

Heteropterous insects collected by light traps in Edirne (Turkey)

Feyzi ÖNDER*

Erim ÜNAL**

Ayla ÜNAL***

Summary

This study deals with Heteropterous insects collected by light traps settled in the experimental fields of Plant Production Institute, Edirne, during 1978-1981. By this method, 128 species of 12 families of Heteroptera have been encountered. *Sigara nigrolineata* (Fieb.) (Corixidae); *Perithrecus gracilicornis* (Put.), *P. angusticollis* (R.Sb.) (Lygaeidae); *Exolygus pratensis* (L.), *E. rugulipennis* (Popp.), *Adelphocoris lineolatus* (Gz.) and *Trigonotylus ruficornis* (G.) (Miridae) have been found as the most abundant species.

Introduction

A great number of Heteropterous insects are attracted by light. Recently some studies on the trapping by light of these insects have been done in Turkey, e.g. Hoberlant (1961) in Ankara; Önder and Adıgüzel (1979) in Diyarbakır; Önder et al. (1981) in the northwestern part of Turkey (Bolu, Bursa, İstanbul, Kocaeli, Sakarya).

Material and Method

This study carried out in Edirne from March through September, 1979-1981. The used light traps were equipped with an electric lamp of 100 W and attached 90 cm above the ground. Heteropterous specimens were daily separated, mounted and sent by the junior authors to the senior author for identification.

* University of Ege, Faculty of Agriculture, Department of Plant Protection Bornova-Izmir/Turkey.

** Plant Protection Institute, Erenköy-Istanbul/Turkey.

*** Institute of Monopole, Department of Plant Protection, Cevizli-Istanbul/Turkey.
Received (Almış) : 28.3.1984

Results

The obtained results from this study are presented as below. Total number of the collected specimens is shown in bracket.

CORIXIDAE

Callicorixa concinna (Fieb.)

In May (1), in June (11), in July (10), in August (4), and in September (1).

Micronecta perplexa (Horv.)

In June (1) and in August (1).

Sigara nigrolineata (Fieb.)

In June (35), in July (172), in August (134), in September (33).

SALDIDAE

Chartoscirta cincta (H.-S.)

In June (2).

Saldula variabilis (H.-S.)

In June (14), in July (8), in August (3).

VELIIDAE

Microvelia pygmaea (Df.)

In June (1).

ANTHOCORIDAE

Lycocoris dimidiatus (Spin.)

In June (1), in September (1).

Orius horvathi (Reut.)

In June (1).

O. niger (W.)

In September (2).

O. laevigatus (Fieb.)

In August (6).

O. majusculus (Reut.)

In June (6) and in August (1).

MIRIDAE

Adelphocoris insignis (Horv.)

In June (1).

A. lineolatus (Gz.)
In May (11), in June (151), in July (61), in August (63), in September (14).

A. seticornis (F.)
In August (1).

A. vandalicus (R.)
In June (11), in July (3).

Agnocoris reclairei (Wgn)
In June (20).

Amblytylus concolor (Jak.)
In June (41), in August (1).

A. nasutus (Kbm.)
In June (10).

Atomoscelis onustus (Fieb.)
In June (1), in August (1).

Blepharidopterus angulatus (Fall.)
In June (1).

Brachycoleus steini (Reut.)
In June (9).

Calocoris norvegicus (Gmel.)
In June (3).

Campylomma annulicornis (Sign.)
In June (36), in July (3).

C. diversicornis (Reut.)
In June (22), in July (2), in August (7), in September (1).

C. nicolasi (Reut.)
In June (3), in July (2), in August (4), in September (1).

C. verbasci (M.D.)
In March (1), in May (2), in June (3), in July (4), in August (26),
in September (3).

Charagochilus gyllenhali (Fall.)
In June (8), in August (9).

Cyllecoris histrionicus (L.)
In June (1).

Cyphodema instabile (Luc.)
In June (1).

Deraeocoris lutescens (Schl.)

In June (1), in September (1).

D. rutilus (H.-S.)

In June (14), in August (1).

D. serenus (D.Sc.)

In June (32), in July (12), in August (2), in September (2).

D. ventralis Reut.

In June (2), in August (1).

Dicyphus cerastii Wgn

In April (1), in September (1).

