

Review (Derleme)

Checklist of Turkish Coccoidea (Hemiptera: Sternorrhyncha) species

Türkiye'nin Coccoidea (Hemiptera: Sternorrhyncha) kontrol listesi

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Summary

The Superfamily Coccoidea (Hemiptera: Sternorrhyncha) or scale insects, contains many agricultural pests throughout the world. The last checklist for Turkey was published in 2007, and included 267 species in 12 families. Here we update the list which now has 359 species belonging to 134 genera in 18 families. These species mainly show a Palaearctic distribution. The family Diaspididae is the most abundant with 134 species in 42 genera, followed by Pseudococcidae with 101 species in 32 genera, and Coccidae with 67 species in 28 genera. The other families have: Eriococcidae (12 genera, 29 species), Asterolecaniidae (3 genera, 11 species), Kermesidae (2 genera, 11 species), Margarodidae (2 genera, 5 species), Monophlebidae (3 genera, 3 species), Matsucoccidae (1 genus, 2 species), Putoidae (1 genus, 4 species), Rhizoecidae (1 genus, 4 species), Cerococcidae (1 genus, 1 species), Leconodiaspididae (1 genus, 1 species), Dactylopiidae (1 genus, 1 species), Marchalinidae (1 genus, 1 species), Micrococcidae (1 genus, 1 species) Ortheziidae and (1 genus, 1 species) Phoenicococcidae (1 genus, 1 species).

Key words: Coccoidea, scale insect, checklist, Turkey.

Özet

Coccoidea üstfamilyası (Hemiptera: Sternorrhyncha) tüm dünyada birçok zararlı türe sahiptir. Türkiye'de bulunan coccoid'lerin kontrol listesi en son 2007 tarihinde yayınlanmış olup liste 12 familyaya bağlı 267 tür içermektedir. Bu çalışmada kontrol listesi 18 farklı familyaya bağlı 134 cins içerisinde bulunan 359 tür olacak şekilde güncellenmiştir. Türkiye'de bulunan coccoid'lerin çoğunluğu Palaearktik Bölge'de dağılım göstermektedir. Tür sayısı bakımından Diaspididae familyası 42 cinse bağlı 134 tür ile en çok türü barındıran familya iken bunu 32 cinse bağlı 101 tür ile Pseudococcidae familyası ve 28 cinse bağlı 67 tür ile Coccidae familyası takip etmektedir. Diğer familyalar Eriococcidae (12 cins, 29 tür), Asterolecaniidae (3 cins, 11 tür), Kermesidae (2 cins, 11 tür), Margarodidae (2 cins, 5 tür), Monophlebidae (3 cins, 3 tür), Matsucoccidae (1 cins, 2 tür), Putoidae (1 cins, 4 tür), Rhizoecidae (1 cins, 4 tür), Cerococcidae (1 cins, 1 tür), Leconodiaspididae (1 cins, 1 tür), Dactylopiidae (1 cins, 1 tür), Marchalinidae (1 cins, 1 tür), Micrococcidae (1 cins, 1 tür) Ortheziidae and (1 cins, 1 tür) Phoenicococcidae (1 cins, 1 tür) olarak listelenmiştir.

Anahtar sözcükler: Coccoidea, kabuklubit ve koşniller, kontrol listesi, Türkiye

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Introduction

Turkey with 779.000 km² plain, lies among Asia, Africa and Europe, surrounded by sea at its three sides (Black Sea, Mediterranean Sea and Aegean Sea) with different ecological characteristics, with very different altitudes from sea level to above 5000 meters. These conditions results in a very big variety of climatic conditions in all over the country. Three different biogeography regions namely Europe-Siberia (Kars-Erzurum plate), Iranian-Turan (from eastern part of Turkey till Middle Anatolia), and Mediterranean are found in Turkey. Furthermore, these regions shows different types of ecosystems including transition between zones. Although the most important ecosystems are steps in the country, territory consist forests, mountains, wetlands, coastal and marine ecosystems and different combinations of these systems. This diverse of several different ecological characteristics provides raising areas for thousands of fauna and flora species and their populations.

In last decades, there is increasing rates of phytophagous insect's invasions in different parts of the world due to climate change and increased trade and travel between and within continents. For instance Mattson et al. (2007) indicated that more than 40% of the major North American pest species are coming from exotic places and more than 2000 insect species are coming from Europe, the Middle East and North Africa. It is beleived that long-distance dispersal of alien species to new areas are caused by direct or indirect result of human activities such as agriculture, forest management, and distribution of ornamental plant and using exotic plants for gardening and urban landscape management, thus creating new sites for colonization of alien species. Although there are 109 exotic invasive species which successfully invaded and established woody plants in Europe (Mattson et al., 2007) there are several more important pest species that can be harmful for field crop and industrial plant species. Recently several species of economically important scale insect species (especially mealybugs such as *Pseudococcus comstocki* (Kuwana), *Phenacoccus madeirensis* Green, *Phenacoccus solani* Ferris, *Phenacoccus solenopsis* Tinsley *Phenacoccus peruvianus* Granara de Willink, and *Pseudococcus elisae* Borchsenius) have been introduced into different regions in the world (Pellizzari & Germain, 2010; Beltra et al., 2010).

The Superfamily Coccoidea contains many agricultural pests throughout the world. The first comprehensive detailed study on scale insect fauna of Turkey was made by Bodenheimer (1952, 1953). Çanakçioğlu (1977), Kozár et al. (1976), Uygun et al. (1998), Önder et al. (2000), Ülgentürk (2002), Ülgentürk & Çanakçioğlu (2004), Ülgentürk et al. (2003, 2004), Kaydan et al. (2001a, b, 2002, 2004, 2005 a, b) have made several additions records in the scale insect fauna. The last checklist which includes 267 species in 12 families for Turkish Scale Insect Fauna was published in (2007) by Kaydan et al. After that several new studies were conducted and published by several authors on scale insect fauna in Turkey, such as Danzig et al. (2012), Kaydan et al. (2008), Kaydan & Kozár (2010a, b; 2011a, b), Kaydan & Gavrilov (2010), Erkılıç et al, (2011), Kaydan (2011), Kaydan et al. (2013), Ülgentürk et al. (2012), Ülgentürk & Kozár (2011), Kaydan et al. (2013), Ülgentürk & Pellizzari (2013) and Yiğit & Telli (2013) recorded many new scale insect species for Turkish Scale Insect fauna. For this reason this paper deals with new scale insect records in Turkey, their hosts and geographical distribution in Turkey.

Result and Discussion

Because of the geographical position of Turkey, affects of different climate of different sub-geographical regions and effects of the different altitudes from sea level to 5000 meters the species richness for both plants and animals is very high in Turkey. For this reason the insect species richness of Turkey is always dynamic and it is thought that this increasing will be continuing in future.

