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Annotated Checklist of the Aphids (Hemiptera: Aphididae) of Uzbekistan

Ikram Abdullaev^{1,2,8}, Alijon Khusanov^{3,9}, Nina Voronova-Bartet^{4,10}, Maxbuba Abdullayeva^{5,11}, Lola Gandjaeva^{1,6,12}, Xasanbay Jumanazarov^{1,2,13}, Bakhtiyor Kholmatov^{7,14}, Matnazar Rahimov^{5,15}, Zafar Matyakubov^{1,2,16}, Abdulla Iskandarov^{2,17}, Rasul Ruzmetov^{1,6,18}, Mavluda Ollaberganova^{2,19}, Muhammadyusuf Joraev^{3,20}, Manzura Doschanova^{1,2,21}

[1] Khorezm Academy of Mamun, Markaz str., 1, Khiva, Uzbekistan. [2] Department of Biology, Urgench State University, Khamid Alimjan str., 14, Urgench, Uzbekistan. [3] Department of Biology, Andijan State University, University str., 129, Andijan, Uzbekistan. [4] Department of Zoology, Belarusian State University, Independence Avenue, 4, Minsk, Belarus. [5] Department of Zoology, the National University of Uzbekistan named after Mirzo Ulugbek, University str., 4, Tashkent, Uzbekistan. [6] Department of Biotechnology, Urgench State University, Khamid Alimjan str., 14, Urgench, Uzbekistan. [7] Institute of Zoology, Bogishamol str., 232/B, Tashkent, Uzbekistan.

[08] ✉ ikram.abdullaev1966@gmail.com

<https://orcid.org/0000-0002-0272-1480>

[09] ✉ a_xusanov75@adu.uz

<https://orcid.org/0000-0002-7061-6869>

[10] ✉ nvoronova@bsu.by

<https://orcid.org/0000-0003-2069-7450>

[11] ✉ makhibuba.abdullaeva.7@gmail.com

<https://orcid.org/0009-0002-4559-6349>

[12] ✉ tulipa_83@mail.ru

<https://orcid.org/0000-0001-8072-3118>

[13] ✉ hjhumanazarov93@gmail.com

<https://orcid.org/0009-0002-6338-9220>

[14] ✉ biol_uz@mail.ru

<https://orcid.org/0000-0003-0003-9231>

[15] ✉ raximov.matnazar@mail.ru

<https://orcid.org/0000-0003-2854-298X>

[16] ✉ m.zafar88@mail.ru

<https://orcid.org/0000-0003-0404-7589>

[17] ✉ iskandarovabdulla@gmail.com

<https://orcid.org/0000-0001-6069-3345>

[18] ✉ tupmik@mail.ru

<https://orcid.org/0009-0000-4341-8579>

[19] ✉ m.ollaberganova95@gmail.com

<https://orcid.org/0009-0003-8315-5701>

[20] ✉ jorayevmuhammadyusuf@adu.uz

<https://orcid.org/0000-0002-5896-4748>

[21] ✉ manzura.doschanova.84@mail.ru

<https://orcid.org/0000-0002-9978-9181>

ABSTRACT. An updated checklist of Uzbekistan aphids (Hemiptera: Sternorrhyncha: Aphidomorpha) is presented based on literature records with the latest taxonomic and nomenclatural changes. This comprehensive checklist of aphids is the first checklist for Uzbekistan and represents a total of 301 species and 31 subspecies, within 103 genera, 63 subgeneruses, belonging to seven subfamilies, of the Aphididae family, recorded from 1910 to 2023 in Uzbekistan. According to the association of the identified aphids with their host plants, it was noted that 301 species of aphids live and feed on plants belonging to 64 families of plants. Of these, the largest number of species was found in plants belonging to the families of Asteraceae (71), Rosaceae (58) and Salicaceae (33).

Keywords: Aphidomorpha, Central Asia, database, faunal analysis, sternorrhyncha

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INTRODUCTION

Aphids are herbivorous insects that are pests in agriculture, horticulture and forestry. By sucking plant sap, they cause direct damage to their host plants by discolouration and/or deformation of leaves and shoots or by producing galls and pseudogalls. Aphids are also important vectors of plant viral pathogens

Corresponding author: Abdullaev, I., ✉ ikram.abdullaev1966@gmail.com

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(Blackman & Eastop, 2023). World aphid fauna includes more than 5700 species (Favret, 2023). They are mostly found in the temperate zone (Soaib et al., 2010). At present, 547 aphid species have been recorded from Iran (Momeni Shahraki et al., 2019; Sedighi et al., 2020a, 2020b). Based on recent literature the number of aphids in Turkey is 670 (Görür et al., 2023), 300 species from Pakistan (Naumann-Etienne & Remaudière, 1995), 194 species from Israel (Swirski & Amitai, 1999). Pakistan's geographical borders with Afghanistan, Iran, China, Uzbekistan, and India, serve as portals for the transportation, into and out of a country, of fresh fruits, vegetables, and ornamentals (Amin et al., 2023).

The aphid fauna of Uzbekistan and adjacent countries has been investigated sporadically. The reports of aphids in Tajikistan were presented by Narzikulov (1954), Narzikulov & Umarov (1971), Narzikulov (1982), Mukhamediev & Akhmedov (1982). According to literary sources, there were 834 species of aphids belonging to the family Aphididae, 12 subfamilies and 172 genera are known from the Republic of Kazakhstan (Kadyrbekov, 2017). The history of initial studies on the aphid fauna of Uzbekistan dates back to the twentieth century (Plotnikov, 1911; Nevsky, 1929). The first comprehensive work on aphids in Uzbekistan was a study entitled "The Aphids of Central Asia" in which 215 aphid species were listed (Nevsky, 1949). Subsequently, Nevsky (1951), Shaposhnikov (1952), Davletshina (1964), Kan (1986), Holman (1998), and Akhmedov (1995) contributed to the knowledge of the aphid fauna of different regions of Uzbekistan. Afterwards, a series of publications consisting of aphid names, their host plants, and distribution in Uzbekistan was published by Daminova (1975), Mukhamediev (1990), Mansurhodjaeva (1999), Azimov et al. (1993). Also, Khusanov (2017), Zokirov (2018), and Qin et al. (2022) studied the bioecology, distribution, and phylogenies of aphids in the Republic of Uzbekistan. The collection of faunal material was carried out in different years in the Ustyurt (Kadyrbekov, 2013), steppe (Kadyrbekov, 2013; Abdullaev et al., 2023a), forest-steppe zones (Kadyrbekov, 2017, Abdullayeva et al., 2023), forest zones (Shaposhnikov, 1956; Davletshina, 1964; Narzikulov & Umarov, 1969; Kadyrbekov, 1999, 2001, 2002; Abdullayeva et al., 2023), in various mountain systems of Uzbekistan: in the Uzbek part of the West and South Tien Shan (Nevsky, 1951; Narzikulov & Umarov, 1969, 1971; Kan, 1986; Holman, 1991; Kadyrbekov & Aoitzhanova, 2005; Kadyrbekov, 2013, 2014), in the Central, Western and Southern Tien Shan (Narzikulov & Umarov, 1969; Kadyrbekov, 2003, 2005; Akhmedov & Khusanov, 2009; Akhmedov et al., 2011; Khusanov, 2017), mountain-forest zone (Kadyrbekov, 2017, 2020).

The paper aims to compile a checklist of Uzbekistan aphids based on available literature including the authors' records. The data presented in this paper are useful not only for agronomists and biologists but also for agencies and decision-makers about natural resource issues, especially the use of land for planting, growing, cultivating, and harvesting of crops, as well as climate change and pollution.

MATERIAL AND METHODS

The Republic of Uzbekistan is located between the Amudarya and Syrdarya Rivers, and its total area is 448,900 km². The territory of the republic is 1,425 km from east to west and 930 km from north to south (Khamraev et al., 2007; Ruzmetov et al., 2020; Abdullaev et al., 2020). The Northeast biogeographic regional part of Uzbekistan is situated between the western part of the Tien Shan Mountains and the Syrdarya River (Abdullaev et al., 2002; Ruzmetov et al., 2022). The distribution of species in Uzbekistan is generally described according to the presence of species in the following biogeographic regions of Uzbekistan: Ustyurt Plateau, Kyzylkum Desert, Pomir-Alai, and Tien Shan. The map with biogeographic regions is presented in Figure 1 (retrived from the *Orient Voyage*).

The geographical scope of this checklist covers the Uzbekistan provinces. The studies conducted in Uzbekistan by many researchers on aphids from 1903 to 2023 are examined in detail and information about each species is taken from the literature. The Latin names of aphid taxa and classification are according to Favret (2023). The names of particular subgenera and taxa of lower rank within genera have been arranged in alphabetical order. Under each aphid species and subspecies, the first publication from Uzbekistan is cited. All species studied and identified for the fauna of Uzbekistan are verified by the Aphid Species File (Favret, 2023) and the Global Biodiversity Information Facility (GBIF). In addition, the host plant names were adopted from the collected literature and using Aphids on the World's Plants website. This is a systematic checklist of Aphidomorpha.



Figure 1. The general map of Uzbekistan and its location among the central Asian countries.

RESULTS

To date, 301 species and 31 subspecies from the family Aphididae have been reported by research scientists in Uzbekistan. Of the family Aphididae, there are seven subfamilies in Uzbekistan: Anoeciinae (2), Aphidinae (242), Calaphidinae (10), Chaitophorinae (14), Eriosomatinae (40), Lachninae (23), Phloeomyzinae (1). These species belong to 103 genera. The undisputed leader in the number of species is the genus *Aphis*. The genera *Macrosiphoniella*, *Uroleucon*, *Dysaphis*, and *Acyrtosiphon* were also the major taxa.

Taxonomic hierarchy

Class Insecta Linnaeus, 1758

Order Hemiptera Linnaeus, 1758

Suborder Sternorrhyncha Amyot & Serville, 1843

Infraorder Aphidomorpha Bekker-Migdisova & Aizenberg, 1962

Superfamily Aphidoidea Latreille, 1802

Family Aphididae Latreille, 1802

Subfamily Anoeciinae Tullgren, 1909

Genus *Anoecia* Koch, 1857

Subgenus *Anoecia* Koch, 1857

***Anoecia (Anoecia) corni* (Fabricius, 1775)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Bo'ston, Izboskan, Qo'rg'ontepa, Marhamat, Paxtaobod districts (Khusanov, 2017).

Host plants. *Cornus alba*, *C. australis* (Cornaceae), *Carex* sp. (Cyperaceae), *Elymus mutabilis*, *Elytrigia repens*, *Koeleria litvinovii*, *Milium vernale*, *Setaria glauca* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Anoecia (Anoecia) mirae* Narzikulov, 1968**

Distribution in Uzbekistan. Tien Shan. In Fergana region, Toshloq, Uchko'prik, Uzbekistan, Yozyovon districts (Khusanov, 2017).

Host plants. *Sorghum halepense* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subfamily Aphidinae Latreille, 1802**Tribe Aphidini Latreille, 1802****Subtribe Aphidina Latreille, 1802****Genus *Aphis* Linnaeus, 1758****Subgenus *Aphis* Linnaeus, 1758*****Aphis (Aphis) acetosae* Linnaeus, 1767**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, To‘raqo‘rg‘on, Mingbuloq, Namangan, Norin districts (Khusanov, 2017).

Host plants. *Rumex acetosa*, *R. confertus*, *R. crispus*, *R. pamiricus*, *R. thyrsifolius* (Polygonaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) affinis* Del Guercio, 1911**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Baliqchi, Bo‘ston, Buloqboshi, Izboskan, districts (Khusanov, 2017).

Host plants. *Mentha arvensis*, *M. asiatica*, *M. interrupta*, *M. longifolia* (Lamiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) albella* Nevsky, 1951**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Foeniculum vulgare* (Apiaceae), *Cichorium intybus* (Asteraceae), *Hibiscus trionum* (Malvaceae), *Portulaca oleracea* (Portulacaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) althaeae althaeae* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Althaea nudiflora*, *A. officinalis*, *A. pallida*, *A. rhyticarpa*, *Lavatera thuringiaca* (Malvaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) althaeae afghanica* Narzikulov & Umarov, 1971**

Distribution in Uzbekistan. Kyzylkum desert. In the Bukhara (Kadyrbekov, 2017).

Host plants. *Althaea pallida*, *A. officinalis*, *A. rhyticarpa*, *Lavatera thuringiaca* (Malvaceae) (Kadyrbekov, 2017).

***Aphis (Aphis) apocynicola* Holman, 1992**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Kadyrbekov & Aoitzhanova, 2005).

Host plants. *Apocynum lancifolium*, *A. pictum* (Apocynaceae) (Kadyrbekov, 2017).

***Aphis (Aphis) brachysiphon* Narzikulov, 1964**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, To‘raqo‘rg‘on, Mingbuloq, Namangan, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Clematis orientalis* (Ranunculaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) catalpae* Mamontova, 1953**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Izboskan, Jalaquduq, Xo‘jaobod, Marhamat, Oltinko‘l, Paxtaobod districts (Khusanov, 2017).

Host plants. *Catalpa speciosa* (Bignoniaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) chilopsidi* Davletshina, 1964**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964; Kadyrbekov, 2017).

Host plants. *Chilopsis linearis* (Bignoniaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) citrina* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Nevsky, 1929; Davletshina, 1964).

Host plants. *Hypericum perforatum*, *H. scabrum* (Hypericaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) confusa* Walker, 1849**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Nevsky, 1929; Davletshina, 1964).

Host plants. *Scabiosa ochroleuca* (Dipsacaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) craccivora* Koch, 1854**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district Aktash Mountain (Kadyrbekov, 2013), Andijan region, Izboskan, Jalaquduq, Qo'rg'ontepa, Paxtaobod, Shahrixon districts (Khusanov, 2017).

Host plants. *Medicago* and *Robinia* (Fabaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) cytisorum* Hartig, 1841**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Uychi, Yangiqo'rg'on, Uchqo'rg'on districts (Khusanov, 2017).

Host plants. *Adenocarpus complicatus*, *A. foliolosus*, *A. viscosus* (Fabaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) elatinoidei* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Nevsky, 1929; Davletshina, 1964).

Host plants. *Artemisia marschalliana*, *A. schrenkiana*, *A. scoparia*, *A. sublessingiana*, *A. terrae-albae*, *Matricaria inodora* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) euphorbiae* Kaltenbach, 1843**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Nevsky, 1929; Davletshina, 1964).

Host plants. *Euphorbia lamprocarpa*, *E. jaxartica*, *E. soongarica*, *E. virgata* (Euphorbiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) fabae* Scopoli, 1763**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district Aktash Mountain (Kadyrbekov, 2013), Fergana region, Quva, Rishton, So'x, Toshloq districts (Khusanov, 2017).

Host plants. *Cirsium arvense* (Asteraceae), *Philadelphus coronarius* (Hydrangeaceae), *Viburnum opulus* (Adoxaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) fabae evonymi* Fabricius, 1775**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangi Namangan, To'raqo'rg'on, Mingbuloq districts (Khusanov, 2017).

Host plants. *Lonicera* sp. (Caprifoliaceae), *Krascheninnikovia ceratoides* (Chenopodiaceae), *Astragalus virgatus*, *Hedysarum neglectum*, *Medicago falcata* (Fabaceae), *Ribes nigrum* (Grossulariaceae), *Galeopsis bifida*, *Ziziphora tenuior* (Lamiaceae), *Rheum officinalis*, *R. witronii*, *Rumex confertus*, *R. crispus* (Polygonaceae), *Aquilegia* sp., *Pulsatilla* sp. (Ranunculaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) farinosa* Gmelin, 1790**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Asaka, Baliqchi, Ulug‘nor, Bo‘ston, Paxtaobod, Shahrixon districts (Khusanov, 2017).

Host plants. *Salix alba*, *S. cinerea*, *S. fragilis*, *S. longifolia* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) farinosa farinosa* Gmelin, 1790**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district Xumsan Mountain (Kadyrbekov, 2013).

Host plants. *Salix margarifolia*, *S. niedzweskiana*, *S. pyrolifolia*, *S. tenujuis*, *S. turanica*, *S. wilhelmsiana*, *S. viminalis* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) frangulae* Kaltenbach, 1845**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, To‘raqo‘rg‘on, Mingbuloq, Namangan districts (Khusanov, 2017).

Host plants. *Carduus thoermeri*, *Hieracium virosum*, *Hieracium* sp., *Chrysanthemum indicum* (Asteraceae), *Rhamnus cathartica*, *Frangula alnus* (Rhamnaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) frangulae frangulae* Kaltenbach, 1845**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Kadyrbekov, 2017).

Host plants. *Berteroa incana*, *Capsella bursa-pastoris* (Brassicaceae), *Chamaenerion angustifolium*, *Epilobium* spp. (Onagraceae), *Rheum* sp. (Polygonaceae) (Kadyrbekov, 2017).

***Aphis (Aphis) frangulae beccabungae* Koch, 1855**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Nevsky, 1929; Davletshina, 1964).

Host plants. *Galatella* sp., *Chrysanthemum indicum*, *Hieracium virosum* (Asteraceae), *Draba lanceolata* (Brassicaceae), *Dracocephalum nutans*, *D. ruischiana*, *Galeopsis bifida*, *Scutellaria mesostegia*, *Ziziphora clinopodioides* (Lamiaceae), *Galium septemtrionale* (Rubiaceae), *Rheum* sp. (Polygonaceae), *Veronica longifolia*, *V. spuria* (Scrophulariaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) galiiscabri* Schrank, 1801**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Galium aparine*, *G. ruthenicum*, *G. saurense*, *G. septemtrionale*, *G. spurium*, *G. turkestanicum*, *G. verum*, *Rubia dolichophylla* (Rubiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) gossypii* Glover, 1877**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, Pop, Chortoq, Chust, Kosonsoy districts (Khusanov, 2017).

