

LAUXANIIDAE OF SLOVAKIA, FAUNISTIC NOTES AND SEASONAL DYNAMICS OF SELECTED SPECIES

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Abstract: The study presents results of faunistic research of Lauxaniidae in Slovakia. Two species, *Homoneura tesquae* (Becker, 1895), and *Minettia subvittata* Loew, 1847, are reported for the first time from Slovakia. Altogether, 68 species belonging to 19 genera are listed. Seasonal dynamics of chosen species is presented and discussed.

Key words: Diptera, Lauxaniidae, faunistics, seasonal dynamics.

INTRODUCTION

Lauxaniidae is a numerous acalyptrate family distributed mainly in the tropics. In Europe, there are less than 180 species known (MERZ 2003a). Adults are yellowish to dark, middle-sized, gentle flies. In the field they are sedentary and shade loving, usually resting on vegetation near streams and marshes (SHEWELL 1987). Larvae are saprophagous, often mining in leaf litter (MILLER 1977a,b; HENNIG 1952). According to PAPP & SHATALKIN (1998), the Lauxaniidae were abandoned group of flies for decades. An extensive faunistic research carried out in main geographic regions of Slovakia by the Institute of Zoology SAS resulted in a numerous material including Lauxaniidae. In this work we present unpublished faunistic records for most of Slovak Lauxaniidae, including three species previously not recorded from Slovakia. In some species number of individuals was enough to carry out graph of seasonal dynamics.

MATERIAL AND METHODS

A considerable part of Lauxaniidae specimens was obtained by Malaise traps (marked as MT). Data from study area Šúr nature reserve were obtained by 4 traps situated in different communities: Pannonian oak–hornbeam woods (Quercetum), alder fen woods (Alnetum), salt meadow covered by subhalophil vegetation and wetland, a nonforest, underflooded community placed in Quercetum. MT from study area Bučany was situated in an orchard, in wider environment was numerously represented *Acer campestre*. Next study area was situ-

ated in Rokoš (the Strážovské vrchy Mts), covered by xerophilous meadows neighbouring with calciphilous beech woods. Study area Suché doly (the Muránska planina Mts), was situated in mountain meadow surrounded by beech forest. Study area Čremošná – Tisovec (the Muránska planina Mts) was covered by vast mowed mezophilous meadows enclosed by mixed forests. Study area Ihráč (the Štiavnické vrchy Mts) was situated in extensive end of garden surrounded by spring area and in wider area by mixed forests.

The rest comes from private collection of Dr. M. Kozánek – Bratislava (MK). Altogether more than 5 thousands of individuals are included. The material was mainly determined using a key of PAPP (1979). Several specimens were identified using recent taxonomic studies (PAPP 1987, MERZ 2001, 2003b, 2004).

RESULTS

Faunistic records

Homoneurinae

Homoneura dilecta (Rondani, 1868) = *H. notata* Papp

Podunajská rovina: Šúr (7769), 1.7.2008, 1♂, MT; 4.7.2008, 1♂, MT; 15.7.2008, 1♂, MT; 24.7.2008, 1♂, MT; 12.8.2008, 1♂, MT; 29.8.2008, 1♂, MT; 5.9.2008, 1♂, MT; 19.9.2008, 1♂, MT; 7.10.2008, 1♂, MT. Malé Karpaty: Bratislava – Lamač (7768), 3.8.1980, 1♂, leg. MK. Považský Inovec: Lúka (7373), 27.9.–4.10.1999, 1♂, MT. Muránska planina: Paseky (7385), 14.8.2001, 1♂, MT; 28.9.2001, 1♀, MT.

***Homoneura limnea* (Becker, 1845)**

Podunajská rovina: Šúr (7769), 15.6.2008, 3♀, MT; 1.7.2008, 2♂, 3♀, MT; 8.7.2008, 3♂, MT; 15.7.2008, 2♂, 1♀, MT; 29.8.2008, 1♂, MT; 5.9.2008, 4♂, 1♀, MT; 19.9.2008, 1♂, 2♀, MT.

***Homoneura mediospinoza* Merz, 2003 = *H. interstincta* auctt. nec Fallén, 1820**

Borská nížina: Šaštín (7368), 8.–9.7.1999, 1♂, leg. MK. Malé Karpaty: Bratislava – Lamač (7768), 5.6.1979, 1♂, leg. MK. Podunajská rovina: Šúr (7769), 5.9.2008, 1♀, MT; 19.9.2008, 4♀, MT. Strážovské vrchy: Bindárka (7075), 14.8.1985, 1♂, leg. MK; Rokoš (7276), 5.6.2008, 1♂, MT; 28.6.2004, 3♂, 15♀, MT; 7.7.2008, 1♀, MT; 10.7.2008, 1♂, 5♀, MT; 23.7.2008, 7♂, 16♀, MT; 1.8.2008, 1♂, 8♀, MT; 16.8.2008, 5♂, 9♀, MT; 19.8.2008, 4♂, 3♀, MZ; 21.8.2008, 1♀, MT. Muránska planina: Suché doly (7385), 5.6.2003, 1♂, MT; 20.6.2003, 1♀, MT; 29.6.2004, 4♀, MT; 4.7.2003, 1♂, 2♀, MT; 13.7.2003, 1♂, 1♀, MT; 20.7.2003, 1♂, 6♀, MT; 27.7.2003, 6♀, MT; 9.8.2003, 2♀, MT; 8.12.2003, 1♂, MT; Tisovec – Čremošná (7385), 4.7.2004, 1♂, 4♀, MT; 5.7.2004, 1♀, MT; 10.7.2004, 1♂, 1♀, MT; 7.8.2004, 1♀, MT; Paseky (7385), 21.6.2001, 1♂, 1♀, MT; 29.6.2001, 3♂, MT; 4.7.2001, 1♀, MT; 10.7.2001, 1♂, MT; 13.7.2001, 1♀, MT; 3.8.2001, 1♀, MT; 10.8.2001, 1♂, MT; 14.8.2001, 1♂, MT; 17.8.2001, 1♂, MT. Bodvianska pahorkatina: Dmica (7588), 8.6.1979, 1♀, leg. MK.

***Homoneura notata* (Fallén, 1820) = *H. subnotata* Papp**

Borská nížina: Jakubov (7567), 2.8.1981, 1♂, leg. MK. Trnavská pahorkatina: Bučany (7572), 19.–29.8.2007, 1♂, MT. Podunajská rovina: Šúr (7769), 1.7.2007, 1♂, MT; 15.7.2007, 3♂, MT; 20.7.2007, 1♂, MT; 22.7.2007, 1♂, MT; 12.8.2007, 6♂, MT; 26.8.2007, 2♂, MT; 29.8.2007, 1♂, MT; 5.9.2007, 1♂, MT; Ivanka pri Dunaji (7277), 5.7.1985, 1♂, leg. MK.

***Homoneura patelliformis* (Becker, 1895)**

Trnavská pahorkatina: Bučany (7572), 1.–9.7.2007, 1♂, MT; 18.–28.7.2007, 1♂, MT.

***Homoneura remmi* Papp, 1978**

Trnavská pahorkatina: Bučany (7572), 3.–10.6.2007, 1♂, MT; 10.–17.6.2007, MT; 24.6.–1.7.2007, MT; 1.–9.7.2007, 2♂, MT; 9.–18.7.2007, 1♂, MT; 28.7.–5.8.2007, MT.

***Homoneura tesquae* (Becker, 1895)**

Trnavská pahorkatina: Bučany (7572), 18.–24.6.2007, 1♂, MT.

Note. Little known species (PAPP 1979). First record from Slovakia.

***Homoneura thalhammeri* Papp, 1978**

Trnavská pahorkatina: Bučany (7572), 18.–24.6.2007, 1♂, MT. Strážovské vrchy: Rokoš (7276), 16.8.2007, 1♂, MT.

Lauxaniinae

***Aulogastromyia anisodactyla* (Loew, 1845)**

Borská nížina: Jakubov (7567), 27.8.1978, 1♂, 3♀, leg. MK. Malé Karpaty: Bratislava – Lamač (7768), 23.8.1978, 1♀, leg. MK. Podunajská rovina: Šúr (7769), 11.6.1975, 1♂, leg. MK; 5.9.2008, 1♀, MT. Trnavská pahorkatina: Bučany (7572), 6.–30.10.2007, 2♂, MT. Považský Inovec: Lúka (7373), 23.–30.8.1999, 1♀, MT. Strážovské vrchy: Rokoš (7276), 16.8.2008, 1♂, MT. Krupinská planina: Ipeľské Úľany (7880), 31.5.1980, 1♂, 1♀, leg. MK. Veľká Fatra: Mošovce (7079), 29.7.1992, 1♂, MT; 12.8.1992, 1♀, MT; 19.8.1992, 1♂, MT. Muránska planina: Paseky (7385), 14.9.2001, 4♀, MT; 21.9.2001, 1♀, MT. Bodvianska pahorkatina: Dmica (7588), 8.6.1979, 1♂, leg. MK.

***Calliopum aeneum* (Fallén 1820)**

Borská nížina: Jakubov (7567), 2.8.1981, 1♀, leg. MK. Malé Karpaty: Devínska Kobyla (7867), 22.5.1990, 1♀, leg. MK; Bratislava – Lamač (7768), 28.5.1979, 1♂, leg. MK; 5.6.1979, 1♂, leg. MK; Buková (7470), 19.8.1997, 1♀, leg. MK. Podunajská rovina: Šúr (7769), 1.7.2008, 1♀, MT; 7.7.2008, 1♀, MT; 12.8.2008, 1♂, MT; 19.9.2008, 8♀, MT; 7.10.2008, 1♂, 1♀, MT; 21.10.2008, 2♀, MT; Ivanka pri Dunaji (7869), 30.5.1979, 2♂, leg. MK; Podunajské Biskupice (7869), 14.6.1976, 1♀, leg. MK; Cífer (7670), 2.8.1978, 1♀, leg. MK. Trnavská pahorkatina: Modra (7669), 3.9.1977, 1♂, leg. Gabel; Bučany (7572), 13.–20.5.2007, 1♂, 2♀, MT. Považský Inovec: Beckov (7273), 20.8.1991, 1♂, leg. MK; Lúka (7373), 13.–20.6.1999, 1♂, MT. Strážovské vrchy: Horná Poruba – Vápeč (7075) stredné Slovensko. 26.8.1997, 1♀, leg. MK; Bindárka (7075), 14.8.1985, 1♂, leg. MK; Trubárka (7075), 30.7.1985, 1♂, leg. MK; Rokoš (7276), 5.6.2008, 2♂, 1♀, MT; 28.6.2008, 15♂, MT; 23.7.2008, 1♂, 1♀, MT; 16.8.2008, 11♂, MT; 19.8.2008, 4♂, MT. Hornonitrianska kotlina: Bojnice (7277), 15.8.1979, 1♂, leg. MK; 20.8.1991, 1♀, leg. MK; Prievidza (7277), 8.6.1980, 1♀, leg. MK. Kremnické vrchy: Ihráč (7379), 20.–30.6.1996, 1♀, MT; 10.–20.10.1996, 1♀, MT. Krupinská planina: Ipeľské Úľany (7880), 31.5.1989, 1♂, leg. MK. Ipeľská kotlina: Dolné Strháre (7782), 31.5.1971, 1♂, leg. MK. Veľká Fatra: Mošovce (7079), 29.7.1992, 2♂, MT; 16.8.1992, 1♂, MT; 19.8.1992, 2♂, MT; 22.8.1992, 3♂, 1♀, MT; 28.8.1992, 3♂, 2♀, MT; 30.8.1992, 1♂, MT; 6.9.1992, 8♂, 1♀, MT; 8.9.1992, 1♀, MT; 16.9.1992, 1♂, MT; 18.9.1992, 1♂, MT. Turčianska kotlina: Martin (6979), 13.6.1980, 1♀, leg. Moravčík. Muránska planina: Suché doly (7385), 5.6.2003, 1♂, MT; 12.6.2003, 1♂, MT; 27.7.2003, 1♀, MT; 2.8.2003, 1♂, MT; 26.9.2003, 1♀, MT; Tisovec – Čremošná (7385), 4.7.2004, 1♂, MT; 23.8.2004, 2♂, 1♀, MT; 1.9.2004, 4♂, 2♀, MT; 19.9.2004, 3♀, MT; 2.10.2004, 1♂, 2♀, MT; 23.10.2004, 1♀, MT; Paseky (7385), 22.6.2001, 1♂, MT; 14.8.2001, 1♂, MT; 24.8.2001, 2♂, MT; 31.8.2001, 2♂, MT; 7.9.2001, 4♂, 2♀, MT; 14.9.2001, 3♂, 1♀, MT; 21.9.2001, 1♂, 1♀, MT;

5.10.2001, 3♂, 1♀ MT; 12.10.2001, 3♀ MT. Slovenský kras: Kečovo (7588), 9.6.1971, 1♂, leg. MK.

***Calliopum elisae* (Meigen, 1826)**

Borská nížina: Jakubov (7567), 2.8.1981, 1♂ leg. MK. Podunajská rovina: Šúr (7769), 11.6.1978, 1♂, leg. MK; 24.5.1990, 1♂, leg. MK; Podunajské Biskupice (7869), 30.5.1978, 1♀, leg. MK; Malé Karpaty: Bratislava – Lamač, (7768), 3.8.1980, 1♂, leg. MK. Strážovské vrchy: Bindárka (7075), 30.7.1985, 1♀, leg. MK. Veľká Fatra: Mošovce (7079), 29.7.1992, 1♂, MT; 22.8.1992, 1♀, MT; Liptovská Kotlina: Kvačany (6883), 26.7.1990, 1♂, leg. MK; Liptovský Ján (6984), 11.7.1976, 1♂, leg. MK. Muránska planina: Suché doly (7385), 20.6.2003, 1♀, MT; 29.6.2003, 1♂, MT; 13.7.2003, 1♂, 1♀, MT; 20.7.2003, 3♂, 6♀, MT; 27.7.2003, 1♂, 2♀, MT; 2.8.2003, 1♀, MT; 9.8.2003, 1♀, MT. Popradská kotlina: Štrba (6986), 8.7.1990, 1♂, MT, leg. MK.

