarius) salicivorus</i> PAYKULL, 1792	31.V.2002	1	21b
100	<i>Curculio (s.str.) nucum</i> LINNAEUS, 1758	25.VII.1997	1	11f
101	<i>Curculio (s.str.) venosus</i> (GRAVENHORST, 1807)	3.VII.1997	1	10e
Ellescini				
Ellescina				
102	<i>Elleucus bipunctatus</i> (Linnaeus, 1758)	23.V.1998	1	8b
Dorytomia				
103	<i>Dorytomus (Olamus) melanophthalmus</i> (PAYKULL, 1792)	1-2.VI.1998	2	3b; 7d
		24.VI.1998	1	8a
104	<i>Dorytomus (Olamus) puberulus</i> (BOHEMAN, 1843)	2.VI.2001	1	15a
Mecinini				
105	<i>Cleopomiarus graminis</i> (GYLLENHAL, 1813)	16.VII.2002	1	21f
106	<i>Cleopomiarus longirostris</i> (GYLLENHAL, 1838)	15.VII.1996	1	10a
		16.VI.1997	1	11b
107	<i>Gymnetron labile</i> (HERBST, 1795)	17.V.1997	1	2a
108	<i>Mecinus collaris</i> GERMAR, 1821	23.V.1998	1	8e
		12.V.2001	2	16c
109	<i>Mecinus pyraster</i> (HERBST, 1795)	7.VII.1995	1	19c
		23.V.1998	1	8a
		1.VI.1998	1	8e
		12.V.2001	2	22a
110	<i>Miarus ajugae</i> (HERBST, 1795)	7.VII.1995	7	19c
		16.VI.1997	4	11b, f
		3-5.VII.1997	15	11f; 9a, c
		23.V.1998	4	8a, c
		1.VI.1998	1	7b

	Families, subfamilies, tribe, subtribe, species	Date	No. ind.	Sampling sites*
110	<i>Miarus ajugae</i> (HERBST, 1795)	1.VI.2002	1	22b
		21.VI.2002	2	22a
111	<i>Miarus campanulae</i> (LINNAEUS, 1767)	23.V.1998	2	8b
112	<i>Miarus monticola</i> PETRI, 1912	16.VI.1997	5	11c, 11f
		25.VII.1997	3	11b, f
		23.V.1998	4	7d; 8c
		1.VI.1998	5	7d; 8c, d
		24.VI.1998	6	8c
113	<i>Rhinusa neta</i> (GERMAR, 1821)	26.VII.1997	1	18a
114	<i>Rhinusa tetra</i> (FABRICIUS, 1792)	25.VII.1997	1	11b
		15.VII.2002	7	21e
Rhamphini				
Rhamphina				
115	<i>Isochnus foliorum</i> (O. F. MÜLLER, 1776)	1-2.VI.1998	2	1c; 8e
		2.VI.2001	1	4a
		22.VI.2002	1	14a
116	<i>Isochnus populicola</i> SILFVERBERG, 1977	1.VI.2002	1	22b
		31.V.2002	3	21b
117	<i>Orchestes (s.str.) testaceus</i> (O. F. MÜLLER, 1776)	2.VI.1998	12	3a, b ; 7f
		24.VI.1998	27	3a, b
118	<i>Orchestes (Salius) fagi</i> (LINNAEUS, 1758)	31.V.1996	6	10a, b, c, e
		25-28.VI.1996	6	10a; 12a
		15.VII.1996	1	10a
		16-18.VI.1997	681	11a, b, c, d, e, f
		2-5.VII.1997	126	9a, b; 10c, e; 11f; 12a, b; 13b; 19a; 20b
		25.VII.1997	26	11b, f
		28.VIII.1997	29	11a, b
		2.IX.1997	38	11a, b
		22.IV.1998	9	7c, d; 8c
		23-24.V.1998	44	8a, b, c, e; 14a
		1-2.VI.1998	3	1b; 7f; 8b
		24-25.VI.1998	243	7e; 8b, c, e
		9-11.VII.1998	12	9b; 10a, c; 19a, b
12.V.2001	33	16a, c, d		
28.VII.2001	5	16a		
119	<i>Rhamphus subaeneus</i> ILLIGER, 1807	1.VI.1998	1	7d
		24.VI.1998	1	7d
120	<i>Tachyerges decoratus</i> (GERMAR, 1821)	7.VII.1995	1	19c
		23.V.1998	1	8a
		2.VI.2001	1	15a
		31.V.2002	2	21b
121	<i>Tachyerges salicis</i> (LINNAEUS, 1758)	24.VI.1998	1	7e
122	<i>Tachyerges stigma</i> (GERMAR, 1821)	18.VII.1997	1	11b
		25.VII.1997	1	11b
		22.IV.1998	1	7d
		2.VI.1998	3	1c; 7f
		24.VI.1998	2	7c, e
Smicronychini				
123	<i>Smicronyx (s.str.) jungermanniae</i> (REICH, 1797)	28.VII.2001	3	22a
		21.VI.2002	1	22a
124	<i>Smicronyx (s.str.) nebulosus</i> TOURNIER 1874	1.VI.1998	1	7d

	Families, subfamilies, tribe, subtribe, species	Date	No.	Sampling sites*
			ind.	
Tychiini				
Tychiina				
125	<i>Sibinia pellucens</i> (SCOPOLI, 1772)	23.V.1998	1	8e
126	<i>Sibinia subelliptica</i> (DESBROCHERS DES LOGES, 1873)	28.VI.1996	1	10a
127	<i>Tychius brevisculus</i> DESBROCHERS DES LOGES, 1873	1.VI.1998	1	8e
		24-25.VI.1998	3	8e, f
		28.VII.2001	5	22a
128	<i>Tychius flavus</i> BECKER, 1864	25.VI.1998	1	8e
129	<i>Tychius junceus</i> (REICH, 1797)	31.V.2002	3	21d, f
		1.VI.2002	1	22a
130	<i>Tychius meliloti</i> STEPHENS, 1831	28.VII.2001	4	22a
131	<i>Tychius picirostris</i> (FABRICIUS, 1787)	15.VII.1996	1	10e
		31.V.2002	21	21d
		1.VI.2002	2	18a
		21.VI.2002	1	18a
132	<i>Tychius quinquepunctatus</i> (LINNAEUS, 1758)	31.V.2002	1	21d
		1.VI.2002	1	22a
133	<i>Tychius schneideri</i> (HERBST, 1795)	18.VI.1997	1	11f
134	<i>Tychius sharpi</i> TOURNIER, 1873	1.VI.1998	1	8e
		10.VII.1998	1	19c
		1.VI.2002	2	22a
		21.VI.2002	1	17a
135	<i>Tychius squamulatus</i> GYLLENHAL, 1836	28.VII.2001	1	22a
136	<i>Tychius stephensi</i> SCHÖNHERR, 1836	31.V.2002	7	21d
Entiminae				
Alophini				
137	<i>Graptus triguttatus</i> (FABRICIUS, 1775)	9.VII.1997	2	11b
		25.VII.1997	1	11b
		28.VIII.1997	2	11e
		1.VI.1998	1	7c
		23.IX.1998	1	1b
		28.VII.2001	1	16a
		31.V.2002	1	21d
138	<i>Graptus weberi</i> PENECHÉ, 1901	31.V.2002	1	21f
Brachyderini				
139	<i>Parafoucartia squamulata</i> (HERBST, 1795)	31.V.2002	2	21d
140	<i>Strophosoma melanogrammum</i> (FORSTER, 1771)	16.VII.1994	3	19a
		7.VII.1995	1	19c
		16.VI.1997	2	11c, f
		25.VII.1997	1	11f
		23.V.1998	5	7a, b; 8b
		1-2.VI.1998	2	1b; 7b
		24.VI.1998	4	7a; 8b
		7.VII.1998	1	13a
		23.IX.1998	1	8b
Geonemini				
141	<i>Barynotus obscurus</i> (FABRICIUS, 1775)	4.VII.1997	2	19b; 20a
		28.VIII.1997	1	11b
Omiini				
142	<i>Rhinomias maxillosus</i> PETRI, 1891	23.IX.1998	3	7a
Otiiorhynchini				
143	<i>Dodecastichus geniculatus</i> (GERMAR, 1817)	31.V.1996	2	10a, c
		15.VII.1996	2	10c, d
144	<i>Otiiorhynchus (Choilisanus) raucus</i> (FABRICIUS, 1776)	15.VII.1996	9	10d