Host plants. *Adenium multiflorum* (Apocynaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) idaei* van der Goot, 1912**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Bag‘dod, Beshariq, Buvayda districts (Khusanov, 2017).

Host plants. *Rubus idaeus* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) incerta* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Nevsky, 1929; Davletshina, 1964).

Host plants. *Medicago sativa* (Fabaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) intybi* Koch, 1855**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Fergana, Furqat, Qo'shtepa, Uchko'prik districts (Khusanov, 2017).

Host plants. *Cichorium intybus* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) magnopilosa* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Centaurea cyanus*, *C. squarrosa* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) mamonthovae* Davletshina, 1964**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Verbena officinalis* (Verbenaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) mohelnensis* Holman, 1998**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Holman, 1998).

Host plants. *Hieracium echinoides*, *H. pratense*, *H. virosum* (Asteraceae) (Holman, 1998; Khusanov, 2017).

***Aphis (Aphis) nasturtii* Kaltenbach, 1843**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Xo'jaobod, Qo'rg'ontepa, Marhamat, Paxtaobod, Shahrixon districts (Khusanov, 2017).

Host plants. *Nasturtium officinale* (Brassicaceae), *Veronica beccabunga* (Plantaginaceae), *Solanum tuberosum* (Solanaceae) (Khusanov, 2017).

***Aphis (Aphis) nerii* Boyer de Fonscolombe, 1841**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Pop, Chortoq, Chust, Kosonsoy, Uychi districts (Khusanov, 2017).

Host plants. *Asclepias cornuti-bazarti* (Asclepiadaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) origani* Passerini, 1860**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Nevsky, 1929).

Host plants. *Origanum vulgare* (Lamiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) plantaginis* Goeze, 1778**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Plantago major*, *P. lanceolata*, *P. longifolium*, *P. stepposa*, (Plantaginaceae) (Davletshina, 1964; Khusanov, 2017).

***Aphis (Aphis) polygonata* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Polygonum aviculare* (Polygonaceae) (Davletshina, 1964; Khusanov, 2017).

***Aphis (Aphis) pomi* de Geer, 1773**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Uzbekistan, Yozyovon, Oltiariq, Quva, Rishton districts (Khusanov, 2017).

Host plants. *Crataegus altaica*, *C. pontica*, *C. songarica*, *C. turkestanica*, *Malus baccata*, *M. domestica*, *M. kirghisorum*, *M. sieversii*, *Sorbus sibirica* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) potentillae* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Potentilla bifurca*, *P. recta* (Rosaceae).

***Aphis (Aphis) praeterita* Walker, 1849**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Epilobium hirsutum* (Onagraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) punicae* Passerini, 1863**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Qo'shtepa, Uchko'prik, Uzbekistan, Yozyovon, Oltiariq districts (Khusanov, 2017).

Host plants. *Bignonia* sp., *Campsis radicans* (Bignoniaceae), *Plumbago capensis* (Plumbaginaceae), *Punica granatum*, *Duranta plumieri*, *Lantana camara* (Verbenaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) rheicola* Nevsky, 1951**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Rheum maximoviczii* (Polygonaceae).

***Aphis (Aphis) ruborum* (Börner, 1931)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region Mingbuloq, Namangan, Norin, Pop districts (Khusanov, 2017).

Host plants. *Rubus caesius* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) salicariae* Koch, 1855**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Chamaenerion angustifolium* (Onagraceae) (Davletshina, 1964; Khusanov, 2017).

***Aphis (Aphis) salviae* Walker, 1852**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Salvia nemorosa*, *S. sclarea*, *S. stepposa* (Lamiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) sambuci* Linnaeus, 1758**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Oltiariq, Quva, Rishton, So'x, Toshloq districts (Khusanov, 2017).

Host plants. *Rumex crispus* (Polygonaceae), *Melandrium album*, *Oberna behen* (Caryophyllaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) serpylli* Koch, 1854**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Thymus marshallianus* (Lamiaceae) (Davletshina, 1964; Khusanov, 2017).

***Aphis (Aphis) sogdiana* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Nevsky, 1929; Davletshina, 1964).

Host plants. *Ulmus pumila* (Ulmaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) spiraeicola* Patch, 1914**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district Aktash Mountain (Kadyrbekov, 2013).

Host plants. *Amygdalus nana*, *Cerasus fruticosa*, *Cotoneaster melanocarpus*, *C. simonovii*, *Crataegus altaicus*, *Prunus sogdiana*, *Rosa spinosissima*, *Spiraea chamaedryfolia*, *S. hypericifolia*, *S. media* (Rosaceae), *Valeriana dubia*, *V. officinalis* (Valerianaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) spiraeophaga* Muller, 1961**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Uzbekistan, Yozyovon, Oltiariq, Quva, Rishton districts (Khusanov, 2017).

Host plants. *Hieracium* sp., *Matricaria matricarioides* (Asteraceae), *Lythrum virgatum* (Lythraceae), *Epilobium adnatum*, *E. angustifolium* (Onagraceae), *Spiraea hypericifolia*, *S. chamaedryfolia*, *S. crenata*, *S. lasiocarpa*, *S. media*, *S. trilobata* (Rosaceae), *Patrinia intermedia*, *Valeriana dubia*, *V. ficariifolia*, *V. turkestanica* (Valerianaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) spiraeophila* Patch, 1914**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Ulug‘nor, Bo‘ston, Izboskan, Jalaquduq, Xo‘jaobod, Qo‘rg‘ontepa districts (Khusanov, 2017).

Host plants. *Spiraea* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) thecomae* Davletshina, 1964**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Campsis radicans* (Bignoniaceae) (Davletshina, 1964; Khusanov, 2017).

***Aphis (Aphis) umbrella* (Börner, 1950)**

Distribution in Uzbekistan. Tien Shan. (Kadyrbekov, 2017).

Host plants. *Malva neglecta*, *M. pusilla* (Malvaceae) (Kadyrbekov, 2017).

***Aphis (Aphis) urticata* Gmelin, 1790**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Urtica dioica*, *U. cannabina* (Urticaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Aphis (Aphis) verbasci* Schrank, 1801**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Davletshina, 1964).

Host plants. *Verbascum phoeniceum*, *V. soongoricum*, *V. thapsiforme*, *Scrophularia kiriloviana* (Scrophulariaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Bursaphis* Baker, 1934***Aphis (Bursaphis) grossulariae* Kaltenbach, 1843**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Buloqboshi, Izboskan, Jalaquduq, Xo‘jaobod, Qo‘rg‘ontepa districts (Khusanov, 2017).

Host plants. *Ribes atropurpureum*, *R. aureum*, *R. heterotrichum*, *R. meyeri*, *R. nigrum*, *R. saxatile*, *Grossularia acicularis* (Grossulariaceae), *Chamaenerion angustifolium*, *Epilobium hirsutum*, *E. tianschanicum* (Onagraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Brachyunguis* Das, 1918***Brachyunguis atraphaxidis* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Nevsky, 1929; Kadyrbekov, 1964).

Host plants. *Atraphaxis compacta*, *A. frutescens*, *A. laetevirens*, *A. pyrifolia*, *A. pungens*, *A. replicata*, *A. spinosa*, *A. virgata* (Polygonaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachyunguis brevisipion* Kadyrbekov, Renxin & Shao, 2002**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Kadyrbekov, 2017).

Host plants. *Clematis orientalis* (Ranunculaceae) (Kadyrbekov, 2017).

***Brachyunguis calligoni* (Nevsky, 1928)**

Distribution in Uzbekistan. Kyzylkum desert. In the Bukhara region (Kadyrbekov, 2013).

Host plants. *Calligonum densum*, *C. flavidum*, *C. junceum*, *C. rubicundum*, *C. undulatum*, *Calligonum* spp. (Polygonaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachyunguis cuscutae* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, So'x, Toshloq, Bag'dod, Beshariq, Buvayda districts (Khusanov, 2017).

Host plants. *Cuscuta monogyna* (Cuscutaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachyunguis cynanchi* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Uchko'prik, Uzbekistan, Yozyovon, Oltiariq districts (Khusanov, 2017).

Host plants. *Cynanchum acutum*, *C. sibiricum* (Asclepiadaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachyunguis harmalae* Das, 1918**

Distribution in Uzbekistan. Kyzylkum desert. In the Bukhara region (Kadyrbekov, 2013).

Host plants. *Rhaponticum nitidum* (Asteraceae), *Capsella bursa-pastoris* (Brassicaceae), *Agriophyllum pungens*, *Atriplex* sp., *Kochia prostrata*, *Salsola arbuscula*, *S. richteri* (Chenopodiaceae), *Calligonum caput-medusae*, *C. flavidum*, *C. leucocladum*, *C. rubicundum* (Polygonaceae), *Myricaria alopecuroides* (Tamaricaceae), *Peganum harmala*, *Zygophyllum fabago*, *Malacocarpus crithmifolius* (Zygophyllaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachyunguis lycii* (Nevsky, 1928)**

Distribution in Uzbekistan. Ustyurt Plateau. In the Karakalpakstan Republic, Ustyurt (Kadyrbekov, 2013).

Host plants. *Lycium dasystemum*, *L. ruthenicum*, *L. turcomanicum* (Solanaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachyunguis peucedani* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Fergana, Furqat, Qo'shtepa, Uchko'prik, Uzbekistan districts (Khusanov, 2017).

Host plants. *Ferula nuda* (Apiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachyunguis plotnikovi* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangiqo'rg'on, Uchqo'rg'on, Pop, Chortoq districts (Khusanov, 2017).

Host plants. *Rhaponticum nitidum* (Asteraceae), *Agriophyllum pungens*, *Atriplex* sp., *Kochia prostrata*, *Salsola arbuscula*, *S. richteri* (Chenopodiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachyunguis salsolacearum* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Ulug‘nor, Bo‘ston, Izboskan, Jalaquduq, Xo‘jaobod districts (Khusanov, 2017).

Host plants. *Salsola lanata*, *S. arbuscula* (Chenopodiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachyunguis tamaricis* (Lichtenstein, 1886)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Qo‘shtepa, Uchko‘prik, Uzbekistan, Yozyovon, Oltiariq districts (Khusanov, 2017).

Host plants. *Tamarix elongissima*, *T. gracilis*, *T. ramosissima* (Tamaricaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachyunguis tamaricophilus* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangi Namangan, Norin, Chust, Kosonsoy, Uychi districts (Khusanov, 2017).

Host plants. *Tamarix arceuthoides*, *T. elongata*, *T. ramosissima*, (Tamaricaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachyunguis zygophylli* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Baliqchi, Ulug‘nor, Bo‘ston, Izboskan, Jalaquduq, Xo‘jaobod districts (Khusanov, 2017).

Host plants. *Corispermum aralocaspicum* (Chenopodiaceae), *Zygophyllum fabago*, *Z. turcomanum*, (Zygophyllaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Xerophilaphis* Nevsky, 1928***Brachyunguis (Xerophilaphis) saxaulica* (Nevsky, 1928)**

Distribution in Uzbekistan. Kyzylkum desert. In the Khorezm region, Shavat. Gurlan, Khozarazp districts (Abdullaev et al., 2023a).

Host plants. *Haloxylon aphyllum*, *H. persicum* (Chenopodiaceae) (Abdullaev et al., 2023a).

Genus *Ephedraphis* Hille Ris Lamers, 1959***Ephedraphis ephedrae* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Namangan, Yangi Namangan, Norin, Chust districts (Khusanov, 2017).

Host plants. *Ephedra dystachia*, *E. equisetina*, *E. intermedia* (Ephedraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Ephedraphis ephedrae ephedrae* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Kadyrbekov, 2017).

Host plants. *Ephedra dystachia*, *E. equisetina*, *E. intermedia*, *Ephedra* sp. (Ephedraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Protaphis* Börner, 1952***Protaphis alexandrae* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Bo‘ston, Izboskan, Jalaquduq, Xo‘jaobod, Qo‘rg‘ontepa districts (Khusanov, 2017).

Host plants. *Centaurea squarrosa*, *C. iberica* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Protaphis anuraphoides* (Nevsky, 1928)**

Distribution in Uzbekistan. Ustyurt Plateau. In the Karakalpakstan Republic, Ustyurt (Kadyrbekov, 2013), Namangan region, Yangiqo'rg'on, Uchqo'rg'on, Pop, Chortoq districts (Khusanov, 2017).

Host plants. *Acroptilon australe*, *Cousunia karatavica*, *C. perovskiensis*, *Carduus schischkinii*, *C. nutans*, *Carthamnus tinctorius*, *Cichorium intybus*, *Karelinia caspia*, *Onopordum acanthium* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Protaphis elatior* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Mingbuloq, Namangan, Yangi Namangan, Norin, Chust districts (Khusanov, 2017).

Host plants. *Artemisia annua*, *A. austriaca*, *A. halophila*, *A. marschalliana*, *A. schrenkiana*, *A. scoparia*, *A. sublessingiana*, *A. terrae-albae*, *Matricaria inodora* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Protaphis elongate* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Ulug'nor, Qo'rg'ontepa, Marhamat, Oltinko'l, Paxtaobod, Asaka districts (Khusanov, 2017).

Host plants. *Artemisia annua*, *Artemisia leucodes*, *A. marshalliana*, *A. scoparia* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Protaphis hirsuta* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Kadyrbekov, 2001, 2014).

Host plants. *Artemisia* sp. (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Xerobion* Nevsky, 1928***Xerobion cinae* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Kadyrbekov, 2017).

Host plants. *Artemisia* (*Seriphidium*) *albida*, *A. cina*, *A. gurganica*, *A. leucodes*, *A. lessingiana*, *A. kemrudica*, *A. nitrosa*, *A. pauciflora*, *A. santolina*, *A. sublessingiana*, *A. tianschanica*, *A. turanica*, *A. valida*, *Artemisia* spp. (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Xerobion eriosomatium* Nevsky, 1928**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Uychi, Yangiqo'rg'on, Uchqo'rg'on districts (Khusanov, 2017).

Host plants. *Kochia prostrata*, *K. persica*, *K. scoparia* (Chenopodiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subtribe *Rhopalosiphina* Mordvilko, 1914**Genus *Hyalopterus* Koch, 1854*****Hyalopterus pruni* (Geoffroy, 1762)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Kosonsoy, Uychi, Yangiqo'rg'on districts (Khusanov, 2017).

Host plants. *Fragmites australis* (Poaceae), *Amygdalus communis*, *A. ledobouri*, *A. petunnikovii*, *A. spinosissima*, *Prunus domestica*, *P. sogdiana*, *P. spinosa*, *Persica vulgaris* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Rhopalosiphum* Koch, 1854***Rhopalosiphum maidis* (Fitch, 1856)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangiqo'rg'on, Yangi Namangan, Mingbuloq, Namangan districts (Khusanov, 2017).

Host plants. *Agropyron fragile*, *Bromus* sp., *Echinochloa crus-galii*, *Hordeum distichon*, *H. vulgare*, *Poa angustifolia*, *Secale cereale*, *S. silvestre*, *Setaria italica*, *S. viridis*, *Zea mays* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Rhopalosiphum nymphaeae* (Linnaeus, 1761)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, Chust, Kosonsoy, Uychi, districts (Khusanov, 2017).

Host plants. *Amygdalus communis*, *Prunus domestica*, *P. sogdiana*, *P. spinosa* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Rhopalosiphum oxyacanthae* (Schrank, 1801)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Pop, Chortoq, To'raqo'rg'on, Mingbuloq districts (Khusanov, 2017).

Host plants. *Agropyron*, *Agrostis*, *Alopecurus*, *Dactylis*, *Festuca*, *Glyceria*, *Phalaris*, *Poa*, *Triticum* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Rhopalosiphum padi* (Linnaeus, 1758)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, To'raqo'rg'on, Mingbuloq, Norin, Chust districts (Khusanov, 2017).

Host plants. *Juncus gerardii* (Juncaceae), *Agrostis gigantea*, *Alopecurus aequalis*, *Avena sativa*, *Leymus ramosus*, *Phleum phleoides*, *Poa pratensis*, *Secale cereale*, *Setaria glauca*, *Triticum aestivum*, *T. durum*, *Zea mays* (Poaceae), *Padus avium*, *P. mahaleb* (Rosaceae), *Typha angustifolia* (Typhaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Rhopalosiphum rufiabdominale* (Sasaki, 1899)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Bo'ston, Izboskan, Qo'rg'on-tepa, Marhamat, Paxtaobod districts (Khusanov, 2017).

Host plants. *Rhodotypos scandens* (Solanaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Schizaphis* Börner, 1931

Subgenus *Schizaphis* Börner, 1931

***Schizaphis* (*Schizaphis*) *pyri* Shaposhnikov, 1952**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Uchko'prik, Uzbekistan, Yozyovon, Oltiariq, Quva districts (Khusanov, 2017).

Host plants. *Pyrus communis* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tribe Macrosiphini Wilson, 1910

Genus *Acaudella* Nevsky, 1929

***Acaudella* *puchovi* Nevsky, 1929**

Distribution in Uzbekistan. Pomiro Alai. In the Samarkand region (Kadyrbekov, 2017).

Host plants. *Atraphaxis spinosa* (Polygonaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Acyrtosiphon* Mordvilko, 1914

Subgenus *Acyrtosiphon* Mordvilko, 1914

***Acyrtosiphon* (*Acyrtosiphon*) *ilka* Mordvilko, 1914**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Ulug'nor, Qo'rg'on-tepa, Marhamat, Oltinko'l, Paxtaobod, Asaka districts (Khusanov, 2017).

Host plants. *Centaurea squarrosa*, *Carthamnus lanatus*, *Lepidolopha* sp., *Sonchus oleraceus* (Asteraceae), *Lepidium* spp., *Descurainia sophia* (Brassicaceae), *Astragalus* sp. (Fabaceae), *Papaver pavoninum* (Papaveraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Acyrtosiphon (Acyrtosiphon) caraganae* (Cholodkovsky, 1908)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Namangan, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Caragana arborescens*, *C. balchaschensis*, *C. camillischneideri*, *C. frutex*, *C. pumila* (Fabaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Acyrtosiphon (Acyrtosiphon) cyparissiae turkestanicum* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Nevsky, 1929, 1951; Kadyrbekov, 2005).