Exolygus gemellatus (H.-S.)

In June (1), in July (1).

E. pratensis (L.)

In May (3), in June (238), in July (27), in August (112), in September (15).

E. rugulipennis Popp.

In May (14), in June (1495), in July (108), in August (276), in September (43).

Globiceps horvathi (Reut.)

In June (4).

Heterocordylus genistae (Scop.)

In June (1).

Leptoterna ferrugata (Fall.)

In May (1), in June (1).

Liocoris tripustulatus (F.)

In June (1).

Lopus decolor (Fall.)

In June (4), in July (1).

Macrolophus costalis Fieb.

In June (7), in July (1), in August (6), in September (6).

M. nubilus (H.-S.)

In June (2), in July (1), in August (1), in September (1).

Macrotylus horvathi Reut.

In June (8), in July (5), in August (1).

M. paykulli (Fall.)

In June (1).

Megalocoleus molliculus (Fall.)

In May (19), in June (252), in July (1), in August (24), in September (1).

M. pilosus (Schrk.)

In August (1).

Mimocoris rugicollis (C.)

In June (2).

Miridius quadrivirgatus (C.)

In June (6), in August (1), in September (1.)

Nanopsallus carduellus (Horv.)

In June (1).

Oncotylus setulosus (H.-S.)

In July (1).

O. viridiflavus (Gz.)

In May (1), in June (150), in July (42), in September (5).

Opisthotaenia fulvipes (Reut.)

In May (1), in June (8), in August (1).

Orthocephalus ferrarii (Reut.)

In August (1).

O. saltator (H.)

In June (5), in August (1).

Orthops basalis (C.)

In June (1).

O. campestris (L.)

In June (12), in July (10), in August (10), in September (2).

O. kalmi (L.)

In June (14), in July (2), in August (4), in September (3).

O. obscurus Reut.

In May (2), in June (3).

Orthotylus concolor (Kbm.)

In June (1), in August (2).

O. cupressi (Reut.)

In June (2), in July (1).

O. flavosparsus (C.Sb.)

In June (40), in July (10), in August (22), in September (31).

O. marginalis (Reut.)

In June (10), in August (1).

O. moncreaffi (D.Sc.)

In June (6), in August (3), in September (8).

O. nassatus (F.)

In June (1), in August (1), in September (1).

O. prasinus (Fall.)

In June (2), in July (1), in August (2), in September (8).

O. tenellus (Fall.)

In June (3), in August (2), in September (1).

O. viridinervis (Kbm)

In June (28), in August (9), in September (25).

Phylus melanocephalus (L.)

In June (3).

Phytocoris chardoni (Put.)

In June (14).

P. seidenstückkeri (Wgn)

In May (1), in June (30), in July (4), in August (4), in September (5).

Pilophorus pusillus (Reut.)

In June (5), in September (1).

Plagiognathus bipunctatus (Reut.)

In May (4), in June (130), in July (8), in August (4), in September (2).

P. flavipes (Reut.)

In June (2).

P. fulvipennis (Kbm)

In June (69), in August (1).

Plagiorrhama suturalis (H.-S.)

In June (1), in July (1).

Polymerus cognatus (Fieb.)

In June (3), in July (1), in August (2).

P. holosericeus (H.)

In May (2), in June (1).

P. palustris Reut.

In May (1), in June (1).

P. unifasciatus (F.)

In June (1).

- P. vulneratus** (Pz.)
In June (1).
- Psallus pardalis** (Seid.)
In May (1), in August (1).
- P. perrisi** (Ms.)
In June (4).
- Stenodema calcaratum** (Fall.)
In June (8), in July (6), in August (23).
- S. virens** (L.)
In July (2), in August (3).
- Stenotus binotatus** (F.)
In June (7).
- Sthenarus quercicola** (Reut.)
In June (1).
- S. roseri** (H.-S.)
In June (26), in July (1), in September (1).
- S. rotermundi** (Sch.)
In June (1).
- Systellonotus triguttatus** (L.)
In June (1).
- Taylorilygus pallidulus** (Bch.)
In June (3), in August (1), in September (3).
- Trigonotylus pallidicornis** Reut.
In June (7), in August (4), in September (6).
- T. pulchellus** (H.)
In June (27), in July (3), in August (6), in September (7).
- T. ruficornis** (G.)
In May (1), in June (264), in July (61), in August (86), in September (41).
- Tuponia brevirostris** (Reut.)
In June (1).
- T. macedonica** (Wgn)
In June (45).
- T. michalki** (Wgn)
In June (4), in July (1), in August (1).

