

A STUDY ON THE HETEROPTERA FAUNA OF SHEND ABAD REGION AND ENVIRON (IRAN)

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ABSTRACT: During 2006-2007, in the course of faunistic survey of Heteroptera in Shend Abad region and environ (located in East Azarbaijan in Iran), 38 species belonging to 14 families were collected and identified. All species are first records from the region.

KEY WORDS: faunistic, Heteroptera, Shend Abad, first record.

The Heteroptera insects feed on plant juices or live as predators. Many of such insects that feed on the plant are known as serious plant pests (Safavi, 1973).

Many species of true bugs catch other insects and Acarina, and have many benefits from an agricultural point of view (Linnavuori & Hosseini, 2000).

MATERIAL AND METHODS

Shend Abad is one of the most important agricultural regions in East Azarbaijan province in Iran. This region (38° 8' N, 45° 37' E) is located in the northwest (71 kilometers) of Tabriz.

Research of the Heteroptera was performed in the period of 2006 to 2007. Samples have been taken from different parts of Shend Abad region and environ.

The true bugs were collected by sweeping net, light trap, aspirator and also some specimens trapped by hand. The specimens were put into jars filled with 70% alcohol. All collected specimens were mounted. The material housed in the collection of Agriculture Faculty of Tabriz University in Iran.

All specimens were identified by the authors and confirmed by foreign experts.

RESULTS

In this study thirty eight species belonging to fourteen families of the Heteroptera have been studied.

Family Notonectidae Latreille, 1968

Notonecta glauca Linnaeus, 1758

Material examined: Shend Abad: 1 specimen, August 2006. From water.

Family Tingidae Laporte, 1877

Stephanitis pyri (Fabricius, 1775)

Material examined: Koushk: 6 specimens, May 2006; Shend Abad: 11 specimens, June 2007. From apple orchards.

Note: This species has been collected from different regions of Iran on apple, pear, cherry, peach, japans quince, pyrus, white-thorn, plum, roses, malus, cerasus, alder, oak (Modarres Awal, 2002).

Family Miridae Hahn, 1831***Adelphocoris lineolatus* Geoze, 1778**

Material examined: Shend Abad: 10 specimens, June 2006. On lucerne.

Note: The species has generally distribution in Iran on sugar-beet, cotton, tamarisk, sainfoin (Modarres Awal, 2002).

***Deraeocoris punctulatus* (Fallen, 1801)**

Material examined: Koushk: 2 specimens, May 2006. On weeds.

***Lygus rugulipennis* Poppius, 1911**

Material examined: Shend Abad: 23 specimens, July 2007. On lucerne.

***Notostira elongata* (Geoffroy 1785)**

Material examined: Shend Abad: 5 specimens, August 2007. On weeds.

Family Nabidae Costa, 1852***Nabis Pseudoferrus* Remane, 1949**

Material examined: Shend Abad: 3 specimens, April 2006. On weeds.

Note: The species is predator and collected on sainfoin and lucerne (Modarres Awal, 2002).

Family Anthocoridae Fieber, 1836***Anthocoris nemorum* (Linnaeus, 1761)**

Material examined: Koushk: 5 specimens, May 2007. On *Populus nigra nigra*(L.)

Note: Predator of *Psylla pyricola*, *Anthonomus pomorum*, *Euzophera bigella*, *Hyponomeuta malinellus* and aphids (Modarres Awal, 2002).

***Anthocoris nemoralis* (Fabricius, 1794)**

Material examined: Shend Abad: 3 specimens, May 2007. On weeds.

Note: Predator of aphids and *Psylla pyricola*

Family Reduviidae Latreille, 1807***Coriomeris affinis* (Herrich-Schäffer, 1839)**

Material examined: Shend Abad: 2 specimens, August 2006. On weeds.

***Ectomocoris ululans* (Rossi, 1790)**

Material examined: Koushk: 3 specimens, June 2006.

Family Lygaeidae Schilling, 1829***Emblethis ciliatus* Horváth, 1875**

Material examined: Shend Abad: 4 specimens, July 2007. On ground.

***Lamprodema maurum* (Fabricius, 1803)**

Material examined: Shend Abad: 1 specimen, June 2007. On lucerne.

***Lethaeus picipe* (Herrich-Schäffer, 1850)**

Material examined: Koushk: 1 specimen, September 2006. On weeds.

***Peritrechus rhomboidalis* Puton, 1877**

Material examined: Shend Abad: 2 specimens, July 2007. On weeds.