Host plants. *Euphorbia ferganensis*, *E. lamprocarpa*, *E. virgata* (Euphorbiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Acyrtosiphon (Acyrtosiphon) gossypii* Mordvilko, 1914**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Chimgan Mountain Bostanlik district (Kadyrbekov, 2013).

Host plants. *Descurainia sophia* (Brassicaceae), *Astragalus paucijugus*, *Astragalus* sp., *Ammodendron argenteum*, *A. conollii*, *Pseudosophora alopecuroides* (Fabaceae), *Hulthemia persica* (Rosaceae), *Zygophyllum fabago*, *Peganum harmala* (Zygophyllaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Acyrtosiphon (Acyrtosiphon) ignotum* Mordvilko, 1914**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Yozyovon, Oltiariq, Quva, Rishton, So‘x districts (Khusanov, 2017).

Host plants. *Spiraea hypericifolia* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Acyrtosiphon (Acyrtosiphon) pisum* (Harris, 1776)**

Distribution in Uzbekistan. Tien Shan and Kyzylkum desert. In the Fergana region, Quva, Rishton, So‘x, Toshloq, Bag‘dod districts (Khusanov, 2017). Bukhara region, Tashkent region Gazalkent district Aktash Mountain (Kadyrbekov, 2013).

Host plants. *Astragalus condolleanus*, *Glycyrrhiza glabra*, *G. uralensis*, *Lathyrus pratensis*, *Medicago coerulea*, *M. falcata*, *M. lupina*, *M. sativa*, *M. tianschanica*, *neglectum* (Fabaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Acyrtosiphon (Acyrtosiphon) rubi* Narzikulov, 1957**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Buloqboshi, Bo‘ston, Izboskan, Jalaquduq districts (Khusanov, 2017).

Host plants. *Catamixis*, *Hieracium*, *Sonchus* (Asteraceae), *Desmodium* (Fabaceae), *Fagopyrum*, *Polygonum* (Polygonaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Acyrtosiphon (Acyrtosiphon) scariolae* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, To‘raqo‘rg‘on, Yangiqo‘rg‘on, Chust, Kosonsoy districts (Khusanov, 2017).

Host plants. *Lactuca serriola* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Acyrtosiphon (Acyrtosiphon) sophorae* Narzikulov & Umarov, 1969**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Bulqoboshi, Bo'ston, Izboskan, Jalaquduq districts (Khusanov, 2017).

Host plants. *Pseudosophora alopecuroides* (Fabaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Amegosiphon* Narzikulov, 1958***Amegosiphon platycaudum* (Narzikulov, 1953)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, To'raqo'rg'on, Mingbuloq, Norin districts (Khusanov, 2017).

Host plants. *Berberis iliensis* (Berberidaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Amphicercidus* Oestlund, 1923***Amphicercidus alticola* (Narzikulov & Mukhamediev, 1965)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, To'raqo'rg'on, Kosonsoy, Uchqo'rg'on, Namangan districts (Khusanov, 2017).

Host plants. *Lonicera nummularifolia* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Amphicercidus alticola tschatcalica* (Mukhamediev & Akhmedov, 1979)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Oltinko'l, Paxtaobod, Asaka, Baliqchi, Shahrixon districts (Khusanov, 2017).

Host plants. *Lonicera nummularifolia* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Amphicercidus lonicericola* (Mukhamediev, 1965)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Bulqoboshi, Bo'ston, Izboskan, Jalaquduq, Xo'jaobod districts (Khusanov, 2017).

Host plants. *Lonicera altmannii* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Amphorophora* Buckton, 1876**Subgenus *Amphorophora* Buckton, 1876*****Amphorophora (Amphorophora) catharinae* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Mingbuloq, Norin, Chust, Kosonsoy districts (Khusanov, 2017).

Host plants. *Rosa alberti*, *R. beggeriana*, *R. fedtschenkoana*, *R. iliensis*, *R. laxa*, *R. kokanica*, *R. platyacantha* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Amphorophora (Amphorophora) rubi* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, Chust, Kosonsoy, Uychi districts (Khusanov, 2017).

Host plants. *Rubus caesius* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Anuraphis* Del Guercio, 1907***Anuraphis subterranea* (Walker, 1852)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chust, Kosonsoy, Uychi, Yangiqo'rg'on districts (Khusanov, 2017).

Host plants. *Cicuta virosa*, *Heracleum dissectum*, *H. sibiricum*, *Ferula akitschkensis* (Apiaceae), *Pyrus communis*, *P. regeli* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Aphidura* Hille Ris Lamers, 1956***Aphidura bozhkoe* (Narzikulov, 1958)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Uychi, Yangiqo'rg'on, Uchqo'rg'on districts (Khusanov, 2017).

Host plants. *Cerasus erythrocarpa*, *C. tianschanica* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Aspidaphis* Gilette, 1917***Aspidahis adjuvans* (Walker, 1848)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Buloqboshi, Bo'ston, Izboskan, Jalaquduq, Xo'jaobod districts (Khusanov, 2017).

Host plants. *Polygonum aviculare* (Polygonaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Aulacorthum* Mordvilko, 1914**Subgenus *Aulacorthum* Mordvilko, 1914*****Aulacorthum (Aulacorthum) solani* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Uchko'prik, Oltiariq, Quva, Rishton, So'x districts (Khusanov, 2017).

Host plants. *Chondrilla* sp. (Asteraceae), *Raphanus sativus* (Brassicaceae), *Cerastium tianschanicum*, *Oberna behen* (Caryophyllaceae), *Potentilla asiatica* (Rosaceae), *Lycium flexicaule* (Solanaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Avicennina* Narzikulov, 1957***Avicennina sogdiana* Narzikulov, 1957**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chust, Kosonsoy, Uchqo'rg'on districts (Khusanov, 2017).

Host plants. *Lonicera* sp. (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Avicennina turkestanica* Akhmedov, 1994**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Bo'ston, Izboskan, Jalaquduq, Xo'jaobod districts (Khusanov, 2017).

Host plants. *Lonicera karelinii*, *L. tatarica* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Berberidaphis* Narzikulov, 1960***Berberidaphis lydiae* (Narzikulov, 1957)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Shahrixon, Buloqboshi, Bo'ston, Izboskan districts (Khusanov, 2017).

Host plants. *Berberis canadiens*, *B. chinensis*, *B. iliensis*, *B. integerrima*, *B. sphaerocarpa*, *B. vulgaris* (Berberidaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Brachycaudus* van der Goot, 1913**Subgenus *Acaudus* van der Goot, 1913*****Brachycaudus (Acaudus) cerasicola* (Mordvilko, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangiqo'rg'on, Uchqo'rg'on, Namangan districts (Khusanov, 2017).

Host plants. *Rhodiola* sp. (Crassulaceae), *Gentianella* sp. (Gentianaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Appelia* Börner, 1930***Brachycaudus (Appelia) prunicola* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Marhamat, Oltinko‘l, Paxtaobod, Asaka, Baliqchi, Shahrixon districts (Khusanov, 2017).

Host plants. *Armeniaca vulgaris*, *Prunus domestica*, *P. spinosa*, *P. sogdiana* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachycaudus (Appelia) tragopogonis tragopogonis* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent, Xumsan (Shaposhnikov, 1956).

Host plants. *Tragopogon altaicus*, *T. brevirostris*, *T. dubius*, *T. marginifolius*, *T. orientalis*, *T. soongoricus*, *T. turkestanicus*, *Scorzonera parviflora* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Brachycaudus* van der Goot, 1913***Brachycaudus (Brachycaudus) helichrysi* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2013), Andijan region, Ulug‘nor, Qo‘rg‘ontepa, Marhamat, Oltinko‘l, Paxtaobod districts (Khusanov, 2017).

Host plants. *Achillea*, *Ageratum*, *Aster*, *Bidens*, *Chrysanthemum*, *Cineraria*, *Erigeron*, *Gnaphalium*, *Helianthus*, *Matricaria*, *Senecio* (Asteraceae) and *Anchusa*, *Cynoglossum*, *Myosotis*, *Symphytum* (Boraginaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachycaudus (Brachycaudus) spiraeae* Börner, 1931**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Uchqo‘rg‘on, Namangan, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Spiraea chamaedryfolia*, *S. hypericifolia*, *S. lasiocarpa*, *S. media*, *S. trilobata* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachycaudus (Brachycaudus) viridanus* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Chirchik, Gazalkent (Nevsky, 1929; Shaposhnikov, 1956).

Host plants. *Cousinia* sp. (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Mordvilkomemor* Shaposhnikov, 1950***Brachycaudus (Mordvilkomemor) eurotiae* (Mamontova, 1968)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2002).

Host plants. *Krashenninnikovia ceratoides*, *K. ewersmanniana* (Chenopodiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brachycaudus (Mordvilkomemor) pilosus* (Mordvilko, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Mingbuloq, Norin, Chust, Pop, Chortoq districts (Khusanov, 2017).

Host plants. *Cerasus erythrocarya*, *C. tianschanica*, *C. verrucosa* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Nevskyaphis* Shaposhnikov, 1950***Brachycaudus* (*Nevskyaphis*) *bicolor* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent, Chirchik, xumsan (Nevsky, 1929; Kan, 1986).

Host plants. *Asperugo procumbens*, *Diptichocarpus strictus*, *Echium vulgare*, *Lappula microcarpa*, *Lithospermum officinale* (Boraginaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Prunaphis* Shaposhnikov, 1964***Brachycaudus* (*Prunaphis*) *cardui* (Linnaeus, 1758)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, Chust, Pop, Chortoq, To'raqo'rg'on districts (Khusanov, 2017).

Host plants. *Prunus spinosa*, *P. domestica* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Scrophulaphis* Andreev, 1982***Brachycaudus* (*Scrophulaphis*) *persicae* (Passerini, 1860)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Uchqo'rg'on, Namangan, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Armeniaca vulgaris*, *Prunus domestica*, *P. divaricata*, *P. sogdiana*, *P. spinosa*, *Persica vulgaris* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Thuleaphis* Hille Ris Lambers, 1960***Brachycaudus* (*Thuleaphis*) *amygdalinus* (Schouteden, 1905)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Pop, Chortoq, To'raqo'rg'on, Kosonsoy districts (Khusanov, 2017).

Host plants. *Polygonum aviculare*, *P. nitens* (Polygonaceae), *Amygdalus ledebouriana*, *Persica vulgaris*, *Prunus domestica*, *P. sogdiana* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Brachycorynella* Aizenberg, 1956***Brachycorynella* *lonicerina* (Shaposhnikov, 1952)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Quva, Rishton, So'x, Toshloq, Dang'ara, Fergana districts (Khusanov, 2017).

Host plants. *Lonicera nummulariifolia*, *L. stenantha*, *L. tatarica* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Brevicoryne* Das, 1915***Brevicoryne* *barbareae* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Oltinko'l, Paxtaobod, Asaka, Baliqchi, Shahrixon districts (Khusanov, 2017).

Host plants. *Barbarea arcuata*, *B. vulgaris* (Brassicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brevicoryne* *brassicae* (Linnaeus, 1758)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chust, Pop, Chortoq, To'raqo'rg'on districts (Khusanov, 2017).

Host plants. *Arabis pendula*, *Barbarea vulgaris*, *Berteroa incana*, *Brassica sativa*, *Cardamine impatiens*, *Raphanus sativus*, *Sisymbrium polymorphum* (Brassicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Brevicoryne shaposhnikovi* Narzikulov, 1957**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Asaka, Baliqchi, Shahrixon districts (Khusanov, 2017).

Host plants. *Lonicera stenantha* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Brevicorynella* Nevsky, 1928***Brevicorynella quadrimaculata* Nevsky, 1928**

Distribution in Uzbekistan. Tien Shan. In the Fergana and Tashkent region (Nevsky, 1929).

Host plants. *Tamarix arceuthoides*, *T. elongata*, *T. hispida*, *T. hohenakeri* (Tamaricaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Capitophorus* van der Goot, 1913***Capitophorus archangelskii* Nevsky, 1928**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Kosonsoy, Uchqo'rg'on, Namangan districts (Khusanov, 2017).

Host plants. *Elaeagnus angustifolia*, *E. oxycarpa* (Elaeagnaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Capitophorus elaeagni* (Del Guercio, 1894)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Qo'shtepa, Bag'dod, Beshariq, Buvayda districts (Khusanov, 2017).

Host plants. *Cirsium incanum*, *Hyalaea pulchella*, *Lactuca serriola*, *Sonchus arvensis* (Asteraceae), *Elaeagnus angustifolia*, *E. oxycarpa*, *Hippophae rhamnoides* (Elaeagnaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Capitophorus hippophaes* (Walker, 1852)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Uchqo'rg'on, Namangan, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Hippophae rhamnoides* (Elaeagnaceae), *Polygonum aviculare*, *P. coriarium*, *P. hydropiper*, *P. viviparum* (Polygonaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Capitophorus pakansus* Hottes & Frison, 1931**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Oltiariq, Quva, Rishton, So'x, Toshloq, Dang'ara districts (Khusanov, 2017).

Host plants. *Inula grandis*, *I. helenium*, *I. macrophylla* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Cavariella* Del Guercio, 1911**Subgenus *Cavariella* Del Guercio, 1911*****Cavariella (Cavariella) aegopodii* (Scopoli, 1763)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district Xumsan, Chimgan Mountain (Kadyrbekov, 2013).

Host plants. *Aegopodium alpestre*, *A. podagraria*, *A. tadjikorum*, *Anethum graveolens*, *Angelica sylvestris*, *Bunium setosum*, *Cenolophium fischerii*, *Conioselinum vaginatum* (Apiaceae), *Salix alba*, *S. argyracea*, *S. cinerea*, *S. excelsa*, *S. iliensis*, *S. pentandra* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Cavariella (Cavariella) archangelicae* (Scopoli, 1763)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, Chust, Pop, Chortoq, To'raqo'rg'on districts (Khusanov, 2017).

Host plants. *Angelica decurrens*, *Heracleum dissectum*, *Conioselinum vaginatum* (Apiaceae), *Salix excelsa*, *S. kirilowiana*, *S. viminalis* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Cavariella (Cavariella) pastinacae* (Linnaeus, 1758)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Ulug'nor, Qo'rg'ontepa, Marhamat, Oltinko'l districts (Khusanov, 2017).

Host plants. *Angelica decurrens*, *Heracleum sibiricum* (Apiaceae), *Salix alba*, *S. argyracea*, *S. fragilis*, *S. rorida* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Cavariella (Cavariella) theobaldi* (Gillette & Bragg, 1918)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Asaka, Baliqchi, Shahrixon districts (Khusanov, 2017).

Host plants. *Heracleum dissectum*, *H. sibiricum* (Apiaceae), *Salix argyracea*, *S. cinerea*, *S. caesia*, *S. turanica*, *S. viminalis* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Cavariella* Heinze, 1960***Cavariella (Cavariella) aquatica* (Gillette & Bragg, 1916)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Uychi, Yangiqo'rg'on districts (Khusanov, 2017).

Host plants. *Salix argyracea*, *S. pycnostachya*, *S. songarica* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Chaetosiphon* Mordvilko, 1914**Subgenus *Chaetosiphon* Mordvilko, 1914*****Chaetosiphon (Chaetosiphon) chaetosiphon* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Mingbuloq, Norin, Chust, Pop, Chortoq districts (Khusanov, 2017).

Host plants. *Rosa alberti*, *R. fedtschenkoana*, *R. kokanica*, (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Pentatrachopus* Börner, 1930***Chaetosiphon (Pentatrachopus) tetrarhodum* (Walker, 1849)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, Mingbuloq, Namangan, Pop districts (Khusanov, 2017).

Host plants. *Rosa* spp. (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Chaitaphis* Nevsky, 1928***Chaitaphis tenuicauda* Nevsky, 1928**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chortoq, To'raqo'rg'on, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Kochia prostrata*, *K. persica*, *K. scoparia* (Chenopodiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Coloradoa* Wilson, 1910***Coloradoa paradoxa* Szelegiewicz, 1969**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2020).

Host plants. *Artemisia* sp. (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Coloradoa viridis* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Chirchik, Xumsan (Kadyrbekov, 2020).

Host plants. *Artemisia vulgaris* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Cryptomyzus* Oestlund, 1923**Subgenus *Cryptomyzus* Oestlund, 1923*****Cryptomyzus (Cryptomyzus) korschelti* Börner, 1938**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Uychi, Yangiqo'rg'on, Chust, Kosonsoy districts (Khusanov, 2017).

Host plants. *Ribes atropurpureum*, *R. aureum*, *R. heterotrichum*, *R. vulgare*, *R. saxatile* (Grossulariaceae), *Stachys palustris*, *S. sylvatica* (Lamiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Cryptomyzus (Cryptomyzus) ribis* (Linnaeus, 1758)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, So'x, Toshloq, Dang'ara, Fergana, Furqat districts (Khusanov, 2017).

Host plants. *Ribes atropurpureum*, *R. aureum*, *R. meyeri*, *R. nigrum*, *R. saxatile*, *R. vulgare*, *Grossularia reclinata* (Grossulariaceae), *Stachys* spp., *Leonurus glaucescens* (Lamiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Cryptosiphum* Buckton, 1879***Cryptosiphum artemisiae* Buckton, 1879**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Bag'dod, Beshariq, Buvayda, Uzbekistan districts (Khusanov, 2017).

Host plants. *Artemisia absinthium*, *A. vulgaris* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Diuraphis* Aizenberg, 1935**Subgenus *Diuraphis* Aizenberg, 1935*****Diuraphis (Diuraphis) noxia* (Mordvilko, 1913)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangi Namangan, Chust, Kosonsoy, Uychi, Yangiqo'rg'on districts (Khusanov, 2017).