***Calliopum simillimum* (Collin, 1933)**

Borská nížina: Láb (7667) 30.6.1976, 1♂, leg. MK; Jakubov (7567), 2.8.1987, 1♂, leg. MK. Podunajská rovina: Bratislava (7868), 26.8.1976, 1♀, leg. MK; Kopáč (7968), 5.10.1990, 1♀, leg. MK; Podunajské Biskupice (7869), 14.6.1976, 1♀, leg. MK; 30.5.1978, 1♀, leg. MK; Ivanka pri Dunaji (7869), 20.5.1979, 1♂, leg. MK; Šúr (7769), 14.6.1988, 1♂, leg. MK; 25.7.1988, 2♂, leg. MK; 31.8.1988, 1♂, 2♀, leg. MK; 15.6.2008, 5♂, 6♀, MT. Podunajská rovina: Senec (7770), 18.7.1980, 1♂, leg. MK. Trnavská pahorkatina: Bučany (7572), 13.–20.5.2007, 3♂, 3♀, MT. Považský Inovec: Lúka, (7373), 20.–27.9.1999, 2♂, MT; 20.–27.9.1999, 1♂, MT; 11.–18.10.1999, 1♂, MT. Strážovské vrchy: Rokoš (7276), 23.7.2008, 1♀, MT. Štiavnické vrchy: Ihráč (7379), 1.–10.4.1996, 1♀, MT; 20.–30.4.1996, 1♀, MT; 10.–20.9.1996, 2♀, MT; 20.–30.9.1996, 1♂, 1♀, MT; 1.–10.10.1996, 1♂, MT; 10.–20.10.1996, 3♂, 4♀, MT; 1.10.11.1996, 1♂, 2♀, MT. Štiavnické vrchy: Banská Belá (7579), 14.10.1996, 1♂, leg. MK. Ipeľská kotlina: Kiarov (7872), 24.6.1994, 2♀, leg. MK. Veľká Fatra: Mošovce (7079), 29.7.1992, 2♂, MT. Muránska planina: Tisovec – Čremošná (7385), 22.6.2004, 1♂, MT; 4.7.2004, 1♀, MT; 5.7.2004, 4♂, 1♀, MT; 10.7.2004, 1♀, MT; 22.7.2004, 2♂, MT; 23.8.2004, 18♂, 7♀, 1.9.2004, 10♂, MT; 19.9.2008, 5♂, 5♀, MT; 2.10.2004, 11♂, MT; 7.10.2004, 1♂, MT; 23.10.2004, 6♂, 4♀, MT; Suché doly (7385), 20.6.2003, 1♂, MT; 4.7.2003, 1♂, MT; 13.7.2003, 1♂, MT; 27.7.2003, 1♂, 1♀, MT; 9.8.2003, 3♂, 2♀, MT; Paseky (7385), 13.7.2001, 1♂, MT; 24.8.2001, 2♂, MT; 7.9.2001, 1♂, MT; 14.9.2001, 1♀, MT; 21.9.2001, 1♂, MT; 5.10.2001, 2♀, MT; 12.10.2001, 3♂, 2♀, MT; 19.10.2001, 1♂, MT.

***Calliopum splendidum* Papp, 1978**

Podunajská rovina: Šúr (7769), 25.7.1988, 1♂, leg. MK. Muránska planina: Paseky (7385), 4.7.2001, 2♂, MT; 21.8.2001, 1♂, MT.

***Eusapromyza multipunctata* (Fallén, 1820)**

Podunajská rovina: Bratislava (7868), 15.7.1979, 1♀, leg. MK; Ivanka pri Dunaji (7869), 15.6.1984, 1♂, ♀; 5.7.1985, 1♀, leg. MK; Šúr (7769), 29.6.1979, 2♀; 2.8.1989, 1♂, ♀, leg. MK; (7772), 18.7.1980, 3♀, leg. MK. Trnavská pahorkatina: Bučany (7572), 25.4.–6.5.2007, 1♂, MT; 10.–17.6.2007, 1♂, MT; 1.–9.7.2007, 1♂, 1♀, MT; 9.–18.7.2007, 1♂, MT; 5.–12.8.2007, 2♀, MT; 12.–19.8.2007, 1♂, 1♀, MT; 29.8.–16.9.2007, 1♀, MT; 16.9.–6.10.2007, 2♂, 1♀, MT; 6.–30.10.2007, 1♂, MT.

***Lauxania cylindricornis* (Fabricius, 1794)**

Borská nížina: Láb (7667), 2.5.1975, 1♂, leg. MK; Jakubov (7567), 4.6.1978, 1♂, leg. MK. Malé Karpaty: Devínska Kobyla (7867), 22.5.1979, 1♂, leg. MK; Bratislava – Lamač (7768), 18.5.1982, 1♂, leg. MK. Podunajská rovina: Bratislava (7868), 5.5.1974, 1♀, leg. MK; Podunajské Biskupice (7869), 13.5.1980, 1♂, leg. MK. Trnavská pahorkatina: Nové Mesto nad Váhom (7272), 15.5.1980, 1♀, leg. MK. Považský Inovec: Lúka (7373), 30.5.–6.6.1999, 1♀, MT. Strážovské vrchy: Bindárka (7075), 14.5.1985, 1♂, leg. MK; Trubárka (7075), 14.5.1985, 1♂, leg. MK. Turzovská vrchovina: Klokočov (6577), 27.5.1982, 1♂, leg. MK. Ipeľská kotlina: Dolné Strháre (7782), 29.5.1980, 1♂, 1♀, leg. MK. Veľká Fatra: Stankovany (6881), 29.5.1985, 2♂, leg. MK. Liptovská kotlina: Liptovský Ján (6984), 17.6.1991, 1♂, 1♀ leg. MK. Muránska planina: Suché doly (7385), 12.6.2003, 1♂, 1♀, MT; Tisovec – Čremošná (7385), 5.6.2003, 1♀, MT; 22.6.2004, 1♀, MT.

***Lauxania minor* Martínek, 1974**

Malé Karpaty: Devínska Kobyla (7867), 22.5.1990, 2♂, 3♀, leg. MK. Malé Karpaty: Devínska Kobyla (7867), 7.5.1990, 1♂, 1♀, leg. MK. Malé Karpaty: Bratislava – Lamač (7768), 18.5.1982, 1♂, leg. MK. Považský Inovec: Lúka (7373), 16.–24.5.1999, 1♂, MT; 30.5.–6.6.1999, 1♂, MT. Považské podolie: Turecký vrch (7173), 15.5.1990, 1♀, leg. MK.

Strážovské vrchy: Trubárka (7075), 14.5.1985, 1♀, leg. MK; Timoradza (7175), 4.–17.5.2007, 1♀, MT. Ipeľská kotlina: Kiarov, (7882), 1.6.1990, 1♂, leg. MK. Muránska planina: Paseky (7385), 4.7.2001, 1♀ MT. Bodvianska pahorkatina: Domicia (7588), 8.6.1974, 1♀, leg. MK.

***Lyciella affinis* (Zetterstedt, 1847)**

Malé Karpaty: Bratislava – Lamač (7768), 18.6.1978, 1♂, leg. MK; 28.5.1982, 3♂, leg. MK. Strážovské vrchy: Bindárka (7075), 17.7.1986, 1♀, leg. MK. Kremnické vrchy: Ihráč (7379), 10.–20.10.1996, 2♂, 1♀, MT; 1.–10.11.1996, 1♀, MT. Veľká Fatra: Mošovce (7079), 4.6.1992, 2♂, MT; 15.6.1992, 1♀, MT; 14.7.1992, 2♂, MT; 24.7.1992, 7♂, 3♀, MT; 24.7.1992, 3♂, MT; 29.7.1992, 1♂, MT; 12.8.1992, 1♂, MT; 17.8.1992, 3♂, 1♀, MT; 18.8.1992, 2♂, MT; 19.8.1992, 1♀, MT; 22.8.1992, 6♂, 2♀ MT; 28.8.1992, 2♂, MT. Chočské vrchy: Lúčky (6882), 5.8.1991, 1♂, leg. leg.

MK; Veľký Choč (6882), 18.6.1976, 1♀, leg. MK. Liptovská kotlina: Liptovská Ján (6984), 6.8.1981, 1♂, leg. MK; 17.6.1991, 1♀, leg. MK. Muránska planina: Paseky (7385), 12.10.2001, 2♂, MT; 28.9.2001, 2♂, MT; 5.10.2001, 1♂, MT; 19.10.2001, 1♂, MT. Popradská kotlina: Štrba (6986), 10.7.1990, 1♂, leg. MK.

***Lyciella conjugata* (Becker, 1895)**

Strážovské vrchy: Trubárka (7075), 13.9.1985, 1♂, leg. MK; Rokoš (7276), 16.8.2008, 1♂, MT; 19.8.2008, 1♂, MT. Kremnické vrchy: Ihráč (7379), 10.–20.10.1996, 1♂, MT; 10.–20.10.1996, 1♂, MT. Veľká Fatra: Mošovce (7079), 12.7.1992, 1♂, MT; 17.8.1992, 1♂, MT; 20.8.1992, 2♂, MT; 22.8.1992, 1♂, MT. Muránska planina: Tisovec – Čremošná (7385), 5.7.2004, 1♂, MT; 23.8.2004, 1♂, MT; 19.9.2004, 2♂, MT; 2.10.2004, 4♂, MT; Paseky (7385), 29.6.2001, 2♂, MT; 7.9.2001, 1♂, MT; 14.9.2001, 3♂, MT; 5.10.2001, 1♂, MT; 19.10.2001, 1♂, MT.

***Lyciella decempunctata* (Fallén, 1820)**

Podunajská rovina: Šúr (7769), 15.6.2008, 1♂, 3♀, MT; 26.8.2008, 1♂, 1♀, MT. Malé Karpaty: Devínska Kobyla (7867), 22.5.1979, 1♀, leg. MK; Bratislava – Lamač (7768), 18.6.1978, 1♀, leg. MK; 23.6.1979, 1♀, leg. MK; 19.7.1979, 1♂, leg. MK; 28.5.1982, 1♂, leg. MK; 17.5.1983, 1♂, leg. MK. Trnavská pahorkatina: Nové Mesto nad Váhom (7272), 15.5.1990, 1♀, leg. MK. Považský Inovec: Lúka (7373), 23.–30.8.1999, 1♂, MT; 2.–9.8.1999, 1♀, MT. Strážovské vrchy: Bindárka (7075), 14.8.1985, 1♀, leg. MK; Rokoš (7276), 28.6.2008, 2♂, 1♀, MT; 16.8.2008, 1♀, MT; 19.8.2008, 1♀, MT; 21.8.2008, 1♂, MT; 11.9.2008, 1♂, 1♀, MT; 25.9.2008, 1♂, 1♀, MT. Kremnické vrchy: Ihráč (7379), 1.–10.7.1996, 1♀, MT; 1.–10.9.1996, 1♀, MT; 10.–20.9.1996, 3♂, MT; 20.–30.9.1996, 1♀, MT; 10.–20.10.1996, 1♂, MT. Veľká Fatra: Mošovce (7079), 20.7.1992, 1♂, 1♀, MT; 24.7.1992, 1♂, 2♀, MT; 29.7.1992, 3♂, MT; 6.8.1992, 1♀, MT; 10.8.1992, 2♂, 1♀, MT; 17.8.1992, 1♂, 1♀, MT; 30.8.1992, 1♀, MT. Krupinská planina: Horné Plachtince (7781), 31.5.1990, 1♂, leg. MK. Muránska planina: Tisovec – Čremošná (7385), 22.6.2004, 1♂, 2♀, MT; 5.7.2004, 4♀, MT; 22.7.2004, 2♂, MT; 1.8.2004, 2♂, 1♀, MT; 23.8.2004, 3♂, 4♀, MT; 1.9.2004, 2♂, 2♀, MT; 19.9.2004, 5♂, 8♀, MT; 2.10.2004, 4♂, 7♀, MT; 7.10.2004, 2♂, 4♀, MT; 23.10.2004, 1♂, 3♀, MT; Suché doly (7385), 5.6.2003, 1♀, MT; 12.6.2003, 1♀, MT; 29.6.2003, 1♀, MT; 4.7.2003, 1♂, MT; 27.7.2003, 1♂, MT; 26.9.2003, 1♂, MT; 3.10.2003, 1♀, MT; Paseky (7385), 22.6.2001, 1♂, MT; 24.8.2001, 1♂, 1♀, MT; 7.9.2001, 1♀, MT; 14.9.2001, 3♂, 1♀, MT; 21.9.2001, 1♀, MT; 28.9.2001, 2♂, 1♀, MT; 5.10.2001, 4♂, 2♀, MT; 12.10.2001, 1♂, 1♀, MT.

***Lyciella decipiens* (Loew, 1847)**

Podunajská rovina: Šúr (7769), 9.6.1978, 1♂, leg. MK; 11.6.1978, 2♂, 3♀, leg. MK; 26.9.1979, 1♀, leg. MK; Šúr (7769), 8.7.2008, 1♂, MT; 22.7.2008, 2♂, MT. Malé Karpaty: Bratislava – Lamač (7768), 23.6.1979, 1♂, 1♀, leg. MK; 29.6.1979, 1♀, leg.

MK. Považský Inovec: Lúka (7373), 19.–26.7.1999, 1♂, 1♀, MT. Kremnické vrchy: Ihráč (7379), 20.–30.5.1996, 1♀, MT; 10.–20.8.1996, 1♀, MT; 10.–20.9.1996, 1♂, MT. Veľká Fatra: Mošovce (7079), 8.7.1992, 1♀, MT; 12.7.1992, 1♂, MT; 14.7.1992, 2♂, MT; 29.7.1992, 1♂, MT. Podtatranská brázda: Zuberec (6783), 22.7.1990, 1♀, leg. MK. Muránska planina: Suché doly (7385), 29.6.2003, 3♂, 1♀, MT; 13.7.2003, 2♂, MT; 27.7.2003, 2♂, MT; 9.8.2003, 1♂, MT.

***Lyciella illota* (Loew, 1847)**

Kremnické vrchy: Ihráč (7379), 20.–30.4.1996, 1♂, MT; 20.–30.6.1996, 1♂, MT; 10.–20.10.1996, 1♂, MT. Veľká Fatra: Mošovce (7079), 29.6.1992, 1♂, MT; 9.7.1992, 1♂, MT; 19.7.1992, 1♂, MT; 6.8.1992, 1♂, MT; 29.8.1992, 1♂, MT. Podtatranská brázda: Zuberec (6783), 22.7.1990, 1♂, leg. MK. Muránska planina: Tisovec – Čremošná (7385), 19.9.2004, 1♂, MT.

***Lyciella laeta* (Zetterstedt, 1838)**

Chočské vrchy: Veľký Choč (6882) 18.6.1976, 1♂, leg. MK. Liptovská kotlina: Liptovská Ján (6984), 17.6.1991, 3♂, 3♀, leg. MK; 19.8.1991, 1♂, leg. MK.

***Lyciella myhalyii* Papp, 1978**

Veľká Fatra: Mošovce (7079), 22.6.1992, 1♂, MT; 2.7.1992, 1♂, MT; 9.7.1992, 2♂, MT; 13.7.1992, 1♂, MT; 20.7.1992, 2♂, MT; 24.7.1992, 1♂, MT; 6.8.1992, 2♂, MT; 18.8.1992, 1♂, MT. Podtatranská brázda: Zuberec (6783), 22.7.1990, 1♂, leg. MK. Liptovská kotlina: Liptovský Ján (6984), 6.8.1981, 1♂, leg. MK.