	Families, subfamilies, tribe, subtribe, species	Date	No. ind.	Sampling sites*
144	<i>Otiorhynchus (Choilisanus) raucus</i> (FABRICIUS, 1776)	27.IX.1996	8	10b, d
		9.VII.1997	2	11d
		28.VIII.1997	1	11b
		1.VI.1998	3	7b, 8d
		23.IX.1998	52	7a, b, c; 8a, e
145	<i>Otiorhynchus (Cryphiphorus) ligustici</i> (LINNAEUS, 1758)	28.VI.1996	1	10a
		23.V.1998	1	8a
146	<i>Otiorhynchus (Elechranus) ormayi</i> STIERLIN, 1861	30.IX.1998	1	8a
147	<i>Otiorhynchus (Lolatismus) antennatus</i> STIERLIN, 1861	4.VII.1997	2	20a, b
		22.IX.1998	1	1a
148	<i>Otiorhynchus (Magnanotius) austriacus</i> (FABRICIUS, 1801)	1.VI.1998	1	7b
		22.IX.1998	1	1a
149	<i>Otiorhynchus (Magnanotius) kollari</i> (GYLLENHAL, 1834)	2.VI.1998	2	1c
150	<i>Otiorhynchus (Magnanotius) rufomarginatus</i> STIERLIN, 1861	23.IV.1998	1	1c
		24.V.1998	1	14a
151	<i>Otiorhynchus (Magnanotius) schaumii</i> STIERLIN, 1861	9.VII.1997	1	11b
152	<i>Otiorhynchus (Majetnecus) lepidopterus</i> (FABRICIUS, 1794)	4.VII.1997	2	20a
153	<i>Otiorhynchus (Namertanus) pauxillus</i> ROSENHAUER, 1847	16.IX.2002	1	16a
154	<i>Otiorhynchus (Nihus) scaber</i> (LINNAEUS, 1758)	4.VII.1997	12	20a, b
		28.VIII.1997	1	11b
		22-23.IX.1998	22	1a; 7b; 8b
155	<i>Otiorhynchus (s. str.) bisulcatus</i> (FABRICIUS, 1781)	31.V.1996	5	10a, c
		28.VIII.1997	1	11e
156	<i>Otiorhynchus (s. str.) coecus coecus</i> GERMAR, 1824	12.VII.1994	1	19a
		2.VII.1997	10	12a; 20a
157	<i>Otiorhynchus (s. str.) multipunctatus</i> (FABRICIUS, 1792)	16.X.2002	2	22a
158	<i>Otiorhynchus (Pendragon) ovatus</i> (LINNAEUS, 1758)	15.VII.1996	1	10d
		27.IX.1996	2	10a
		25.VII.1997	2	11b
		28.VIII.1997	2	11b
		24.V.1998	1	14a
		1.VI.1998	3	8d, e
		25.VI.1998	2	8d, e
		23.IX.1998	2	7b
159	<i>Otiorhynchus (Prilisvanus) cymophanus</i> GERMAR, 1817	27.VII.1999	1	6a
		16.VI.1997	4	11b
		12.V.2001	5	16d
		1.VI.2002	1	22b
		16.VII.2002	1	21f
160	<i>Otiorhynchus (Prilisvanus) dives</i> GERMAR, 1839	21.V.2006	7	21c
		7.VII.1995	1	19c
161	<i>Otiorhynchus (Prilisvanus) gemmatus</i> (SCOPOLI, 1763)	5.VII.1997	2	19c
		12-16.VII.1994	4	19a
		4-5.VII.1997	5	19c; 20b
		24.V.1998	8	14a
162	<i>Otiorhynchus (Prilisvanus) opulentus</i> GERMAR, 1834	21.V.2006	1	21c
		31.V.1996	2	10c
		16-18.VI.1997	12	11b, c
		9.VII.1997	2	11b
		25.VII.1997	1	11f
163	<i>Otiorhynchus (Proremus) coarctatus</i> STIERLIN, 1861	28.VIII.1997	5	11b
		16.VI.1997	1	11c
		2.VI.1998	2	3a
		24.VI.1998	1	7c

