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First records of *Pemphigus fuscicornis* (Homoptera, Pemphigidae) from Slovakia

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Sugar beet aphid, *Pemphigus fuscicornis* (Koch, 1857) (Homoptera, Pemphigidae), is an important pest of sugar beet in E Europe (ČAMPRAĀ et al., 2003). It is known from Poland (HEIE, 1980), Hungary, Bulgaria, Romania, Serbia, Croatia (ČAMPRAĀ et al., 2003), Greece (IOANIDIS, 1996), Ukraine and Russia (PISNYA & FEDORENKO, 1988). Distribution in W Europe is little known (HEIE, 1980). Accounts are available only for Germany (BOSCH & DUDA, 1994), Denmark, Sweden (HEIE, 1980) and Finland (ALBRECHT et al., 1996). Except Europe, there are records from Asia: Georgia, Armenia, Kazakhstan (ČAMPRAĀ et al., 2003) and Iran (SHADMEHRI et al., 2001). Until now, no information has been available about *P. fuscicornis* in Slovakia, but its occurrence was expected.

The species is similar to *P. bursarius*, but greyish green, not whitish yellow (HEIE, 1980). The rear portion of the body produces a mass of white waxy material. The aphids are most readily seen in the white mold-like material that is found on the infested roots and in the surrounding soil. The aphid is associated with fibrous roots rather than the main root. Although HEIE (1980) mentioned the primary host is unknown, BOSCH & DUDA (1994) noted that winged adults migrate from roots of secondary hosts (Chenopodiaceae)

to the cottonwood trees (*Populus* sp.) that are primary hosts, and lay their eggs there. On the other hand, anholocyclic populations often persist all year on secondary hosts (ČAMPRAĀ et al., 2003).

P. fuscicornis lives on roots of *Matricaria* sp., *Tripleurospermum* sp. (ALBRECHT et al., 1996) and wild and cultivated species from the family Chenopodiaceae, including sugar beet *Beta vulgaris* prov. *altissima* (Doell) (= *Bva*) (PISNYA, 1986). We recorded lambsquarters *Chenopodium* sp. (= *Ch.*), oraches *Atriplex* sp., sugar beet and red beet *B. vulgaris* prov. *conditiva* (Alef.) (= *Bvc*) as host plants in Slovakia. The results of this study show that *P. fuscicornis* is usual insect in SW Slovakia with high potential to become an important pest of sugar beet.

Material examined. SW Slovakia, wingless and winged (w) females of *P. fuscicornis* were found during July, September and October at 31 sites/host plant for each site is mentioned: **Branč** (48°13' N, 18°09' E, 7774 = grid reference number of the Databank of the Fauna of Slovakia), 137 m a.s.l., 26.IX.2003, 61 ♀♀, 11(w) ♀♀/*Bva*; *Ch.*; **Čeladice** (48°20' N, 18°15' E, 7675), 170 m a.s.l., 25.IX.2003, 33 ♀♀, 35(w) ♀♀/*Bva*; *Bvc*; *Ch.*; **Dolný Štál** (47°56' N, 17°43' E, 8072), 112 m a.s.l., 23.IX.2003, 38 ♀♀/*Bva*; *Ch.*; **Domadice**