Here we update the list which now has 359 species belonging to 134 genera in 18 families. The number of scale insect species in Turkey has increased by 90 (one third of previous list) in last seven years. Although these species mainly show a Palaearctic distribution, 65 of them are regarded as cosmopolitan species. These cosmopolitan species are occur either in the Mediterranean geographical zone such as Mediterranean, Aegean, Marmara and Black Sea regions in Turkey because of Subtropical climate aspects or in greenhouse or indoor (very few insect such as *Dysmicoccus brevipens* and *P. bambusae* found in door plants only). The family Diaspididae is the most abundant with 134 species in 42 genera, followed by Pseudococcidae with 101 species in 32 genera, and Coccidae with 67 species in 28 genera. The other families have: Eriococcidae (12 genera, 29 species), Asterolecaniidae (3 genera, 11 species), Kermesidae (2 genera, 11 species), Margarodidae (2 genera, 5 species), Monophlebidae (3 genera, 3 species), Matsucoccidae (1 genus, 2 species), Putoidae (1 genus, 4 species), Rhizoecidae (1 genus, 4 species), Cerococcidae (1 genus, 1 species), Leconodiaspidae (1 genus, 1 species), Dactylopiidae (1 genus, 1 species), Marchalinidae (1 genus, 1 species), Micrococcidae (1 genus, 1 species) Ortheziidae (1 genus, 1 species) and Phoenicococcidae (1 genus, 1 species) (Table 1). In the table one we organized distribution of the species according to 7 different regions in Turkey; namely Mediterranean Region (1), Eastern Anatolian Region (2), Aegean Region (3), South-East Anatolian Region (4), Black Sea Region (5), Marmara Region (6) and Central Anatolian Region (7). On the other hand cosmopolite species are marked by asterisk (*). By the way in case of we could not have information about the species we marked with (?).

In this study we just wanted to consider the current scale insect species in Turkey but not discuss the zoogeographical aspect of the species. Because of the fact about the zoogeographical position of Turkey we are expecting much more species in Turkey in near future.

Table 1. Scale insect species of Turkey

Species	Host plant	Distribution
ASTEROLECANIIDAE		
Asterodiaspis		
1. <i>A. bella</i> (Russell)	<i>Quercus</i> sp.	2, 7
2. <i>A. hadzibeyliae</i> Borchsenius	<i>Quercus</i> sp.	7
3. <i>A. ilicicola</i> (Targioni Tozzetti)	<i>Quercus</i> sp., <i>Q. coccifera</i>	1, 3, 6
4. <i>A. mina</i> (Russell)	<i>Quercus</i> sp.	2
5. <i>A. quercicola</i> (Bouche)*	<i>Quercus</i> sp., <i>Q. branti</i>	1, 3, 7
6. <i>A. repugnans</i> (Russell)	<i>Quercus</i> sp.	2
7. <i>A. variolasa</i> (Ratzeburg)*	<i>Quercus</i> sp., <i>Quercus aegilops</i> , <i>Q. coccifera</i>	1, 2, 6
Planchonia		
8. <i>P. arabidis</i> Signoret*	<i>Crambe</i> sp.	7
9. <i>P. zanthenes</i> (Russel)	?	?
Pollinia		
10. <i>P. pollini</i> (A. Costa)	<i>Olea</i> spp., <i>O. europaea</i>	1, 3, 4
CEROCOCCIDAE		
Cerococcus		
11. <i>C. perowskiae</i> Archangelskaya	<i>Artemisia</i> sp., <i>A. fragrans</i>	?
COCCIDAE		
Acanthopulvinaria		
12. <i>A. orientalis</i> (Nasonov)	<i>Noae</i> sp., <i>N. mucronata</i>	2, 7
Anapulvinaria		
13. <i>A. pistaciae</i> (Bodenheimer)	<i>Pistacia atlantica</i> , <i>P. terebinthus</i> , <i>P. vera</i>	1, 2, 4, 6, 7
Bodenheimera		
14. <i>B. rachelae</i> (Bodenheimer)	<i>Vitex agnus-castus</i>	1, 7
Ceroplastes		
15. <i>C. floridensis</i> Comstock*	Polyfag on ornamentals and fruits, <i>Cedrus libani</i>	1, 2, 3
16. <i>C. japonicus</i> Green	<i>Acer negundo</i> , <i>A. pseudoplatanus</i> , <i>Aesculus hippocastaneum</i> , <i>Hedera helix</i> , <i>Laurus nobilis</i> , <i>Morus alba</i> , <i>Malus flibribunda</i> , <i>Nerium oleander</i> , <i>Pistaciae</i> sp., <i>Ulmus campestris</i>	6
17. <i>C. rusci</i> (Linnaeus)*	Polyfag on ornamentals and fruits	1, 3
18. <i>C. sinensis</i> Del Guercio*	Polyfag on ornamentals and fruits, <i>Actinidia deliciosa</i>	5

Table 1. (Continued)

Coccus		
19. <i>C. hesperidum</i> Linnaeus*	Polyfag on ornamentals and fruits, <i>Cedrus libani</i> , <i>Pinus</i> sp.	1, 5, 6, 7
20. <i>C. pseudomagnoliarum</i> (Kuwana)*	Polyfag on ornamentals and fruits	1, 2, 3, 6, 7
Didesmococcus		
21. <i>D. unifasciatus</i> (Archangelskaya)	<i>Prunus persicae</i>	2
Eriopeltis		
22. <i>E. festucae</i> (Boyer de Fonscolombe)	<i>Alopecurus myosuroides</i> , <i>Agropyron</i> sp., <i>A. repens</i> , <i>Festuca</i> sp.	2, 7
Eucalymnatus		
23. <i>E. tessellatus</i> (Signoret)*	<i>Phoenix</i> sp.	7
Eulecanium		
24. <i>E. ciliatum</i> (Douglas)	<i>Jasminum fruticans</i> , <i>Acer campestre</i> , <i>A. pseudoplatanus</i> , <i>Crataegus monogyna</i> , <i>C. oxycantha</i> ., <i>Ribes</i> sp., <i>Cydonia</i> sp., <i>Malus</i> sp.	7
25. <i>Eulecanium cerasorum</i> (Cockerell)	<i>Quercus</i> sp., <i>Q. robor</i>	7
26. <i>E. ficiphilum</i> Borchsenius	<i>Ficus carica</i>	2
27. <i>E. pistaciae</i> Borchsenius	<i>Pistacia</i> sp.	2
28. <i>E. rugulosum</i> (Archangelskaya)	<i>Prunus persica</i>	1
29. <i>E. takachihoi</i> (Kuwana)	<i>Vitex agnus-castus</i>	1
30. <i>E. tiliae</i> (Linnaeus)	Polyfag on ornamental and fruits	1, 2, 6, 5, 7
31. <i>E. transvittatum</i> (Green)	<i>Acer negundo</i>	7
Exaeretopus		
32. <i>E. agropyri</i> (Hadzibejli)	<i>Poa bulbosa</i>	7
33. <i>E. formiceticola</i> Newstead	<i>Aegilops</i> sp., Poaceae	2, 7
34. <i>E. tritici</i> Williams	<i>Bromus tectorum</i> , <i>Triticum vulgare</i>	2, 7
Filippia		
35. <i>F. follicularis</i> (Targioni Tozzetti)	<i>Fraxinus</i> sp., <i>Jasminium</i> sp., <i>Olaea</i> sp., <i>Olea europaea</i> , <i>Phillyrea</i> sp., <i>Pyrus communis</i> , <i>Viburnum</i> sp., <i>Viscum album</i>	1, 3, 6, 7
Lecanopsis		
36. <i>L. turcica</i> (Bodenheimer)	<i>Agropyron</i> sp.	7
37. <i>L. subterranea</i> (Gomez-Menor Ortega)	Poaceae	2
38. <i>L. taurica</i> Borchsenius	Poaceae	2
Lichtensia		
39. <i>L. viburni</i> Signoret	<i>Viburnum</i> sp., <i>V. iburnum tinus</i> , <i>Hedera helix</i> , <i>Olea oleaster</i> , <i>Phillyrea</i> sp.	3, 6

Table 1. (Continued)