	Families, subfamilies, tribe, subtribe, species	Date	No.	Sampling sites*
			ind.	
163	<i>Otiorhynchus (Proremus) coarctatus</i> STIERLIN, 1861	23.IX.1998	2	7b
		22.VI.2002	1	16c
164	<i>Otiorhynchus (Stupamacus) winkleri winkleri</i> F. SOLARI, 1937	31.V.1996	2	10a, c
		28.VI.1996	5	10a
		15.VII.1996	5	10a, b, d
		27.IX.1996	8	10a, b, c, d
		5.VII.1997	1	11f
165	<i>Otiorhynchus (Thalycrynychus) perdix</i> (OLIVIER, 1807)	16.VI.1997	1	11b
		24.V.1998	1	14a
		1.VI.2002	1	22b
Peritelini				
166	<i>Stomodes gyasicollis</i> BOHEMAN, 1843	23.IX.1998	1	7a
Phyllobiini				
167	<i>Phyllobius (Dieletus) argentatus</i> (LINNAEUS, 1758)	17.V.1997	2	2a
		16-18.VI.1997	38	11a, b, c, f
		13.VII.1997	1	10b
		25.VII.1997	1	11f
		23.V.1998	10	7b, c, d; 8b, c
		2.VI.1998	5	1a, b, c; 3a
		11.VII.1998	3	19a
		12.V.2001	1	16a
168	<i>Phyllobius (Hoplophyllobius) pilicornis</i> DESBROUCHERS DES LOGES, 1873	18.VI.1997	1	11e
		3.VII.1997	2	10e
		1.VI.2002	1	22a
169	<i>Phyllobius (Metaphyllobius) glaucus</i> (SCOPOLI, 1763)	23-24.V.1998	5	7c; 8a; 14b
		1-2.VI.1998	7	3a; 7f; 8d
		1.VI.2002	2	18c
170	<i>Phyllobius (Metaphyllobius) pomaceus</i> GYLLENHAL, 1834	23-24.V.1998	163	8a, d, e; 14a, b
		1.VI.1998	35	7c; 8d, e, f
		25.VI.1998	2	8e
		23.IX.1998	1	7b
		12.V.2001	2	16c, d
		2.VI.2001	2	5a
		31.V.2002	2	21b
		1.VI.2002	1	22b
171	<i>Phyllobius (Nemoicus) oblongus</i> (LINNAEUS, 1758)	22.VI.2002	10	14a
		17.V.1997	1	2b
		16-18.VI.1997	19	11b, c, e
		9.VII.1997	1	11e
		23-24.V.1998	8	7c, d; 8a, d; 14a
		1-2.VI.1998	31	1c; 3b; 7c, f; 8b, d, e, f
		24.VI.1998	1	8a
		2.VI.2001	2	4a; 5a
172	<i>Phyllobius (Parnemoicus) viridicollis</i> (Fabricius, 1792)	22.VI.2002	1	14a
		16.VII.1994	19	19a
		7.VII.1995	6	19c
		31.V.1996	41	10a, b, c
		28.VI.1996	3	10a
		15.VII.1996	1	10a
		16-18.VI.1997	49	11b, c, d, e, f
		3-4.VII.1997	30	9a; 10b, e; 20b
24.V.1998	34	14a, b		
9.VII.1998	7	10a, b, c		

	Families, subfamilies, tribe, subtribe, species	Date	No. ind.	Sampling sites*
172	<i>Phyllobius (Parnemoicus) viridicollis</i> (Fabricius, 1792)	12.V.2001	25	16a, b, c, d
		22.VI.2002	1	14b
		21.V.2006	4	21c
173	<i>Phyllobius (s. str.) arborator</i> (HERBST, 1797)	31.V.1996	2	10a, c
		15.VII.1996	1	10a
174	<i>Phyllobius (s. str.) pyri</i> (LINNAEUS, 1758)	7.VII.1995	3	19c
		31.V.1996	3	10a, c
		15.VII.1996	1	10b
		16.VI.1997	3	11c, e
		22.IV.1998	2	8d
		24.V.1998	1	14b
		1.VI.1998	3	8e
		12.V.2001	5	16a, b, c
		21.V.2006	5	21c
175	<i>Phyllobius (Pseudomyllocerus) cinerascens</i> FABRICIUS, 1792)	2.VI.2001	1	15a
176	<i>Phyllobius (Pterygorrhynchus) maculicornis</i> (GERMAR, 1824)	31.V.2002	1	21b
177	<i>Phyllobius (Subphyllobius) scutellaris</i> (L. REDTENBACHER, 1849)	2.VII.1997	1	12a
Polydrusini				
178	<i>Polydrusus (Chlorodrosus) amoenus</i> (GERMAR, 1824)	15-16. VII.1994	80	12a; 19a
		7.VII.1995	21	19c
		25-28.VI.1996	8	10a; 12a
		1-5.VII.1997	536	9a, b; 12a, b; 13b; 19a; 20a; b
		7-11.VII.1998	129	9b; 10a; 13a, b,c; 19a, b, c; 20a, b
		21.VI.2002	2	17b
179	<i>Polydrusus (Chrysoyphis) sericeus</i> (SCHALLER, 1783)	23.V.1998	1	7d
180	<i>Polydrusus (Chrysoyphis) thalassinus</i> GYLLENHAL, 1834	16.VI.1997	1	11f
		25.VII.1997	1	11b
		24.V.1998	5	14a, b
		1-2.VI.1998	4	7f; 8b, e
		24.VI.1998	2	7e
		28.VII.2001	1	16a
		1.VI.2002	6	18b, c
181	<i>Polydrusus (Eudipnus) mollis</i> (STROEM, 1768)	24.VI.1998	1	8b
		1-2.VI.1998	3	1c; 3b; 7b
182	<i>Polydrusus (Eurodrusus) confluens</i> STEPHENS, 1831	16.VI.1997	4	11f
		5.VII.1997	2	11f
		25.VII.1997	1	11b
		9.VI.1998	1	9b
		1.VI.1998	1	7g
		24.VI.1998	2	7d
183	<i>Polydrusus (Eustolus) corruscus</i> GERMAR, 1824	25.VI.1998	1	8d
		1.VI.1998	2	8e
		2.VI.2001	1	15a
184	<i>Polydrusus (Eustolus) flavipes</i> (DE GEER, 1775)	1-2.VI.1998	5	3b; 8e
		1.VI.2002	1	18c
		22.VI.2002	1	14a
185	<i>Polydrusus (Eustolus) impressifrons</i> GYLLENHAL, 1834	23.V.1998	1	8d
186	<i>Polydrusus (Eustolus) pterygomalis</i> BOHEMAN, 1840	16.VI.1997	5	11a, b
		31.V.2002	2	21b
		13.VII.2002	1	21f
187	<i>Polydrusus (Neoeustolus) cervinus</i> (LINNAEUS, 1758)	12.V.2001	1	16a