Host plants. *Agrostis alba*, *Elymus dahuricus*, *Hordeum bulbosum*, *H. roshevitzii*, *H. turkestanicum*, *Trithicum aestivum* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Dysaphis* Börner, 1931**Subgenus *Cotoneasteria* Shaposhnikov, 1964*****Dysaphis (Cotoneasteria) microsiphon* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Marhamat, Oltinko'l, Paxtaobod, Asaka districts (Narzikulov & Umarov, 1971; Khusanov, 2017).

Host plants. *Mentha asiatica* (Lamiaceae), *Cotoneaster karatavica*, *C. melanocarpa* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Dysaphis* Börner, 1931***Dysaphis (Dysaphis) acroptilidis* (Narzikulov & Daniyarova, 1990)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Oltiariq, Quva, Rishton, So'x, Toshloq, Dang'ara districts (Khusanov, 2017).

Host plants. *Rhaponticum repens* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) affinis* (Mordvilko, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Mingbuloq, Namangan, Pop, Chortoq districts (Khusanov, 2017)

Host plants. *Malus baccata*, *M. domestica*, *M. kirghisorum* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) cephalariae* (Narzikulov, 1953)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Xumsan, Chimgan (Shaposhnikov, 1956).

Host plants. *Scabiosa soongorica* (Dipsacaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) cousiniae cousiniae* Narzykulov, 1967**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chortoq, To'raqo'rg'on, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Cousinia alata*, *C. karatavica* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) crataegi* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chortoq, To'raqo'rg'on, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Daucus carota* (Apiaceae), *Crataegus altaica*, *C. turkestanica*, *C. songorica* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) eremuri baisunensis* Narzykulov, 1970**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Rishton, So'x, Toshloq, Dang'ara, Fergana districts (Khusanov, 2017).

Host plants. *Eremurus cristatus*, *E. lactiflorus*, *E. regelii*, *E. robustus*, *E. tianschanicus* (Asphodelaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) eremuri eremuri* (Narzikulov, 1954)**

Distribution in Uzbekistan. Tien Shan. In the Namangan and Tashkent region, Bostanlik district, Gazalkent (Kan, 1986).

Host plants. *Eremurus cristatus*, *E. lactiflorus*, *E. regelii*, *E. robustus*, *E. tianschanicus* (Asphodelaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) ferulae* (Nevskiy, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Qo'shtepa, Bag'dod, Beshariq, Buvayda districts (Khusanov, 2017).

Host plants. *Ferula akitschkensis*, *F. caspica*, *F. dissecta*, *F. feruloides*, *F. karatavica*, *F. leiophylla*, *F. nuda*, *F. schair*, *F. songorica*, *F. stylosa* (Apiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) foeniculus* (Theobald, 1923)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Shaposhnikov, 1956).

Host plants. *Aegopodium alpestre*, *A. tadjikorum*, *Angelica deccurens*, *Anethum graveolens*, *Conium maculatum*, *Seseli buchtormense*, *S. coronatum*, *S. libanotis*, *S. sessiliflorum*, *Silaus* sp., *Sium latifolium*, *S. medium* (Apiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) handeliae* Daniyarova, 1990**

Distribution in Uzbekistan. Tien Shan. In the Fergana and Namangan regions (Shaposhnikov, 1956; Khusanov, 2017).

Host plants. *Handelia trichophylla* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) lappae lappae* (Koch, 1854)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent, Chirchik, Xumsan (Shaposhnikov, 1956).

Host plants. *Arctium leiospermum*, *A. tomentosum* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) pulverina pulverina* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Andijan and Tashkent region (Kan, 1986).

Host plants. *Plantago major*, *P. media* (Plantaginaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) radicivorans* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent, Chirchik (Nevsky, 1929; Shaposhnikov, 1956).

Host plants. *Cirsium incanum* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) radicola* (Mordvilko, 1897)**

Distribution in Uzbekistan. Tien Shan. In the Fergana and Tashkent region (Kadyrbekov, 2017).

Host plants. *Malus domestica* (Rosaceae), *Rumex crispus*, *R. confertus* (Polygonaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) rumecicola emicis* (Mimeur, 1934)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Chirchik (Shaposhnikov, 1956).

Host plants. *Polygonum* sp., *Rumex crispus*, *R. fischeri*, *R. rechingerianus*, *Rheum tataricum* (Polygonaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) sorbiarum* (Narzikulov, 1954)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Bo'ston, Izboskan, Jalaquduq, Xo'jaobod districts (Khusanov, 2017).

Host plants. *Crataegus altaica*, *C. hissarica* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Dysaphis) unicauli* Mukhamediev, 1964**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Dang'ara, Fergana, Furqat, Qo'shtepa districts (Khusanov, 2017).

Host plants. *Seseli unicaule* (Apiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Pomaphis* Börner, 1939***Dysaphis (Pomaphis) pavlovskyana* Narzikulov, 1957**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Oltiariq, Quva, Rishton, So'x, Toshloq, Dang'ara districts (Khusanov, 2017).

Host plants. *Sorbus tianschanica*, *S. persica* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Pomaphis) plantaginea* (Passerini, 1860)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, Mingbuloq, Namangan, Pop, Chortoq districts (Khusanov, 2017).

Host plants. *Plantago lanceolata*, *P. media* (Plantaginaceae), *Malus domestica*, *M. kirghisorum*, *M. sieversii* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017),

***Dysaphis (Pomaphis) pyri* (Boyer de Fonscolombe, 1841)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangiqo'rg'on, Chust, Kosonsoy districts (Khusanov, 2017).

Host plants. *Pyrus communis*, *P. regelii* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Dysaphis (Pomaphis) reaumuri* (Mordvilko, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district Chimgan, Xumsan Mountain (Kadyrbekov, 2013), Namangan region, Chust, Kosonsoy, Uchqo'rg'on districts (Khusanov, 2017).

Host plants. *Pyrus communis*, *P. regelii* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Hayhurstia* Del Guercio, 1917***Hayhurstia atriplicis* (Linnaeus, 1761)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangi Namangan, Uychi, Yangiqo'rg'on districts (Khusanov, 2017).

Host plants. *Atriplex laevis*, *A. nitens*, *A. tatarica*, *Chenopodium album*, *Ch. hybridum* (Chenopodiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Hyadaphis* Kirkaldy, 1904***Hyadaphis coerulescens* (Narzykulov, 1965)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Beshariq, Buvayda, Uzbekistan, Yozyovon districts (Khusanov, 2017).

Host plants. *Schrenkia ugamica* (Apiaceae), *Lonicera nummulariifolia* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Hyadaphis coriandri* (Das, 1918)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2017).

Host plants. *Anethum graveolens*, *Angelica deccurens*, *Bunium setosum*, *Chaerophyllum praescotti*, *Daucus carota*, *Ferula akitschkensis*, *F. nuda*, *Libanotis schrenkiana*, *Prangos herderi*, *P. ornata*, *Seseli ledebourii*, *S. sessiliflorum* (Apiaceae), *Lonicera karatavensis*, *L. tatarica* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Hyadaphis ferganica* (Mukhamediev & Akmedov, 1979)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Namangan, Pop, Chortoq, To'raqo'rg'on ndijan districts (Khusanov, 2017).

Host plants. *Daucus carota* (Apiaceae), *Lonicera altmanni*, *L. nummulariifolia* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Hyadaphis foeniculi* (Passerini, 1860)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Namangan, Pop, Chortoq, To'raqo'rg'on districts (Khusanov, 2017).

Host plants. *Daucus carota* (Apiaceae), *Lonicera altmanni*, *L. nummulariifolia* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Hyadaphis passerinii* (Del Guercio, 1911)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Pop, Chortoq, To'raqo'rg'on, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Daucus carota* (Apiaceae), *Lonicera altmanni*, *L. tatarica* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Hyadaphis tataricae* (Aizenberg, 1935)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Rishton, So'x, Toshloq, Dang'ara, Fergana, Furqat districts (Khusanov, 2017).

Host plants. *Lonicera altaica*, *L. karelinii*, *L. tatarica*, *L. stenantha*, *L. xylosteum* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Hyalopterus* Koch, 1854***Hyalopterus amygdali* (Blanchard, 1840)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Asaka, Buloqboshi, Bo'ston, Izboskan districts (Khusanov, 2017).

Host plants. *Fragmites australis* (Poaceae), *Amygdalus communis*, *Armeniaca vulgaris*, *Prunus domestica*, *P. sogdiana*, *P. spinosa*, *Persica vulgaris*, *Padus avium* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Hyperomyzus* Börner, 1933**Subgenus *Hyperomyzus* Börner, 1933*****Hyperomyzus* (*Hyperomyzus*) *lactucae* (Linnaeus, 1758)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Dang'ara, Fergana, Furqat, Qo'shtepa, Bag'dod districts (Khusanov, 2017).

Host plants. *Lactuca altaica*, *L. serriola*, *L. tatarica*, *L. tianschanica*, *Sonchus arvensis*, *S. oleraceus* (Asteraceae), *Grossularia acicularis*, *G. oxycanthoides*, *Ribes aureum*, *R. atropurpureum*, *R. heterotrichum*, *R. meyeri*, *R. nigrum*, *R. saxatile* (Grossulariaceae) (Kadyrbekov, 2017; Khusanov, 2017),

Genus *Impatientinum* Mordvilko, 1914**Subgenus *Impatientinum* Mordvilko, 1914*****Impatientinum* (*Impatientinum*) *asiaticum asiaticum* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan (Kadyrbekov, 2017).

Host plants. *Impatiens parviflora* (Balsaminaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Klimaszewskia* Szelegiewicz, 1979***Klimaszewskia salviae* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2015).

Host plants. *Salvia sclarea* (Lamiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Lipaphis* Mordvilko, 1928**Subgenus *Lipaphidiella* Doncaster, 1954*****Lipaphis* (*Lipaphidiella*) *lepidii* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region (Nevsky, 1929).

Host plants. *Lepidium latifolium*, *L. perfoliatum*, *L. ruderales* (Brassicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Lepidaphis* Kadyrbekov, Renxin & Shao, 2002***Lepidaphis deformans* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Asaka, Baliqchi, Ulug'nor, Shahrixon, Buloqboshi districts (Khusanov, 2017).

Host plants. *Lepidium latifolium*, *L. obtusum* (Brassicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Liosomaphis* Walker, 1868***Liosomaphis berberidis* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Rishton, So'x, Toshloq, Dang'ara, Fergana, Furqat districts (Khusanov, 2017).

Host plants. *Berberis oblonga*, *B. integerrima*, *B. sphaerocarpa* (Berberidaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Longicaudus* van der Goot, 1913***Longicaudus trirhodus* (Walker, 1849)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Xumsan (Kadyrbekov, 2017).

Host plants. *Thalictrum flavum*, *T. foetidum*, *T. isopyroides*, *T. minus*, *T. collinum*, *T. simplex*, *Aquilegia glandulosa* (Ranunculaceae), *Rosa canina*, *R. chamomea*, *R. laxa* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Loniceraphis* Narzkulov, 1962***Loniceraphis paradoxa* Narzikulov, 1962**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district Aktash Mountain (Kadyrbekov, 2013).

Host plants. *Lonicera altaica*, *L. nummulariifolia*, *L. tatarica* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Macchiatiella* Del Guercio, 1909***Macchiatiella rhamni tarani* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Uychi, Norin, Pop, Chortoq, To'raqo'rg'on districts (Khusanov, 2017), Tashkent region, Bostanlik district Aktash Mountain (Kadyrbekov, 2013).

Host plants. *Polygonum alpinum*, *P. coriarium*, *P. songaricum*, *P. undulatum* (Polygonaceae), *Rhamnus cathartica* (Rhamnaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Macrosiphoniella* Del Guercio, 1911***Macrosiphoniella alata* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2017).

Host plants. *Artemisia arenaria*, *A. dracunculus*, *A. scoparia* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Asterobium* Hille Ris Lambers, 1938***Macrosiphoniella (Asterobium) aktaschica* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Chirchik (Nevsky, 1929; Kadyrbekov, 2017).

Host plants. *Tanacetum* sp. (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Macrosiphoniella (Asterobium) erigeronis* Nevsky, 1928**

Distribution in Uzbekistan. Tien Shan. In the Namangan region Mingbuloq, Namangan, Norin, Pop districts (Nevsky, 1929; Khusanov, 2017).

Host plants. *Erigeron acer* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Macrosiphoniella* Del Guercio, 1911***Macrosiphoniella (Macrosiphoniella) abrotani abrotani* (Walker, 1852)**

Distribution in Uzbekistan. Tien Shan (Kadyrbekov, 2017).

Host plants. *Artemisia absinthium*, *A. austriaca*, *A. marschalliana*, *A. procera*, *A. tournefortiana*, *A. vulgaris*, *Matricaria inodora*, *M. perfoliata*, *Pyrethrum corimbosum*, *Tanacetum pseudoachilleae* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Macrosiphoniella (Macrosiphoniella) aktashica* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan (Kadyrbekov, 2017).

Host plants. *Tanacetum pseudoachillea*, *T. turlanicum*, *Achillea millefolium* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Macrosiphoniella (Macrosiphoniella) nigropilosa* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent, Xumsan (Kadyrbekov, 2003).

Host plants. *Artemisia bungeana*, *A. santolinifolia*, *A. dracunculus* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Macrosiphoniella (Macrosiphoniella) olgae* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Chirchik (Nevsky, 1929).

Host plants. *Gnaphalium supinum* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Macrosiphoniella (Macrosiphoniella) pulvera* (Walker, 1848)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Shahrixon, Ulug‘nor, Qo‘rg‘ontepa districts (Khusanov, 2017). In the Tashkent region (Kadyrbekov, 2017).

Host plants. *Artemisia pontica*, *A. serotina*, *A. terrae-albae* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Papillomyzus* Szelegiewicz, 1963***Macrosiphoniella (Papillomyzus) tuberculata* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Oltinko‘l, Paxtaobod, Asaka, Baliqchi, Shahrixon districts (Nevsky, 1929; Davletshina, 1964; Kan, 1986).

Host plants. *Cousinia affinis*, *Carduus nutans* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Macrosiphum* Passerini, 1860**Subgenus *Macrosiphum* Passerini, 1860*****Macrosiphum (Macrosiphum) euphorbiae* (Thomas, 1878)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chust, Kosonsoy, Mingbuloq districts (Khusanov, 2017).

Host plants. *Ligularia persica*, *Lactuca serriola* (Asteraceae), *Echium vulgare* (Boraginaceae), *Cerastium dahuricum* (Caryophyllaceae), *Euphorbia* sp. (Euphorbiaceae), *Medicago falcata* (Fabaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Macrosiphum (Macrosiphum) pulcherrimum* Nevsky, 1928**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangiqo‘rg‘on, Chust, Kosonsoy districts (Khusanov, 2017).

Host plants. *Lactuca saligna*, *Lactuca* sp. (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Macrosiphum (Macrosiphum) rosae* (Linnaeus, 1758)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Namangan, Uchqo‘rg‘on, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Scabiosa ochroleuca* (Dipsacaceae), *Chamaenerion angustifolium*, *Epilobium* sp. (Onagraceae), *Caltha palustris* (Ranunculaceae), *Rosa acicularis*, *R. alba*, *R. alberti*, *R. beggeriana*, *R. canina*, *Pentaphylloides fruticosa*, *Potentilla tephroleuca* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Megoura* Buckton, 1876***Megoura viciae* Buckton, 1876**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Uychi, Norin, Pop, Chortoq, To‘raqo‘rg‘on districts (Khusanov, 2017).

Host plants. *Lathyrus pratense*, *Vicia angustifolia*, *V. tenuifolia* (Fabaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Metopolophium* Mordvilko, 1914**Subgenus *Metopolophium* Mordvilko, 1914*****Metopolophium (Metopolophium) dirhodum* (Walker, 1849)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chortoq, To‘raqo‘rg‘on, Yangiqo‘rg‘on districts (Khusanov, 2017).

Host plants. *Scirpus* sp. (Cyperaceae), *Calamogrostis epigeios*, *Dactylis glomerata*, *Hordeum* spp., *Triticum* spp. (Poaceae), *Rosa acicularis*, *R. canina*, *R. laxa* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Metopolophium (Metopolophium) festucae festucae* (Theobald, 1917)**

Distribution in Uzbekistan. Tien Shan (Kadyrbekov, 2017).

Host plants. *Festuca alataevica*, *Eritrichium villosum* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Metopolophium (Metopolophium) mukhamadievi* Akhmedov, 1988**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, Pop, Chortoq, To‘raqo‘rg‘on districts (Khusanov, 2017).

Host plants. *Lonicera microphylla* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Microlophium* Mordvilko, 1914***Microlophium carnosum* (Buckton, 1876)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2017).

Host plants. *Urtica cannabina*, *U. dioica* (Urticaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Microsiphum* Cholodkovsky, 1902***Microsiphum jazykovi* Nevsky, 1928**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Toshloq, Dang‘ara, Fergana, Furqat, Qo‘shstepa districts (Khusanov, 2017).

Host plants. *Artemisia absinthium*, *A. sericea*, *A. sieversiana*, *A. vulgaris* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Myzaphis* van der Goot, 1913***Myzaphis rosarum* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Paxtaobod, Jalaquduq, Xo‘jaobod districts (Khusanov, 2017).

Host plants. *Rosa acicularis*, *R. alberti*, *R. beggeriana*, *R. canina*, *R. cinnamomea*, *Pentaphylloides fruticosa*, *P. parviflora*, *P. phyllocalyx* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Myzaphis turanica* Nevsky, 1929**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Asaka, Buloqboshi, Bo‘ston, Izboskan districts (Khusanov, 2017).