Nemolecanium		
40. <i>N. aptii</i> (Bodenheimer)	<i>Abies nordmanniana</i>	5
Neopulvinaria		
41. <i>Neopulvinaria innumerabilis</i> (Rathvon)	<i>Acer negundo</i> , <i>Catalpa bignonioides</i> , <i>Crateagus monagyna</i> , <i>Morus alba</i> , <i>Quercus</i> sp., <i>Parthenocissus quinquefolia</i> , <i>P.</i> <i>quinquefolia</i> , <i>Robinia pseudoacacia</i> , <i>Spiraea</i> sp., <i>Tilia</i> sp., <i>Vitis</i> <i>vinifera</i>	6, 7
Palaeolecanium		
42. <i>P. bituberculatum</i> (Signoret)	Ployfag on Rosaceae	1, 2, 6, 4, 7
43. <i>P. kosswigi</i> Bodenheimer	<i>Pyrus elaeagnifolia</i>	4
Parasaissetia		
44. <i>P. nigra</i> (Nietner)*	<i>Myrtus communis</i>	1
Parthenolecanium		
45. <i>P. corni</i> (Bouché)*	Polyfag on fruits, <i>Morus alba</i> , <i>Robinia pseudoacacia</i> <i>Vitis vinifera</i> , <i>Morus alba</i> , <i>Prunus armeniaca</i> , <i>Prunus persicae</i> , <i>Elaeagnus</i> sp.	2, 3, 5, 6, 7
46. <i>P. persicae</i> (Fabricius)	Stone fruits	6, 7
47. <i>P. pomeranicum</i> (Kawecki)	<i>Taxus buccata</i>	3, 6
48. <i>P. pruinatum</i> (Coquillett)	<i>Philadelphus corenarius</i>	?
49. <i>P. rufulum</i> (Cockerell)	<i>Quercus</i> sp. <i>Q. rubra</i>	6, 7
50. <i>P. tamaricis</i> (Bodenheimer) *	<i>Tamarix pallasii</i>	7
Physokermes		
51. <i>P. piceae</i> (Schrank)	<i>Abies borumülleriana</i> , <i>Picea pungens</i> , <i>P. excelsa</i>	6, 7
Poaspis		
52. <i>Poaspis intermediata</i> Goux	<i>Pinus brutia</i>	6
Pulvinaria		
53. <i>P. floccifera</i> (Westwood)*	Polyfag on ornamental and fruits	1, 5, 6
54. <i>P. terrestris</i> Borchsenius	<i>Crataegus</i> sp.	7
55. <i>P. tremulae</i> Signoret	<i>Populus</i> sp.	2
56. <i>P. vitis</i> (Linnaeus)	<i>Cydonia oblonga</i> , <i>Malus communis</i> , <i>Quercus</i> sp., <i>Platanus</i> <i>orientalis</i> , <i>Prunus armeniaca</i> , <i>Pyrus communis</i> , <i>Rosa</i> sp., <i>Salix</i> sp., <i>Ostrya carpinifolia</i> , <i>Vitis</i> sp., <i>V. vinifera</i>	2, 3, 6, 7
Pulvinariella		
57. <i>P. mesembryanthemi</i> (Vallot)*	<i>Aptenia cordifolia</i> , <i>Carpobratus aciniformis</i>	3

Table 1. (Continued)

Rhizopulvinaria		
58. <i>R. artemisiae</i> (Signoret)	<i>Acantholimon echinus</i> , <i>Acanthophyllum</i> sp, <i>Artemisia</i> sp, <i>Cerastium</i> sp, <i>Dianthus</i> sp., <i>Gypsophila</i> sp., <i>Scutellaria</i> sp., <i>Teucrium polium</i> , Crucifera	2, 7
59. <i>R. dianthi</i> (Bodenheimer)	<i>Artemisia</i> sp., <i>Astragalus</i> sp., Caryophyllaceae, Crasullaceae	2
60. <i>R. grandicula</i> Borchsenius	<i>Acantholimon</i> sp., <i>Achillae</i> sp., <i>Artemisia vulgaris</i> , <i>Comphorosoma</i> sp., <i>Eryngium campastre</i> , <i>Helychrysum</i> sp., Hypericaceae	2
61. <i>R. hissarica</i> Borchsenius	<i>Dianthus</i> sp.	2
62. <i>R. halli</i> Borchsenius	<i>Pyrethrum</i> sp, <i>Tanacetum</i> sp., <i>Alyssum</i> sp., <i>Silene</i> sp.	7
63. <i>R. megriensis</i> Borchsenius	<i>Silene</i> sp., Primulaceae	2
64. <i>R. pyrethri</i> Borchsenius	<i>Acantholimon</i> sp., <i>Artemisia</i> sp., <i>Alyssum</i> sp., <i>Dianthus</i> sp., <i>Veronica multifida</i>	2, 7
65. <i>R. spinifera</i> Borchsenius	<i>Jasminum</i> sp., <i>J. fructicans</i> , <i>Veronica</i> sp., <i>Thymus</i> sp.,	7
66. <i>R. turkestanica</i> (Archangelskaya)	<i>Alyssum</i> sp.	
67. <i>R. turkmenica</i> Borchsenius	<i>Artemisia</i> sp., <i>Dianthus</i> sp., Rubiaceae	2, 7
68. <i>R. variabilis</i> Borchsenius	<i>Buplerum</i> sp., <i>Dianthus</i> sp., <i>Veronica</i> sp., Boraginaceae,	2
69. <i>R. viridis</i> Borchsenius	Lamiaceae <i>Artemisia vulgaris</i> , <i>Verbascum</i> sp., Brassicaceae <i>Dianthus</i> sp.	2 2
Rhodococcus		
70. <i>R. perornatus</i> (Cockerell & Parrott)	<i>Rosa</i> sp., <i>R. cinnamomea</i> , <i>R. canina</i> , <i>R. damascena</i> , <i>Rosa pimpinellifolia</i>	1, 3, 7
71. <i>R. turanicus</i> Archangelskaya	<i>Prunus domestica</i> , <i>Prunus armeniaca</i>	2
Saissetia		
72. <i>S. coffeae</i> (Walker)*	Polyfag on ornamental and fruits	5, 6, 7
73. <i>S. oleae</i> (Olivier)*	<i>Olea</i> sp., <i>Cycas revoluta</i> , <i>Tamarix</i> sp.	1, 3, 6
Scythia		
74. <i>S. craniumequinum</i> Kiritchenko	<i>Agropyron</i> sp., <i>Festuca</i> sp.	7
75. <i>S. festucreti</i> Šulc	<i>Festuca</i> sp., Poaceae	2
Sphaerolecanium		
76. <i>S. prunastri</i> (Boyer de Fonscolombe)	Stone fruits	1, 2, 3, 5, 6, 7
Vittacoccus		
77. <i>Vittacoccus longicornis</i> (Green)	In the Soil	2

Table 1. (Continued)