	Families, subfamilies, tribe, subtribe, species	Date	No.	Sampling sites*
			ind.	
188	<i>Polydrusus (Neoeustolus) pilosus</i> GREDLER, 1866	28.VI.1996	1	10a
		13.VII.1997	1	10a
189	<i>Polydrusus (s. str.) fulvicornis</i> (FEBRICIUS, 1792)	7.VII.1995	1	19c
		13.VII.1997	1	10c
		23.V.1998	2	7c; 8d
		2.VI.1998	11	3b; 7f
		24.VI.1998	3	3a, b
		10.VII.1998	1	20a
		23.IX.1998	1	8e
190	<i>Polydrusus (s. str.) picus</i> (FABRICIUS, 1792)	28.VI.1996	2	10e
		15.VII.1996	1	10c
		17.V.1997	1	2a
		16.VI.1997	1	11f
		25.VII.1997	2	11e, f
		23-24.V.1998	40	7a, d; 14a, b
		1.VI.1998	6	7b; 8b
		24.VI.1998	4	3b; 7a, e
		1.VI.2002	1	22a
		21.VI.2002	1	17c
191	<i>Polydrusus (s. str.) sparsus</i> GYLLENHAL, 1834	16.VI.1997	3	11a
192	<i>Polydrusus (s. str.) tereticollis</i> (DE GEER, 1775)	24.IV.1998	5	8b
193	<i>Liophloeus (Liophloeodes) liptoviensis</i> J. WEISE, 1894	31.V.1996	2	10a
		16.VI.1997	2	11b
		2.VII.1997	1	11b
		23.V.1998	1	8a
		1.VI.2002	2	22b
194	<i>Liophloeus (s. str.) tessulatus</i> (O. F. MÜLLER, 1776)	23.V.1998	2	8c
195	<i>Pachyrhinus mustela</i> (HERBST, 1797)	31.V.1996	1	10c
		1.VI.1998	1	7b
Sciaphilini				
196	<i>Eusomus ovulum</i> GERMAR, 1824	17.V.1997	1	2b
		16.VI.1997	1	11f
		25.VII.1997	1	11b
		23.V.1998	9	8e, f
		1.VI.1998	3	8e
		25.VI.1998	1	8e
		2.VI.2001	3	15b
		31.V.2002	15	21d, f
		1.VI.2002	17	18a, b; 22a, b
		21.VI.2002	17	17a, b; 22a
		12-16.VII.2002	11	21a, c, f
		31.VIII.2002	1	21d
197	<i>Sciaphilus asperatus</i> (BONSDORFF, 1785)	16.VI.1997	1	11f
		28.VIII.1997	3	11b
		23.V.1998	1	8c
		1-2.VI.1998	9	1b, 3a; 7b; 8e
		24.VI.1998	2	8a, b
		23.IX.1998	6	7a, b, c
		1.VI.2001	1	4a
		2.VI.2002	2	22b
198	<i>Sciaphobus (Neosciaphobus) squalidus</i> (GYLLENHAL, 1834)	1.VI.2002	1	22a
199	<i>Sciaphobus (s. str.) caesius</i> (HAMPE, 1870)	13-16.VII.2002	8	21f
		31.VIII.2002	2	21d
Sitonini				

	Families, subfamilies, tribe, subtribe, species	Date	No. ind.	Sampling sites*
200	<i>Sitona (s. str.) cylindricollis</i> (FAHRAEUS, 1840)	16-18.VI.1997	6	1e; 11c, f
		25.VII.1997	1	11e
		25.VI.1998	1	8e
		1.VI.2002	1	18a
201	<i>Sitona (s. str.) hispidulus</i> (FABRICIUS, 1776)	21.VI.2002	1	18a
		22.VI.2002	1	14a
		16.VII.2002	1	21a
202	<i>Sitona (s. str.) humeralis</i> STEPHENS, 1831	16-18.VI.1997	9	11b, f
		25-28.VII.1997	3	11b, d
203	<i>Sitona (s. str.) lepidus</i> GYLLENHAL, 1834	23.V.1998	1	8c
		1.VI.1998	1	8e
		25.VI.1998	2	8e
		31.V.2002	3	21d, f
		1.VI.2002	2	18b
		21.VI.2002	1	18a
		14-15.VII.2002	2	21e; 22c
31.VIII.2002	2	21f		
204	<i>Sitona (s. str.) lineatus</i> (LINNAEUS, 1758)	7.VII.1995	1	19c
		16.VI.1997	11	11f
		3.VII.1997	1	9a
		1.VI.1998	3	8e, f
		28.VII.2001	1	16b
		1.VI.2002	11	18a
		22.VI.2002	1	16c
17.VII.2002	1	21a		
205	<i>Sitona (s. str.) longulus</i> GYLLENHAL, 1834	31.VIII.2002	1	21d
206	<i>Sitona (s. str.) macularius</i> (MARSHAM, 1802)	1.VI.2002	1	18a
207	<i>Sitona (s. str.) striatellus</i> GYLLENHAL, 1834	16-18.VI.1997	2	11c; d
		23.V.1998	1	7d
		24.VI.1998	1	7d
		28.VII.2001	1	16b
		31.V.2002	1	21d
		1.VI.2002	2	22a
		21.VI.2002	2	17a, b
208	<i>Sitona (s. str.) sulcifrons</i> (THUNBERG, 1789)	27.IX.1996	1	10c
		16.VI.1997	12	11b, c, f
		4.VII.1997	1	20b
		25.VII.1997	1	11f
		29.IX.1997	1	1b
		23.V.1998	3	8a
		2.VI.1998	1	7h
		24-25.VI.1998	2	8a, e
		31.V.2002	1	21d
		1.VI.2002	2	18a; 22a
		21.VI.2002	2	18a; 22a
15-16.VII.2002	2	21e, f		
31.VIII.2002	1	22c		
209	<i>Sitona (s. str.) waterhousei</i> WALTON, 1846	23.V.1998	1	7d
		1.VI.1998	1	8c
		22.IX.1998	1	7d
Tanymecini				
Tanymecina				
210	<i>Chlorophanus viridis viridis</i> (LINNAEUS, 1758)	23.V.1998	1	8e
		1.VI.1998	3	8d, e

	Families, subfamilies, tribe, subtribe, species	Date	No.	Sampling sites*
			ind.	
210	<i>Chlorophanus viridis viridis</i> (LINNAEUS, 1758)	2.VI.2001	1	5a
		1.VI.2002	12	18a, b; 22a
		21.VI.2002	9	17c
		22.VI.2002	8	14a
211	<i>Tanymecus (s. str.) palliatus</i> (FABRICIUS, 1787)	21.VI.2002	1	18a
Trachyphloeini				
Trachyphloeina				
212	<i>Trachyphloeus angustisetulus</i> HANSEN, 1915	1.VI.1998	1	7d
213	<i>Trachyphloeus aristatus</i> (GYLLENHAL, 1827)	9.VII.1997	1	11e
Tropiphorini				
214	<i>Tropiphorus micans</i> BOHEMAN, 1842	15.VII.1996	1	10a
215	<i>Tropiphorus obtusus</i> (Bonsdorf 1785)	22.IV.1998	1	8c
Hyperinae				
Hyperini				
216	<i>Donus comatus</i> (BOHEMAN, 1842)	24.VI.1998	1	8a
217	<i>Donus elegans</i> (BOHEMAN, 1842)	25.VII.1997	1	11b
218	<i>Donus intermedius</i> (BOHEMAN, 1842)	22.IV.1998	1	8a
		23.V.1998	1	8a
		28.VII.2001	1	16a
		1.VI.2002	2	18b; 22b
		21.VI.2002	1	17a
219	<i>Donus maculatus</i> (W. REDTENBACHER, 1848)	31.VIII.2002	1	22c
220	<i>Donus oxalis</i> (HERBST, 1795)	3.VII.1997	2	10e
		9.VII.1997	1	11b
		23.V.1998	3	8a, b
		1-2.VI.1998	6	1c; 3a; 7f; 8e
		24.VI.1998	11	3a; 7c; 8a, b, c
		23.IX.1998	1	7b
		2.VI.2001	2	4a
		31.V.2002	2	21b
		1.VI.2002	1	18b
		21.VI.2002	1	17c
221	<i>Donus velutinus</i> (BOHEMAN, 1842)	31.V.2002	1	21b
		21.V.2006	1	21c
		12.VII.1994	1	19a
		27.IX.1996	1	10d
		16.VI.1997	1	11b
222	<i>Hypera (Antidonus) zoilus</i> (SCOPOLI, 1763)	23.V.1998	1	8a
		24.VI.1998	1	8a
		21.VI.2002	2	18a
223	<i>Hypera (s. str.) carinicolis</i> (STIERLIN, 1888)	31.VIII.2002	1	21d
224	<i>Hypera (s. str.) meles</i> (FABRICIUS, 1792)	12.VII.2002	1	21c
		16.VI.1997	1	11f
		1-2.VI.1998	2	7h; 8e
		25.VI.1998	1	8e
		31.V.2002	1	21d
225	<i>Hypera (s. str.) nigrirostris</i> (FABRICIUS, 1775)	31.VIII.2002	1	21d
		25.VII.1997	1	11f
		1.VI.2002	1	18a
226	<i>Hypera (s. str.) ononidis</i> (CHEVROLAT, 1863)	16.VI.1997	1	11f
		23.V.1998	1	8a
227	<i>Hypera (s. str.) plantaginis</i> (DE GEER, 1775)	12.VII.2002	1	21c
228	<i>Hypera (s. str.) postica</i> (GYLLENHAL, 1813)	1-2.VI.1998	4	1b; 8e