***Lyciella platycephala* (Loew, 1847)**

Podunajská rovina: Šúr (7769), 9.6.1978, 1♀, leg. MK; Šúr (7769), 15.6.2008, 3♂, 3♀, MT. Malé Karpaty: Bratislava – Lamač (7768), 19.7.1979, 1♂, leg. MK; 28.5.1982, 1♂, leg. MK. Ipeľská kotlina: Dolné Strháre (7782), 29.5.1980, 1♀, leg. MK. Strážovské vrchy: Rokoš (7276), 5.6.2008, 1♂, 1♀, MT; 28.6.2008, 14♂, 8♀, MT; 7.7.2008, 2♂, MT; 23.7.2008, 7♂, 2♀, MT; 1.8.2008, 1♀, MT; 16.8.2008, 3♂, MT; 19.8.2008, 4♂, MT; 11.9.2008, 1♂, MT; Trenčianske Mitice, (7174) 16.8.1979, 2♂, leg. MK; Bindárka (7075), 23.5.1989, 1♂, leg. MK; Trubárka (7075), 14.8.1985, 1♀, leg. MK; 8.8.1986, 1♂, leg. MK; Bindárka (7075), 23.5.1989, 1♂, leg. MK; Temeš (7176), 5.8.1979, 1♂, leg. MK. Kremnické vrchy: Ihráč (7379), 10.–20.8.1996, 1♂, MT; 1.–10.10.1996, 1♂, MT; 10.–20.10.1996, 1♂, 1♀, MT. Muránska planina: Suché doly (7385), 5.6.2003, 18♂, 18♀, MT; Tisovec – Čremošná (7385), 6.6.2004, 2♂, 1♀, MT; 13.6.2004, 2♂, MT; 22.6.2004, 2♂, MT; 4.7.2004, 22♂, 16♀, MT; 5.7.2004, 1♂, 1♀, MT; 10.7.2004, 1♂, 1♀, MT; 23.8.2004, 2♂, MT; 19.9.2004, 1♂, 1♀, MT; Paseky (7385), 22.6.2001, 1♂, MT; 29.6.2001, 1♀, MT; 13.7.2001, 1♀, MT; 27.7.2001, 1♂, MT; 3.8.2001, 2♂, MT; 14.8.2001, 3♂, 1♀, MT; 21.8.2001, 4♂, 3♀, MT; 24.8.2001, 5♂, 1♀, MT; 7ix.2001, 3♂, MT;

14.9.2001, 2♂, 3♀, MT; 21-ix.2001, 2♂, MT. Veľká Fatra: Mošovce (7079), 4.6.1992, 1♂, MT; 8.7.1992, 1♀, MT; 10.7.1992, 2♂, MT; 13.7.1992, 1♂, MT; 20.7.1992, 2♂, MT; 24.7.1992, 3♂, MT; 12.8.1992, 1♂, MT; 17.8.1992, 3♂, 1♀, MT; 18.8.1992, 2♂, MT; 22.8.1992, 3♂, 3♀, MT; 28.8.1992, 1♂, MT; 6.9.1992, 1♂, MT; 18.9.1992, 1♀, MT.

***Lyciella rorida* (Fallén, 1820)**

Borská nížina: Láb (7667), 30.6.1976, 1♀, leg. MK; Jakubov (7567), 2.8.1981, 2♀, MK; 27.7.1980, 1♀, leg. MK. Trnavská pahorkatina: Bučany (7572), 1.-9.7.2007, 1♀, MT; 18.-28.7.2007, 1♀, MT; 29.8.-16.9.2007, 2♀, MT; Cífer (7670), 1.8.1978, 1♀, leg. MK. Podunajská rovina: Podunajské Biskupice (7869), 30.9.1978, 1♀, leg. MK; Senec (7770), 18.7.1980, 1♂, 3♀, leg. MK; Šúr (7769), 15.6.2008, 8♂, 3♀, MT. Malé Karpaty: Devínska Kobyla (7867), 2.5.1990, 1♂, leg. MK; Bratislava - Lamač (7768), 18.6.1978, 1♂, leg. MK; 26.7.1980, 1♂, leg. MK; Bratislava - Železná Studnička (7868), 15.10.1990, 3♀, leg. MK; Bratislava - Lamač (7768), 19.9.1991, 1♀, leg. MK; Vinosady (7669), 18.6.1996, 1♂, 2♀, leg. MK. Považský Inovec: Lúka (7373), 10.-16.5.1999, 1♀, MT. Považské podolie: Kamenec - Konopisko (7074), 25.8.2004, 1♂, leg. MK. Strážovské vrchy: Trenčianske Mitice (7174), 16.8.1979, 1♂, leg. MK; Horná Poruba - Vápeč (7075), 26.8.1997, 1♀, leg. MK; Trubárka (7075), 4.7.1986, 1♀, leg. MK; 7276), 25.9.2008, 1♀, MT. Kremnické vrchy: Ihráč (7379), 1.-10.4.1996, 2♂, 3♀, MT; 1.-10.7.1996, 1♀, MT; 20.-30.8.1996, 1♀, MT; 20.-30.9.1996, 4♀, MT; 1.-10.10.1996, 2♀, MT; 10.-20x.1996, 2♂, 15♀, MT; 1.-10.11.1996, 1♀, MT. Veľká Fatra: Mošovce (7079), 15.6.1992, 1♂, 1♀, MT; 9.7.1992, 1♂, ♀, MT; 24.7.1992, 2♂, ♀, MT; 29.7.1992, 2♂, ♀, MT; 17.8.1992, 1♂, 1♀, MT; 20.8.1992, 1♂, ♀, MT; 22.8.1992, 1♂, 1♀, MT; 27.8.1992, 1♂, ♀, MT; 29.8.1992, 1♂, ♀, MT; 6.9.1992, 1♂, 4♀, MT; 18.9.1992, 2♂, 2♀, MT. Ipeľská kotlina: Ipeľské Predmostie (7980), 24.8.1994, 1♀, leg. MK. Chočské vrchy: Veľký Choč (6882), 18.6.1976, 1♀, leg. MK; Chočské vrchy: Lúčky (6882), 5.8.1991, 1♀, leg. MK. Liptovská kotlina: Liptovský Ján (6984), 17.6.1991, 1♂, 1♀, leg. MK. Muránska planina: Paseky (7385), 27.7.2001, 2♀, MT; 31.8.2001, 1♂, MT; 14.9.2001, 2♂, MT; 28.9.2001, 1♂, 1♂, MT; 12.10.2001, 7♀, MT; Suché doly (7385), 13.7.2003, 1♂, MT; 9.8.2003, 1♀, MT; 26.9.2003, 1♂, MT; Tisovec - Čremošná (7385), 1.9.2004, 1♀, MT; 19.9.2004, 1♂, 1♀, MT; 2.10.2004, 3♂, 7♀, MT; 7.10.2004, 1♂, 7♀, MT; 23.10.2004, 4♂, 7♀, MT. Popradská kotlina: Štrba (6986), 8.7.1990, 1♀, leg. MK. Liptovská kotlina: Liptovský Ján (6984), 11.7.1976, 1♀, leg. MK.

***Lyciella subfasciata* (Zetterstedt, 1838)**

Borská nížina: Jakubov (7567), 27.8.1978, 1♀; 2.8.1981, 1♀, leg. MK. Borská nížina: Láb (7667), 30.6.1976, 1♀, leg. MK. Malé Karpaty: Bratislava - Lamač (7768), 23.8.1978, 1♀, leg. MK; 5.6.1979, 1♀, leg. MK; 3.8.1980, 1♀, leg. MK. Strážovské vrchy: Trubárka (7075), 30.7.1985, 1♀, MK; 16.9.1986, 1♀,

leg. MK; Bindárka (7075), 30.7.1985, 1♀, MK; 14.viii.1985, 1♂, 2♀, leg. MK; Rokoš (7276), 28.6.2008, 2♂, MT; 19.8.2008, 1♂, MT. Veľká Fatra: Mošovce (7079), 25.6.1992, 1♂, MT; 10.7.1992, 1♂, MT; 19.7.1992, 1♂, MT; 10.8.1992, 2♂, MT; 12.8.1992, 1♂, MT; 19.8.1992, 4♂, MT; 22.8.1992, 3♂, MT; 28.8.1992, 2♂, MT. Podtatranská brázda: Zuberec (6783), 22.7.1990, 1♂, MK. Liptovská kotlina: Liptovský Ján (6984), 6.8.1998, 3♀, leg. MK. Muránska planina: Paseky (7385), 21.6.2001, 1♂, MT; 29.6.2001, 7♂, MT; 4.7.2001, 4♂, MT; 6.7.2001, 5♂, MT; 10.7.2001, 1♂, MT; 20.7.2001, 2♂, MT; 27.7.2001, 1♂, MT; 3.8.2001, 1♂, MT; 21.8.2001, 1♂, MT; 24.8.2001, 2♂, MT; 7.9.2001, 1♂, MT; 14.9.2001, 4♂, MT; 28.9.2001, 1♂, MT; 5.10.2001, 2♂, MT; Suché doly (7385), 20.6.2003, 5♂, MT; 29.6.2003, 2♂, MT; 4.7.2003, 1♂, MT; 13.7.2003, 7♂, MT; 20.7.2003, 6♂, MT; 2.8.2003, 2♂, MT; 9.8.2003, 1♂, MT; 18.9.2003, 1♂, MT; 26.9.2003, 4♂, MT; Tisovec - Čremošná (7385), 4.7.2004, 6♂, MT; 22.7.2004, 1♂, MT; 1.8.2004, 1♂, MT; 7.8.2004, 1♂, MT; 19.9.2004, 2♂, MT; 23.10.2004, 2♂, MT.

***Minettia fasciata* (Fallén, 1826)**

Podunajská rovina: Šúr (7769), 15.6.2008, 1♂, 4♀, MT; 1.7.2008, 2♂, 5♀, MT; 7.7.2008, 1♂, 4♀, MT; 8.7.2008, 4♂, MT; 14.7.2008, 4♂, MT; 15.7.2008, 3♂, 13♀, MT; 20.7.2008, 1♀, MT; 22.7.2008, 6♂, 9♀, MT; 3.8.2008, 1♂, MT; 4.8.2008, 6♂, 15♀, MT; 12.8.2008, 4♂, 2♀, MT; 22.8.2008, 2♀, MT; 26.8.2008, 1♂, MT; 29.8.2008, 3♂, 9♀, MT; 19.9.2008, 2♀, MT; Jurský Šúr (7769), 2.8.1988, 1♂, leg. MK. Trnavská pahorkatina: Bučany (7572), 10.-17.6.2007, 3♀, MT; 1.-9.7.2007, 1♂, MT; 9.-18.7.2007, 1♂, 2♀, MT; 18.-28.7.2007, 4♂, 2♀, MT; 28.7.-5.8.2007, 2♀, MT; 19.-29.8.2007, 1♀, MT; 29.8.-16.9.2007, 1♂, MT; 16.9.-6.10.2007, 5♂, MT; 6.-30.10.2007, 1♂, MT. Strážovské vrchy: Rokoš (7276), 28.6.2008, 1♂, MT. Štiavnické vrchy: Hodruša - Hámre (7578), 12.6.1996, 1♂, leg. MK. Kremnické vrchy: Ihráč (7379), 20.-30.5.1996, 1♂, MT; 20.-30.5.1996, 1♂, MT; 10.-20.6.1996, 2♂, 1♀, MT; 10.-20.9.1996, 2♂, MT. Veľká Fatra: Mošovce (7079), 10.8.1992, 1♀, MT. Muránska planina: Suché doly (7385), 13.7.2003, 1♂, MT; 29.6.2003, 1♀, MT; Tisovec - Čremošná (7385), 4.7.2004, 1♂, 1♀, MT; Muránska planina: Tisovec - Čremošná (7385), 23.8.2004, 1♂, 1♀, MT.

***Minettia flaviventris* (Costa, 1844)**

Borská nížina: Láb (7667), 20.6.1976, 1♀, leg. MK. Malé Karpaty: Devínska Kobyla (7867), 22.5.1979, 1♀, leg. MK; 7.5.1990, 1♂, leg. MK; Bratislava - Lamač (7768), 5.6.1979, 2♂, leg. MK. Podunajská rovina: Ivanka pri Dunaji (7869), 20.7.1979, 1♀, leg. MK. Strážovské vrchy: Rokoš (7276), 23.7.2008, 1♂, MT. Hornonitrianska kotlina: Bojnice (7277), 15.8.1979, 1♀, leg. MK; 28.7.1985, 1♀, leg. MK, 20.8.1994, 1♀, leg. MK. Slovenský kras: Domica (7588), 8.6.1979, 1♀, leg. MK; Kečovo (7588), 9.6.1979, 1♀, leg. MK.

***Minettia loewi* (Schiner, 1864)**

Veľká Fatra: Mošovce (7079), 22.5.1992, 1♂, MT; 11.6.1992, 1♂, MT; 17.6.1992, 1♂, MT; 29.6.1992, 1♀, MT; 9.7.1992, 1♂, MT. Muránska planina: Paseky (7385), 4.7.2001, 1♂, MT.

***Minettia longipennis* (Fabricius, 1794)**

Malé Karpaty: Vinosady (7669), 18.6.1996, 1♂, leg. MK. Podunajská rovina: Šúr (7769), 25.7.1988, 1♀, leg. MK; 15.6.2008, 1♂, MT; 4.8.2008, 4♂, MT; 12.8.2008, 2♂, 1♀, MT; 22.8.2008, 1♂, MT; 26.8.2008, 4♂, 1♀, MT; 5.9.2008, 1♂, 3♀, MT; 19.9.2008, 8♂, 3♀, MT. Trnavská pahorkatina: Bučany (7572), 27.5.–3.6.2007, 2♂, MT; 3.–10.6.2007, 1♀, MT; 1.–9.7.2007, 1♂, 1♀, MT; 28.7.–5.8.2007, 1♂, MT. Považský Inovec: Lúka (7373), 2.–9.8.1999, 1♀, MT; 16.–23.8.1999, 1♂, 1♀, MT; 13.–20.9.1999, 1♂, 1♀, MT. Strážovské vrchy: Rokoš (7276), 5.6.2008, 1♂, MT; 28.6.2008, 1♀, MT. Kremnické vrchy: Ihráč (7379), 20.–30.5.1996, 1♀, MT; 1.–10.6.1996, 1♂, MT; 10.–20.6.1996, 1♂, MT; 20.–30.6.1996, 1♀, MT; 10.–20.8.1996, 1♂, MT. Veľká Fatra: Mošovce (7079), 17.6.1992, 1♀, MT; 21.6.1992, 1♂, MT; 10.7.1992, 1♀, MT; 13.7.1992, 1♀, MT. Ipeľská kotlina: Malé Stračiny (7782), 31.5.1990, 1♀, leg. MK. Muránska planina: Paseky (7385), 29.6.2001, 1♀, MT; 4.7.2001, 1♀, MT; Suché doly (7385), 5.6.2003, 2♂, 3♀, MT; 12.6.2003, 2♂, 3♀, MT; 20.6.2003, 6♂, 17♀, MT; 29.6.2003, 3♂, 2♀, MT; 4.7.2003, 2♂, 1♀, MT; 20.7.2003, 1♀, MT; Tisovec – Čremošná (7385), 22.6.2004, 2♀, MT; 4.7.2004, 1♀, MT; 10.7.2004, 1♀, MT; 23.8.2004, 1♀, MT; 19.9.2004, 1♀, MT.