DACTYLOPIIDAE		
<i>Dactylopius</i>		
78. <i>D. coccus</i> Costa*	<i>Opuntia ficus-indica</i>	1
DIASPIDIDAE		
<i>Abgrallaspis</i>		
79. <i>A. cyanophylli</i> (Signoret)*	<i>Brasiliopuntia brasiliensis</i> , <i>Chamacerasus silvestri</i> , <i>Cactus</i> spp., <i>Dianthus caryophyllus</i> , <i>Senecio bicolor</i> , <i>Gasteria maculata</i> (= <i>Gasteria bicolor</i> var. <i>bicolor</i>), <i>G. verrucosa</i> (= <i>G. carinata</i> var. <i>Verrucosa</i>)	3, 6, 7
<i>Acanthomytilus</i>		
80. <i>A. sacchari</i> (Hall)*	<i>Sorghum halepense</i>	1
<i>Aonidia</i>		
81. <i>A. lauri</i> (Bouche)	<i>Laurus nobilis</i>	1, 4, 6
82. <i>A. mediterranea</i> (Lindinger)	<i>Cupressus sempervirens</i> , <i>Juniperus</i> sp., <i>P. brutia</i>	1
<i>Aonidiella</i>		
83. <i>A. aurantii</i> (Maskell)*	<i>Acacia</i> spp., <i>Citrus</i> spp., <i>Rosa</i> spp., <i>Amaranthus viridis</i>	1, 3
84. <i>A. citrina</i> (Coquillett)*	<i>Acacia cultiformis</i> , <i>Catalpa bignonioides</i> , <i>Ceratonia siliqua</i> , <i>Citrus</i> spp., <i>Elaeagnus angustifolia</i> , <i>Hedera helix</i> , <i>Euonymus</i> spp., <i>Jasminum</i> spp., <i>Vitis vinifera</i> , <i>Rosa</i> spp.	1, 3
<i>Aspidiotus</i>		
85. <i>A. hedericola</i> Leonardi	<i>Laurus nobilis</i> , <i>Hedera helix</i>	1, 3, 6
86. <i>A. nerii</i> Bouche*	<i>Acacia cultiformis</i> , <i>A. cyanophylla</i> , <i>Aucuba japonica</i> , <i>Asparagus acutiformis</i> , <i>Campsis radicans</i> , <i>Canna indica</i> , <i>Cedrus libani</i> , <i>Citrus limon</i> , <i>Cycas revoluta</i> , <i>Hedera helix</i> , <i>Jasminum</i> sp., <i>Laurus nobilis</i>	1, 3, 5, 6
<i>Aulacaspis</i>		
87. <i>A. rosae</i> (Bouché)*	<i>Rosa</i> sp., <i>Rubus fruticosus</i>	1, 5, 6

Table 1. (Continued)

Carulaspis		
88. <i>C. juniperi</i> (Bouché)*	<i>Cupressus sempervirens, Juniperus excelsa, Platycladus orientalis (=Thuja orientalis)</i>	1, 3
89. <i>C. minima</i> (Signoret)*	<i>Arceuthos drupacea, Chamaecyparis lawsoniana, Cupressus arizonica, Juniperus communis, Platycladus orientalis (=Thuja orientalis)</i>	1, 6
Chlidaspis		
90. <i>C. asiatica</i> (Archangelskaya)	<i>Prunus communis (=P. domestica)</i>	1
Chionaspis		
91. <i>C. austriaca</i> Lindinger	<i>Pinus</i> sp.	2
92. <i>C. etrusca</i> Leonardi	<i>Tamarix</i> sp., <i>T. pallasii (=T. laxa)</i>	1, 2, 3, 5, 7
93. <i>C. kabliensis</i> Balachowsky	<i>Cedrus libani</i>	7
94. <i>C. lepineyi</i> Balachowsky	<i>Quercus</i> sp.	2
95. <i>C. salicis</i> (Linnaeus)	<i>Populus alba, P. canadensis, P. nigra, P. tremuloides, Salix alba, S. babylonica, Ulmus</i> sp.	1, 2, 3, 5, 7
Chrysomphalus		
96. <i>C. aonidum</i> (Linnaeus)*	<i>Citrus limon, C. sinensis, Palmae, Aloe</i> spp.	3, 5, 7
97. <i>C. dictyospermi</i> (Morgan)*	<i>Aralia</i> spp., <i>Buxus microphylla, Citrus aurantium, C. bigaradia, C. limon, C. sinensis, Ceratonia siliqua, Dracena</i> spp., <i>D. deremensis, Eriobotrya japonica, Senecio bicolor</i>	1, 3, 5
98. <i>C. pinnulifer</i> (Maskell)*	<i>Euonymus japonica, Ficus carica, Taxus</i> sp.	1, 3, 5
Contigaspis		
99. <i>C. zillae</i> (Hall)	<i>Acantholium</i> sp., <i>Artemisia</i> sp., <i>Gallium</i> sp., Compositae	2, 4
Chortinaspis		
100. <i>C. subterranea</i> (Lindinger)	<i>Agropyron</i> sp.	7

Table 1. (Continued)

Diaspidiotus		
101. <i>D. anatolicus</i> (Bodenheimer)	<i>Prunus dulcis</i> (=Prunus amygdalus, =Amygdalus communis)	7
	<i>Amygdalus</i> spp.	
102. <i>D. armenicus</i> (Borchsenius)	<i>Populus nigra</i> , <i>Salix</i> sp.	2
103. <i>D. caucasicus</i> (Borchsenius)	<i>Populus</i> sp., <i>P. nigra</i> v. <i>pyramidalis</i> , <i>Salix</i> sp., <i>Quercus</i> sp.	2, 5, 6, 7
104. <i>D. distinctus</i> (Leonardi)	<i>Ephedra campylopoda</i>	1
105. <i>D. elaeagni</i> (Borchsenius)	<i>Astragalus</i> sp.	7
106. <i>D. gigas</i> (Thiem & Gerneck)	<i>Populus</i> sp., <i>Salix</i> sp.	2, 6
107. <i>D. jaapi</i> (Leonardi)	<i>Cedrus libani</i> , <i>Pinus brutia</i>	1, 3
108. <i>D. kaussarii</i> Balachowsky	<i>Salix alba</i>	2
109. <i>D. lenticularis</i> (Lindinger)	<i>Prunus avium</i>	6
110. <i>D. marani</i> (Zahradník)	<i>Fraxinus</i> sp., <i>Fraxinus excelsior</i> , <i>Malus sylvestris</i> , <i>Platanus orientalis</i> , <i>Prunus domestica</i> , <i>Pyrus communis</i>	1, 2, 5, 6, 7
111. <i>D. osborni</i> (Newell & Cockerell)	<i>Salix</i> sp., <i>Prunus domestica</i>	4
112. <i>D. ostreaeformis</i> (Curtis)	<i>Populus nigra</i> , <i>Salix</i> sp. <i>Pistacia</i> sp.	2, 3, 5, 6, 7
113. <i>D. perniciosus</i> (Comstock)	Polyfag on ornamentals and fruits	1, 2, 5, 7
114. <i>D. prunorum</i> (Laing)	<i>Prunus armeniaca</i> , <i>P. domestica</i> , <i>P. dulcis</i>	2
115. <i>D. pyri</i> (Lichtenstein)	<i>Malus sylvestris</i> , <i>Salix</i> spp.	2, 5, 6, 7
116. <i>D. sulci</i> (Balachowsky)	<i>Ephedra</i> sp.	2, 7
117. <i>D. transcaspensis</i> (Marlatt)	<i>Salix</i> sp.	2
118. <i>D. wuenni</i> (Lindinger)	<i>Alnus</i> sp., <i>Quercus</i> sp.	7
119. <i>D. zonatus</i> (Frauenfeld)	<i>Fagus orientalis</i> , <i>Juglans regia</i> , <i>Salix</i> spp., <i>Ulmus americana</i>	7
Diaspis		
120. <i>D. boisduvalii</i> Signoret*	<i>Orchis</i> spp., <i>Palmae</i>	7
121. <i>D. bromeliae</i> (Kerner)*	<i>Orchis</i> spp.	7
122. <i>D. echinocacti</i> (Bouché)*	<i>Cactus</i> spp., <i>Opuntia ficus-indica</i>	1, 7
123. <i>D. syriaca</i> Lindinger*	<i>Pistacia terebinthus</i> , <i>P. vera</i>	1
Duplachionaspis		
124. <i>D. berlesii</i> (Leonardi)	<i>Artrocnemum glaucum</i>	1
125. <i>D. erianthi</i> Borchsenius	<i>Sorghum halepense</i>	1
126. <i>D. natalensis</i> (Maskell)*	<i>Phragmites australis</i>	1
127. <i>D. noaeae</i> (Hall)	<i>Noaea</i> sp., <i>N. mucronata</i>	2, 7