	Families, subfamilies, tribe, subtribe, species	Date	No. ind.	Sampling sites*
228	<i>Hypera (s. str.) postica</i> (GYLLENHAL, 1813)	24-25.VI.1998	6	8e, f
		28.VII.2001	1	16d
		1.VI.2002	10	18a; 22a
		21.VI.2002	5	17a
229	<i>Hypera (s. str.) rogenhoferi</i> (FERRARI, 1866)	22.VI.2002	1	16c
230	<i>Hypera (s. str.) rumicis</i> (LINNAEUS, 1758)	16.VI.1997	1	11f
232	<i>Hypera (s. str.) suspiciosa</i> (HERBST, 1795)	18.VI.1997	1	11e
		16.VI.1997	2	11c
		25.VII.1997	1	11f
		1.VI.1998	1	7c
		28.VII.2001	1	16b
Lixinae				
Lixini				
233	<i>Larinus (s. str.) brevis</i> (HERBST, 1795)	7.VII.1995	1	19c
234	<i>Larinus (Phyllonomeus) jaceae</i> (FABRICIUS, 1775)	28.VI.1996	2	10a
		15.VII.1996	3	10a, c
		16-18.VI.1997	16	11b, c, e, f
		25.VII.1997	2	11c, f
		23.V.1998	4	8a, c, e
		1.VI.1998	6	8e, f
		25.VI.1998	1	8e
		10.VII.1998	1	19c
		2.VI.2001	1	5a
		21-22.VI.2002	4	16c; 17a
235	<i>Larinus (Phyllonomeus) planus</i> (FABRICIUS, 1792)	16.VI.1997	3	11b, c, f
		25.VII.1997	5	11b, f
		24.VI.1998	1	7d
236	<i>Larinus (Phyllonomeus) turbinatus</i> GYLLENHAL, 1836	31.V.2002	1	21d
		21-22.VI.2002	2	16c; 17b
		11-15.VII.2002	6	21d, e
237	<i>Larinus (Larinomesius) obtusus</i> GYLLENHAL, 1836	15.VII.1996	1	10a
		16-18.VI.1997	2	11f
		24.VI.1998	1	7a
		2.VI.2001	1	5a
		21-22.VI.2002	11	16c; 17a; 18a; 22a
		11.VII.2002	2	21d
238	<i>Lixus (Epimeces) filiformis</i> (FABRICIUS, 1781)	31.V.2002	2	21d
Cleonini				
239	<i>Cleonis pigra</i> (SCOPOLI, 1763)	14.VII.2002	1	21d
Rhinocyllini				
240	<i>Rhinocyllus conicus</i> (FRÖLICH, 1792)	1.VI.2002	2	18a
		21.VI.2002	1	17b
		11.VII.2002	2	21b
Magdalidini				
241	<i>Magdalis (s. str.) duplicata</i> GERMAR, 1818	24.VI.1998	1	7°
242	<i>Magdalis (s. str.) memnonia</i> (GYLLENHAL, 1837)	13.VII.1997	1	10b
243	<i>Magdalis (s. str.) violacea</i> (LINNAEUS, 1758)	7.VII.1995	1	19c
244	<i>Magdalis (Odontomagdalis) armigera</i> (FOURCROY, 1785)	23.V.1998	32	8a, e
		1.VI.1998	5	8b, d, f
		25.VI.1998	2	8d
Molytinae				
Molytini				
Molytina				

	Families, subfamilies, tribe, subtribe, species	Date	No.	Sampling sites*
			ind.	
245	<i>Liparus (s. str.) glabrirostris</i> (KÜSTER, 1849)	29.VII.1997	1	11g
		16.VII.2002	1	21a
Plinthina				
246	<i>Plinthus (s. str.) illigeri</i> GERMAR, 1824	23.IX.1998	1	7b
		19.VIII.2001	1	4a
247	<i>Plinthus (s. str.) tischeri</i> GERMAR, 1824	1.VI.1998	3	7b
		23.IX.1998	1	7a
248	<i>Plinthus (Plinthomeleus) sturmii</i> (GERMAR, 1819)	9.VII.1997	1	11b
		28.VIII.1997	1	11b
		1.VI.1998	2	7b
		22.IX.1998	1	1a
249	<i>Trachodes hispidus</i> (LINNAEUS, 1758)	23.IX.1998	1	7b
Hylobiini				
Hylobiina				
250	<i>Hylobius (Callirus) abietis</i> (LINNAEUS, 1758)	31.V.1996	1	10c
		15.VII.1996	3	10a
		4.VII.1997	20	19b
		1.VI.1998	7	7b
		23.IX.1998	1	7a
251	<i>Hylobius (s. str.) excavatus</i> (LAICHARTING, 1781)	4.VII.1997	2	19b ; 20b
252	<i>Lepyrus capucinus</i> (SCHALLER, 1783)	22.IV.1998	1	7d
		1.VI.1998	3	7d; 8b, e
		24.VI.1998	2	7d
		31.VIII.2002	1	22c
253	<i>Lepyrus palustris</i> (SCOPOLI, 1763)	26.VII.1997	1	11g
		22.IX.1998	2	1c
Orobitidinae				
254	<i>Orobitis nigrinus</i> REITTER, 1885	21.VI.2002	1	17b
DRYOPHTHORIDAE				
Rhynchophorinae				
Litosomini				
255	<i>Sitophilus granarius</i> (LINNAEUS, 1758)	29.IX.1996	1	10d
ERIRHINIDAE				
Erirhininae				
Erirhinini				
256	<i>Grypus equiseti</i> (FABRICIUS, 1775)	9.VII.1997	1	11e
		24.VI.1998	1	7c
257	<i>Notaris aterrimus</i> (HAMPE, 1850)	1.VI.1998	1	7b
NANOPHYIDAE				
Nanophyinae				
Nanophyini				
258	<i>Nanophyes brevis</i> BOHEMAN, 1845	14.VII.2002	1	22c
259	<i>Nanophyes marmoratus</i> (GOEZE, 1777)	18.VI.1997	1	11e
RHYNCHITIDAE				
Rhynchitinae				
Byctiscini				
260	<i>Byctiscus betulae</i> (LINNAEUS, 1758)	1-2.VI.1998	2	7f, g
261	<i>Byctiscus populi</i> (LINNAEUS, 1758)	7.VII.1995	1	19c
		25.VII.1997	1	11f
Deporaini				
Deporaina				
262	<i>Deporaus (s. str.) betulae</i> (LINNAEUS, 1758)	17.V.1997	14	2a, b
		16-18.VI.1997	46	11b, c, f