Host plants. *Rosa beggeriana*, *R. kokanica*, *R. spinosissima* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Myzus* Passerini, 1860**Subgenus *Galiobium* Börner, 1933*****Myzus (Galiobium) langei* (Börner, 1933)**

Distribution in Uzbekistan. Tien Shan. In the Fergana, Andijan and Namangan regions (Akhmedov & Toshmatova, 2005).

Host plants. *Galium ruthenicum*, *G. verum* (Rubiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Myzus* Passerini, 1860***Myzus (Myzus) amygdalinus* (Nevsky, 1928)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangiqo'rg'on, Chust, Kosonsoy, Mingbuloq districts (Khusanov, 2017).

Host plants. *Prunus amygdalus*, *P. mahaleb* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Myzus (Myzus) cerasi* (Fabricius, 1775)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Baliqchi, Ulug'nor, Bo'ston, Paxtaobod, Shahrixon, Bulqoboshi districts (Khusanov, 2017).

Host plants. *Galium aparine* (Rubiaceae), *Lathyrus* sp. (Fabaceae), *Amygdalus communis*, *A. ledebouriana*, *A. nana*, *Cerasus avium*, *C. domestica*, *Padus avium*, *Prunus domestica* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Myzus (Myzus) lythri* (Schrank, 1801)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Xumsan, Chimgan mounts (Kadyrbekov, 2017).

Host plants. *Lythrum virgatum* (Lythraceae), *Epilobium hirsutum* (Onagraceae), *Lysimachia vulgaris* (Primulaceae), *Padus mahaleb* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Nectarosiphon* Schouteden, 1901***Myzus (Nectarosiphon) beybienkoi* (Narzikulov, 1957)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chortoq, To'raqo'rg'on, Yangiqo'rg'on districts (Khusanov, 2017).

Host plants. *Fraxinus sogdiana* (Oleaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Myzus (Nectarosiphon) persicae* (Sulzer, 1776)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, Pop, Chortoq, To'raqo'rg'on, Yangiqo'rg'on districts (Khusanov, 2017), Tashkent region Gazalkent district (Kadyrbekov, 2013).

Host plants. Aceraceae, Asteraceae, Brassicaceae, Campanulaceae, Chenopodiaceae, Convolvulaceae, Cucurbitaceae, Cuscutaceae, Malvaceae, Rosaceae, Solanaceae, Verbenaceae (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Nearctaphis* Shaposhnikov, 1950***Nearctaphis bakeri* (Cowen, 1895)**

Distribution in Uzbekistan. Tien Shan. (Kadyrbekov, 2017).

Host plants. *Trifolium pratense* (Fabaceae), *Persica vulgaris* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Neomyzus* van der Goot, 1915***Neomyzus circumflexus* (Buckton, 1876)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Baliqchi, Shahrixon Ulug'nor, Qo'rg'ontepa districts (Khusanov, 2017).

Host plants. *Draba lanceolata* (Brassicaceae), *Solanum depilatum* (Solanaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Obtusicauda* Soliman, 1927***Obtusicauda dolychosiphon* (Umarov, 1964)**

Distribution in Uzbekistan. Tien Shan. (Kadyrbekov, 2017).

Host plants. *Artemisia* sp. (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Ovatus* van der Goot, 1913**Subgenus *Ovatus* van der Goot, 1913*****Ovatus (Ovatus) crataegarius* (Walker, 1850)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Baliqchi, Ulug'nor, Bo'ston, Paxtaobod, Shahrixon, Bulqoboshi districts (Khusanov, 2017).

Host plants. *Mentha asiatica*, *Dracocephalum nutans* (Lamiaceae), *Crataegus altaica*, *C. songorica*, *C. pontica* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Ovatus (Ovatus) insitus* (Walker, 1849)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Beshariq, Buvayda, Uzbekistan, Yozyovon districts (Khusanov, 2017).

Host plants. *Lycopus europaeus* (Lamiaceae), *Crataegus altaica*, *C. pontica*, *C. turkestanica* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Paczoskia* Mordvilko, 1914***Paczoskia paczorskii* Mordvilko, 1919**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Chirchik (Kadyrbekov, 2015).

Host plants. *Echinops karatavicus* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Paczoskia paczorskii turanica* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Andijan, Fergana regions (Nevsky, 1929; Narzikulov & Umarov, 1969).

Host plants. *Echinops chantavicus*, *E. karatavicus*, *E. sphaerocephalus*, *E. tschimganicus* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Phorodon* Passerini, 1860**Subgenus *Phorodon* Passerini, 1860*****Phorodon (Phorodon) humuli* (Schrank, 1801)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Pop, Chortoq, To'raqo'rg'on, Yangiqo'rg'on districts (Khusanov, 2017).

Host plants. *Humulus lupulus* (Cannabiaceae), *Prunus domestica*, *P. divaricata*, *P. sogdiana*, *P. spinosa*, *Armeniaca vulgaris* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Pleotrichophorus* Börner, 1930***Pleotrichophorus glandulosus* (Kaltenbach, 1846)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, To‘raqo‘rg‘on, Yangiqo‘rg‘on, Chust districts (Khusanov, 2017).

Host plants. *Humulus lupulus* (Cannabaceae), *Prunus* sp., *Prunus insititia* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Pleotrichophorus glandulosus ispharinus* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region (Nevsky, 1929).

Host plants. *Artemisia sericea*, *A. vulgaris* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Pterocomma* Buckton, 1879***Pterocomma pilosum* Buckton, 1879**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Toshloq, Dang‘ara, Fergana, Furqat, Qo‘shstepa districts (Khusanov, 2017).

Host plants. *Salix alba*, *S. fragilis*, *S. iliensis*, *S. turanica* (Salicaceae) (Kadyrbekov 2017; Khusanov, 2017).

***Pterocomma populeum* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2013).

Host plants. *Populus laurifolia*, *P. nigra*, *P. pyramidalis* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Pterocomma rufipes* (Hartig, 1841)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2013).

Host plants. *Salix alata*, *S. alba*, *S. argyracea*, *S. fragilis*, *S. glauca*, *S. irilowiana*, *S. longifolia*, *S. pentandra*, *S. pycnostachya*, *S. triandra* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Pterocomma salicis* (Linnaeus, 1758)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Ulug‘nor, Qo‘rg‘ontepa, Marhamat, Oltinko‘l, Paxtaobod districts (Khusanov, 2017).

Host plants. *Salix alba*, *S. caesia*, *S. cinerea*, *S. kirilowiana*, *S. triandra*, *S. viminalis* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Rhopalomyzus* Mordvilko, 1921**Subgenus *Rhopalomyzus* Mordvilko, 1921*****Rhopalomyzus (Rhopalomyzus) alaica* Mukhamediev & Akhmedov, 1977**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chortoq, To‘raqo‘rg‘on, Yangiqo‘rg‘on districts (Khusanov, 2017).

Host plants. *Lonicera microphylla* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Rhopalomyzus (Rhopalomyzus) hissarica* Narzikulov, 1965**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Quva, Rishton, So‘x, Uzbekistan, Yozyovon districts (Khusanov, 2017).

Host plants. *Lonicera* spp. (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Rhopalomyzus (Rhopalomyzus) narzikulovi* Mukhamediev & Akhmedov, 1976**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Asaka, Andijan districts (Khusanov, 2017).

Host plants. *Lonicera nummulariifolia* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Rhopalomyzus (Rhopalomyzus) tianshanica* Narzikulov, 1963**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, To'raqo'rg'on, Yangiqo'rg'on, Chust, Kosonsoy districts (Khusanov, 2017).

Host plants. *Lonicera korolkovii*, *L. karelinii* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Judenkoa* Hille Ris Lambers, 1953***Rhopalomyzus (Judenkoa) lonicerae* (Siebold, 1839)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, Pop, Chortoq, To'raqo'rg'on districts (Khusanov, 2017).

Host plants. *Lonicera altmanni*, *L. microphylla*, *L. tatarica* (Caprifoliaceae), *Juncus* sp. (Cyperaceae), *Phalaris arundinacea* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Semiaphis* van der Goot, 1913.***Semiaphis aizenbergi* (Narzikulov, 1957)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Bag'dod, Beshariq, Buvayda, Uzbekistan districts (Khusanov, 2017).

Host plants. *Lonicera microphylla*, *L. stenantha*, *L. simulatrix*, *L. tatarica* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Semiaphis anthrisci* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Jalaquduq, Xo'jaobod districts (Khusanov, 2017).

Host plants. *Anthriscus sylvestris*, *Bunium setosum*, *Bupleurum aureum*, *B. longifolium*, *Carum carvi*, *Cicuta virosa*, *Heracleum sibiricum* (Apiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Semiaphis dauci dauci* (Fabricius, 1775)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent, Xumsan (Kadyrbekov, 2005).

Host plants. *Bunium setosum*, *Bupleurum aureum*, *Daucus carota*, *Cenolophium fischerii*, *Libanotis* sp., *Schrenkia vaginata*, *Seseli buchtarmense*, *S. sessiliflorum*, *Silaus alpestre*, *S. besseri* (Apiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Semiaphis longissima* Narzikulov, 1965**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Asaka, Andijan districts (Khusanov, 2017).

Host plants. *Lonicera microphylla* (Caprifoliaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Sitobion* Mordvilko, 1914**Subgenus *Sitobion* Mordvilko, 1914*****Sitobion (Sitobion) avenae* (Fabricius, 1775)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Aktash Mountain, Gazalkent districts (Kadyrbekov, 2013).

Host plants. *Atropis* sp., *Bothriochloa ischaemum*, *Bromus* sp., *Dactylis glomerata*, *Elymus* sp., *Fragmites australis*, *Helictotrichon pubescens*, *Holoschoenus vulgaris*, *Leymus ramosus*, *Phleum phleoides*, *Stipa* sp., (Cyperaceae), *Polygonum nitens* (Polygonaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Sitobion (Sitobion) fragariae* (Walker, 1848)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region Aktash Mountain, Gazalkent districts (Kadyrbekov, 2013).

Host plants. *Agrostis gigantea*, *Bromus* sp., *Echinochloa crus-galii*, *Milium effusum*, *Phleum phleoides*, *Trithicum aesculum* (Poaceae), *Polygonum nitens* (Polygonaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Staticobium* Mordvilko, 1914***Staticobium otolepidis* Nevsky, 1928**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangiqo'rg'on, Chust, Kosonsoy, Mingbuloq districts (Khusanov, 2017).

Host plants. *Limonium otolepis* (Plumbaginaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Titanosiphon* Nevsky, 1928***Titanosiphon dracunculi* Nevsky, 1928**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Fergana, Furqat, Qo'shtepa, Bag'dod, Beshariq districts (Khusanov, 2017).

Host plants. *Artemisia dracunculus* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Titanosiphon neoartemisiae* (Takahashi, 1921)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Quva, Rishton, So'x, Uzbekistan, Yozyovon districts (Khusanov, 2017).

Host plants. *Artemisia arenaria*, *A. scoparia*, *A. tomentella* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Tricaudatus* Narzikulov, 1957***Tricaudatus polygona* (Narzikulov, 1953)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Bo'ston, Izboskan, Baliqchi, Shahrixon districts (Khusanov, 2017).

Host plants. *Polygonum nitens* (Polygonaceae), *Spiraea hypericifolia*, *S. media* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Uroleucon* Mordvilko, 1914**Subgenus *Lambersius* Olive, 1965*****Uroleucon (Lambersius) mulgedii mulgedii* (Nevsky, 1928)0**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Chirchik, Gazalkent (Nevsky, 1929; Kadyrbekov, 2003).

Host plants. *Cichorium intybus*, *Lactuca tatarica*, *L. serriola* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Uroleucon* Mordvilko, 1914***Uroleucon (Uroleucon) bicolor* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Nevsky, 1929; Narzikulov & Umarov, 1969; Holman, 1991).

Host plants. *Senecio dubius*, *Onopordum acanthium* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Uroleucon (Uroleucon) chondrillae* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Bag‘dod, Beshariq, Buvayda, Uzbekistan districts (Khusanov, 2017).

Host plants. *Chondrilla canescens*, *C. juncea*, *C. latifolia*, *C. laticoronata* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Uromelan* Mordvilko, 1914***Uroleucon (Uromelan) acroptilidis* Kadyrbekov, Renxin & Shao, 2002**

Distribution in Uzbekistan. Tien Shan. In Namangan region, To‘raqo‘rg‘on, Chust districts, Tashkent region Gazalkent district (Kadyrbekov, 2013).

Host plants. *Acroptilon australe*, *A. repens* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Uroleucon (Uromelan) aeneum* (Hille Ris Lambers, 1939)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district (Kadyrbekov, 2003).

Host plants. *Carduus nutans*, *C. pycnocephalus*, *C. schischkinii*, *Cirsium* sp., *Sonchus arvensis* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Uroleucon (Uromelan) jaceae jaceae* (Linnaeus, 1758)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Nevsky, 1929; Narzikulov et.al., 1969; Kadyrbekov, 2003).

Host plants. *Centaurea adpressa*, *C. cyanus*, *C. ruthenica*, *C. scabiosa* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subfamily Calaphidinae Oestlund, 1919**Tribe: Myzocallidini Börner, 1942****Genus *Tuberculatus* Mordvilko, 1894****Subgenus *Tuberculoides* van der Goot, 1915*****Tuberculatus (Tuberculoides) annulatus* (Hartig, 1841)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Uchko‘prik, Uzbekistan, Yozyovon, Oltiariq, Quva districts (Khusanov, 2017).

Host plants. *Quercus pubescens*, *Q. robur* (Fagaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tribe: Panaphidini Oestlund, 1923**Genus *Chromaphis* Walker, 1870*****Chromaphis juglandicola* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Mingbuloq, Namangan, Norin, Pop, Chortoq districts (Khusanov, 2017).

Host plants. *Juglans regia* (Juglandaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Panaphis* Kirkaldy, 1904***Panaphis juglandis* (Goeze, 1778)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Chimgan, Xumsan Mountain (Kadyrbekov, 2013), Namangan region, Chust, Kosonsoy, Yangiqo‘rg‘on, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Juglans regia* (Juglandaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tribe: Saltusaphidini Baker, 1920**Subtribe: Saltusaphidina Baker, 1920****Genus *Iziphyia* Nevsky, 1929*****Iziphyia bufo* (Walker, 1848)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Kadyrbekov, 2017).

Host plants. *Carex* sp. (Cyperaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tribe: Shivaphidini Lee, Kanturski & Foottit, 2021**Genus *Shivaphis* Das, 1918****Subgenus *Sinishivaphis* Zhang, 1982*****Shivaphis* (*Sinishivaphis*) *celticola* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, Pop, Chortoq, Chust, Kosonsoy, Uychi districts (Khusanov, 2017).

Host plants. *Salix pentandra*, *Salix triandra* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tribe: Therioaphidini Börner, 1944**Genus *Therioaphis* Walker, 1870****Subgenus *Pterocallidium* Börner, 1949*****Therioaphis* (*Pterocallidium*) *trifolii* (Monell, 1882)**

Distribution in Uzbekistan. Tien Shan. In the Andijan and Tashkent regions (Narzikulov & Umarov, 1969).

Host plants. *Medicago falcata*, *M. sativa*, *M. romanica*, *Trifolium pratense* (Fabaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Therioaphis* Walker, 1870***Therioaphis* (*Therioaphis*) *ononidis* (Kaltenbach, 1846)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Toshloq, Dang‘ara, Fergana, Furqat, Qo‘sh tepa districts (Khusanov, 2017).

Host plants. *Ononis antiquorum* (Fabaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Tinocallis* Matsumura, 1919**Subgenus *Sappocallis* Matsumura, 1919*****Tinocallis* (*Sappocallis*) *nevskyi* Remaudière, Quednau & Heie, 1988**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district (Kadyrbekov, 2013).

Host plants. *Ulmus pumila* (Ulmaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Tinocallis* (*Sappocallis*) *saltans* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2013), Fergana region, Dang‘ara, Fergana, Furqat, Qo‘sh tepa districts (Khusanov, 2017).

Host plants. *Ulmus pumila* (Ulmaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tribe: Calaphidini Oestlund, 1919**Subtribe: Calaphidina Oestlund, 1919****Genus *Clethrobius* Mordvilko, 1928**

***Clethrobium comes* (Walker, 1848)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Fergana, Furqat, Qo'shtepa, Bag'dod, Beshariq districts (Khusanov, 2017).

Host plants. *Betula pendula*, *B. pubescens*, *B. tianschanica*, *B. turkestanica* (Betulaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subfamily Chaitophorinae Mordvilko, 1909**Tribe: Chaitophorini Mordvilko, 1909****Genus *Chaitophorus* Koch, 1854*****Chaitophorus capreae* (Mosley, 1841)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Asaka, Baliqchi, Bo'ston, Buloqboshi, Izboskan districts (Khusanov, 2017).

Host plants. *Salix alba*, *S. kirilowiana*, *S. pentandra*, *S. triandra* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Chaitophorus leucomelas* Koch, 1854**

Distribution in Uzbekistan. Tien Shan. In the Andijan region Jalaquduq, Xo'jaobod, Marhamat, Oltinko'l, Paxtaobod districts (Khusanov, 2017).

Host plants. *Populus laurifolia*, *P. nigra*, *P. pyramidalis*, *P. simoni*, *P. talassica* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Chaitophorus populiabae* (Boyer de Fonscolombe, 1841)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Mingbuloq, Namangan, Norin, Pop, Chortoq districts (Khusanov, 2017).

Host plants. *Potentilla diversifolia* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Chaitophorus populiabae populiabae* (Boyer de Fonscolombe, 1841)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Kadyrbekov, 2017).

Host plants. *Populus alba*, *P. laurifolia*, *P. tremula* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Chaitophorus populeti* (Panzer, 1801)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2013), Fergana region, Rishton, So'x, Toshloq, Bag'dod, Beshariq, Buvayda districts (Khusanov, 2017).

Host plants. *Populus alba*, *P. deltoides*, *P. tremula* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Chaitophorus populeti populeti* (Panzer, 1801)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Kadyrbekov, 2017).