Table 1. (Continued)

Dynaspidiotus		
128. <i>D. abieticola</i> (Koroneos)	<i>Abies bornmülleriana, Cedrus libani</i>	7
129. <i>D. abietis</i> (Schränk)	<i>Abies spp, Pinus spp.</i>	7, 5, 6
130. <i>D. atlanticus</i> (Balachowsky)	<i>Olea europea</i>	1
131. <i>D. britannicus</i> (Newstead)	<i>Cedrus libani, Ceratonia siliqua, Daphne sp, Hedera helix, Laurus nobilis, Olea europaea, Myrtus communis, Pistacia lentiscus</i>	1, 3, 5, 6, 7
Epidiaspis		
132. <i>E. gennadii</i> (Leonardi)	<i>Pistacia sp.</i>	1, 4, 5, 7
133. <i>E. leperii</i> (Signoret)	<i>Pistacia sp., Prunus sp., P. domestica, Aesculus hippocastaneum</i>	1, 4, 5, 6, 7
135. <i>E. salicis</i> (Bodenheimer)	<i>Salix sp.</i>	2
Fiorinia		
136. <i>F. fioriniae</i> (Targioni-Tozzetti)*	<i>Livistona chinensis, Palmae sp., Phoenix spp., Ruscus hypoglossum</i>	1
Furchadaspis		
137. <i>F. zamiae</i> (Morgan)*	<i>Bricardia vinicera??, Cycas revoluta, Palmae</i>	6
Gomezmenoraspis		
138. <i>G. pinicola</i> Leonardi	<i>Pinus brutia, P. halepensis, P. pinea</i>	1, 3, 6
139. <i>G. nr. pinicola</i> (Leonardi)	<i>Cedrus libani</i>	1, 7
Genistaspis		
140. <i>G. zellhae</i> Bodenheimer	<i>Genista joubertii inops</i>	7
Gonaspidiotus		
141. <i>G. minimus</i> (Leonardi)	<i>Quercus coccifera, Q. dschrochensis, Q. ilex</i>	1, 3, 6
142. <i>G. seurati</i> (Marchal)	<i>Thuja spp.</i>	?
Hemiberlesia		
143. <i>H. lataniae</i> (Signoret)*	<i>Prunus dulcis (=Prunus amygdalus, =Amygdalus communis), Strelizia sp., Olea europae</i>	3, 6
144. <i>H. rapax</i> (Comstock)*	<i>Actinidia deliciosa, Euonymus japonica</i>	3, 5, 6
Kuwanaspis		
145. <i>K. pseudoleucaspis</i> (Kuwana)*	<i>Bambusa sp.</i>	6

Table 1. (Continued)

Lepidosaphes		
146. <i>L. beckii</i> (Newman)*	<i>Citrus</i> spp., <i>Malus sylvestris</i> ??	1, 3, 7
147. <i>L. conchiformis</i> (Gmelin)*	<i>Ficus carica</i> , Lamiaceae., <i>Rhammus</i> spp., <i>Ulmus</i> spp.	1, 3
148. <i>L. gloverii</i> (Packard)*	<i>Citrus aurantium</i> , <i>C. limon</i> , <i>C. sinensis</i>	1, 3, 5
149. <i>L. granati</i> Koroneos	<i>Acacia cultriform</i> , <i>Celtis</i> sp., <i>Ficus carica</i> , <i>Platanus orientalis</i> , <i>Punica granatum</i> , <i>Ulmus</i> sp., <i>U. glabra</i>	1, 2
150. <i>L. juniperi</i> Lindinger	<i>Cedrus libani</i> , <i>Pinus nigra</i> , <i>Thuja occidentalis</i>	3, 5, 6, 7
151. <i>L. malicola</i> Borchsenius	<i>Acer negundo</i> , <i>Fraxinus excelsior</i> , <i>Malus communis</i> , <i>Populus</i> sp. <i>Prunus</i> sp., <i>P. armeniaca</i> , <i>P. serrulata</i> , <i>Pyrus communis</i> , <i>Juglans regia</i> , <i>Salix</i> sp.	2, 7
152. <i>L. newsteadi</i> (Šulc)	<i>Abies bornmülleriana</i> , <i>A. pinsapo</i> , <i>Picea pungens</i>	6, 7
153. <i>L. pinnaeformis</i> (Bouché)*	Poyfag on ornamentals and fruits	1, 4
154. <i>L. pistaciae</i> Archangelskaya	<i>Malus sylvestris</i> , <i>Pistacia lentiscus</i> , <i>P. tenebinthus</i> , <i>P. vera</i>	2, 3, 4, 5
155. <i>L. serrifrons</i> (Leonardi)	??	3
156. <i>L. ulmi</i> (Linnaeus)*	<i>Acer negundo</i> , <i>Bauhinia</i> sp., <i>Cotoneaster horizontalis</i> , <i>Crateagus</i> sp., <i>Juglans regia</i> , <i>Malus</i> sp., <i>M. communis</i> , <i>Pyrus</i> <i>communis</i> , <i>Quercus</i> sp., <i>Rosa canina</i> , <i>Syringa vulgaris</i> , <i>Rosa</i> <i>domascena</i> , <i>Salix</i> sp., <i>Vitis vinifera</i> , <i>P. brutia</i>	1,2, 3,4,5, 6, 7
Leucaspis		
157. <i>L. knemion</i> Hoke	<i>Pinus</i> sp., <i>Pinus silvestri</i>	4, 6
158. <i>L. lowi</i> Colvée	<i>Pinus</i> sp., <i>Pinus nigra</i>	1, 2, 3, 5, 6, 7
159. <i>L. pini</i> (Hartig)	<i>Cedrus libani</i> , <i>Olea europea</i> , <i>Pinus pinea</i> , <i>P. btutia</i>	1, 3, 6, 7
160. <i>L. pusilla</i> Löw	<i>Cedrus</i> spp., <i>Pinus</i> sp. <i>P. brutia</i> , <i>P. halepensis</i> , <i>P. pinea</i>	1, 3, 6, 7
161. <i>L. riccae</i> Targioni -Tozzetti	<i>Ephedra</i> spp., <i>Euphorbia</i> spp. , <i>Olea europea</i>	1, 4
Lineaspis		
162. <i>L. striata</i> (Newstead)	<i>Thuja</i> spp., <i>T. occidentails</i> , <i>Cupressus</i> sp., <i>C. sempervirens</i> , <i>Arceuthobium</i> sp.	1
163. <i>L. nr. striata</i> (Newstead)	<i>Juniperus</i> sp.	2
Lopholeucaspis		
164. <i>L. japonica</i> (Cockerell)*	<i>Citrus</i> sp.	5
Melanaspis		
165. <i>M. inopinata</i> (Leonardi)	<i>Arbutus unedo</i> , <i>Bauhinia</i> sp., <i>Celtis</i> sp., <i>Cercis siliquastrum</i> , <i>Malus communis</i> , <i>Prunus</i> sp., <i>P. avium</i> , <i>Pyrus communis</i> , <i>Astragalus</i> sp.	1, 2, 7