	Families, subfamilies, tribe, subtribe, species	Date	No.	Sampling sites*
			ind.	
262	<i>Deporaus (s. str.) betulae</i> (LINNAEUS, 1758)	25.VII.1997	2	11a, f
		23.V.1998	12	7b; 8a, c, d
		1-2.VI.1998	5	1a; 7b, g
		24.VI.1998	4	7c, e; 8b
		1.VI.2002	3	18c
Rhynchitini				
Rhynchitina				
263	<i>Haplorhynchites (Teretriorhynchites) caeruleus</i> (DE GEER, 1775)	22.VI.2002	1	16c
264	<i>Involvulus (s. str.) aethiops</i> BACH 1854	28.VI.1996	2	10a
		25.VII.1997	2	11b
265	<i>Involvulus (s. str.) cupreus</i> (LINNAEUS, 1758)	2.VI.1998	1	3a
266	<i>Neocoenorhinus germanicus</i> (HERBST, 1797)	25.VI.1998	2	8f
267	<i>Rhynchites giganteus</i> (KRYNICKI, 1832)	13.VII.2002	2	21c
268	<i>Temnocerus nanus</i> (PAYKULL, 1792)	16.VI.1997	2	11c
		23.V.1998	1	7d
		1.VI.1998	1	7g
		1.VI.2002	1	18c
269	<i>Temnocerus tomentosus</i> (GYLLENHAL, 1839)	24.VI.1998	1	7e

Results and discussions

We recorded 269 species, from 95 genera, 16 subfamilies and 7 families of Curculionioidea superfamily (table 1) that represent 21.59% of the Romanian snout-beetles fauna.

The most represented families were: Curculionidae (200 species) and Apionidae (53 species) (fig. 2, table 1), and the most represented subfamilies were: Entiminae (79 species), Apioninae (53 species), Curculioninae (47 species) and Ceutorhynchinae (31 species). The poorly represented subfamilies were: Apoderinae, Bagoinae, Cossoninae, Orobittidinae and Rhynchophorinae, each with one species (fig. 3, table 1).

Snout-beetle species new for the Romanian fauna

Family CURCULIONIDAE

Subfamily Ceutorhynchinae

Tribe Ceutorhynchini

Micrelus ericae (GYLLENHAL, 1813)

Collected material: -1♀, 9.VII.1997 -mountain meadow (*Pinetum sylvestris seslerietosum* association), Botanical Reserve Scărița-Belioara, middle basin of the Arieș River

General distribution: - Northern Africa, Europe, only in mountain areas. Amongst neighboring countries of Romania, found only in Hungary (ENDRÖDI 1968, FREUDE et al. 1983, COLONNELLI 2004).

Biology and ecology: - Monovoltine mountain species, oligophagous on *Calluna vulgaris*, *Erica tetralix*, *E. scoparia* and *E. cinerea* (CALDARA

and PESARINI 1980, FREUDE et al. 1983, COLONNELLI 2004).

Snout - beetle species mentioned for the first time for the fauna of Transylvania:

Ceutorhynchus atomus BOH., *C. chlorophanus* ROUGET, *Smicronyx nebulosus* TOURNIER and *Hypera rogenhoferi* (FERRARI).

Rare snout beetle species: *Omphalapion laevigatum* (PAYK.), *Stenopterapion intermedium* (EPELSHEIM), *Oryxolaemus falavifemoratus* (HBST.), *Pelenomus waltoni* (BOH.), *Ceutorhynchus nanus* GYLL., *Datonycus arquatus* (HBST.), *Tychius sharpi* TOURNIER, *Otiorhynchus (s. str.) perdix* (OLIV.), *O. (Magnanotius) schauimi* STIERL., *O. (Elechransus) ormayi* STIERL., *Phyllobius (Pseudomylocers) cinerascens* (FABRICIUS), *Tropiphorus obtusus* (BONSD.), *Donus elegans* (BOH.), *D. maculatus* (W. REDTENBACHER), *Hypera ononidis* (CHEVROLAT) and *Nanophyes brevis* BOH..

Carpathian endemic species: *Otiorhynchus (Prilisvanus) opulentus* GERM. and *O. (Magnanotius) schauimi* STIERL..

Romanian endemic species: *Otiorhynchus (Magnanotius) rufomarginatus* STIERL., rare species

Distribution: -Transylvania (fig. 4):
Data published by other authors: STIERLIN 1861 (quoted by ENDRÖDI 1961), SEIDLITZ 1891, PETRI 1912, ENDRÖDI 1960, 1961. These authors