***Minettia lupulina* (Fabricius, 1878)**

Borská nížina: Šaštín – Gazárka (7368), 5.7.1996, 1♀, leg. MK. Podunajská rovina: Šúr (7769), 14.6.1988, 1♀, leg. MK; Šúr (7769), 15.6.2008, 2♀, MT; 15.7.2008, 2♂, 4♀, MT; 22.7.2008, 3♂, 2♀, MT; 4.8.2008, 2♂, 1♀, MT; 12.8.2008, 5♂, MT; 22.8.2008, 1♂, MT; 29.8.2008, 2♂, 1♀, MT; 19.9.2008, 1♂, 3♀, MT. Trnavská pahorkatina: Bučany (7572), 10.–17.6.2007, 1♂, MT; 29.8.–16.9.2007, 1♀, MT. Považský Inovec: Lúka (7373), 23.–30.8.1999, 1♀, MT. Hornonitrianska kotlina: Bojnice (7277), 20.8.1991, 1♀, leg. MK. Veľká Fatra: Mošovce (7079), 10.8.1992, 1♂, MT. Muránska planina: Tisovec – Čremošná (7385), 10.7.2004, 1♂, MT; 7.8.2004, 1♂, MT; 23.8.2004, 1♀, MT.

***Minettia plumicornis* (Fallén, 1820)**

Podunajská rovina: Šúr (7769), 7.7.2008, 1♂, MT; 8.7.2008, 1♂, MT; 22.7.2008, 1♂, 1♀, MT; 28.7.2008, 1♀, MT; 5.9.2008, 1♂, MT. Trnavská pahorkatina: Bučany (7572), 13♂, 15♀, MT. Považské podolie: Kamenec – Konopisko (7074), 25.8.1994, 1♂.

***Minettia subvittata* (Loew, 1848)**

Podunajská rovina: Šúr (7769), 15.6.2008, 1♂, MT; 1.7.2008, 1♂, 3♀, MT; 8.7.2008, 1♀, MT; 15.7.2008, 3♀, MT; 22.7.2008, 1♂, MT; 29.7.2008, 1♀, MT; 4.8.

2008, 3♂, 1♀, MT; 26.8.2008, 1♂, MT; 5.9.2008, 1♂, 1♀, MT; 19.9.2008, 2♂, 2♀, MT. Trnavská pahorkatina: Bučany (7572), 10.–17.6.2007, 1♀, MT; 29.8.–16.9.2007, 1♂, MT; 16.9.–6.10.2007, 1♀, MT.

Note. Circummediterranean species (MERZ 2004), known only from few European countries: Italy, Bulgaria, Cyprus and several Greece islands (MERZ 2007a) but this may be due to complicated taxonomic situation, which was solved only recently. This species belongs together with *M. tabidiventris*, *M. fasciata* a *M. czernyi* to *Minettia fasciata* species-group. Safe separation of these species is only possible by studying terminalia of both sexes (Merz 2004), first record from Slovakia.

***Minettia tabidiventris* (Rondani, 1877)**

Strážovské vrchy: Rokoš (7276), 16.8.2008, 1♂, MT. Muránska planina: Paseky (7385), 10.7.2001, 1♂, MT; 14.8.2001, 1♂, MT; 17.8.2001, 1♀, MT.

***Nannomyza basalis* (Zetterstedt, 1847)**

Strážovské vrchy: Trubárka (7075), 13.9.1985, 1♂; 17.7.1986, 1♂, 2♀; 4.8.1986, 1♀; Bindárka (7075), 14.8.1985, ♀; 17.7.1986, 2♂; Rokoš (7276), 7.7.2008, 1♂, 1♀, MT; 10.7.2008, 1♀, MT; 23.7.2008, 4♀, MT; 16.8.2008, 1♀, MT; 19.8.2008, 2♀, MT; 11.9.2008, 1♀, MT. Veľká Fatra: Mošovce (7079), 10.7.1992, 1♂, MT; 13.7.1992, 1♂, MT; 24.7.1992, 2♂, MT; 16.8.1992, 1♀, MT. Muránska planina: Paseky (7385), 19.10.2001, 2♂, 2♀, MT; Suché doly (7385), 80♂, 97♀, MT; Tisovec – Čremošná (7385), 4.7.2004, 104♂, 91♀, MT.

***Pachycerina seticornis* (Fallén, 1820)**

Veľká Fatra: Mošovce (7079), 21.5.1992, 1♂, MT; 10.8.1992, 2♂, MT; 30.8.1992, 2♂, MT. Muránska planina: Paseky (7385), 27.7.2001, 3♂, MT.

***Paroecus signatipes* (Loew, 1856)**

Považský Inovec: Lúka (7373), 23.–30.5.1999, 1♂, MT.

***Peplomyza discoidea* (Meigen, 1830)**

Malé Karpaty: Bratislava – Lamač (7768), 17.5.1983, 1♀, leg. MK. Podunajská rovina: Šúr (7769), 15.6.2008, 1♀, MT; 1.7.2008, 1♂, 4♀, MT; 29.7.2008, 1♀, MT; 25.7.1988, 1♂, 1♀, MT. Považský Inovec: Lúka (7373), 13.–20.6.1999, 1♀, MT. Strážovské vrchy: Timoradza (7175) 18.5.2007, 1♀, MT. Veľká Fatra: Mošovce (7079), 25.6.1992, 1♂, MT.

***Peplomyza intermedia* Remm, 1979**

Borská Nížina: Jakubov (7567), 2.8.1988, 1♀, leg. MK. Malé Karpaty: Smolenice (7470), 11.8.1980, 1♀, leg. MK. Podunajská rovina: Ivanka pri Dunaji (7869), 10.9.1977, 1♂, leg. MK; Podunajské Biskupice (7869), 30.5.1978, 1♂, leg. MK; Šúr (7769), 1.7.2008, 8♂, 14♀, MT. Trnavská pahorkatina: Bučany (7572), 20.–27.5.2007, 1♀, MT; 3.–10.6.2007, 2♂, 4♀, MT; 1.–9.7.2007, 1♂, MT; 9.–18.7.2007, 1♂, MT; 5.–12.8.2007, 1♂, MT; 29.8.–16.9.2007 2♂, 6♀, MT;

16.9.–6.10.2007, 1♀, MT; 6.–30.10.2007, 1♂, MT. Považský Inovec: Lúka (7373), 27.9.–4.10.1999, 2♂, MT; Strážovské vrchy: Rokoš (7276), 21.8.2008, 1♀, MT. Hornonitrianska kotlina: Bojnice (7277), 20.8.1981, 1♀, leg. MK. Muránska planina: Paseky (7385), 21.8.2001, 1♀, MT.

***Peplomyza litura* (Meigen, 1826)**

Borská Nížina: Jakubov (7567), 2.8.1981, 1♂, leg. MK. Podunajská rovina: Podunajské Biskupice (7869), 16.8.1979, 1♀, leg. MK; Šúr (7769), 1.7.2008, 1♂, 2♀, MT; 15.7.2008, 1♂, MT; 29.7.2008, 4.8.2008, 1♀, MT; 1♂, MT; 12.8.2008, 2♂, 4♀, MT; 22.8.2008, 1♀, MT; 29.8.2008, 1♀, MT; 5.9.2008, 1♂, 5♀, MT; 19.9.2008, 1♂, 8♀, MT; 7.10.2008, 1♂, MT; 21.10.2008, 2♂, MT. Malé Karpaty: Bratislava – Lamač (7768), 26.7.1980, 1♀, leg. MK; 3.8.1980, 1♀, leg. MK; Smolenice (7470), 11.8.1980, 1♂, leg. MK. Považský Inovec: Lúka (7373), 23.–4.10.1999, 1♀, MT; 23.–30.8.1999, 1♀, MT; 27.9.–4.10.1999, 1♂, MT. Strážovské vrchy: Trenčianske Mitice (7174), 16.8.1979, 1♀, leg. MK; Bindárka (7075), 14.8.1985, 1♂, leg. MK; Rokoš (7276), 23.7.2008, 1♂, MT; 16.8.2008, 1♂, MT. Veľká Fatra: Mošovce (7079), 28.6.1992, 3♂, MT; 24.7.1992, 4♂, 3♀, MT; 29.7.1992, 2♂, 3♀, MT; 20.8.1992, 3♂, 1♀, MT; 22.8.1992, 3♂, 1♀, MT; 29.8.1992, 1♂, 2♀, MT; 30.8.1992, 3♂, 1♀, MT; 6.9.1992, 1♀, MT; 16.9.1992, 1♂, MT. Muránska planina: Paseky (7385), 4.7.2001, 1♀, MT; 6.7.2001, 1♂, MT; 10.7.2001, 1♀, MT; 17.8.2001, 1♀, MT; 21.8.2001, 2♂, 2♀, MT; 31.8.2001, 1♀, MT; 7.9.2001, 1♂, 1♀, MT; 14.9.2001, 1♂, MT; 21.9.2001, 2♂, 2♀, MT; 28.9.2001, 1♀, MT; Suché doly (7385), 20.6.2003, 1♂, 1♀, MT; Tisovec – Čremošná (7385), 4.7.2004, 24♂, 12♀, MT; 10.7.2004, 1♂, MT; 22.7.2004, 1♂, 1♀, MT; 1.8.2004, 1♂, MT; 7.8.2004, 1♂, MT; 23.8.2004, 3♂, 3♀, MT; 1.9.2004, 1♂, 2♀, MT; 19.9.2004, 2♂, 7♀, MT; 7.10.2004, 3♀, MT; 23.10.2004, 4♂, MT.

***Poecilolygia vittata* (Walker, 1849)**

Malé Karpaty: Bratislava – Lamač (7768), 18.5.1982, 1♂, leg. MK. Ipeľská kotlina: Dolné Strháre (7782), 31.5.1988, 1♀, leg. MK. Považský Inovec: Lúka (7373), 6.–13.6.1999, 1♀, MT. Veľká Fatra: Mošovce (7079), 21.6.1992, 1♀, MT; 1.7.1992, 1♀, MT; 12.7.1992, 1♂, MT. Muránska planina: Paseky (7385), 3.8.2001, 1♀, MT.

***Pseudolyciella pallidiventris* (Fallén, 1820)**

Podunajská rovina: Šúr (7769), 5.9.2008, 1♂, MT; 1.7.2008, 2♂, MT. Malé Karpaty: Bratislava – Lamač (7768), 18.6.1978, ♂, leg. MK. Považský Inovec: Lúka (7373), 13.–20.6.1999, 1♂, MT. Strážovské vrchy: Trenčianske Mitice (7174), 16.8.1979, 1♂, leg. MK; Rokoš (7276), 28.6.2008, 5♂, MT. Veľká Fatra: Mošovce (7079), 22.8.1992, 3♂, MT. Muránska planina: Paseky (7079), 21.6.2001, 1♂, MT; 6.7.2001, 1♂, MT; 10.8.2001, 3♂, MT; 14.8.2001, 2♂, MT; 17.8.2001, 1♂, MT; 21.8.2001, 4♂, MT; 24.8.2001, 6♂, MT; 7.9.2001, 2♂, MT; 28.9.2001, 2♂, MT; Tisovec – Čremošná (7385), 22.6.2004, 4♂, MT.

***Pseudolyciella stylata* (Papp, 1978)**

Malé Karpaty: Bratislava – Lamač (7768) (7768), 23.6.1979, 1♂, leg. MK. Podunajská rovina: Šúr (7769), 15.6.2008, 1♂, MT; 1.7.2008, 2♂, MT; 12.8.2008, 1♂, MT; 5.9.2008, 1♂, MT. Považský Inovec: Lúka (7373), 6.–13.9.1999, 1♂, MT; 27.5.–5.7.1999, 1♂, MT. Strážovské vrchy: Trenčianske Mitice (7174), 16.8.1979, 1♂, leg. MK; Rokoš (7276), 28.6.2008, 9♂, MT; Trubárka (7075), 16.9.1986, 1♂, leg. MK. Kremnické vrchy: Ihráč (7379), 10.–20.8.1996, 1♂, MT. Veľká Fatra: Mošovce (7079), 18.8.1992, 6♂, MT; 20.8.1992, 1♂, MT; 30.8.1992, 2♂, MT. Muránska planina: Paseky (7385), 29.6.2001, 2♂, MT; 3.8.2001, 2♂, MT; 10.8.2001, 1♂, MT; 14.8.2001, 1♂, MT; 17.8.2001, 3♂, MT; 21.8.2001, 7♂, MT; 24.8.2001, 2♂, MT; 7.9.2001, 5♂, MT; 14.9.2001, 1♂, MT; 21.9.2001, 1♂, MT; 28.9.2001, 1♂, MT; Suché doly (7385), 5.6.2003, 1♂, MT; 20.6.2003, 2♂, MT; 20.7.2003, 1♂, MT; 27.7.2003, 2♂, MT; 2.8.2003, 4♂, MT; 9.8.2003, 1♂, MT; 26.9.2003, 1♂, MT; Tisovec – Čremošná (7385), 13.6.2004, 2♂, MT; 22.6.2004, 2♂, MT.

***Sapromyza apicalis* Loew, 1847**

Podunajská rovina: Šúr (7769), 8.7.2008, 1♂, MT. Trnavská pahorkatina: Bučany (7572), 20.–27.5.2007, 2♂, MT; 3.–10.6.2007, 1♂, 18.–24.6.2007, 3♂, MT; 1.–9.7.2007, 3♂, 1♀, MT; 9.–18.7.2007, 3♂, 1♀, MT; 18.7.–28.7.2007, 2♂, MT; 28.7.–5.8.2007, 1♂, MT; 16.9.–6.10.2007, 1♂, 1♀, MT.

***Sapromyza intonsa* Loew, 1847**

Malé Karpaty: Devínska Kobyla (7867), 15.6.1990, 1♂, leg. MK. Podunajská rovina: Šúr (7769), 29.6.1989, 1♂, 1♀, leg. MK; Lúka (7373), 12.–19.7.1999, 1♂, MT; 13.–20.6.1999, 1♂, MT. Ipeľská kotlina: Horné Plachtince (7781), 1.6.1990, 1♀, leg. MK; Šúr (7769), 15.6.2008, 5♀, MT; 1.7.2008, 5♀, MT; 15.7.2008, 4♀, MT; 4.8.2008, 1♀, MT; 12.8.2008, 1♀, MT; 29.7.–4.8.2008, 3♀, MT. Kremnické vrchy: Ihráč (7379), 20.–30.5.1996, 1♀, MT. Muránska Planina: Suché doly (7385), 12.6.2003, 1♀, MT; 20.6.2003, 2♂, 1♀, MT; 29.6.2003, 5♂, 3♀, MT; 4.7.2003, 1♂, MT; 13.7.2003, 2♂, 1♀, MT; 20.7.2003, 1♂, 1♀, MT; 27.7.2003, 1♂, MT; 2.8.2003, 1♂, 2♀, MT; 9.8.2003, 1♀, MT; Tisovec – Čremošná (7385), 4.7.2004, 1♂, 3♀, MT; 5.7.2004, 1♂, MT; 10.7.2004, 1♂, MT; 1.8.2004, 3♂, 1♀, MT; 5.8.2004, 5♂, MT; 23.8.2004, 4♂, 1♀, MT; 19.9.2004, 2♂, 3♀, MT.