Host plants. *Populus alba*, *P. deltoides*, *P. tremula* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Chaitophorus pruinosa* Narzikulov, 1954**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Fergana, Furqat, Qo'shtepa, Uchko'prik districts (Khusanov, 2017).

Host plants. *Populus diversifolia*, *P. litvinoviana*, *P. pruinosa* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Chaitophorus salicti* (Schrank, 1801)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangi Namangan, To‘raqo‘rg‘on, Uchqo‘rg‘on districts (Khusanov, 2017).

Host plants. *Salix argyracea*, *S. caesia*, *S. cinerea*, *S. pentandra*, *S. wilhelmsiana* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Chaitophorus salijaponicus niger* (Mordvilko, 1929)**

Distribution in Uzbekistan. Kyzylkum desert. In the Khorezm region, Shavat, Gurlan districts (Abdullayeva et al., 2023).

Host plants. *Salix alba*, *S. argyracea*, *S. caspica*, *S. cinerea*, *S. iliensis*, *S. kirilowiana*, *S. rosmarinifolia*, *S. songarica*, *S. tenujulis*, *S. turanica*, *S. viminalis*, *S. wilhelmsiana* (Salicaceae) (Abdullayeva et al., 2023).

Genus *Lambersaphis* Narzikulov, 1961***Lambersaphis pruinosa* (Narzikulov, 1954)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Uzbekistan, Yozyovon, Oltiariq districts (Khusanov, 2017).

Host plants. *Populus diversifolia*, *P. litvinoviana*, *P. pruinosa* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Periphyllus* van der Hoeven, 1863***Periphyllus mamontovae* Narzikulov, 1957**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Xo‘jaobod, Qo‘rg‘ontepa, Marhamat, Oltinko‘l, Paxtaobod, Shahrixon, Ulug‘nor districts (Khusanov, 2017).

Host plants. *Acer turkestanicum*, *A. regelii* (Sapindaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Periphyllus nevskyi* Mamontova, 1955**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangi Namangan, To‘raqo‘rg‘on, Mingbuloq, Namangan districts (Khusanov, 2017).

Host plants. *Acer negundo*, *A. semenovii* (Aceraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tribe: Siphini Eastop & van Emden, 1972**Genus *Sipha* Passerini, 1860****Subgenus *Rungsia* Mimeur, 1933*****Sipha* (*Rungsia*) *elegans* Del Guercio, 1905**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district (Nevsky, 1929).

Host plants. *Carex* sp. (Cyperaceae), *Juncus* sp. (Juncaceae), *Achnatherum splendens*, *Aegilops cylindrica*, *Agropyron fragile*, *Bromus* sp., *E. multicaulis*, *Festuca gigantea*, *F. orientalis*, *F. sulcata*, *Helictotrichon pubescens*, *Leymus ramosus*, *Poa* sp., *Triticum aestivum* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Sipha* (*Rungsia*) *maydis* Passerini, 1860**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, Pop, Chortoq, Chust, Kosonsoy, Uychi districts (Khusanov, 2017).

Host plants. *Carex* sp. (Cyperaceae), *Achnatherum splendens*, *Aegilops cylindrica*, *Arrhenatherum elatius*, *Dactylis glomerata*, *Elymus angustus*, *E. giganteus*, *E. sibiricus*, *H. turkestanicum*, *Poa pratensis*, *Stipagrostis pennata*, *Secale silvestre*, *Stipa* sp., *Triticum aestivum* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subfamily Eriosomatinae Baker, 1920**Tribe: Eriosomatini Baker, 1920****Genus *Eriosoma* Leach, 1818*****Eriosoma lanigerum* (Hausmann, 1802)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Oltiariq, Bag‘dod, Beshariq districts (Khusanov, 2017).

Host plants. *Malus domestica*, *M. sieversii*, *Pyrus communis*, *P. regelii*, *Cotoneaster* spp., *Sorbus persica* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Eriosoma lanuginosum* (Hartig, 1839)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Buvayda, Dang‘ara, Fergana, Furqat districts (Khusanov, 2017).

Host plants. *Pyrus communis*, *P. regelii* (Rosaceae), *Ulmus laevis* (Ulmaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Eriosoma patchiae* (Börner & Blunk, 1916)**

Distribution in Uzbekistan. Tien Shan. In the Fergana, Namangan and Tashkent regions (Nevsky, 1929; Narzikulov & Umarov, 1969).

Host plants. *Senecio jacobaea* (Asteraceae), *Ulmus densa*, *U. pumila*, *U. scabra* (Ulmaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Eriosoma phaenax* Mordvilko, 1923**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Qo‘sh tepa, Quva, Rishton, So‘x districts (Khusanov, 2017).

Host plants. *Euphorbia patchiae*, *E. phaenax* (Euphorbiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Eriosoma ulmi* (Linnaeus, 1758)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent, Chirchik, Aktash (Kadyrbekov, 2013), Fergana region, Toshloq, Uchko‘prik, Uzbekistan, Yozyovon districts (Khusanov, 2017).

Host plants. *Ribes* spp., *Grossularia acicularis* (Grossulariaceae), *Ulmus laevis*, *U. pumila*, *U. scabra* (Ulmaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Eriosoma ulmipumilae* Ivanovskaja, 1976**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Chirchik (Kadyrbekov, 2013).

Host plants. *Ulmus pumila* (Ulmaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Kaltenbachiella* Schouteden, 1906***Kaltenbachiella pallida* (Haliday, 1838)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2013), Namangan region, Kosonsoy, Mingbuloq, Namangan, Norin districts (Khusanov, 2017).

Host plants. *Origanum vulgare*, *Mentha arvensis*, *M. asiatica* (Lamiaceae), *Ulmus laevis*, *U. pumila* (Ulmaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Tetraneura* Hartig, 1841

Subgenus *Tetraneura* Hartig, 1841

Tetraneura (*Tetraneura*) *africana* van der Goot, 1912

Distribution in Uzbekistan. Tien Shan. In the Tashkent and Andijan regions, Bostanlik district (Kan, 1986).

Host plants. *Calamagrostis epigeios*, *Elymus multicaulis*, *Fragmites australis*, *Achnatherum splendens* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tetraneura (*Tetraneura*) *caerulescens* (Passerini, 1856)

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Pop, To'raqo'rg'on, Uchqo'rg'on districts (Khusanov, 2017).

Host plants. *Cynodon dactylon*, *Milium vernale* (Poaceae), *Ulmus laevis* (Ulmaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tetraneura (*Tetraneura*) *ulmi* (Linnaeus, 1758)

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2013), Namangan region, Uychi, Yangiqo'rg'on, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Ulmus androssovii*, *U. densa*, *U. laevis*, *U. pumila* (Ulmaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Tetraneurella* Hille Ris Lambers, 1970

Tetraneura (*Tetraneurella*) *nigriabdominalis* (Sasaki, 1899)

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Toshloq, Dang'ara, Fergana, Furqat, Qo'shtepa districts (Khusanov, 2017).

Host plants. *Ulmus pumila* (Ulmaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tribe: Fordini Baker, 1920

Genus *Aploneura* Passerini, 1863

Aploneura *lentisci* (Passerini, 1856)

Distribution in Uzbekistan. Tien Shan. In the Tashkent and Andijan regions, Bostanlik district (Kan, 1986).

Host plants. *Carex* sp. (Cyperaceae), *Stipa* sp., *Elytrigia repens*, *Poa bulbosa* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Forda* von Heyden, 1837

Forda *pawlowae* (Mordvilko, 1900)

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Bo'ston, Baliqchi, districts (Khusanov, 2017).

Host plants. *Elytrigia repens*, *Elymus* sp., *Festuca valessiaca*, *F. orientalis*, *Poa angustifolia*, *Leymus ramosus*, *Stipa lessingiana* (Poaceae) (Kadyrbekov 2017, Khusanov, 2017).

Forda *formicaria* von Heyden, 1837

Distribution in Uzbekistan. Tien Shan. In the Fergana and Namangan regions, Dang'ara, Fergana, Furqat, Qo'shtepa, To'raqo'rg'on, Uchqo'rg'on districts (Khusanov, 2017).

Host plants. *Calamagrostis epigeios*, *Cynodon dactylon*, *Elymus dahuricus*, *Koeleria gracilis*, *Poa angustifolia*, *F. valessiaca*, *Puccinella gigantea* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Forda hirsuta* Mordvilko, 1928**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Kosonsoy, To'raqo'rg'on, Uchqo'rg'on districts (Khusanov, 2017).

Host plants. *Pistacia vera* (Anacardiaceae), *Aeluropus pungens*, *Bromus danthoniae*, *Eremopyrum orientale*, *Festuca valessiaca*, *H. roshevitzii*, *H. turkestanicum*, *Poa angustifolia* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Forda marginata* Koch, 1857**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangiqo'rg'on, Yangi Namangan, Mingbuloq, Namangan districts (Khusanov, 2017).

Host plants. *Agrostis gigantea*, *Apera interrupta*, *Bromus danthoniae*, *B. scoparius*, *Eremopyrum buonapartis*, *Helichtotrichon pubescens*, *Hordeum brevisubulatum*, *Phleum phleoides*, *Poa angustifolia*, *Puccinella gigantea*, *Elytrigia repens*, *E. elongatiforme* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Geoica* Hart 1894***Geoica lucifuga* (Zehntner, 1897)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangiqo'rg'on, Yangi Namangan, Mingbuloq, Namangan, Norin districts (Khusanov, 2017).

Host plants. Poaceae and Cyperaceae, *Pistacia sinensis* (Anacardiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Geoica setulosa* (Passerini, 1860)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Furqat, Qo'shtepa, Quva, Rishton districts (Khusanov, 2017).

Host plants. *Agrostis* sp., *Briza* sp., *Holcus* sp. (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Geoica utricularia* (Passerini, 1856)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent and Namangan regions, Bostanlik district (Kan, 1986).

Host plants. *Calamagrostis epigeios*, *Bromus danthoniae*, *B. scoparius*, *Eremopyrum buonapartis*, *Poa bulbosa*, *P. angustifolia*, *Stipa lessingiana*, *S. pennata*, *S. sareptana* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Paracletus* von Heyden, 1837***Paracletus bykovi* (Mordvilko, 1921)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, So'x, Toshloq, Uchko'prik, Uzbekistan, Yozyovon districts (Khusanov, 2017).

Host plants. *Bromus scoparius*, *Leymus ramosus*, *Poa angustifolia* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Paracletus bykovi bykovi* (Mordvilko, 1921)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Kadyrbekov, 2017).

Host plants. *Bromus scoparius*, *Leymus ramosus*, *Poa angustifolia* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Paracletus cimiciformis* von Heyden, 1837**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Buvayda, Dang'ara, Fergana, Furqat districts (Khusanov, 2017).

Host plants. *Calamagrostis epigeios*, *Cynodon dactylon*, *Dactylis glomerata*, *Puccinella tenuissima*, *Triticum aestivum*, *T. durum* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Paracletus cimiciformis cimiciformis* von Heyden, 1837**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region (Kadyrbekov, 2017).

Host plants. *Calamagrostis epigeios*, *Cynodon dactylon*, *Dactylis glomerata*, *Puccinella tenuissima*, *Triticum aestivum*, *T. durum* (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Rectinasus* Theobald, 1914***Rectinasus buxtoni* Theobald, 1914**

Distribution in Uzbekistan. Tien Shan. In the Tashkent and Fergana regions, Bostanlik district (Kan, 1986).

Host plants. *Artemisia cina*, *Scorzonera tau-saghyz*, *Cousinia alata* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Slavum* Mordvilko, 1927***Slavum lentiscoides* Mordvilko, 1927**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Namangan, Norin, Pop, Chortoq districts (Khusanov, 2017).

Host plants. *Pistacia vera* (Anacardiaceae), *Bromus* sp., *Eragrostis minor*, *Eremopyrum orientale*, *Poa bulbosa*, *P. pratensis*, *Setaria glauca*, *Stipa* sp. (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Slavum mordvilko* Kreutzberg, 1953**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Asaka, Andijan districts (Khusanov, 2017).

Host plants. *Pistacia vera* (Anacardiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Smynthuroides* Westwood, 1849***Smynthuroides betae* Westwood, 1849**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Asaka, Andijan districts (Khusanov, 2017).

Host plants. *Cirsium incanum*, *Cousinia affinis*, *Matricaria inodora* (Asteraceae), *Cardaria repens*, *Descurainia sophia*, *Sisymbrium polymorphum* (Brassicaceae), *Atriplex tatarica*, *Beta sativa*, *Chenopodium album* (Chenopodiaceae), *Alhagi pseudalhagi* (Fabaceae), *Rubus caesius* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tribe: Pemphigini Herrich-Schaeffer, 1854**Genus *Gootiella* Tullgren, 1925*****Gootiella tremulae* Tullgren, 1925**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Mingbuloq, Namangan, Norin, Pop districts (Khusanov, 2017).

Host plants. *Juniperus sabina* (Cupressaceae), *Populus tremula* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Pemphigus* Hartig, 1839**Subgenus *Pemphigus* Hartig, 1839*****Pemphigus (Pemphigus) borealis* Tullgren, 1909**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region Bostanlik district, Gazalkent, Fergana region, Asaka, Andijan districts (Kadyrbekov, 2013).

Host plants. *Bidens tripartitus* (Asteraceae), *Populus laurifolia*, *P. nigra*, *P. talassica*, *P. iliensis*, *P. pyramidalis*, *P. simoni*, *P. suaveolens* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Pemphigus (Pemphigus) bursarius (Linnaeus, 1758)

Distribution in Uzbekistan. Tien Shan. In the Tashkent region Bostanlik district, Gazalkent (Kadyrbekov, 2013), Fergana region, Asaka, Andijan districts (Khusanov, 2017).

Host plants. *Ambrosia artemisifolia*, *Crepis* spp., *Cichorium intybus*, *Hieracium* spp., *Lactuca tatarica*, *Sonchus arvensis*, *S. oleraceus*, *Tragopogon altaicus* (Asteraceae), *Populus bolleana*, *P. balsamifera*, *P. deltoides*, *P. densa*, *P. laurifolia*, *P. nigra*, *P. pyramidalis*, *P. simoni*, *P. talassica* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Pemphigus (Pemphigus) fuscicornis (Koch, 1857)

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Asaka, Andijan districts (Khusanov, 2017).

Host plants. *Atriplex tatarica*, *Beta vulgaris*, *Chenopodium album* (Chenopodiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Pemphigus (Pemphigus) immunis Buckton, 1896

Distribution in Uzbekistan. Tien Shan. In the Tashkent region Bostanlik district, Gazalkent (Kadyrbekov, 2013), Namangan region, Yangi Namangan, To'raqo'rg'on, Uchqo'rg'on districts (Khusanov, 2017).

Host plants. *Euphorbia lamprocampa* (Euphorbiaceae), *Populus laurifolia*, *P. nigra*, *P. pyramidalis*, *P. simoni*, *P. talassica* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Pemphigus (Pemphigus) napaeus Buckton, 1896

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Namangan, Norin, Pop, Chortoq, Chust districts (Khusanov, 2017).

Host plants. *Populus* sp. (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Pemphigus (Pemphigus) populinigrae (Schränk, 1801)

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Asaka, Andijan districts (Khusanov, 2017).

Host plants. *Filago* sp., *Gnaphalium* sp. (Asteraceae), *Populus laurifolia*, *P. nigra*, *P. talassica* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Pemphigus (Pemphigus) protospirae Lichtenstein, 1885

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Kosonsoy, Uychi, Yangiqo'rg'on, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Daucus carota* (Apiaceae), *Populus laurifolia*, *P. nigra*, *P. talassica* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Pemphigus (Pemphigus) vesicarius Passerini, 1861

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Jalaquduq, Xo'jaobod, Qo'rg'ontepa, Oltinko'l, Paxtaobod districts (Khusanov, 2017).

Host plants. *Populus laurifolia*, *P. nigra* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Pemphigus (Pemphiginus) populi Courchet, 1881

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Asaka, Andijan districts (Khusanov, 2017).

Host plants. *Lathyrus pratensis*, *Medicago falcata*, *Melilotus dentatus* (Fabaceae), *Populus laurifolia*, *P. nigra*, *P. pilosa*, *P. pyramidalis*, *P. talassica* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Prociphilus* Koch, 1857**Subgenus *Prociphilus* Koch, 1857*****Prociphilus* (*Prociphilus*) *umarovi* Narzikulov, 1964**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangi Namangan, To‘raqo‘rg‘on, Uchqo‘rg‘on districts (Khusanov, 2017).

Host plants. *Lonicera altmanni*, *L. caprifolium*, *L. karelinii*, *L. korolkovii*, *L. microphylla*, *L. tatarica* (Caprifoliaceae), *Abies sibirica*, *Picea schrenkiana* (Pinaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Stagona* Koch, 1857***Prociphilus* (*Stagona*) *xylostei* (De Geer, 1773)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Furqat, Qo‘sh-tepa, Quva, Rishton districts (Khusanov, 2017).

Host plants. *Lonicera chrysantha*, *L. involucrata*, *L. karelinii*, *L. korolkowii*, *L. morrowii*, *L. tatarica*, *L. xylosteum* (Caprifoliaceae), *Picea obovata* (Pinaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Thecabius* Koch, 1857**Subgenus *Thecabius* Koch, 1857*****Thecabius* (*Thecabius*) *affinis* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Namangan, Norin, Pop, Chortoq, Chust, Kosonsoy districts (Khusanov, 2017).

Host plants. *Ranunculus* sp. (Ranunculaceae), *Populus laurifolia*, *P. nigra*, *P. talassica* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subfamily Lachninae Herrich-Schaeffer, 1854**Tribe: Eulachnini Baker, 1920****Genus *Cinara* Curtis, 1835****Subgenus *Cinara* Curtis, 1835*****Cinara* (*Cinara*) *piceae* (Panzer, 1801)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, To‘raqo‘rg‘on, Yangiqo‘rg‘on, Chust districts (Khusanov, 2017).