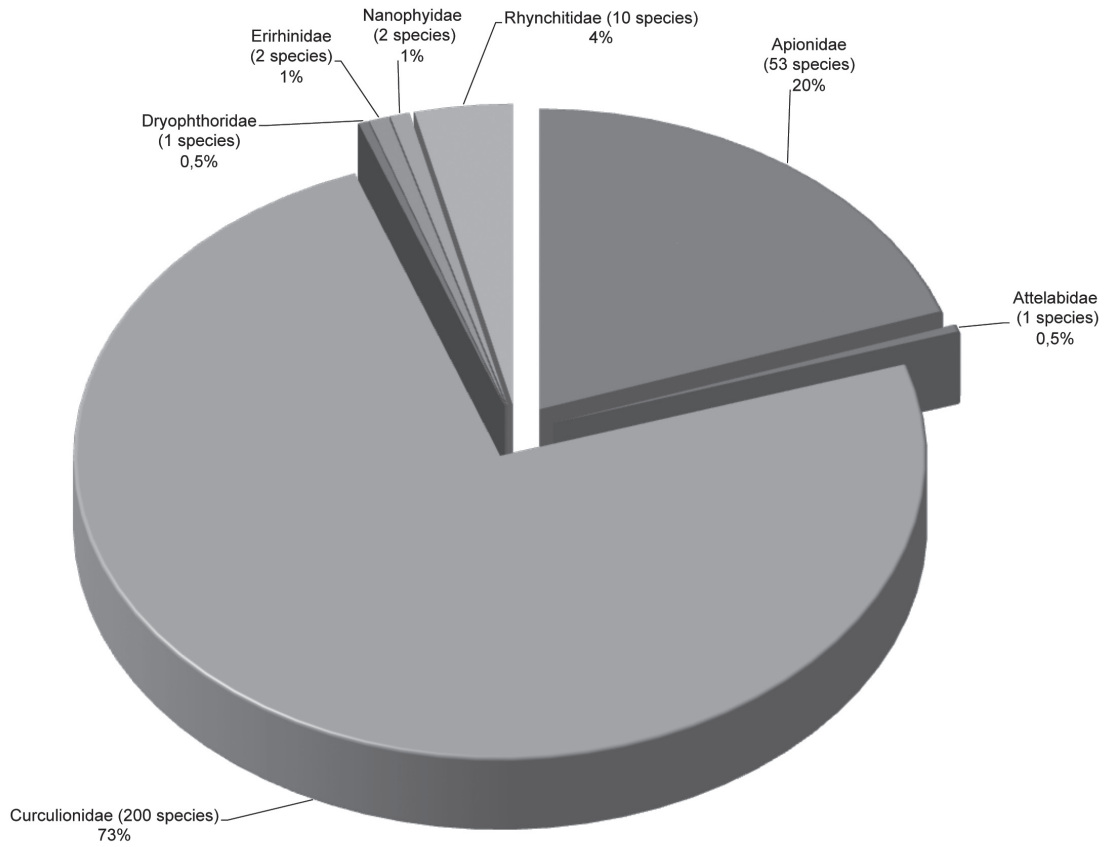


Fig. 2. Composition of the collected material according to Curculionoidea families.

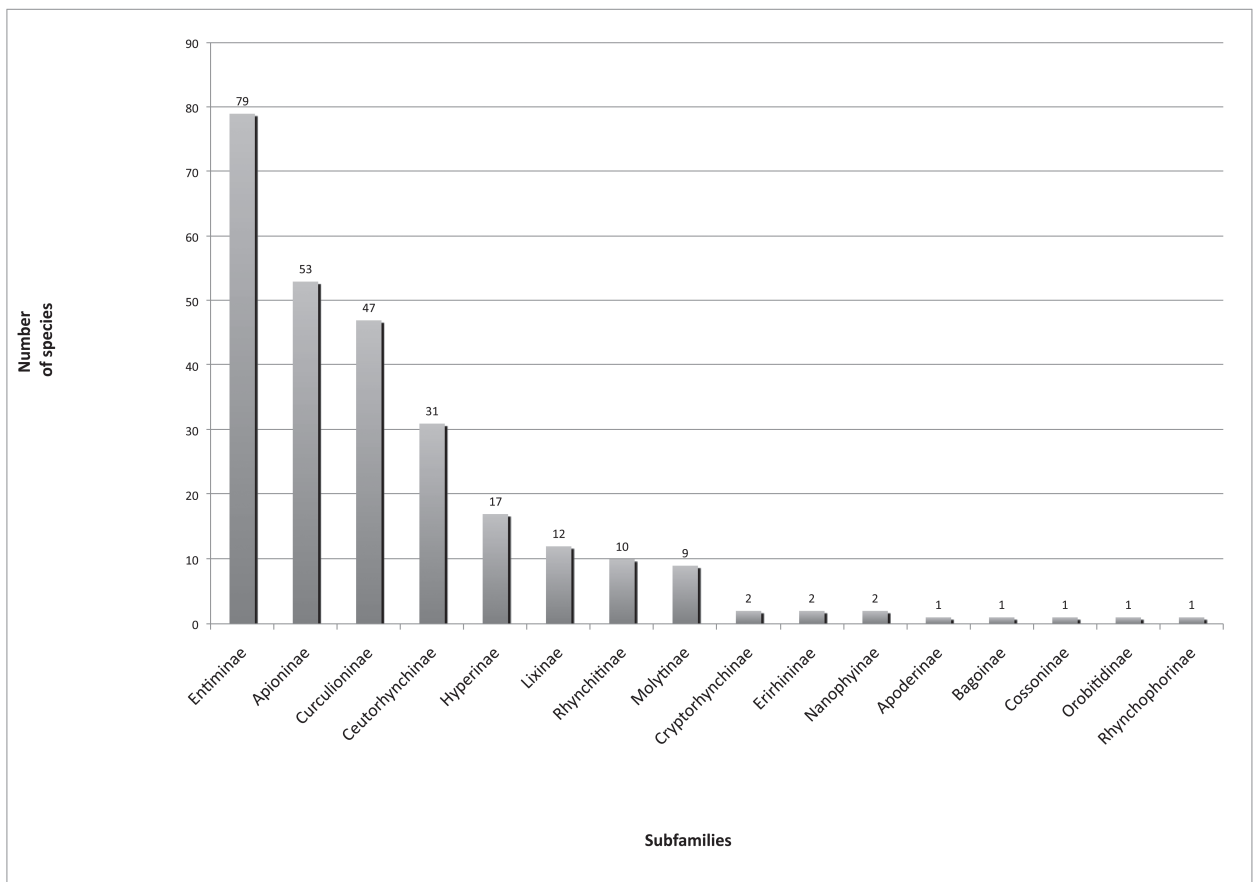


Fig. 3. Composition of the collected material according to Curculionoidea subfamilies.