***Sapromyza obscuripennis* Loew, 1847**

Malé Karpaty: Bratislava – Lamač (7768), 28.5.1982, 1♂, leg. MK. Považský Inovec: Lúka (7373), 23.–30.5.1999, 1♂, 1♀, MT; 27.6.–5.7.1999, 1♂, leg. Kozánek, Roller; 12.–19.7.1999, 1♀, MT. Strážovské vrchy: Trubárka (7075), 14.8.1985, 1♂; 4.7.1986, 1♂, leg. MK; Rokoš (7276), 5.6.2008, 16♂, 14♀, MT; 28.6.2008, 9♂, 4♀, MT; 7.7.2008, 1♂, MT; 10.7.2008, 1♀, MT; 23.7.2008, 1♀, MT; 1.8.2008, 2♀, MT; 16.8.2008, 5♀, MT; 19.8.2008, 2♀, MT; 11.9.2008, 1♀,

MT. Veľká Fatra: Mošovce (7079), 28.6.1992, 8♂, 1♀, MT; 24.7.1992, 3♂, MT; 29.7.1992, 1♂, 1♀, MT; 12.8.1992, 3♂, 1♀, MT; 30.8.1992, 1♂, MT. Muránska planina: Paseky (7385), 21.6.2001, 1♂, MT; 10.8.2001, 1♂, MT; 7.9.2001, 3♀, MT; 14.9.2001, 1♂, 1♀, MT; 5.10.2001, 1♀, MT; Suché doly (7385), 12.6.2003, 1♀, MT; 20.6.2003, 1♀, MT; 20.7.2003, 1♀, MT; Tisovec – Čremošná (7385), 6.6.2004, 1♀, MT; 22.6.2004, 3♂, 6♀, MT; 10.7.2004, 1♂, 1♀, MT; 22.7.2004, 1♀, MT; 23.8.2004, 1♂, MT; 19.9.2004, 1♀, MT.

***Sapromyza obsoleta* Fallén, 1820**

Podunajská rovina: Šúr (7769), 24.5.1975, 1♀, 2♂ leg. MK; Ivanka pri Dunaji (7277), 30.5.1979, 2♂ 2♀, leg. MK; Šúr (7769), 15.6.2008, 3♀, MT; 1.7.2008, 1♂, 4♀, MT. Trnavská pahorkatina: Bučany (7572), 25.4.–6.5.2007, 1♀, MT; 13.–20.5.2007, 1♂, MT; 3.–10.6.2007, 1♂, MT; 18.–24.6.2007, 1♀, MT. Malé Karpaty: Devínska Kobyla (7867), 22.5.1990, 1♂, leg. MK. Považský Inovec: Lúka (7373), 6.–13.6.1999, 1♂, MT.

***Sapromyza opaca* Becker, 1895**

Podunajská rovina: Šúr (7769), 22.7.2008, 1♂, 1♀, MT. Považský Inovec: Lúka (7373), 19.–26.7.1999, 1♂, MT; 6.–13.6.1999, 1♂, MT. Veľká Fatra: Mošovce (7079), 9.7.1992, 1♂, MT; 20.7.1992, 1♂, MT. Kremnické vrchy: Ihráč (7379), 20.–30.5.1996, 2♂, MT; 1.–10.6.1996, 1♂, MT; 10.–20.6.1996, 1♂, MT; 10.–20.8.1996, 1♂, MT. Muránska Planina: Suché doly (7385), 20.6.2003, 2♂, MT; 29.6.2003, 4♂, MT; 4.7.2003, 1♂, MT; 13.7.2003, 4♂, MT; 20.7.2003, 1♂, MT; 2.8.2003, 2♂, MT; 9.8.2003, 1♂, MT; Tisovec – Čremošná (7385), 4.7.2004, 2♂, MT; 5.7.2004, 1♂, MT; 10.7.2004, 3♂, MT; 22.7.2004, 2♂, MT; 7.8.2004, 3♂, MT; 23.8.2004, 1♂, MT.

***Sapromyza palpella* Rondani, 1868**

Považský Inovec: Lúka (7373), 19.–26.7.1999, 1♂, MT. Chočské vrchy: Lúčky (6882), 5.8.1991, 1♂, leg. MK.

***Sapromyza sexpunctata* Meigen, 1826**

Malé Karpaty: Bratislava – Lamač (7768), 19.7.1979, 2♂; 26.7.1980, 1♀; 3.8.1980, 1♂, leg. MK. Považský Inovec: Lúka (7373), 23.–30.5.1999, 1♂, MT. Strážovské vrchy: Bindárka (7075), 30.7.1985, 1♀; 13.9.1985, 1♂; 17.7.1986, 1♂, leg. MK; Rokoš (7276), 28.6.2008, 1♂, MT. Kremnické vrchy: Ihráč (7379), 20.–30.5.1996, 2♂, MT; 20.–30.7.1996, 1♂, MT; 10.–20.8.1996, 1♂, MT. Veľká Fatra: Mošovce (7079), 28.6.1992, 1♂, MT; 3.7.1992, 1♂, MT; 9.7.1992, 3♂, MT; 14.7.1992, 1♂, MT; 21.8.1992, 1♂, MT. Liptovská kotlina: Kvačany (6883), 26.7.1980, 1♀, leg. MK. Muránska planina: Paseky (7385), 6.7.2001, 1♂, MT; 11.8.2001, 1♂, MT; 7.9.2001, 1♂, MT; 14.9.2001, 1♂, MT; Suché doly (7385), 20.6.2003, 1♂, MT; 29.6.2003, 1♂, MT; 13.7.2003, 1♂, MT; 27.7.2003, 5♂, MT; 2.8.2003, 1♂, MT; Tisovec – Čremošná (7385), 4.7.2004, 2♂, MT; 1.8.2004, 1♂, MT; 7.8.2004, 2♂,

MT; 23.8.2004, 2♂, MT. Slovenský kras: Kečovo (7588), 9.6.1979, 1♂, leg. MK.

***Sapromyza schnabli* Papp, 1987**

Považský Inovec: Lúka (7373), 11.–18.10.1999, 1♂, MT; Strážovské vrchy: Trubárka (7075), 16.9.1986, 1♂, leg. MK; Bindárka (7075), 17.7.1986, 1♀, leg. MK. Kremnické vrchy: Ihráč (7379), 1.–10.4.1996, 2♂, 3♀, MT; 20.–30.4.1996, 5♂, 5♀, MT; 10.–20.9.1996, 1♂, 1♀, MT; 20.–30.9.1996, 1♂, MT; 1.–10.10.1996, 2♂, 3♀, MT; 10.–20.10.1996, 12♂, 16♀, MT; 1.–10.11.1996, 3♂, 2♀, MT. Veľká Fatra: Mošovce (7079), 24.7.1992, 1♂, MT; 18.8.1992, 2♂, MT; 22.8.1992, 3♂, 1♀, MT; 28.8.1992, 3♂, 1♀, 6.9.1992, 7♂, 3♀, MT; 8.9.1992, 3♂, 2♀, MT; 8.9.1992, 1♂, 1♀, MT; 18.9.1992, 2♂, MT. Muránska planina: Paseky (7385), 12.10.2001, 5♂, MT; 14.10.2001, 3♂, 3♀, MT; 12.10.2001, 3♂, MT.

***Sapromyza zetterstedti* Hendel, 1908**

Podunajská rovina: Šúr (7769), 15.6.2008, 2♂, MT. Kremnické vrchy: Ihráč (7379), 20.–30.5.1996, 1♂, MT; 10.–20.6.1996, 5♂, MT; 20.–30.6.1996, 1♂, MT.

***Sapromyzosoma quadricincta* (Becker, 1895)**

Malé Karpaty: Bratislava – Lamač (7768), 23.8.1878, 2♂, leg. MK; Smolenice (7470), 11.8.1980, 1♂, leg. MK; Devínska Kobyla (7867), 15.6.1990, 1♂, leg. MK. Podunajská rovina: Šúr (7769), 1.7.2008, 2♀, MT; 8.7.2008, 1♀, MT; 14.7.2008, 1♂, 2♀, MT; 15.7.5008, 1♀, MT; 18.7.2008, 1♀, MT; 20.7.2008, 1♀, MT; 27.7.2008, 4♀, MT; 28.7.2008, 2♀, MT; 4.8.2008, 1♂, 2♀, MT; 12.8.2008, 1♂, 5♀, MT; 29.8.2008, 1♀, MT; 5.9.2008, 1♂, MT; 19.9.2008, 1♂, MT. Trnavská pahorkatina: Bučany (7572), 24.6.–1.7.2007, 1♂, MT; 5.–12.8.2007, 1♂, MT. Považský Inovec: Lúka (7373), 16.–23.8.1999, 1♀, MT; 6.–13.9.1999, 1♀, MT; 27.6.–5.7.1999, 1♂, MT. Strážovské vrchy: Trubárka (7075), 30.7.1985, 2♂, leg. MK; 14.8.1985, 1♂, leg. MK; 19.7.1986, 1♂, leg. MK; Rokoš (7276), 28.6.2008, 7♂, 2♀, MT; 7.7.2008, 1♂, MT; 10.7.2008, 1♂, 2♀, MT; 23.7.2008, 2♂, 4♀, MT; 1.8.2008, 2♂, 8♀, MT; 16.8.2008, 2♂, 15♀, MT; 19.8.2008, 1♂, 1♀, MT; 21.8.2008, 5♂, 1♀, MT; 12.9.2008, 2♂, 4♀, MT; 25.9.2008, 2♀, MT. Kremnické vrchy: Ihráč (7379), 20.–30.5.1996, 1♂, MT; 1.–10.9.1996, 1♀, MT. Muránska planina: Paseky (7385), 22.6.2001, 1♀, MT; 28.6.2001, 1♀, MT; 4.7.2001, 1♀, MT; 6.7.2001, 1♀, MT; 28.9.2001, 1♀, MT; 5.10.2001, 1♀, MT.

***Sapromyzosoma quadripunctata* (Linnaeus, 1758)**

Borská nížina: Šaštín – Gazárka (7368), 5.7.1996, 1♂, leg. MK. Malé Karpaty: Devínska Kobyla (7867), 2.5.1990, 1♂, leg. MK; Vinosady (7669), 18.6.1996, 1♂, leg. MK. Podunajská rovina: Ivanka pri Dunaji (7869), 20.7.1979, 1♂, leg. MK; 15.6.1984, 2♀, leg. MK; Šoporňa (7772), 11.8.1985, 1♀, leg. MK; Ivanka pri Dunaji (7869), 11.6.1996, 1♀, leg. MK; Šúr (7769), 15.6.2008, 1♂, 2♀, MT; 1.7.2008, 4♂, 1♀, MT; 14.7.2008, 1♂, 1♀, MT; 15.7.2008, 2♀, MT; 22.7.2008,

2♂, 7♀, MT; 29.7.2008, 1♀, MT; 4.8.2008, 1♂, 3♀, MT; 12.8.2008, 1♂, 5♀, MT; 21.8.2008, 1♂, MT; 26.8.2008, 1♂, 2♀, MT; 29.8.2008, 4♀, MT; 5.9.2008, 6♂, 6♀, MT; 19.9.2008, 7♂, 1♀, MT. Trnavská pahorkatina: Cífer (7670), 2.8.1978, 1♀, leg. MK; Bučany (7276), 24.6.–1.–7.2007, 1♂, MT; 9.–18.7.2007, 2♀, MT; 28.7.–5.8.2007, 1♂, MT; 5.–12.8.2007, 1♂, MT; 18.–28.7.2007, 1♀, MT; 12.–19.8.2007, 2♀, MT; 19.–29.8.2007, 1♀, MT; 29.8.–16.9.2007, 2♀, MT.

Považský Inovec: Lúka (7373), 30.5.–6.6.1999, 1♂, MT; 23.–30.8.1999, 1♂, leg. Kozánek, Roller; 20.–27.9.1999, 1♂, MT. Hornonitrianska kotlina: Bojnice (7277), 20.8.1991, 1♀, leg. MK.

Ipeľská kotlina: Kiarov (7882), 24.8.1994, 1♀, leg. MK. Kremnické vrchy: Ihráč (7379), 10.–20.9.1996,

1♀, MT; 20.–30.9.1996, 1♀, MT. Muránska planina: Paseky (7385), 22.6.2001, 1♂, MT; 4.7.2001, 3♂, MT; 6.7.2001, 1♂, MT; 20.7.2001, 1♀, MT; 10.8.2001, 1♀, MT; Suché doly (7385), 13.8.2003, 1♀, MT; Tisovec – Čremošná (7385), 7.8.2004, 1♀, MT.

***Schumannimyia hyalinata* (Meigen, 1826)**

Muránska planina: Paseky (7385), 4.7.2001, 1♂, MT.

***Trigonometopus frontalis* (Meigen, 1830)**

Podunajská rovina: Bratislava – Rača (7768), 6.8.1989, 1♀, leg. Roller.

***Tricholauxania praeusta* (Fallén, 1820)**

Borská nížina: Láb (7667), 30.6.1976, 1♀. Malé Karpaty: Devínska Kobyla (7867), 2.5.1979, 1♀, leg.