Table 1. (Continued)

Mercetaspis		
166. <i>M. halli</i> (Green)	<i>Astragalus</i> spp?? (Probably this record is <i>M. sureyanus</i>), <i>Prunus armeniaca</i> , <i>Prunus domestica</i> , <i>Prunus armeniaca</i> ,	1, 2, 4, 7
167. <i>M. sureyanus</i> (Bodenheimer)	<i>Astragalus</i> sp.	2, 7
Mohelnaspis		
168. <i>M. massiliensis</i> (Goux)	<i>Alopecurus myosuroides</i> , <i>A. agrestis</i> , <i>Cynodon</i> sp.	7
Oceanaspidiotus		
169. <i>O. spinosus</i> (Comstock)*	<i>Viburnum tinus</i>	1
Parlatoria		
170. <i>P. crotonis</i> Douglas*	<i>Citrus</i> sp.	1, 2, 7
171. <i>P. oleae</i> (Colvée)*	<i>Eriobotrya</i> sp, <i>Fraxinus</i> sp., <i>Rosa</i> sp., <i>Malus sylvestris</i> , <i>Prunus</i> spp., <i>Syringa vulgaris</i>	1, 2, 3, 6, 7
172. <i>P. parlatoriae</i> (Šulc)	<i>Abies bornmülleriana</i>	5, 7
173. <i>P. pergandii</i> Comstock*	<i>Citrus</i> spp., <i>Malus sylvestris</i>	1, 2
174. <i>P. ziziphi</i> (Lucas)*	<i>Asparagus</i> spp., <i>Citrus</i> spp.	1, 2
Parlatoreopsis		
175. <i>P. longispina</i> (Newstead)	<i>Acacia cultiformis</i> , <i>Acer rubrum</i> , <i>Orchis</i> spp., <i>Celtis</i> spp.	1
Pinnaspis		
176. <i>P. aspidistrae</i> (Signoret)*	<i>Asplenium</i> spp., <i>Aspidistra elatior</i>	6
Pseudaulacaspis		
177. <i>P. pentagona</i> (Targioni-Tozzetti)*	Polyfag on ornamental and fruit plats, <i>Actinidia deliciosa</i>	1, 2, 5, 6, 7
Prodiaspis		
178. <i>Prodiaspis tamaricicola</i> (Malenotti)	<i>Tamarix pallasii</i> (= <i>T. laxa</i>), <i>T. pentandra</i>	2, 3, 7
Poliaspiodes		
179. <i>P. bambusae</i> Ülgentürk & Pellizari	<i>Bambusa</i> sp.	2
Rhizaspidotus		
180. <i>R. balachowskyi</i> Kozár & Matile-Ferrero	Poaceae	2
181. <i>R. bivalvatus</i> Goux	<i>Artemisia</i> sp.	2
182. <i>R. canariensis</i> (Lindinger)	<i>Cirsium arvense</i>	7
183. <i>R. donacis</i> (Leonardi)	<i>Phragmites australis</i>	1

Table 1. (Continued)

Salicicola		
184. <i>S. archangelskyae</i> (Lindinger)	<i>Fraxinus excelsior, Olea europea, Quercus</i> sp., <i>Prunus avium, Prunus armeniaca, Prunus domestica, Crateagus</i> sp., <i>Pyrus communis, Prunus avium, Pyrus pyraster</i>	1, 5, 7
185. <i>S. davatchi</i> Balachosky & Kaussari	<i>Pistacia terebinthus, Pistacia vera</i>	2
186. <i>S. kermanensis</i> (Lindinger)	<i>Salix alba, Populus</i> sp., <i>P. nigra</i>	1, 2
187. <i>S. pistaciae</i> (Lindinger)	<i>Pistacia</i> spp., <i>P. lentiscus</i>	1, 3, 4
Targionia		
188. <i>T. nigra</i> Signoret	<i>Gleditschia</i> spp.	1
189. <i>T. porifera</i> (Borchsenius)	<i>Pandera pilosa</i>	2
190. <i>T. vitis</i> (Signoret)	<i>Aesculus hippocastaneum, Castanea crenata, Vitis vinifera, Quercus</i> sp.	1, 6, 7
Torosaspis		
191. <i>T. cedricola</i> Balachowsky & Alkan	<i>Cedrus</i> sp., <i>Cedrus libani</i>	2, 3, 4, 6, 7
192. <i>T. turcica</i> Ülgentürk & Kozár	<i>Pinus brutia</i>	1
Unaspis		
193. <i>U. euonymi</i> (Comstock)*	<i>Buxus sempervirens, Rosa</i> spp., <i>Eunoymus argentata, E. japonicus</i>	1, 2, 5, 6, 7
ERIOCCIDAE		
Borchseniococcus		
194. <i>B. duzgunesae</i> Kaydan & Kozár	<i>Pandera pilosa</i>	2
Cryptococcus		
195. <i>C. fagisuga</i> Lindinger	<i>Fagus orientalis</i>	5
Anophococcus		
196. <i>A. agropyri</i> (Borchsenius)	<i>Scabiosa</i> sp.	1
197. <i>A. cingulatus</i> Kiritchenko	<i>Stipa</i> sp.	7
198. <i>A. cynodontis</i> Kiritchenko	<i>Cynodon</i> sp., <i>Cynodon dactylon</i>	7
199. <i>A. herbaceus</i> (Danzig)	<i>Cynodon dactylon</i>	7

Table 1. (Continued)

Acanthococcus		
200. <i>A. aceris</i> Signoret	<i>Quercus</i> sp., <i>Platanus orientalis</i>	2
201. <i>A. devoniensis</i> (Green)	<i>Erodium</i> sp., <i>Veronica multifida</i> , <i>Salvia</i> sp., <i>Acroptilon repens</i> , <i>Taraxacum</i> sp., <i>Achillea</i> sp., <i>Cichorium intybus</i>	2, 7
202. <i>A. greeni</i> (Newstead)	<i>Festuca</i> sp., <i>Agropyron</i> sp., <i>Poa</i> sp.	2, 7
203. <i>A. istresianus</i> (Goux)	<i>Helichrysum</i> sp., Asteraceae	2
204. <i>A. roboris</i> Goux	<i>Quercus</i> sp.	7
205. <i>A. salicis</i> (Borchsenius)	<i>Salix alba</i>	2
206. <i>A. saxatilis</i> (Kritchenko)	<i>Euphorbia</i> sp., <i>E. sequieriana</i>	2
Gossyparia		
207. <i>G. spuria</i> (Modeer)	<i>Ulmus</i> sp.	1, 2, 6, 7
Eriococcus		
208. <i>E. buxi</i> (Boyer de Fonscolombe)	<i>Buxus sempervirens</i>	5, 6
Kotejacoccus		
209. <i>K. turcica</i> Kaydan & Kozár	<i>Quercus</i> sp.	2
Neoacanthococcus		
210. <i>N. atlihani</i> Kaydan & Kozár	<i>Tamarix</i> sp.	2
Proteriococcus		
211. <i>P. lauri</i> Erkiliç	<i>Laurus nobilis</i>	1
Pseudochermes		
212. <i>P. fraxini</i> (Kaltenbach)	<i>Fraxinus excelsior</i>	6
Rhizococcus		
213. <i>R. kondariensis</i> Borchsenius	<i>Agropyron repens</i>	2
214. <i>R. micracanthus</i> (Danzig)	<i>Salvia</i> sp., <i>Scabiosa</i> sp.	2, 6
215. <i>R. munroi</i> (Boratynsky)	<i>Minuartia anatolica</i> , <i>Crepis</i> sp.	7
216. <i>R. pseudinsignis</i> Green	<i>Agropyron repens</i> , <i>Bromus</i> sp, <i>Bromus inermis</i> , <i>Cynodon dactylon</i> , <i>Dianthus crinitus</i>	7
217. <i>R. tavnani</i> Goux	Poaceae	2, 6
218. <i>R. terrestris</i> Matesova	<i>Medicago sativa</i>	2, 7
219. <i>R. thymi</i> (Schrank)	<i>Anchusa</i> sp., <i>Artemisia vulgaris</i> , <i>Centaura solstitialis</i> , <i>Thymus</i> sp.	7
220. <i>R. variabilis</i> Goux	<i>Cynodon dactylon</i>	7
221. <i>R. zernae</i> (Tereznikova)	<i>Artemisia vulgaris</i> , <i>Agropyron</i> sp., <i>A. repens</i> , <i>Triticum orientalis</i>	7