Host plants. *Abies sibirica*, *Picea obovata*, *P. schrenkiana* (Pinaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Cinara* (*Cinara*) *pilicornis* (Hartig, 1841)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chust, Kosonsoy, Mingbuloq, Namangan districts (Khusanov, 2017).

Host plants. *Picea engelmannii*, *P. obovata*, *P. schrenkiana* (Pinaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Cupressobium* Börner, 1940***Cinara* (*Cupressobium*) *pseudosabinae* (Nevsky, 1929)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Uychi, Norin, Pop, Chortoq, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Juniperus semiglobosa*, *J. seravshanica*, *J. turkestanica* (Cupressaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Cinara* (*Cupressobium*) *tujafilina* (del. Guercio, 1909)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Mingbuloq, Namangan, Uchqo'rg'on districts (Khusanov, 2017).

Host plants. *Thuja occidentalis*, *Platycladus orientalis* (Cupressaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Eulachnus* Del Guersio, 1909***Eulachnus alticolus* Börner, 1940**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Pop, Chortoq, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Pinus* spp. (Pinaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Eulachnus rileyi* (Williams, 1911)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chust, Kosonsoy, Mingbuloq, Namangan districts (Khusanov, 2017).

Host plants. *Pinus* sp. (Pinaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Maculolachnus* Gaumont, 1920***Maculolachnus submacula* (Walker, 1848)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangiqo'rg'on, Chust, Kosonsoy, Mingbuloq districts (Khusanov, 2017).

Host plants. *Geranium collinum* (Geraniaceae), *Rosa alberti*, *R. canina*, *R. laxa*, *R. spinosissima*, *Potentilla recta* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tribe: Lachnini Herrich-Schaeffer, 1854**Genus *Pterochloroides* Mordvilko, 1914*****Pterochloroides persicae* (Cholodkovsky, 1898)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Namangan, Uchqo'rg'on, Uychi districts (Khusanov, 2017).

Host plants. *Armeniaca vulgaris*, *Persica vulgaris*, *Prunus domestica*, *P. sogdiana* (Rosaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tribe: Tramini Herrich-Schaeffer, 1854**Genus *Protrama* Baker, 1920*****Protrama radialis* (Kaltenbach, 1843)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent, Fergana and Andijan regions (Kan, 1986).

Host plants. *Arctium*, *Carduus*, *Centaurea*, *Cirsium*, *Cynara* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Protrama ranunculi* Del Guercio, 1909**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Chust, Kosonsoy, Mingbuloq, Namangan districts (Khusanov, 2017).

Host plants. *Ranunculus* spp. (Ranunculaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Protrama taraxaci* Kan, 1962**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Paxtaobod, Jalaquduq, Xo'jaobod districts (Khusanov, 2017).

Host plants. *Taraxacum officinale* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Trama* von Heyden, 1837**Subgenus *Trama* von Heyden, 1837*****Trama (Trama) bazarovi* Narzikulov, 1966**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Mingbuloq, Chust, Kosonsoy, Uychi, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Myricaria alopecuroides* (Tamaricaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Trama (Trama) troglodytes* von Heyden, 1837**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Bostanlik district, Gazalkent (Kadyrbekov, 2017).

Host plants. *Artemisia absinthium*, *A. dracunculus*, *A. sieversiana*, *A. vulgaris*, *Inula helenium*, *Leontodon autumnalis* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subgenus *Neotrama* Baker, 1920***Trama (Neotrama) afghanica* Narzikulov, 1973**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Paxtaobod, Jalaquduq, Xo‘jaobod districts (Khusanov, 2017).

Host plants. *Euphorbia* sp. (Euphorbiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Trama (Neotrama) antennata* Mordvilko, 1935**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Asaka, Buloqboshi, Bo‘ston, Izboskan districts (Khusanov, 2017).

Host plants. *Rumex* sp. (Polygonaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Trama (Neotrama) caudata* Del Guercio, 1909**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Oltiariq, Quva, Rishton, So‘x, Uzbekistan districts (Khusanov, 2017).

Host plants. *Cichorium*, *Hypochaeris*, *Picris*, *Lactuca*, *Leontodon*, *Sonchus*, *Taraxacum* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Trama (Neotrama) euphorbia* Juchnevitch & Kan, 1971**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Kosonsoy, Namangan, Uchqo‘rg‘on districts (Khusanov, 2017).

Host plants. *Euphorbia lamprocarpa* (Euphorbiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Trama (Neotrama) kulnitschae* Narzikulov, 1969**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Qo‘rg‘ontepa, Marhamat, Oltinko‘l, Paxtaobod, Jalaquduq districts (Khusanov, 2017).

Host plants. *Ferula* sp. (Apiaceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Trama (Neotrama) narzykulovi* (Kan, 1962)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Yangiqo‘rg‘on, Uychi, Yangi Namangan districts (Khusanov, 2017).

Host plants. *Cichorium*, *Hypochaeris*, *Picris*, *Lactuca*, *Leontodon*, *Sonchus*, *Taraxacum* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Trama (Neotrampa) pamirica* (Narzikulov, 1963)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Bag‘dod, Beshariq, Buvayda, Uchko‘prik districts (Khusanov, 2017).

Host plants. *Stipa capillata*, *S. lessingiana*, *S. kirghisorum*, *S. pennata*, *S. sareptana*, *Stipa* spp. (Poaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Genus *Eotrampa* Hille Ris Lambers, 1969***Eotrampa luppovae* (Narzikulov, 1963)**

Distribution in Uzbekistan. Tien Shan. In the Fergana region, Dang‘ara, Fergana, Furqat, Qo‘shstepa, Bag‘dod districts (Khusanov, 2017).

Host plants. *Cichorium*, *Hypochaeris*, *Picris*, *Lactuca*, *Leontodon*, *Sonchus*, and *Taraxacum* (Asteraceae) (Kadyrbekov, 2017; Khusanov, 2017).

***Eotrampa tamaricis* (Nevsky, 1951)**

Distribution in Uzbekistan. Tien Shan. In the Namangan region, Norin, To‘raqo‘rg‘on, Pop, Chortoq districts (Khusanov, 2017).

Host plants. *Tamarix ramosissima* (Tamaricaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Tribe: *Tuberolachnini* Oestlund, 1942**Genus *Tuberolachmus* Mordvilko, 1909****Subgenus *Tuberolachmus* Mordvilko, 1909*****Tuberolachmus (Tuberolachmus) salignus* (Gmelin, 1790)**

Distribution in Uzbekistan. Tien Shan. In the Tashkent region, Chirchik district, (Kadyrbekov 2013), Andijan region, Marhamat, Oltinko‘l, Paxtaobod, Jalaquduq and Xo‘jaobod districts (Khusanov, 2017).

Host plants. *Salix alba*, *S. argyracea*, *S. caesia*, *S. kirilowiana*, *S. triandra*, *S. turanica*, *S. viminalis* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

Subfamily *Phloeomyzinae* Mordvilko, 1934**Genus *Phloeomyzus* de Horvath, 1896*****Phloeomyzus passerinii* (Signoret, 1875)**

Distribution in Uzbekistan. Tien Shan. In the Andijan region, Asaka, Andijan districts (Khusanov, 2017).

Host plants. *Populus laurifolia*, *P. nigra*, *P. talassica* (Salicaceae) (Kadyrbekov, 2017; Khusanov, 2017).

DISCUSSION

Uzbekistan positioned at the junction of several Central Asian bio-geographical regions predetermines a significant richness of its flora and fauna. At the same time, it is a reflection of the diversity of natural conditions in Uzbekistan, where vast plains occupied by different types of deserts, mountain steppes, forests and alpine meadows, tugai thickets, and waterbodies form characteristic ecosystems (Khamraev et al., 2008; Gandjaeva et al., 2022; Gandjaeva et al., 2023). Tugai and flood-plain ecosystems still exist as small areas along the rivers Amudarya, Syrdarya, Zarafshan, Chirchik, and Akhangaran. The areas are being reduced due to agricultural development and use by residents for domestic purposes. Foothill plains and adyrs are situated in the foothills of the western Tien Shan and Pamir-Alai. These areas are subject to the most impact due to the agricultural development. Degraded low mountains and escarpments of Plateau Ustyurt are located amidst the desert and shelter many rare species. But, at the

same time, they are subject to pressure from animal husbandry as well as from the mining industry (building stone, gypsum raw material, etc.). Alpine meadows are located higher than 2700 m above sea level. They are subject to significant pressure from animal husbandry. From the Forest Ecosystems point of view, Uzbekistan is a country with a low forest cover (about 7% of the country's land is covered with forests). However, forests play a significant role in both the economy and environmental protection needs (Abdullaev et al., 2022; Ibragimova et al., 2023; Nurjanov et al., 2023).

Due to the reason that agriculture is one of the most important sectors in the economy of Uzbekistan, the well-being and sustainable development of Uzbekistan depend significantly on the state of its natural resources. More than 90% of crops are grown on the irrigated lands of Uzbekistan. A peculiarity of the most of natural ecosystems of Uzbekistan is their heightened vulnerability, associated with climate aridity. Thereupon, the resistance of the ecosystems to external forces is rather low and any anthropogenic interference serves as an additional factor of degradation of natural systems. The known world aphid fauna (Aphidomorpha) comprises 5715 valid species, which are placed into 737 genera (Favret, 2023). Considering the number of species in the current checklist in Uzbekistan, which is approximately 5.3 percent of the world's total known aphid species. Further work of scientists is important in increasing the diversity of aphid fauna in Uzbekistan (Akhmedov & Zakirov, 2004; Akhmedov et al., 2016; Khusanov, 2020; Abdullayeva et al., 2023; Abdullaev et al., 2023a). However, there was no comprehensive checklist of aphids in Uzbekistan before this study. In contrast, there are several checklists for other insect groups in this country particularly in recent years (Khamraev, 2003; Khusanov, 2012; Iskandarov et al., 2022; Abdullaev et al., 2023b). Due to the unique ecosystem, biodiversity and high level of endemism of vascular plants in Uzbekistan there is a high probability of finding additional new record species and even new species to science. Despite this, the aphid fauna of Uzbekistan has not been well investigated yet, considering the high floral and landscape diversity of this country. About 50% of the aphid species spend all or part of their life feeding on trees.

Based on the analysis of literature data, according to the relationship of identified aphids with host plants, it was noted that 301 species of aphids live and feed on plants belonging to 64 families of plants. Of these, the largest number of aphid species was found in plants belonging to the Asteraceae (71), Rosaceae (58) and Salicaceae (33) families. Aphids were mainly recorded on herbaceous plants, which is associated with the predominance of holocyclic species. A quarter were collected from tree species, with the vast majority being heterocyclic. 287 species of aphids were collected from grass plants belonging to 47 families, and 99 species of aphids were collected from trees belonging to 12 families. A similar trend was observed in the distribution of 68 aphid species across 5 various families of shrubs. Aphids feed most actively on Dicotyledonous plants. 71 species of aphids, both heterocyclic and holocyclic, feed on Asteraceae. Among trees and shrubs, the largest number of aphids was found on Rosaceae. 58 species of aphids develop on Rosaceae, with the share of tree and shrub forms prevailing in the food supply. The relationship of aphids to plant life forms. Among Monocotyledonous plants, aphids prefer Poaceae, Cyperaceae, Cuscutaceae, Asphodelaceae and Typhaceae. Representatives of the Pinaceae, Cupressaceae, and Ephedraceae mainly fed on Coniferous plants. According to the Aphid Species Global Biodiversity Information Facility (GBIF), and according to other data analysis, the aphid species recorded from Uzbekistan are divided into four large groups: Wide Areas (Cosmopolitan), Holarctic Areas, Palaearctic Areas, and Endemic Areas (Given in Appendix 1).

In Uzbekistan, thirty species (9.0%) are Holarctic. The group of the Cosmopolitan range is characterized by forty-six species, which constitutes 14.0% of the total, and most species belong to the Palaearctic group, which is the most diverse. The group contains 215 species (64.7%), with 47 from the Transpalearctic type constituting 14.2%. The endemics are divided into Turkestan-Alatava-Altai montane, Hyrcan-Turkestan montane, Euxinian-Hyrkano-Turkestan-Balkhash arid-montane, Near Asian-Girkin-Turkestan-Alatavian montane, Afghan-Turkestan-Alatav-Tarbagatai montane, Black Sea-Kazakhstan-Alatava-Turkestan mountain-steppe. For the assessment of any territory, endemics have a high conservation value since they indicate the distinctive nature of the fauna.

AUTHOR'S CONTRIBUTION

The authors confirm their contribution to the paper as follows: I. Abdullaev: Preparing the article, gathering information, entering the article into the platform, and responding to reviewers' comments; A. Khusanov: Entering data on the aphid species in the Fergana Valley; N. Voronova-Bartet: Finding and identifying host plants of the species; M. Abdullayeva: Entering data on aphid species and checking host plants via the websites; L. Gandjaeva: Translating the article into English, reviewing, and responding to the reviewers; X. Jumanazarov: Checking the species names via the databases; B. Kholmatov: Comparing and verifying the identified species with the collections at the Zoological Institute; M. Rahimov: Entering data on the aphid species in the Tashkent region; Z. Matyakubov: Preparing the distribution maps and verifying the distribution of the aphid species; A. Iskandarov: Systematic analyzing and organizing the species in the article and verifying the arrangement of host plants; R. Ruzmetov: Providing information about research locations; M. Ollaberganova: Checking the species and host plants via the Global Biodiversity Information Facility (GBIF); M. Joraev: Collecting and entering data on aphid species in the Fergana Valley; M. Doschanova: Arranging the species names in the alphabetical order and rechecking the distribution areas. All authors read and approved the final version of the manuscript.

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AVAILABILITY OF DATA AND MATERIAL

The specimens listed in this study are deposited in Laboratory of Khorezm Ma'mun Academy, Department of Biology of Andijan State University and Collection of Zoological Institute of Academy of Sciences of the Republic of Uzbekistan and are available from the curator, upon request.

ETHICS APPROVAL AND CONSENT TO PARTICIPATE

This study only included plants and arthropod material, and all required ethical guidelines for the treatment and use of animals were strictly adhered to in accordance with international, national, and institutional regulations. No human participants were involved in any studies conducted by the authors for this article.

CONSENT FOR PUBLICATION

Not applicable.

CONFLICT OF INTERESTS

The authors declare that there is no conflict of interest regarding the publication of this paper.

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Appendix 1. The biogeographic distribution of the known aphids of Uzbekistan.

Type area	The sector and belt range	No. of species	List of species	Percentage
I. Cosmopolitans				
1. Cosmopolitan		46	<i>Aphis craccivora</i> , <i>Aphis cytisorum</i> , <i>Aphis fabae</i> , <i>Aphis fabae ecornymii</i> , <i>Aphis gossypii</i> , <i>Aphis nerii</i> , <i>Aphis spiraeicola</i> , <i>Hyalopterus pruni</i> , <i>Rhopalosiphum maidis</i> , <i>Rhopalosiphum nymphaeae</i> , <i>Rhopalosiphum oxycanthiae</i> , <i>Rhopalosiphum padi</i> , <i>Rhopalosiphum rufiabdominale</i> , <i>Schizaphis pyri</i> , <i>Acyrthosiphon pisum</i> , <i>Acyrthosiphon rubi</i> , <i>Aulacorthum solani</i> , <i>Brachycaudus helichrysi</i> , <i>Brachycaudus persicae</i> , <i>Brevicoryne brassicae</i> , <i>Brevicoryne shaposhnikovi</i> , <i>Capitophorus elaeagni</i> , <i>Catantidia aegopodii</i> , <i>Catantidia archangelicae</i> , <i>Hyadaphis foeniculi</i> , <i>Hyadaphis passerinii</i> , <i>Hyalopterus amygdali</i> , <i>Hyperomyzus lactucae</i> , <i>Macrosiphum euphorbiae</i> , <i>Macrosiphum pulcherrimum</i> , <i>Macrosiphum rosae</i> , <i>Metopolophium dirhodum</i> , <i>Myzus amygdalinus</i> , <i>Myzus cerasi</i> , <i>Myzus persicae</i> , <i>Neomyzus circumflexus</i> , <i>Ovatus crataegarius</i> , <i>Sitobion acetuae</i> , <i>Sitobion fragariae</i> , <i>Eriosoma lanigerum</i> , <i>Eriosoma lanuginosum</i> , <i>Aploneura lentisci</i> , <i>Smynthurodes betae</i> , <i>Chnara tujaeflora</i> , <i>Eulachnus alticolus</i> , <i>Eulachnus rileyi</i>	14.0
II. Holarctics		30		9.0
1. Holarctic		30	<i>Anoecia corni</i> , <i>Anoecia mirae</i> , <i>Aphis acetosae</i> , <i>Aphis elatinoidei</i> , <i>Aphis farrinosa</i> , <i>Aphis farinosa furinosa</i> , <i>Aphis frangulae</i> , <i>Aphis nasturtii</i> , <i>Aphis pomi</i> , <i>Aphis sambuci</i> , <i>Capitophorus hippophaes</i> , <i>Catantidia theobaldi</i> , <i>Catantidia aquatica</i> , <i>Dysaphis foeniculus</i> , <i>Dysaphis handelyiae</i> , <i>Haghlurstia atriplicis</i> , <i>Myzaphis rosarum</i> , <i>Nearctaphis bakeri</i> , <i>Siphia elegans</i> , <i>Forda formicaria</i> , <i>Forda marginata</i> , <i>Gaeica lucifuga</i> , <i>Gaeica setulosa</i> , <i>Gaeica utricularia</i> , <i>Paracletus bykovi</i> , <i>Pemphigus borealis</i> , <i>Pemphigus bursarius</i> , <i>Maculolachnus subnucula</i> , <i>Tuberculachnus salignus</i> , <i>Phloeomyzus passerinii</i>	9.0
III. Palearctics		215		64.7
1. West Tethyan temporal-montane		1	<i>Aphis affinis</i>	0.3
2. West Tethyan arid-montane		11	<i>Aphis althaeae althaeae</i> , <i>Aphis althaeae afghanica</i> , <i>Aphis sativae</i> , <i>Aphis verbasci</i> , <i>Brachyunguis tamaricis</i> , <i>Ephedrapis ephedrae ephedrae</i> , <i>Xerobion eriosomatinum</i> , <i>Hyadaphis coriandri</i> , <i>Hyadaphis ferganica</i> , <i>Uroleucon chondrillae</i> , <i>Uroleucon acroptilidis</i>	3.3
3. Western Eurasian boreal		2	<i>Aphis apocynicola</i> , <i>Aphis brachysiphon</i>	0.6
4. East Palearctic		5	<i>Aphis catalpae</i> , <i>Aphis chiliopsidi</i> , <i>Titansiphon dracunculi</i> , <i>Tricaudatus polygoni</i> , <i>Tinocallis salicis</i>	1.5
5. Western Palearctic		43	<i>Aphis confusa</i> , <i>Aphis euphorbiae</i> , <i>Aphis intybi</i> , <i>Aphis polygonula</i> , <i>Aphis ruborum</i> , <i>Aphis serpylli</i> , <i>Aphis spiraeophila</i> , <i>Aphis spiraeophila</i> , <i>Aphis theconae</i> , <i>Amphorophora rubi</i> , <i>Anuraphis subterranea</i> , <i>Capitophorus pakensis</i> , <i>Catantidia pastinacae</i> , <i>Chaetosiphon tetraodonum</i> , <i>Dysaphis crataegi</i> , <i>Dysaphis eremuri baissunensis</i> , <i>Dysaphis lappae lappae</i> , <i>Dysaphis radicola</i> , <i>Dysaphis plantaginea</i> , <i>Dysaphis pyri</i> , <i>Dysaphis reumuri</i> , <i>Aphis origani</i> , <i>Loeosiphis berberidis</i> , <i>Macrosiphoniella pulcra</i> , <i>Macrosiphoniella (Macrosiphoniella) aktashtica</i> , <i>Metopolophium festucae festucae</i> , <i>Metopolophium mukhammadievi</i> , <i>Microlophium carnosum</i> , <i>Myzus lythri</i> , <i>Pterocomma pilosum</i> , <i>Semiaphis dauci dauci</i> , <i>Semiaphis longissima</i> , <i>Chaetophorus salicis</i> , <i>Siphia mygdalis</i> , <i>Eriosoma patchiae</i> , <i>Eriosoma phaenax</i> , <i>Megoura viciae</i> , <i>Pemphigus fuscicornis</i> , <i>Pemphigus populi</i> , <i>Protrama ranunculii</i> , <i>Protrama taraxaci</i> , <i>Trama bazarevi</i> , <i>Trama caudate</i>	13.0