(48°11' N, 18°47' E, 7878), 168 m a.s.l., 3.X.2003, 44 ♀♀, 2(w) ♀♀/Ch.; **Hontianska Vrbica** (48°08' N, 18°43' E, 7878), 173 m a.s.l., 3.X.2003, 52 ♀♀, 1(w) ♀♀/Ch.; **Hontianske Moravce** (48°11' N, 18°51' E, 7879), 159 m a.s.l., 3.X.2003, 83 ♀♀, 2(w) ♀♀/Ch.; **Hosťová** (48°20' N, 18°13' E, 7675), 198 m a.s.l., 25.IX.2003, 56 ♀♀, 5(w) ♀♀/Ch.; **Hurbanovo** (47°52' N, 18°12' E, 8175), 115 m a.s.l., 11.X.2003, 48 ♀♀, 18(w) ♀♀/Ch.; **Jelka** (48°09' N, 17°31' E, 7871), 123 m a.s.l., 13.X.2003, 35 ♀♀, 16(w) ♀♀/Ch.; **Kostolné Kračany** (47°59' N, 17°35' E, 8071), 117 m a.s.l., 23.IX.2003, 24 ♀♀/Bva; Ch.; **Lipová**, časť Ondrochov (48°08' N, 18°11' E, 7875), 126 m a.s.l., 26.IX.2003, 25 ♀♀/Ch.; **Maňa** (48°09' N, 18°17' E, 7875), 131 m a.s.l., 11.X.2003, 9 ♀♀, 2(w) ♀♀/Ch.; **Nemčiňany** (48°18' N, 18°28' E, 7676), 212 m a.s.l., 2.X.2003, 28 ♀♀, 36(w) ♀♀/Ch.; **Nevidzany** (48°17' N, 18°23' E, 7776), 181 m a.s.l., 2.X.2003, 49 ♀♀, 2(w) ♀♀/Ch.; **Nová Dedina** (48°17' N, 18°40' E, 7777), 190 m a.s.l., 3.X.2003, 37 ♀♀, 39(w) ♀♀/Ch.; **Kostolné Kračany**, časť Pinkové Kračany (47°58' N, 17°35' E, 8071), 119 m a.s.l., 23.X.2003, 31 ♀♀/Bva; Ch.; **Pribeta** (47°54' N, 18°19' E, 8075), 135 m a.s.l., 11.X.2003, 39 ♀♀, 3(w) ♀♀/Ch.; **Santovka** (48°09' N, 18°46' E, 7878), 162 m a.s.l., 3.X.2003, 45 ♀♀/Ch.; **Sokolce** (47°51' N, 17°50' E, 8172), 112 m a.s.l., 23.IX.2003, 19 ♀♀, 7(w) ♀♀/Bva; Ch.; **Tehla** (48°11' N, 18°23' E, 7876), 180 m a.s.l., 1.X.2003, 65 ♀♀, 3(w) ♀♀/Ch.; **Tlmače** (48°17' N, 18°32' E, 7777), 220 m a.s.l., 2.X.2003, 47 ♀♀/Ch.; **Tomášikovo** (48°05' N, 17°42' E, 7972), 118 m a.s.l., 23.IX.2003, 4 ♀♀/Bva; **Tôň** (47°48' N, 17°50' E, 8173), 112 m a.s.l., 23.IX.2003, 60 ♀♀/Ch.; **Trávnica** (48°09' N, 18°20' E, 7876), 130 m a.s.l., 26.IX.2003, 79 ♀♀/Ch.; **Veľké Chyndice** (48°17' N, 18°18' E, 7775), 190 m a.s.l., 12.VII.2003, 53 ♀♀/Ch.; **Veľký Cetín** (48°13' N, 18°12' E, 7875), 130 m a.s.l., 6.X.2003, 28 ♀♀/Ch.; **Vlkanovo** (47°57' N, 18°14' E, 8075), 130 m a.s.l., 11.X.2003, 22 ♀♀, 2(w) ♀♀/Ch.; **Vráble** (48°15' N, 18°19' E, 7775), 142 m a.s.l., 23.X.2003, 22 ♀♀, 1(w) ♀♀/*Atriplex* sp., Ch.; **Záhorská Ves** (48°22' N, 16°51' E, 7667), 149 m a.s.l., 12.X.2003, 6 ♀♀/Ch.; **Zlaté Klasy** (48°07' N, 17°25' E, 7870), 124 m a.s.l.,

13.X.2003, 25 ♀♀, 5(w) ♀♀/Ch.; **Zohor** (48°15' N, 16°58' E, 7667), 146 m a.s.l., 12.X.2003, 74 ♀♀, 2(w) ♀♀/Ch. Leg. P. Tóth, M. Tóthová et J. Tancik; det. et. coll. J. Holman et P. Tóth.

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