Family Pyrrhocoridae Dohrn, 1859***Pyrrhocoris apterus* Linnaeus, 1768**

Material examined: Shend Abad: 5 specimens, July 2006. From *Helianthus annus* L.

Note: The species has been collected from East Azarbaijan, Khorasan, Tehran, Khozestan, Fars, Gilan and Gorgan provinces in Iran (Modarres Awal, 2002).

***Pyrrhocoris marginatus* (Kolenati, 1845)**

Material examined: Shend Abad: 3 specimens, August 2007. On weeds.

Family Stenocephalidae Dallas, 1852***Dicranocephalus setulosus* (Ferrari, 1874)**

Material examined: Shend Abad: 1 specimen, May 2006. On weeds.

Family Coreidae Leach, 1815***Coreus marginatus* Linnaeus, 1758**

Material examined: Shend Abad: 4 specimens, August 2007. On weeds.

***Coriomeris scabricornis* (Panzer, 1809)**

Material examined: Shend Abad: 2 specimens, September 2007. On ground.

***Phyllomorpha lacerata* Herrich –Shaffer, 1835**

Material examined: Shend Abad: 1 specimen, June 2006. On ground.

Family Rhopalidae Amyot and Serville, 1843***Corizus hyoscyami* Linnaeus, 1758**

Material examined: Koushk: 3 specimens, August 2007. On weeds.

***Maccevetus caucasicus* (Kolenati, 1845)**

Material examined: Shend Abad: 1 specimen, March 2007. On ground.

Family Cydnidae Billberg, 1820***Cydnus aterrimus* Foster, 1771**

Material examined: Shend Abad: 2 specimens, August 2006. Collected by Light trap.

***Tritomegas sexmaculatus* (Rambur, 1839)**

Material examined: Shend Abad: 1 specimens, September 2006. Collected by Light trap.

Family Scutelleridae Leach, 1815***Eurygaster integriceps* Putton, 1886**

Material examined: Shengel Abad: 5 specimens, July 2007. On wheat.

Note: This species has generally distribution in Iran (Modarrese Awal, 2002).

***Eurygaster maura* (Linnaeus, 1758)**

Material examined: Shengel Abad: 3 specimens, August 2006. On wheat.

Family Pentatomidae Leach, 1815***Aelia rostrata* Bohemann, 1852**

Material examined: Shengel Abad: 2 specimens, July 2006. On wheat.

Note: Wheat, barley and wild gramineae are the host of the species (Modarreas Awal, 2002).

***Anthemina lunulata* (Goeze, 1778)**

Material examined: Shend Abad: 1 specimen, September 2007. On *Populus nigra nigra* (L.)

***Apodiphus amygdali* Germar, 1817**

Material examined: Shend Abad: 2 specimens, June 2007. On *Armenia vulgaris* L.

Note: This species has been collected from Tehran, Fars, Markazi, Kerman, Hormozgan, Semnan, Balouchestan, Esfahan provinces in Iran on poplar, almond, apricot, oriental plane, pistachio, tamarisk, oak, tung (Modarres Awal, 2002).

***Brachynema germari* (Kolenati, 1846)**

Material examined: Koushk: 1 specimen, July 2006. On weeds.

***Carpocoris coreanus* Distant, 1899**

Material examined: Shend Abad: 4 specimens, May 2007. From lucerne.

***Carpocoris fuscispinus* (Bohemann, 1849)**

Material examined: Koushk: 3 specimens, September 2006. On lucerne.

Note: The species has distribution in East Azarbaijan, Mazandaran, Zanjan, Tehran, Esfahan, Khorasan, Lorestan in Iran on Lucerne, lupine, wheat, sugar-beet (Modarres Awal, 2002).

***Carpocoris lunata* Fallen, 1852**

Material examined: Koushk: 5 specimens, June 2006. On weeds.

***Carpocoris purpureipennis* (DeGeer, 1773)**

Material examined: Koushk: 2 specimens, September 2007. On lucerne.

***Graphosoma lineatum* (Linnaeus, 1758)**

Material examined: Koushk: 3 specimens, June 2006. From cucurbitaceae family plants.

***Neottiglossa irana* Wagner, 1963**

Material examined: Koushk: 1 specimen, August 2006. On weeds.

***Palomena prasina* (Linnaeus, 1761)**

Material examined: Koushk: 1 specimen, July 2007. On ground.

Among the collected species in the study families Miridae and Pentatomidae had the most frequency and families Notonectidae and Stenocephalidae had the least frequency.

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