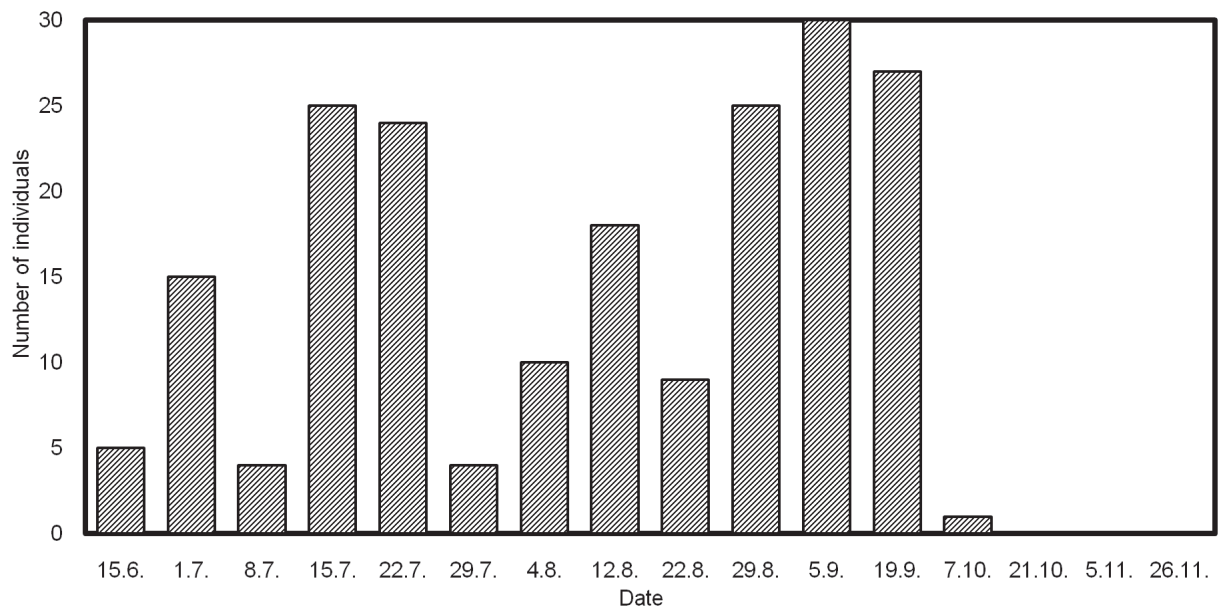


Fig. 1. Seasonal activity of *Homoneura* spp. in the locality Šur (the Podunajská rovina lowland) based on collections by MT in year 2008.

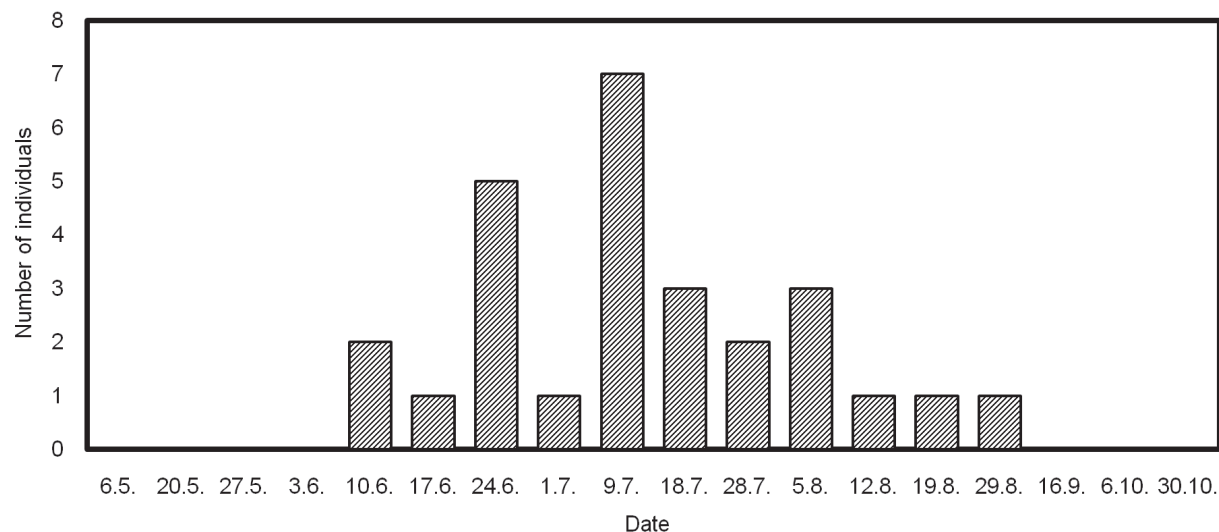


Fig. 2. Seasonal activity of *Homoneura* spp. in the locality Bučany (the Trnavská pahorkatina) during year 2007.

MK; Bratislava – Lamač (7768), 5.6.1971, 1♀, leg. MK; 3.8.1980, 1♀, MK; Smolenice (7470), 11.8.1980, 1♂, leg. MK. Podunajská rovina: Bratislava (7868), 25.7.1974, 1♀, leg. MK; 26.8.1íýž, 1♀, leg. MK; Podunajské Biskupice (7869), 16.5.1976, 1♀, leg. MK; Ivanka pri Dunaji (7869), 30.5.19079, 1♀, leg. MK; Šúr (7769), 15.6.2008, 2♀, MT; 1.7.2008, 6♂, 3♀, MT; 11.7.2008, 1♀, MT; 15.7.2008, 1♂, 5♀, MT; 22.7.2008, 1♂, 1♀, MT; 29.7.2008, 1♀, MT; 4.8.2008, 1♂, 1♀, MT; 12.8.2008, 2♂, 4♀, MT; 22.8.2008, 1♂, 4♀, MT; 29.8.2008, 1♂, 1♀, MT; 5.9.2008, 6♂, 3♀, MT; 19.9.2008, 1♂, 4♀, MT. Trnavská pahorkatina: Bučany (7572), 18.–28.7.2007, 2♂, MT; 16.9.–6.10.2007, 1♀, MT. Považský Inovec: Lúka (7373), 23.–30.5.1999, 1♂, 1♀, MT; 27.6.–5.7.1999, 1♂, MT; 12.–19.7.1999, 1♂, 1♀, MT. 13.–20.9.1999, 1♂, MT; 20.–27.9.1999, 1♂, MT.

(7276), 7.7.2003, 1♂, MT. Strážovské vrchy: Bindárka (7075), 23.5.1989, 1♀, leg. MK. Kremnické vrchy: Ihráč (7379), 20.–30.4.1996, 1♂, MT; 10.–20.9.1996, 1♂, MT; 10.–20.10.1996, 1♂, 1♀, MT. Veľká Fatra: Mošovce (7079), 4.7.1992, 1♂, MT; 10.7.1992, 1♀, MT; 12.7.1992, 2♂, MT; 29.7.1992, 1♂, MT; 12.8.1992, 1♂, MT; 22.8.1992, 2♂, MT. Ipeľská kotlina: Ipeľské predmostie (7980), 24.8.1994, 1♂, leg. MK. Ipeľská kotlina: Dolné Strháre (7782), 31.8.1980, 1♂, leg. MK. Krupinská planina: Horné Plachtince (7781), 31.5.1990, 1♂, leg. MK. Muránska planina: Paseky (7385), 27.7.2001, 1♂, MT; 24.8.2001, 1♂, MT; 31.8.2001, 1♂, MT; 14.9.2001, 2♂, MT; 21.9.2001, 1♂, MT; 28.9.2001, 1♂, MT; 5.10.2001, 1♂, MT; 12.10.2001, 3♂, MT; 19.10.2001, 2♂, MT; Suché doly (7385), 12.6.2003, 1♀, MT; 20.6.2003, 1♂, MT; 27.7.2003, 2♂, 1♀, MT; 2.8.2008, 1♀, MT; 26.9.2003,

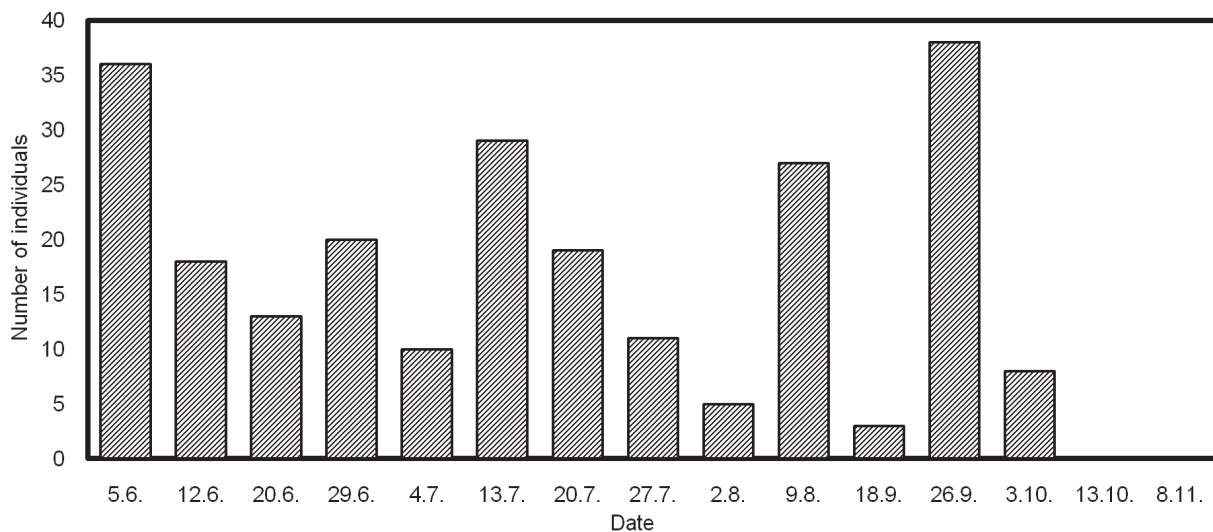


Fig. 3. Seasonal activity of *Lyciella platycephala* in the locality Suché doly (the Muránska planina Mts) during year 2003.

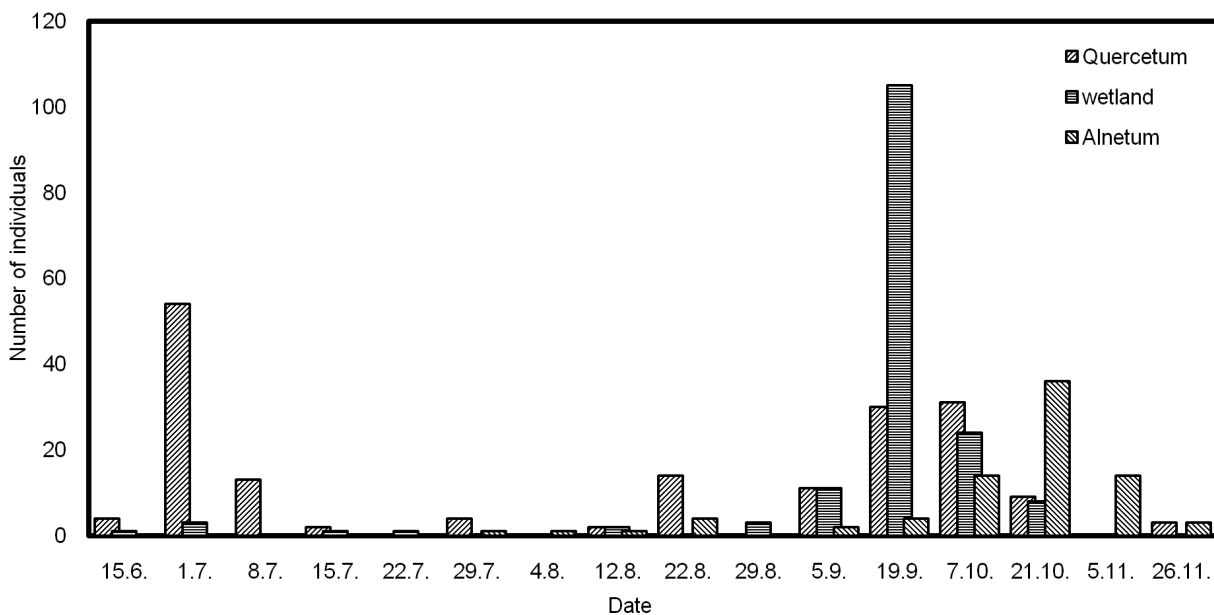


Fig. 4. Seasonal activity of *Caliopum simullimum* in a Quercetum, wetland and Alnetum in the locality Šúr (the Podunajská rovina lowland) during year 2008.

1♂, MT; 13.10.2003, 1♀, MT Tisovec – Čremošná (7385), 13.6.2004, 1♂, MT; 22.6.2004, 1♂, MT; 4.7.2004, 1♂, MT; 5.7.2004, 2♂, MT; 22.7.2004, 2♂, MT; 1.8.2008, 1♂, 3♀, MT; 7.8.2004, 1♂, MT; 23.8.2004, 3♂, MT; 1.9.2008, 2♂, 1♀, MT; 19.9.2004, 8♂, 4♀, MT; 2.10.2004, 2♂, 3♀, MT; 7.10.2004, 5♂, MT; 23.10.2004, 2♂, MT. Slovenský kras: Domica (7588), 8.6.1979, 1♂, leg. MK.

minor (Becker, 1895)
notata (Falén, 1820)
patelliformis (Becker, 1895)
remmi Papp, 1978
tesquae (Becker, 1895)
thalhammeri Papp, 1978

Updated checklist of Slovak Lauxaniidae

Homoneurinae

Homoneura van der Wulp, 1891

biumbrata (Loew, 1847)
dilecta (Rondani, 1868)
limnea (Becker, 1895)
mediospinosa Merz, 2003

Lauxaniinae

Aulogastromyia Hendel, 1925

anisodactyla (Loew, 1845)

Calliopum Strand, 1928

aeneum (Fallén, 1820)
elisae (Meigen, 1826)
simillimum (Collin, 1933)
splendidum Papp, 1978

Cnemacantha Macquart, 1835

muscaria (Fallén, 1823)

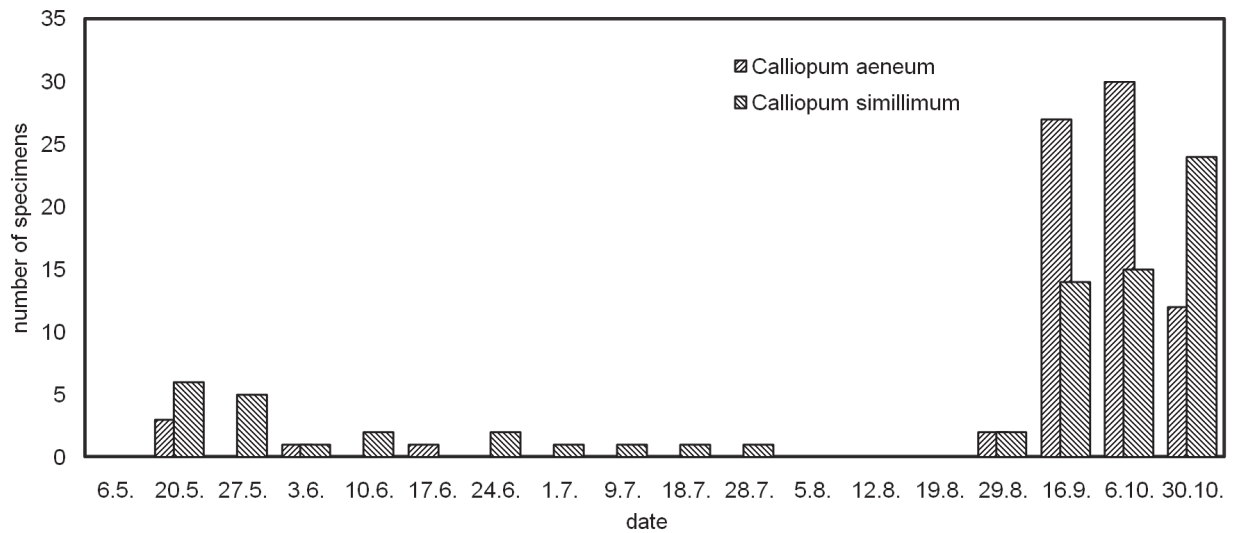


Fig. 5. Seasonal activity of *Calliopum aeneum* and *C. simillimum* in the locality Bučany (the Trnavská pahorkatina) during year 2007.

