

INTRODUCTION OF SOME HETEROPTERA OF QURIGOL (IRAN)

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ABSTRACT: In order to carry out a faunistic study on Heteroptera in Qurigol districts in East Azarbaijan province (Iran) 28 species from 12 families were collected and identified, of which one species, *Polymerus brevisrostris* Knight, 1925 is new record for the fauna of Iran.

KEY WORDS: Heteroptera, Qurigol, faunistic study, first record

True bugs (Heteroptera) are very important from an agricultural point of view. Their feeding strategies are diverse: predator forms feed on other insects and are a benefit in biological control. Plant sap sucker species are known as serious plant pests (Linnavuori & Hosseini, 2000). There are also parasitic species that feed on vertebrate blood (Borror et al., 1989).

MATERIAL AND METHODS

Qurigol lake is one of the most important water resources in East Azarbaijan province. This international ecosystem has a substantial ecological study for environmental experts.

This region (37° 55' - 37° 56' N, 46° 42' - 46° 44' E) is located 42 kilometers Tabriz in Iran. In the district nursery plants, pasture plants, lucern, cereal, potato, willow, poplar and fruit trees are grown.

The true bugs were collected from trees, weeds, fields of cereals, hibernating habitats, soil and water by small shovel, sweeping net, aspirator, light trap during 2002-2004. The material housed in the collection of Agriculture Faculty of Tabriz University in Iran. All of them are reported for the first time from the region.

In this study, materials has been identified by the authors and confirmed by foreign experts.

RESULTS

In this study twenty eight species belonging to twelve families of the Heteroptera have been studied.

Family Corixidae Leach, 1815

***Corixa punctata* (Illiger, 1807)**

Material examined: Qurigol: 6 specimens, June 2003. From water.

***Sigara nigrolineata* (Fieber, 1848)**

Material examined: Qurigol: 9 specimens, August 2003. From water.

Family Pleidae Fieber, 1851

***Plea minutissima* Leach, 1817**

Material examined: Qurigol: 5 specimens, June 2004. From water

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

Material examined: Korgan, Yousef Abad: 240 specimens, August 2003. On Lucerne

Note: The species is commonly distributed in Iran on sugar-beet, cotton, tamarisk, sainfoin (Modarres Awal, 2002).

***Deraeocoris pallens* (Reuter, 1856)**

Material examined: Korgan: 70 specimens, September 2002. On weeds.

Note: Pradator of aphids and reported from Tehran province in Iran. Collected from lucern (Modarres Awal, 2002).

***Lygus pratensis* (Linnaeus, 1758)**

Material examined: Korgan: 250 specimens, September 2002. On weeds.

Note: This species is commonly distributed in Iran and collected from lucern, cotton, sugar-beet, potato, sainfoin ((Modarres Awal, 2002).

***Lygus rugulipennis* Poppius, 1911**

Material examined: Korgan: 120 specimens, September 2002. On potato

***Polymerus brevirostris* Knight, 1925**

Material examined: Korgan: 39 specimens, July 2002. On lucern.

Note: New record for the fauna of Iran.

***Stenodema turanicum* (Reuter, 1904)**

Material examined: Yousef Abad: 42 specimens, August 2003. On weeds.

Note: The species reported from Balouchestan, Markazi, Kerman provinces in Iran.

Family Anthocoridae Fieber, 1836***Orius niger* (Wolff, 1811)**

Material examined: Korgan: 90 specimens, July 2004. On lucern.

Note: Predator and distributed in East Azarbaijan province (Modarres Awal, 2002).

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

Material examined: Khire Masjed: 16 specimens, May 2003. On lucerne.

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

Family Lygaeidae Schilling, 1829***Aphanus rolandri* (Linnaeus, 1778)**

Material examined: Khire Masjed: 4 specimens, June 2002. On weeds.

***Nysius senecionis* (Shilling, 1829)**

Material examined: Khire Masjed: 25 specimens, May 2003. On weeds

Coreidae Leach, 1815 Family***Ceraleptus gracilicornis* (Herrish-Shaffer, 1833)**

Material examined: Khire Masjedi: 12 specimens, June 2002. On potato

***Coreus marginatus* Linnaeus, 1758**

Material examined: Korgan: 5 specimens, May 2003, 2 specimens, June 2004. On *Cirsium*.

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

Material examined: Yousef Abad: 4 specimens, June 2003. On weeds.

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

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

Material examined: Khire Masjed: 3 specimens, May 2004. On weeds.

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

Material examined: Korgan: 2 specimens, May 2002. Collected by light trap.

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

Material examined: Marand: 5 specimens, June 2004. On wheat.

Note: This species is commonly distributed in Iran (Modarres Awal, 2002).

***Odontotarsus robustus* Jakovlev, 1883**

Material examined: Bangi: 1 specimen, May 2003. On weeds.

Family Pentatomidae Leach, 1815***Apodiphus amygdali* Germar, 1817**

Material examined: Marand: 5 specimens, July 2004. On apricot.

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).

***Carpocoris coreanus* Distant, 1899**

Material examined: Yousef Abad: 9 specimens, July 2002. On fruit trees.

***Carpocoris lunata* Fallen, 1852**

Material examined: Korgan: 4 specimens, May 2003. On cereals

***Dolycoris baccarum* Linnaeus, 1758**

Material examined: Khire Masjed: 3 specimens, June 2002. On lucerne.

***Dolycoris penicillatus* (Horvath, 1904)**

Material examined: Korgan: 7 specimens, July 2002. On fruit trees.

***Eurydema ornatum* (Linnaeus, 1758)**

Material examined: Yousef Abad: 5 specimens, April 2003. On lucern and potato.

Note: the species has been collected from different regions of Iran on turnip, cabbage, colza, mustard, wheat, radish and cultivated and wild crucifereae family plants (Modarres Awal, 2002).

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

Material examined: Khire Masjed: 4 specimens, June 2004. On wild crucifereae.

***Sciocoris ogivus* Jakovlev, 1861**

Material examined: Korgan: 11 specimens, July 2002. On weeds.

Among the species found in this study, families Miridae and Anthocoridae had the highest frequency and family Cydnidae had the minimum one.

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