NABIDAE

Himacerus mirmicoides (O.C.)

In July (1).

Nabis pseudoferus (Rm.)

In May (1), in June (69), in July (13), in August (8).

REDUVIIDAE

Oncocephalus acutangulus Reut.

In June (2).

O. squalidus (R.)

In May (14), in June (65), in July (1), in August (5), in September (2).

Pirates hybridus (Scop.)

In August (3).

Reduvius personatus (L.)

In June (1).

TINGIDAE

Acalypta marginata (W.)

In June (1).

LYGAEIDAE

Arocatus longiceps (Stal)

In March (9).

Beosus quadripunctatus (Ml.)

In July (1), in September (2).

Cymus melanocephalus (Fieb.)

In June (2).

Emblethis denticollis (Horv.)

In August (3).

Holcocranum saturejae (Klt.)

In June (19).

Lamprodema maurum (F.)

In June (4), in July (1), in August (3).

Megalonotus sabulicola (Th.)

In June (1).

Megalonotus sp. nr. *sabulicola* (Th.)

In June (3), in August (1), in September (1).

Metopoplax origani (Klt.)

In June (18), in August (1).

Nysius cymoides Spin.

In June (5), in July (1), in August (13), in September (6).

N. graminicola (Klt.)

In June (1).

Peritrechus ambiguus (Horv.)

In June (1), in July (1).

P. angusticollis (R.Sb.)

In June (310), in July (41), in August (4), in September (7).

P. gracilicornis (Put.)

In May (1), in June (392), in July (71), in August (9), in September (1).

Plinthisus ptilioides (Put.)

In June (342), in July (1), in August (146).

Rhyparochromus concors (Horv.)

In July (1).

Thaumastopus taurus (C.)

In June (49), in July (1), in August (7).

RHOPALIDAE

Brachycarenum tigrinus (Schl.)

In June (13).

PENTATOMIDAE

Acrosternum millieri (M.-R.)

In August (1).

Eurydema ornatum (L.)

In June (1), in August (1).

Eysarcoris inconspicuus (H.-S.)

In July (2), in August (1).

Holcostethus vernalis (W.)

In June (1).

CYDNIIDAE

Sehirus morio (L.)

In July (1).

Acknowledgements

The authors wish to acknowledge with grateful thanks the facilities provided by Dr. E. Indelen and Mr. B. Kırıl, Plant Production Institute of Edirne.

Ö z e t

Edirne'de ışık tuzaklarında saptanan Heteroptera türleri

1978-1981 yılları arasında Edirne Ziraî Araştırma Enstitüsü deneme tarla ve bahçelerinde 100 Watt'lık ampülle aydınlatılmış ışık tuzakları kullanılmış ve tuzaklarda yakalanan Heteroptera türleri bu çalışmada ele alınmıştır. Yapılan incelemeler sonucunda 12 familyaya bağlı 128 tür saptanmıştır. Mevcut türler içinde yoğunluk itibarıyla en yüksek düzeyde olan türler: *Sigara nigrolineata* (Fieb.) (Corixidae); *Perithrechus gracilicornis* (Put.), *P. angusticollis* (R.Sb.) (Lygaeidae); *Exolygus pratensis* (L.), *E. rugulipennis* (Popp.), *Adelphocoris lineolatus* (Gz.) ve *Trigonotylus ruficornis* (G.) (Miridae)'tir.

Literature cited

- Hoberlandt, L., 1961. Heteroptera collected in Ankara (Turkey) by light trap. *Acta ent. Mus. natn. Pragae*, 34 (590) : 399-416.
- Önder, F. and N. Adıgüzel, 1979. Some Heteroptera collected by light trap in Diyarbakır (Turkey). *Türk. Bit. Kor. Derg.*, 3 (1) : 25-34.
- , A. Ünal and E. Ünal, 1981. Heteroptera fauna collected by light traps in some districts of northwestern part of Anatolia. *Ibid.*, 5 (3) : 151-169.