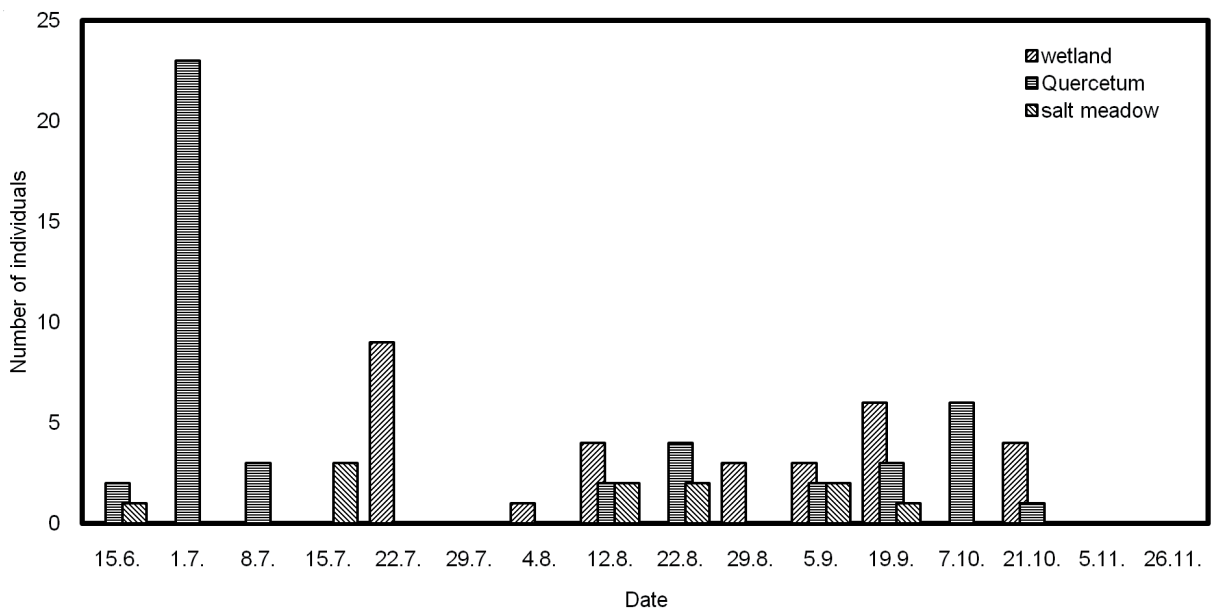


Fig. 6. Seasonal activity of *Peplomyza intermedia* in wetland, Quercetum and a salt meadow in the locality Šúr (the Podunajská nížina lowland) during year 2008.

Eusapromyza Malloch, 1923
balioptera Czerny, 1932
multipunctata (Fallén, 1820)

Lauxania Latreille, 1804
 sg. *Callixania* Papp, 1978
minor Martínek, 1974
 sg. *Lauxania* s. str.
cylindricornis (Fabricius, 1794)

Lyciella Collin, 1948
affinis (Zetterstedt, 1847)
conjugata (Becker, 1895)
decempunctata (Fallén, 1820)
decepiens (Loew, 1847)
illota (Loew, 1847)
laeta (Zetterstedt, 1838)
mihalyii Papp, 1978
platycephala (Loew, 1848)
rorida (Fallén, 1820)

subfasciata (Zetterstedt, 1838)

Minettia Robineau-Desvoidy, 1830
 sg. *Minettia* s. str.

austriaca Hennig, 1951
fasciata (Fallén, 1826)
filia (Becker, 1895)
flaviventris (Costa, 1843)
inusta (Meigen, 1826)
lupulina (Fabricius, 1787)
plumicornis (Fallén, 1820)
subvittata (Loew, 1848)
tabidiventris (Rondani, 1877)
 sg. *Plesiominettia* Shatalkin, 2000
helvola (Becker, 1895)
loewi (Schiner, 1864)
 sg. *Frendelia* Collin, 1948
longipennis (Fabricius, 1794)

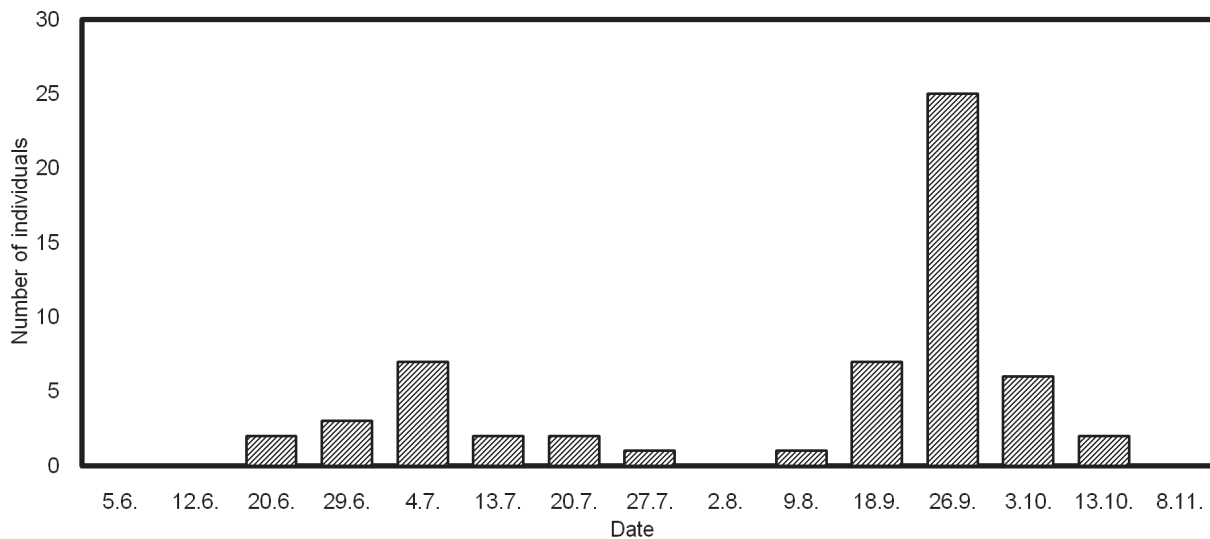


Fig. 7. Seasonal activity of *Peplomyza litura* in the locality Suché doly (the Muránska planina Mts) during year 2003.

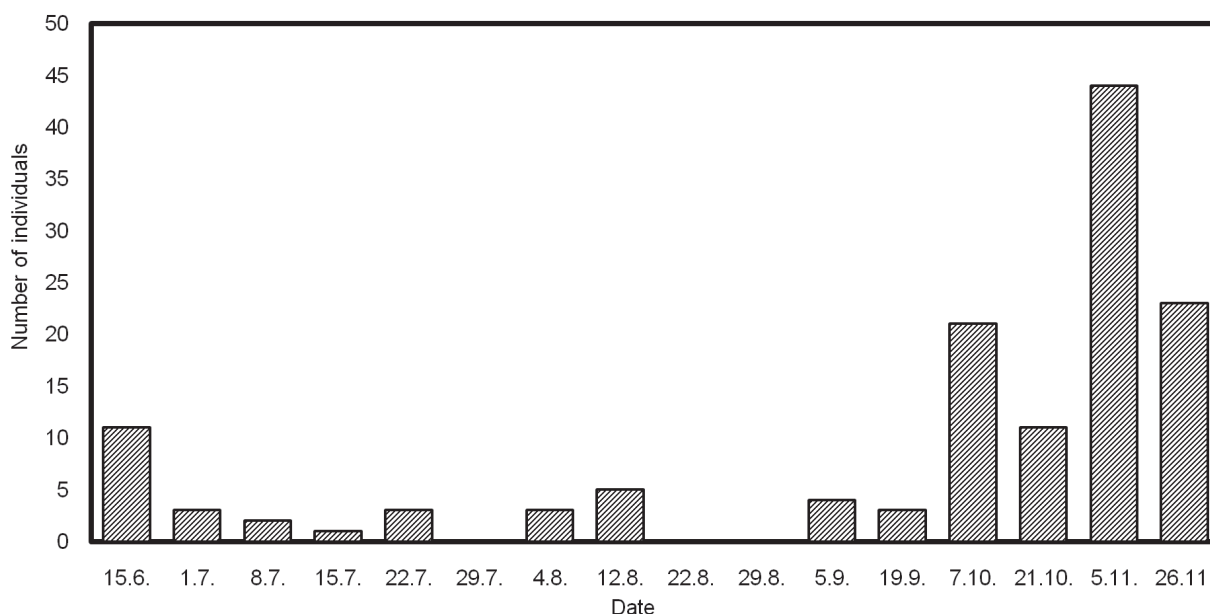


Fig. 8. Seasonal activity of *Lyciella rorida* in Alnetum, the locality Šúr (the Podunajská nížina lowland) during year 2008.

Nannomyza Frey, 1941

basalis Zetterstedt, 1847

Pachycerina Macquart, 1835

seticornis (Fallén, 1820)

Paroecus Becker, 1895

signatipes (Loew, 1856)

Peplomyza Haliday, 1837

discoidea (Meigen, 1830)

intermedia Remm, 1979

litura (Meigen, 1826)

Poecilolycia Shewell, 1986

vittata (Walker, 1849)

Pseudolyciella Shatalkin, 2000

pallidiventris (Fallén, 1820)

stylata Papp, 1978

Sapromyza Fallén, 1810

albiceps Fallén, 1820

apicalis Loew, 1847

intonsa Loew, 1847

obscuripennis Loew, 1847

obsoleta Fallén, 1820

opaca Becker, 1895

palpella Rondani, 1868

schnabli Papp, 1987

sexpunctata Meigen, 1826

simplicior Hendel, 1908

zetterstedti Hendel, 1908

Sapromyzosoma Lioy, 1864

quadricincta (Becker, 1895)

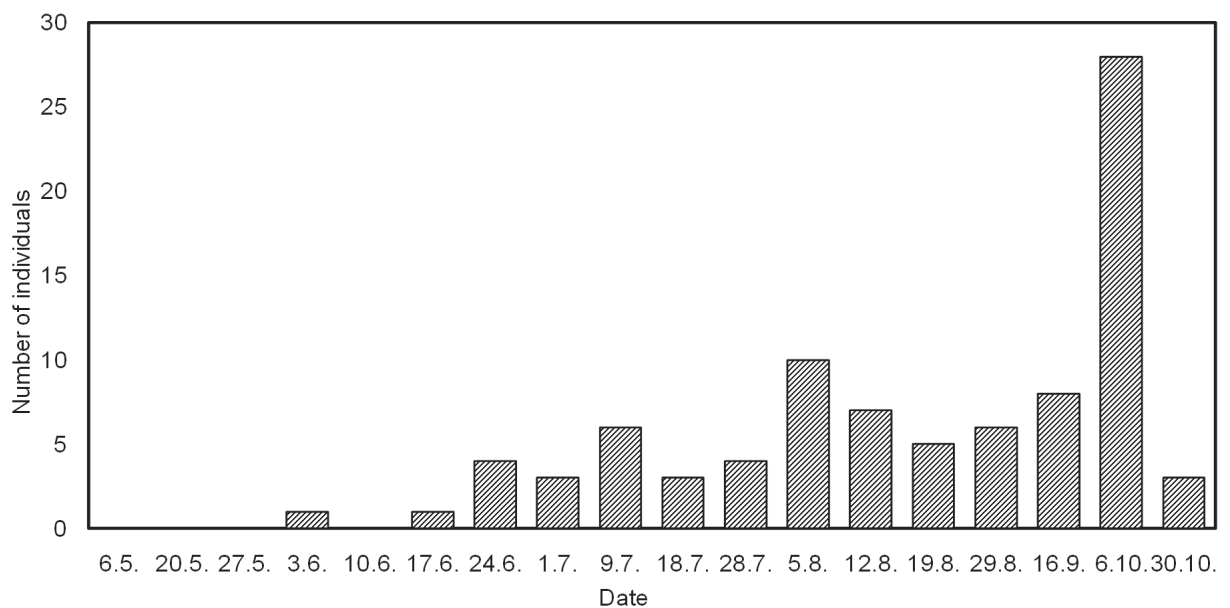


Fig. 9. Seasonal activity of *Minettia plumicornis* in the locality Bučany (the Trnavská pahorkatina) during year 2007.

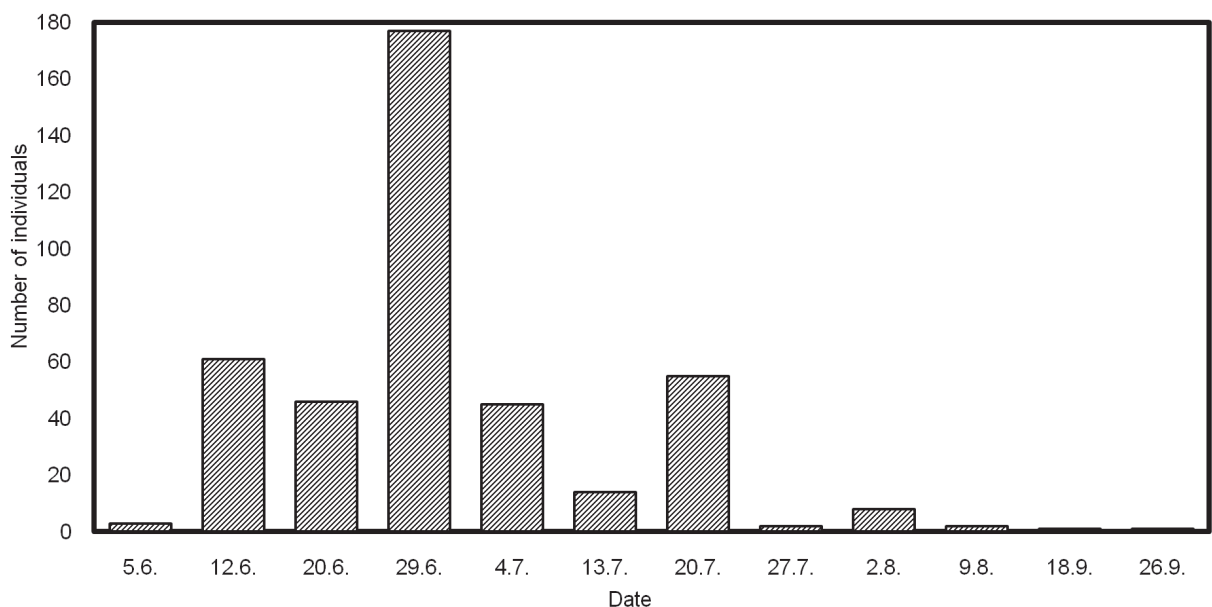


Fig. 10. Seasonal activity of *Nannomyza bosalis* in the locality Suché doly (the Muránska planina Mts) during year 2003.

quadripunctata (Linnaeus, 1767)

***Schumannimyia* Papp, 1978**

hyalinata (Meigen, 1826)

***Trigonometopus* Macquart, 1835**

frontalis (Meigen, 1830)

***Tricholauxania* Hendel, 1925**

praeusta (Fallén, 1820)

Seasonal dynamics of chosen Lauxaniidae species

A considerable proportion of Lauxaniidae specimens were collected by means of Malaise trap. The obtained data of several species occurring in enough high number allowed evaluation of their seasonal dynamics. First Lauxaniidae specimens appear in May, the latest were collected in the Octo-

ber. According to our results, all species of *Homoneura* are more restricted in their occurrence: from July to first half of October (Figs 1, 2). Occurrence of some species is irregular and extended through whole vegetation season, as in *Lyciella platycephala* (Fig. 3).