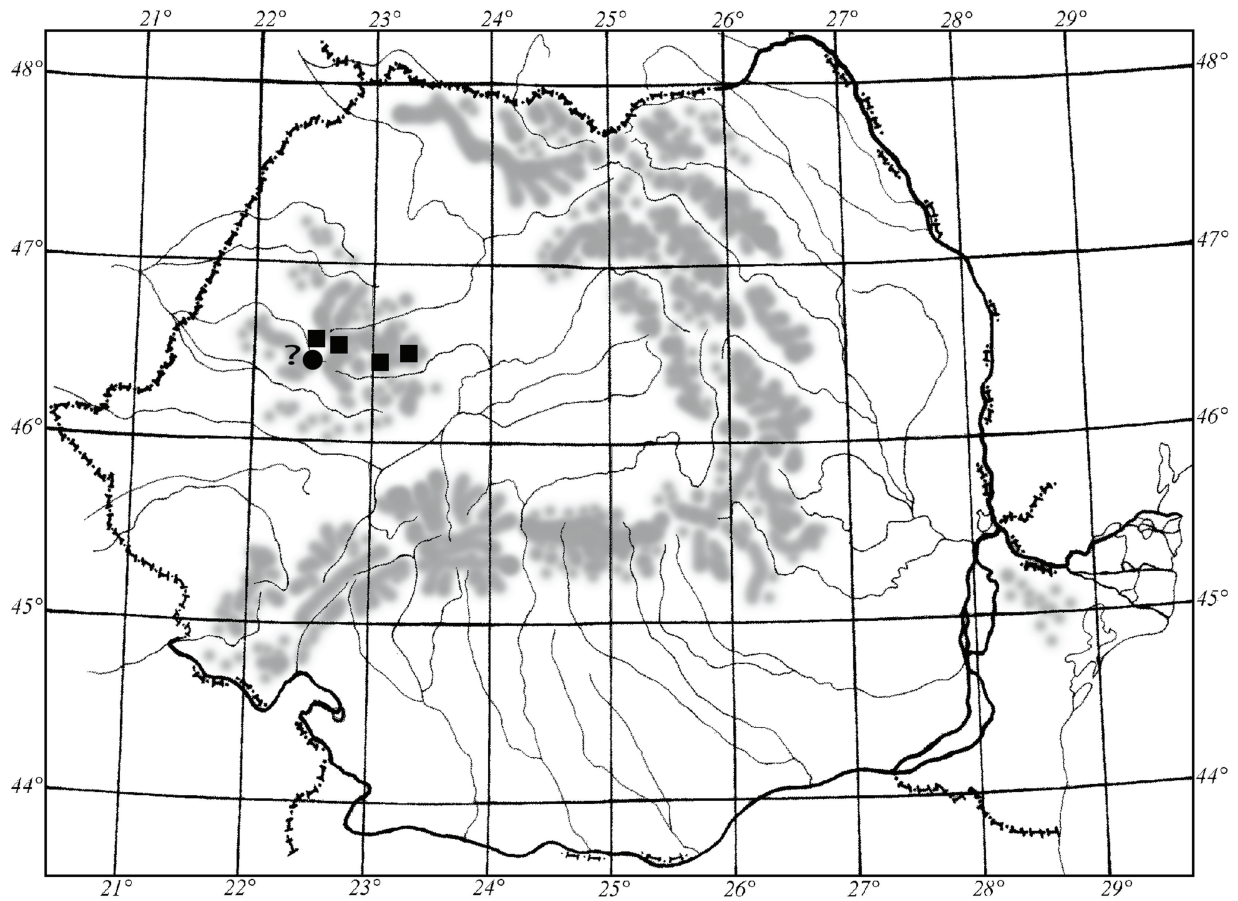


Fig. 4 Distribution of *Otiorynchus (Magnanotius) rufomarginatus* STIERL.:

● = data published by other authors (? = probable location),

■ = our studied places, our data.

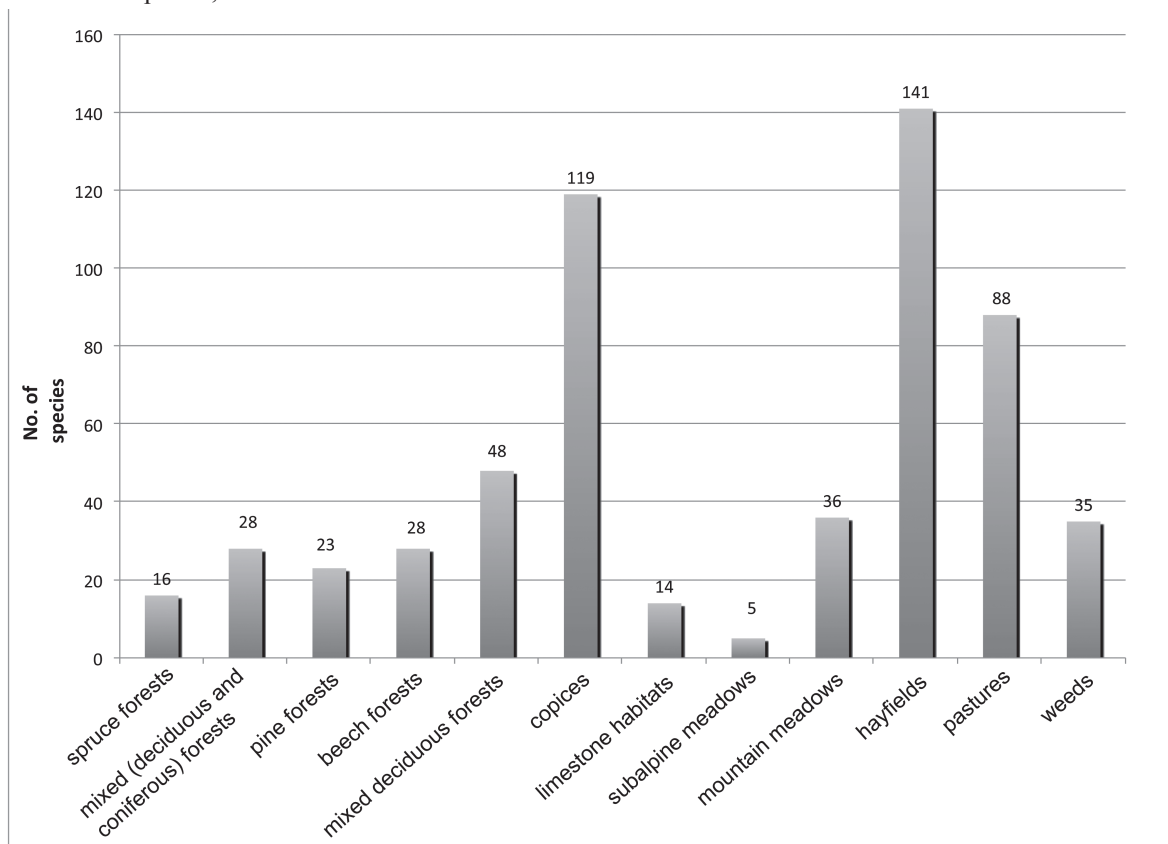


Fig. 5 Distribution of Curculionoidea species among different types of habitats in the middle Arieș River basin.

don't indicate the localities where this species was collected.

Collected material in the middle Arieş River basin area: - 1♀, 23.IV.1998 – *Salicetum* association, **Bistra Valley**; - 1♂, 24.V.1998 -*Alneto-Betulo-Salicetum* association, **Runcului Gorges**.

Data from upper Arieş River basin area: **Casa de Piatră, Fileşti Valley** (TEODOR et al. 2002, TEODOR and CRIŞAN 2004).

Data from upper course of Someşului Cald River area: - **Ponorului Valley - Ic-Ponor, Someşului Cald Gorges** (TEODOR et al. 1999, CRIŞAN et al. 1999, TEODOR and CRIŞAN 2002).

In the middle Arieş River basin the highest number of species was found in hayfields (141 species), followed by coppices (119 species), pastures (88 species), mixed deciduous forests (48 species), mountain meadows (36 species), weeds (35 species), mixed forests of coniferous and deciduous trees (28 species), beech forests (28 species) and pine forests (23 species). In the spruce forests we found only 16 snout-beetle species, in limestone habitats only 14 species and the lowest number of snout-beetle species was found in subalpine meadows, only 5 species (fig. 5).

Conclusions

The high number of identified snout-beetle species (268 species) and the significant number of rare and endemic species, emphasise the importance of the studied area from Curculionoidea fauna point of view.

The high biodiversity and the presence of endemic and rare species in this area, justify the need for the protection of the habitats in which these snout-beetle species live. We can protect these habitats keeping the traditional activities at the actual level and not cutting irrationally the wood.

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