Table 1. (Continued)

Uhleria		
222. <i>U. araucariae</i> Maskell	<i>Araucaria</i> sp.	6
KERMESIDAE		
Kermes		
223. <i>K. bekiri</i> Bodenheimer	<i>Quercus aegilops</i>	3
224. <i>K. bacciformis</i> Leonardi	<i>Quercus</i> sp.	1
225. <i>K. nr. bacciformis</i>	<i>Quercus</i> sp.	2
226. <i>K. greeni</i> Bodenheimer	<i>Quercus coccifera</i>	1, 3
227. <i>K. muhlisi</i> Bodenheimer	<i>Quercus</i> sp.	1
228. <i>K. roboris</i> (Fourcroy)	<i>Quercus</i> sp.	2
229. <i>K. sadrui</i> Bodenheimer	<i>Quercus aegilops</i>	2
230. <i>K. safinazae</i> Ozkok	<i>Quercus</i> sp., <i>Q. cerris</i>	1
231. <i>K. vermilio</i> Planchon	<i>Quercus coccifera</i> , <i>Q. ilex</i> , <i>Q. suber</i>	1, 3, 7
Nidularia		
232. <i>N. balachowskii</i> Bodenheimer	<i>Quercus</i> sp.	4
233. <i>N. pulvinata</i> (Planchon)	<i>Quercus</i> sp., <i>Q. coccifera</i> , <i>Q. ithaburensis</i>	?
LECANODIASPIDIDAE		
Lecanodiaspis		
234. <i>L. sardoa</i> Targioni-Tozzetti	<i>Cistus albida</i>	3
MARGARODIDAE		
Neomargarodes		
235. <i>N. festucae</i> Archangelskaya	<i>Festuca</i> spp., <i>F. ovina</i>	7
Porphyrophora		
236. <i>P. hamelii</i> Brandt	<i>Cynodon</i> sp.	2
237. <i>P. minuta</i> Borchsenius	<i>Diplotaxis tenuifolia</i> , <i>Cardaria draba</i>	7
238. <i>P. tritici</i> (Bodenheimer)	Poaceae	4, 7
239. <i>P. polonica</i> (Linnaeus)	<i>Lens culinaris</i>	4
MARCHALINIDAE		
Marchalina		
240. <i>M. hellenica</i> (Gennadius)	<i>Pinus brutia</i> , <i>P. halapensis</i> , <i>P. pinae</i> , <i>P. silvestris</i>	1, 3, 6

Table 1. (Continued)

MATSUCOCCIDAE		
<i>Matsucoccus</i>		
241. <i>M. josephi</i> Bodenheimer & Harpaz	<i>Pinus</i> sp., <i>P. brutia</i> , <i>P. pinea</i>	1, 3
242. <i>M. pini</i> Green	<i>Pinus</i> sp.	1, 3
MONOPHLEBIDAE		
<i>Gueriniella</i>		
243. <i>G. serratulae</i> (Fabricius)	<i>Cichorium intybus</i>	1, 3, 6, 7
<i>Icerya</i>		
244. <i>I. purchasi</i> Hempel*	Polyfag on ornamental plants	1, 3, 5, 6
<i>Palaeococcus</i>		
245. <i>P. fuscipennis</i> (Burmeister)	<i>Pinus</i> sp., <i>P. brutia</i>	1, 3, 6
MICROCOCCIDAE		
<i>Micrococcus</i>		
246. <i>M. similis</i> Leonardi	Poaceae	6
ORTHEZIIDAE		
<i>Orthezia</i>		
247. <i>O. urticae</i> (Linnaeus)	Polyfagus	1, 6, 7
PHOENICOCOCCIDAE		
248. <i>Phoenicococcus marlatti</i> Cockerell	<i>Phoenix dactylifera</i> L.	
PSEUDOCOCCIDAE		
<i>Antonina</i>		
248. <i>A. graminis</i> (Maskell)*	<i>Festuca</i> sp., Poaceae	2, 7
<i>Artemicoccus</i>		
249. <i>A. bispinus</i> (Borchsenius)	<i>Artemisia</i> sp.	7

Table 1. (Continued)

Atrococcus		
250. <i>A. arakeliana</i> (Ter-Grigorian)	<i>Salvia</i> sp., <i>Matricaria</i> sp.	2
251. <i>A. achilleae</i> (Kiritchenko)	Compositae, <i>Acantholimon</i> sp., <i>Centaurea</i> sp., <i>Melilotus alba</i> , <i>Ranunculus</i> sp., <i>Scabiosa</i> sp., <i>Scolzoneria</i> sp., <i>Sideritis</i> sp., <i>Stachys</i> sp., <i>Verbascum</i> sp., <i>Veronica</i> sp., <i>V. multifida</i>	7
252. <i>A. ater</i> Goux	<i>Seteria</i> sp.	7
253. <i>A. cracens</i> Williams	<i>Centaurea</i> sp., <i>Medicago sativa</i> , Chenapodiaceae, Fabaceae.	2
254. <i>A. indigena</i> (Borchsenius)	<i>Astragalus</i> sp.	2
255. <i>A. paludinus</i> (Green)	<i>Teucrium</i> sp., <i>Senecio</i> sp., <i>Centaurea</i> sp.	7
256. <i>A. parvulus</i> (Borchsenius)	<i>Artemisia</i> sp., <i>Digitalis</i> sp., <i>Euphorbia</i> sp., <i>Galium</i> sp., <i>Verbascum</i> sp.	2
257. <i>A. saxatilis</i> (Ter-Grigorian)	<i>Salvia</i> sp., Asteraceae, <i>Phlomis</i> sp., <i>Salvia</i> sp., Caryophyllaceae	2, 7
Ceroputo		
258. <i>C. pilosellae</i> Šulc	<i>Euphorbia</i> sp., <i>E. sequieriana</i> , <i>Heliotrophium europium</i> , <i>Sanguisorba minor</i> , <i>Salvia</i> sp.	1, 2, 7
Chaetococcus		
259. <i>C. bambusae</i> (Maskell)*	<i>Bambusa</i> sp.	5
260. <i>C. phragmitis</i> (Marchal)	<i>Phragmites</i> sp.	2, 7
Coccidohystrix		
261. <i>C. artemisiae</i> (Kiritchenko)	<i>Artemisia</i> sp.	7
Coccura		
262. <i>C. circumscripta</i> (Kritchenko)	Undetermined plant	2
Dysmicoccus		
263. <i>D. brevipens</i> (Cockerell)*	<i>Ananas comosus</i>	2
Euripersia		
264. <i>E. amnicola</i> Borchsenius	<i>Festuca</i> sp., <i>Hordeum</i> sp., <i>Stipa</i> sp., <i>S. holosteta</i> , Juncaccaeae, Poaceae	2
Fonscoclombia		
265. <i>F. europaea</i> (Newstead)	Undetermined plant	2