Seasonal dynamics of others implies occurring of two generations, as in *Calliopum* spp. (Figs 4, 5), *Lyciella rorida* (Fig. 6) and *Peplomyza* spp. (Figs 7, 8). Some species arise in high number in one sample, as in *Minettia plumicornis* (Fig. 9), and *Nannomyza basalis* (Figs 10, 11). Other species show a remarkable coincidence in number of specimens in one sample and in overall pattern of seasonal dynamics, as *Pseudolyciella stylata* and *P. pallidiventris* (Figs 12, 13), and also couple *C. simillum* and *C. aeneum* (Fig. 5).

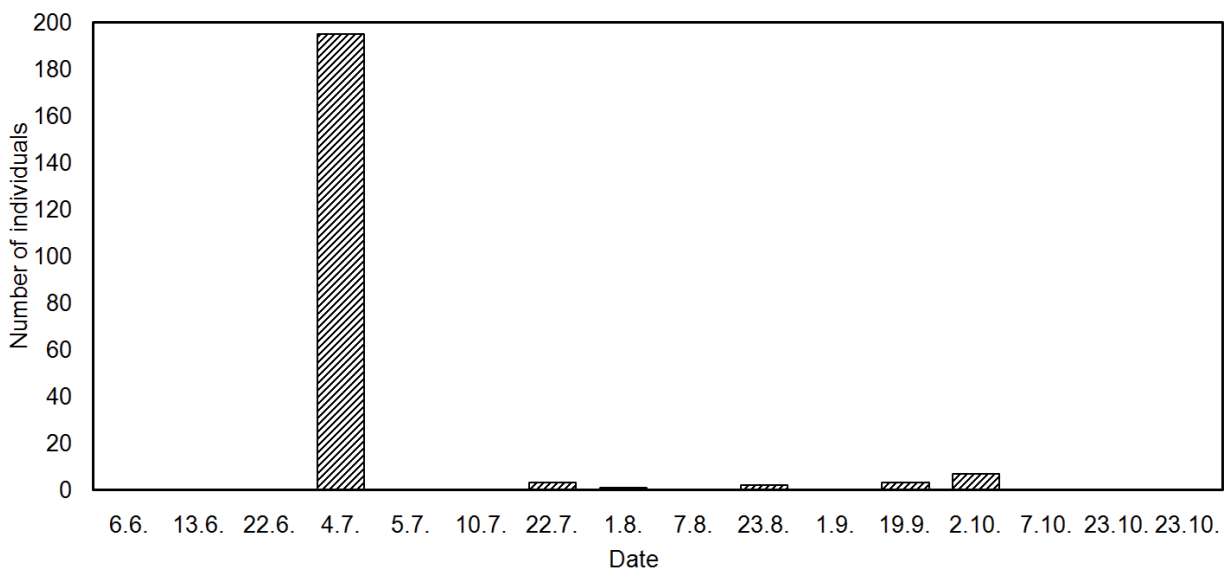


Fig. 11. Seasonal activity of *Nannomyza basalis* in the locality Tisovec – Čremošná (the Muránska planina Mts) during year 2004.

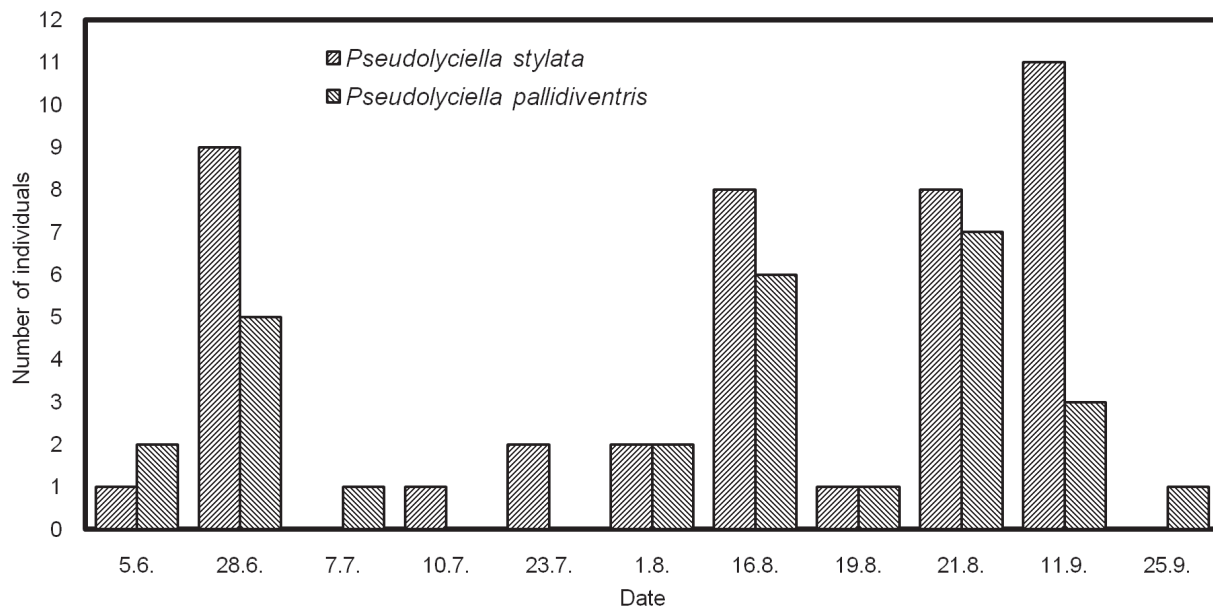


Fig. 12. Seasonal activity of *Pseudolyciella stylata* and *P. pallidiventris* in the locality Rokoš (the Strážovské vrchy Mts) during year 2008.

DISCUSSION

Slovak Lauxaniidae are fairly well-known. The first checklist of MARTÍNEK (1986) included 61 species. This list became a base for further research resulting in extended list of Lauxaniidae presented by DVOŘÁKOVÁ (2006), where altogether 65 species are listed for the territory of Slovak republic. In this work we introduce faunistic records for 58 species, two of them were previously not known from Slovakia: *Homoneura tesquae*, and *Minettia subvittata*. However, in some neighbouring countries higher number of species is known. PAPP (2001) listed 73 species known from Hungary, but at least 18 further species are expected. 72 species are known from the Czech Republic, occurrence of which cannot be excluded from Slovakia. Mainly the eastern part of Slovakia is still unexplored. Hence, we can suppose, that the real number of species living in Slovakia is higher. Based on checklists of neighbouring countries (MERZ 2007a) we can expect at least nine further species: *Calliopum geniculatum* Fabricius, 1805, *Eusapromyza poeciloptera* Loew, 1857, *Homoneura christophi* Becker, 1895, *H. consobrina* Zetterstedt, 1847, *H. lamellata* Becker, 1895, *H. modesta* Loew, 1857, *Lauxania albomaculata* Strobl, 1909, *Pachycerina pulchra* Loew, 1850 and *Sapromyza viciispunctata* Czerny, 1932.

A few species (*Schumannimyia hyalinata*, *Poecylolyca vittata* and *Nannomyza basalis*) treated in this work in different genera, are classified according to Fauna Europaea as a single genus *Sapromyza*. According to SHEWELL (1987) and PAPP & SHATALKIN (1998) some larger genera, like *Sapromyza* and *Lyciella* are considered as non-monophyletic and recognition of its numerous species groups as distinct

genera is overdue. After discussion with Merz we attached to opinion treat mentioned species as separate genera. The same goes for species *Pseudolyciella pallidiventr* and *P. stylata* classified according to Fauna Europaea as *Lyciella*. For more information see e.g. MERZ (2007b) and SHATALKIN (2000).

For interpretation of Lauxaniidae seasonal dynamics it is important to note, that the adults are mostly sedentary, resting on vegetation. As observed by MERZ (2003a), they keep places, where develop there larvae. Consequently, stable presence of a certain species implies that it is a member of this community.

On the other hand, number of specimens in one MT sample reflects abundance as well as flight activity of individual species through sample period. However, flight activity strongly underlies whether condition. Therefore, the interpretation of seasonal dynamics is very difficult, as we have no method to determine proportion of both.

Restriction of all *Homoneura* species (Figs 1, 2) to summer and early autumn months may reflect there requirements, as they are generally more thermophilous. Homoneurinae are poorly represented in North-West Europe, contrary to the Lauxaniinae (GREVE & MERZ 2003), which tend to occur even in October and November (Figs 3–13).

Some species occur irregularly through whole season (e.g. *Lyciella platycephala*, Fig. 3). This implies that at least some species are univoltine with one rather extended generation or with two or several overlapping generations, as noticed by PAPP (1979). Number of generations of Lauxaniidae species is possible to assign only with difficulty. MILL-

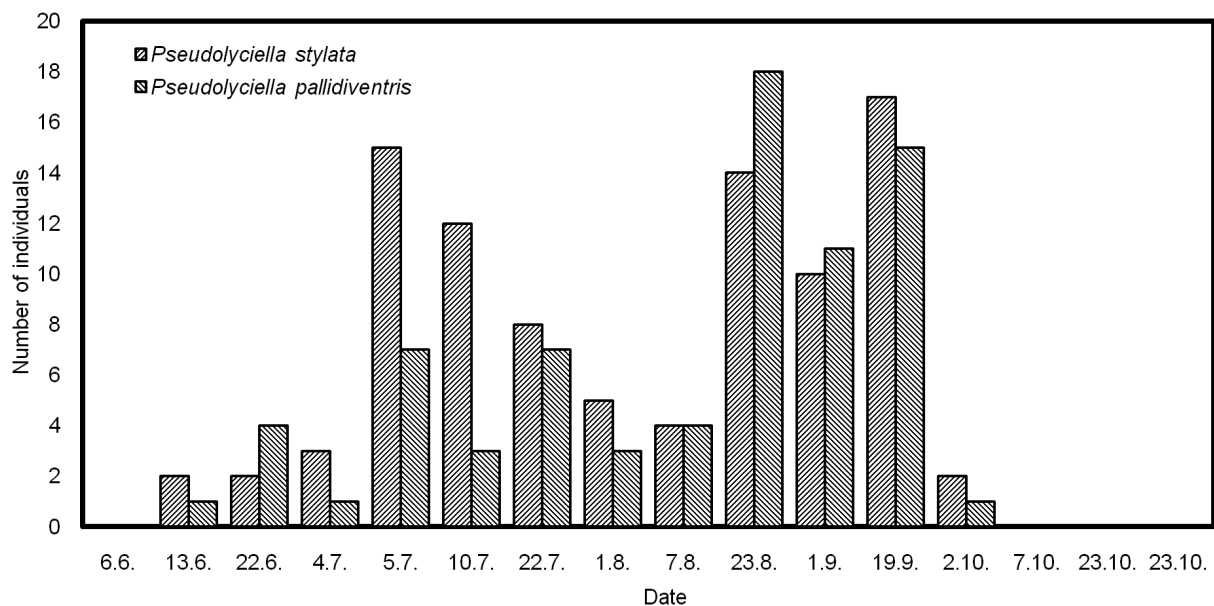


Fig. 13. Seasonal activity of *Pseudolyciella stylata* and *P. pallidiventr* in the locality Tisovec – Čremošná (the Muránska planina Mts) during year 2004.

ER (1977b) refers to species of *Homoneura* to have a partial second generation. Longevity of *Homoneura* species reared under laboratory conditions was at most 4 month (MILLER 1977b), what is in a good fit with our results: 3–4 months for *Homoneura* spp. and 4–5 months for other species. Seasonal dynamics of some Lauxaniidae suggests presence of two generations (Figs 4–8), but comparing with data from Miller, we can not state this with certainty. The question of number of generations could resolve only further research.

Calliopum simillimum is missing from earnest samples from alder forest (Fig. 4). This may be explained by specific conditions of water regime. Alder forest is in spring flooded by water from melting snow. Though oak forest is partly flooded to, the amount of water never reaches that of the alder forest. Higher number of specimens in wetland through September may reflect type of habitat: it is a non-forest community; which may be preferred due to windy conditions, which facilitate dispersion. Approximately the same pattern applies to *C. aeneum* (Fig. 5).

Very similar pattern in seasonal dynamics can be seen in *Peplomyza intermedia* (Fig. 6) and *P. litura* (Fig. 7). Comparing to *C. simillimum*, *P. intermedia* prefers dryer habitats, missing from humid alder forest.

Lyciella rorida (Fig. 8) is a very common species; in Switzerland it is especially abundant in mountains (MERZ 2003a), in Hungary it occurs only in forests (PAPP 1979). In conditions of Šúr nature reserve it clearly prefers humid forest conditions; it occurs only in three communities: wetland (1 specimen), salt meadow (7 specimens), and Alnetum (134 specimens).

An unexpected enhancement of specimens, as in *Minettia plumicornis* (Fig. 9), and most strikingly *Nannomyza basalis* (Figs 10, 11) may be a result of more intensive flight activity through a short period of year. Females are usually slightly prevailing. For example, for *N. basalis* representation of both sexes from 4.7.2004 was 103♀:90♂, and from 20.7.2003 it was 97♀:80♂. Biological significance of such behaviour may be very important; as dispersion achieves an appropriate population density, ensures colonizing of newly established habitats and compensates natural losses. Similar pattern show partly also other species, namely *Calliopum* spp. and *Peplomyza* spp.

An interesting pattern shows couple *Pseudolyciella stylata* and *P. pallidivenstris* (Figs 12, 13). Both species occurs through considerable part of vegetation season (Figs 9, 10). Females are indistinguishable (PAPP 1979), so only males are included. *P. pallidivenstris* and *P. stylata* occur in very similar numbers nearly in every sample. Together with findings that they occur frequently together at the same lo-

calities (MERZ 2003a), we may conclude, that they have probably very similar requirements for the environment and they react on ecological factors in similar manner. All this findings underlies there very close relatedness even in ecological sense.

ACKNOWLEDGEMENTS

We thank to Dr. László Papp for determination of *Homoneura tesque* (Becker, 1895) and *H. remmi* Papp, 1978 and also to Dr. Bernhard Merz and Dr. Kateřina Dvořáková – Marsová for valuable information about taxonomy and nomenclature of Lauxaniidae.

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