Appendix 1. Continue.

Type area	The sector and belt range	No. of species	List of species	Percentage
6. Transpalearctic		47	<i>Aphis frangulae frangulae</i> , <i>Aphis idaei</i> , <i>Aphis incerta</i> , <i>Aphis plantaginis</i> , <i>Aphis praeterita</i> , <i>Aphis punicae</i> , <i>Aphis umbrella</i> , <i>Aphis urticae</i> , <i>Aphis grossulariae</i> , <i>Acyrthosiphon caraganae</i> , <i>Acyrthosiphon ignotum</i> , <i>Brachycaudus spinatae</i> , <i>Brachycaudus viridanus</i> , <i>Brachycaudus eurobiae</i> , <i>Cryptomyzus ribis</i> , <i>Cryptosiphum artemisiae</i> , <i>Dysaphis rumeicola emicis</i> , <i>Dysaphis sorbierum</i> , <i>Dysaphis unicali</i> , <i>Longicaudus trirhodus</i> , <i>Ovatus insitus</i> , <i>Phorodon humuli</i> , <i>Plectrothophorus glandulosus</i> , <i>Pterocomma populaeum</i> , <i>Urolecon aeneum</i> , <i>Tuberculatus annulatus</i> , <i>Iziphyga bufo</i> , <i>Therioaphis trifolii</i> , <i>Chaitophorus capreae</i> , <i>Chaitophorus leucomelas</i> , <i>Chaitophorus populabae</i> , <i>Chaitophorus populabae populabae</i> , <i>Chaitophorus populeti</i> , <i>Chaitophorus populeti populeti</i> , <i>Chaitophorus pruinosa</i> , <i>Chaitophorus salijaponicus niger</i> , <i>Eriosoma ulmi</i> , <i>Eriosoma ulmipumilae</i> , <i>Tetraneura ulmi</i> , <i>Paracletus cinctiformis</i> , <i>Paracletus cinctiformis cinctiformis</i> , <i>Rectinusus buxtoni</i> , <i>Prociphilus xylostei</i> , <i>Protrama radices</i> , <i>Trama troglodytes</i> , <i>Trama afglanica</i> , <i>Trama antennata</i>	14.2
		4	<i>Aphis frangulae beccabungae</i> , <i>Pterocomma rufipes</i> , <i>Clethrionus comes</i> , <i>Goothella tremulae</i>	1.2
		8	<i>Aphis galitsaburi</i> , <i>Cryptomyzus korschelti</i> , <i>Myzus langei</i> , <i>Semiaphis anthrisci</i> , <i>Uroleucon jaceae jaceae</i> , <i>Therioaphis ononidis</i> , <i>Chinara pilicornis</i> , <i>Chinara pseudosabinae</i>	2.4
		1	<i>Thecabius affinis</i>	0.3
		1	<i>Aphis potentillae</i>	0.3
		1	<i>Hyadaphis tataricae</i>	0.3
		1	<i>Paczoskia paczoskii</i>	0.3
		5	<i>Trama euphorbia</i> , <i>Trama kulinitshae</i> , <i>Trama narzykulovi</i> , <i>Trama panirica</i> , <i>Eotrana luppovae</i>	1.5
		6	<i>Aphis salicariae</i> , <i>Pterocomma salicis</i> , <i>Rhopalomyzus alatica</i> , <i>Rhopalomyzus hissarica</i> , <i>Rhopalomyzus loniternae</i> , <i>Chinara piceae</i>	1.8
		8	<i>Aphis sogdiana</i> , <i>Acadella puchovi</i> , <i>Acyrthosiphon ilka</i> , <i>Dysaphis cousiniiae cousiniiae</i> , <i>Eotrana tamaricis</i> , <i>Brachyunguis calligoni</i> , <i>Brachyunguis cuscatae</i> , <i>Brachyunguis cynanchi</i>	2.4
		6	<i>Brachyunguis brevisipion</i> , <i>Protophis elongate</i> , <i>Protophis hirsuta</i> , <i>Brevicorynella quadrimaculata</i> , <i>Capitophorus archangelskii</i> , <i>Dysaphis pulverina pulverina</i>	1.8
		1	<i>Brachyunguis salsolacearum</i>	0.3
		1	<i>Acyrthosiphon sophorae</i>	0.3
		1	<i>Macrosiphoniella tuberculata</i>	0.3
		1	<i>Brachyunguis atraphaxidis</i>	0.3
		3	<i>Brachyunguis humulatae</i> , <i>Brachyunguis lycii</i> , <i>Acyrthosiphon gossypii</i>	0.9
		1	<i>Tetraneura africana</i>	0.3
		2	<i>Brachyunguis puccidani</i> , <i>Brachyunguis plotnikovi</i>	0.6
		3	<i>Brachyunguis zygothylli</i> , <i>Brachyunguis saxatilia</i> , <i>Ephedraphis ephedrae</i>	0.9

Appendix 1. Continue.

Type area	The sector and belt range	No. of species	List of species	Percentage
	24. Turano-Dzungarian desert	2	<i>Lepidaphis deformans</i> , <i>Staticobium otolopidis</i>	0.6
	25. Kuro-Araks-Turano-Dzungarian desert	3	<i>Lambersaphis pruinosa</i> , <i>Periphyllus mammoniae</i> , <i>Periphyllus neoskyi</i>	0.9
	26. Tethyan arid-montane	1	<i>Acyrtosiphon cyprissiae turkestanicum</i>	0.3
	27. East Tethyan arid	5	<i>Brachyunguis timariocophilus</i> , <i>Chaitaphis tenuicauda</i> , <i>Coloradus paradoxa</i> , <i>Titanosiphon neortensisiae</i> , <i>Uroleucon mulgedii mulgedii</i>	1.5
	28. West Tethyan arid	1	<i>Acyrtosiphon scuriolae</i>	0.3
	29. East Tethyan arid-montane	5	<i>Protaphis anuraphioides</i> , <i>Protaphis elatior</i> , <i>Lipaphis lepidii</i> , <i>Myzaphis turanica</i> , <i>Paracletus bykovi bykovi</i>	1.5
	30. Panno-Turanian arid	1	<i>Protaphis alexandriae</i>	0.3
	31. Marco-Turano-Djungarian arid-montane	1	<i>Xerobion chinae</i>	0.3
	32. Black Sea-Altai-Himalayan montane-steppe	1	<i>Brevicoryne barbareae</i>	0.3
	33. Western Tethyan temporal-montane.	11	<i>Brachycaudus amygdalinus</i> , <i>Brachycorynella lonicerina</i> , <i>Chromaphis juglandicola</i> , <i>Panaphis juglandis</i> , <i>Tinocallis neoskyi</i> , <i>Pemphigus immunitis</i> , <i>Pemphigus napaeus</i> , <i>Pemphigus populinigrae</i> , <i>Pemphigus protospirae</i> , <i>Pemphigus resicarius</i> , <i>Pterochloroides persicae</i>	3.3
	34. East Tethyan nemoral-montane	1	<i>Claetosiphon chaetosiphon</i>	0.3
	35. East Tethyan temporal-montane	2	<i>Coloradus viridis</i> , <i>Dysaphis affinis</i>	0.6
	36. Broad-Tethian arid-montane	6	<i>Diuraphis noxia</i> , <i>Dysaphis microsiphon</i> , <i>Dysaphis acroptitidis</i> , <i>Tetraneura caeruleaescens</i> , <i>Forida paucilocae</i> , <i>Forida hirsutula</i>	2.1
	37. Eastern Palaearctic temporal-montane	1	<i>Tetraneura nigribdominalis</i>	0.3
	38. Hyrcanian-Khorasanian-Alatavian-Tarbagatai arid-montane	2	<i>Slavum lentiscoides</i> , <i>Slavum mordvilkoii</i>	0.6
	39. Kuro-Araks-Turkestan-Tarbagatai-internal Shan mountain.	1	<i>Amphorophora catharinae</i>	0.3
	40. North Turkestan-Alatava-Altai montane	2	<i>Aphis magnipilosa</i> , <i>Uroleucon bicolor</i>	0.6
	41. Afghan-Turkestan-Alatava-Altai montane	1	<i>Dysaphis paucoskyana</i>	0.3
	42. Near Asian-Turkestan montane	1	<i>Aphis mammothovae</i>	0.3
	43. North Turkestan Montano-steppe.	2	<i>Aphis molhehensis</i> , <i>Aphis rheicola</i>	0.6
	44. North Turkestan-Alatava montane	1	<i>Aphis citrina</i>	0.3
	45. Turkestan-Altai-inner Tien Shan montane	1	<i>Pleotrichophorus glandulosus ispharinus</i>	0.3
	Endemics	41		12.3
	1. Turkestan-Alatava-Altai montane	5	<i>Macrosiphoniella (Asterobium) aktuschica</i> , <i>Macrosiphoniella erigeronis</i> , <i>Macrosiphoniella abrotani abrotani</i> , <i>Macrosiphoniella nigropilosa</i> , <i>Semaphis aizenbergi</i>	1.5
	2. North Turkestan Montan	2	<i>Aphis albella</i> , <i>Macrosiphoniella olgae</i>	0.6
	3. Turkestan Montan	2	<i>Hyadaphis coerulescens</i> , <i>Rhopalomyzus narzikulovi</i>	0.6
	4. Hyrcan-Turkestan montane	1	<i>Klimaszewska salviae</i>	0.3
	5. Near Asian-Hyrcanian-Turkestan montane	1	<i>Myzus beybienkoi</i>	0.3

IV. Endemics

Appendix 1. Continue.

Type area	The sector and belt range	No. of species	List of species	Percentage
	6. Euxinian-Hyrkano-Turkestan-Balkhash arid-montane.	4	<i>Amugosiphon platicaudum</i> , <i>Amphicercidus alticola</i> , <i>Amphicercidus alticola tschaltatica</i> , <i>Amphicercidus lonicericola</i>	1.2
	7. Turkestan-Alatava montane	4	<i>Avicennina turkestanica</i> , <i>Dysaphis cephalariae</i> , <i>Rhopadomyzus tianshanica</i> , <i>Prociphilus umurovi</i>	1.2
	8. Near Asian-Girkin-Turkestan-Alatavian montane.	3	<i>Aphidura bozhscae</i> , <i>Aspidihs adjuvans</i> , <i>Avicennina sogdiana</i>	0.9
	9. Afghan-Turkestan-Alatav-Tarbagatai montane	5	<i>Berberiaphis lydiae</i> , <i>Brachycaudus cernicola</i> , <i>Brachycaudus prunicola</i> , <i>Brachycaudus tragopogonis tragopogonis</i> , <i>Dysaphis eremuri eremuri</i>	1.5
	10. Himalayan-Khorasan-Turkestan-Alatavi mountain	1	<i>Brachycaudus pilosus</i>	0.3
	11. Black Sea-Turanian arid.	3	<i>Brachycaudus bicolor</i> , <i>Brachycaudus curdii</i> , <i>Dysaphis radictiorans</i>	0.9
	12. North Turano-Altai-Alatava-north Turkestan arid-montane	1	<i>Dysaphis ferniae</i>	0.3
	13. Himalayan-Turkestan-Alatava mountain	2	<i>Impatiertitum asiaticum asiaticum</i> , <i>Shicaphis celticola</i>	0.6
	14. Turkestan-Alatava-Altai-Kazakhstan montan-steppe	1	<i>Loniceraphis paradoxa</i>	0.3
	15. Turkestan-Altai montane	1	<i>Macchiutiella rhamni turani</i>	0.3
	16. North Turkestan-Altai montane	1	<i>Kaltenbachella pallida</i>	0.3
	17. Himalayan-Turkestan-Northern Turanian arid-montane.	1	<i>Macrosiphoniella alataovica</i>	0.3
	18. Hyrcan-Turkestan-Tarbagatai arid-montane.	1	<i>Obtusicauda dolychosiphon</i>	0.3
	19. North Turkestan-Alatava arid-montane	1	<i>Paczoskia paczoskii turanica</i>	0.3
	20. Black Sea-Kazakhstan-Alatava-Turkestan mountain-steppe.	1	<i>Microsiphium jazzkovi</i>	0.3
Total:			301 species and 31 subspecies	100

فهرست مشروح شته‌ها (Hemiptera: Aphididae) در ازبکستان

ایکرام عبدالایف^{۱*}، علیجان خوسانوف^۲، نینا ورونوا-بارت^۴، مکسبوبا عبدالایوا^۵، لولا گانجایوا^{۱۶}، خسنبای جومانازاروف^{۱۲}، بختیار خلماطوف^۷، متنظر رحیموف^۵، زفار متیاکوبوف^{۱۲}، عبدالله اسکنداروف^۲، رسول روزمتوف^{۱۶}، مولودا الابرگانوا^۲، محمدیوسف جورایف^۳، منظوره دوسچانوا^{۱۲}

- ۱ آکادمی خورزم مامون، خیابان مارکاز، خیوه، ازبکستان.
- ۲ دپارتمان زیست‌شناسی، دانشگاه اورگنچ، اورگنچ، ازبکستان.
- ۳ دپارتمان زیست‌شناسی، دانشگاه اندیجان، اندیجان، ازبکستان.
- ۴ دپارتمان جانورشناسی، دانشگاه ایالتی بلاروس، مینسک، بلاروس.
- ۵ دپارتمان جانورشناسی، دانشگاه ملی ازبکستان به نام میرزا الاغیک، تاشکند، ازبکستان.
- ۶ دپارتمان بیوتکنولوژی، دانشگاه اورگنچ، اورگنچ، ازبکستان.
- ۷ مؤسسه مطالعات جانورشناسی، بوگیشامول، تاشکند، ازبکستان.

* پست الکترونیک نویسنده مسئول مکاتبه: ikram.abdullaev1966@gmail.com

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چکیده: فهرست به‌روز شده شته‌های ازبکستان (Hemiptera: Sternorrhyncha: Aphidomorpha) بر اساس مرور منابع و مبتنی بر آخرین تغییرات تاکسونومیک و نام‌گذاری‌های جدید ارائه شد. این فهرست، اولین چک‌لیست جامع برای ازبکستان و شامل مجموعاً ۳۰۱ گونه و ۳۱ زیرگونه متعلق به ۱۰۳ جنس و ۶۳ زیرجنس و هفت زیرخانواده از خانواده Aphididae است که در بازه زمانی ۱۹۱۰ تا ۲۰۲۳ در ازبکستان ثبت شده‌اند. براساس ارتباط شته‌های شناسایی شده با گیاهان میزبان خود مشخص شد که ۳۰۱ گونه شته روی ۶۴ تیره گیاهی گزارش شده‌اند. از بین آن‌ها بیشترین تعداد گونه شته، روی گیاهان تیره‌های Asteraceae (۷۱)، Rosaceae (۵۸) و Salicaceae (۳۳) یافت شده است.

واژگان کلیدی: شته‌سانان، آسیای مرکزی، پایگاه داده، تحلیل فونستیک، سینه‌بینیان