Table 1. (Continued)

<i>Helicococcus</i>		
266. <i>H. bohemicus</i> Šulc	<i>Phlomis</i> sp.	2
267. <i>H. glacialis</i> (Newstead)	<i>Medicago</i> sp.	2
268. <i>H. radicolica</i> Goux	<i>Dianthus</i> sp., <i>Achillea millefolium</i> , <i>Aethionema arabicum</i> , <i>Condrilla</i> sp, <i>Carduus pycnocephalus</i> , <i>Daucus</i> sp, <i>Diploaxis tenuifolia</i> , <i>Erodium</i> sp, <i>Eryngium campestre</i> , <i>Lactuca</i> sp, <i>L. seriola</i> , <i>Malva</i> sp, <i>Sisymbrium</i> sp, <i>Stachys</i> sp, <i>Verbascum</i> sp., Asteraceae, Compositae,	2, 7
269. <i>H. saxatilis</i> Borchsenius	<i>Nepeta</i> sp., <i>Carduus pycnocephalus</i>	2
270. <i>H. sulcii</i> Goux	<i>Marrubium</i> sp.	7
<i>Heterobrevennia</i>		
271. <i>H. gullanae</i> Kaydan	Poaceae	2
272. <i>H. kozari</i> Kaydan	<i>Cynodon dactylon</i>	2
273. <i>H. opertus</i> Borchsenius	<i>Agropyron repens</i> , <i>Cynodon dactylon</i>	2, 7
<i>Heterococcus</i>		
274. <i>H. nudus</i> (Green)	<i>Agropyron</i> sp., <i>A. repens</i> , <i>Echinochloa crus-galli</i> , <i>Festuca arundinaceae</i> , <i>F. rubra</i> , <i>Hordeum murinum</i> , <i>Lolium</i> sp, <i>L. perenne</i> , <i>Seteria</i> sp, <i>S. viridis</i> , <i>Sorghum</i> sp., <i>Stipa</i> sp., Poaceae	2, 7
275. <i>H. tritici</i> (Kiritshenko)	<i>Avena</i> sp, <i>Cynodon dactylon</i> , <i>Elymus caput-medusae</i>	7
<i>Longicoccus</i>		
276. <i>L. affinis</i> (Ter-Grigorian)	<i>Hordeum bulbosa</i> , <i>Agropyron repens</i>	2, 7
277. <i>L. clarus</i> (Borchsenius)	<i>Cynodon dactylon</i> , Poaceae	2, 7
278. <i>L. festucae</i> (Koteja)	<i>Poa pratensis</i> , <i>Stipa</i> sp.	7
279. <i>L. longiventris</i> (Borchsenius)	<i>Hordeum bulbosa</i> , <i>Poa pratensis</i>	7
280. <i>L. psammophilus</i> (Koteja)	<i>Aegilops</i> sp., <i>Agropyron repens</i> , <i>Hordeum murinum</i> , <i>Poa bulbosa</i>	7
<i>Metadenopus</i>		
281. <i>M. ankaranus</i> (Bodenheimer)	<i>Festuca ovina</i>	7
282. <i>M. festucae</i> Šulc	Poaceae	2

Table 1. (Continued)

Mirococcopsis		
283. <i>M. ammophila</i> Bazaraov & Nurmamatov	Brassicaceae, <i>Thymus</i> sp. <i>Papaver</i> sp.	2
284. <i>M. avetianae</i> Ter-Grigorian	Poaceae	2
285. <i>M. elongatus</i> Borchsenius	<i>Festuca</i> sp., <i>Stipa</i> sp.	7
286. <i>M. multicircularia</i> Kaydan & Gavrilov	Poaceae	2
287. <i>M. subalpina</i> (Danzig)	Poaceae	2
288. <i>M. teberdae</i> (Danzig)	Poaceae	2
Mirococcus		
289. <i>M. inermis</i> (Hall)	<i>Polygonum</i> sp, <i>Salsola kali</i> , <i>Amaranthus viridis</i> , <i>Atriplex</i> sp., <i>Cardaria draba</i> , <i>Chenopodium</i> sp., <i>C. album</i> , <i>Diploaxis tenuifolia</i> , <i>Heliotropium europaeum</i> , <i>Polygonum aviculare</i> , <i>Sinapis arvensis</i> , <i>Sisymbrium altissimum</i> , <i>Xanthium strumarium</i>	2
Neotrionymus		
290. <i>N. monstatus</i> Ter-Grigorian	<i>Phragmites</i> sp., <i>Phragmites communis</i>	2, 7
Nipaecoccus		
291. <i>N. viridis</i> (Newstead)*	<i>Robinia pseudacacia</i>	6
292. <i>N. nipae</i> (Maskell)*	Polyfag on fruit plats	6
Pararhodania		
293. <i>P. armema</i> Ter-Grigorian	<i>Achillea</i> sp. <i>Taraxanum</i> sp.,	
Peliococcopsis		
294. <i>P. priesneri</i> (Laing)	<i>Cynodon dactylon</i>	2, 7
Peliococcus		
295. <i>P. kimmericus</i> (Kiritshenko)	<i>Cuminum cyminum</i>	2, 7
296. <i>P. chersonensis</i> (Kiritshenko)	<i>Artemisia</i> sp, <i>A. fragrans</i> , <i>A. vulgaris</i> , <i>Globularia</i> sp, <i>Solanum tuberosum</i> , <i>Cardaria draba</i> , <i>Sinapis arvensis</i> , <i>Tragopogon</i> sp., <i>Veronica</i> sp.	2, 7
297. <i>P. manifactus</i> Borchsenius	<i>Euphorbia</i> sp., <i>Turgenia latifolia</i> , <i>Centaurea solstitialis</i> , <i>Echium</i> sp., <i>Sonchus</i> sp.	2, 7
298. <i>P. salviae</i> Hadzibejli	<i>Carduus</i> sp., <i>Phlomis</i> sp., Crucifera	
299. <i>P. tritubulatus</i> (Kiritshenko)	<i>Euphorbia</i> sp., <i>E. sequieriana</i>	2, 7
300. <i>P. turanicus</i> (Kiritshenko)	<i>Achillea</i> sp., <i>A. millefolium</i> , <i>Artemisia</i> sp., <i>Cardaria</i> sp., <i>C draba</i> , <i>Crepis</i> sp., <i>Cichorium</i> sp., <i>C. intybus</i> , <i>Convolvulus arvensis</i> , <i>Descuarinia sophia</i> , <i>Diploaxis tenuifolia</i> , <i>Euphorbia</i> sp., <i>Falcaria vulgaris</i> , <i>Medicago</i> sp., <i>Salvia</i> sp., <i>Senecio</i> sp., <i>Scolzenera</i> sp., <i>Sisymbrium</i> sp., <i>Sonchus</i> sp., <i>S. arvensis</i> , <i>Tragopogon</i> sp, <i>Turgenia latifolia</i> , <i>Xanthium strumarium</i> sp.	2

Table 1. (Continued)

Phenacoccus		
301. <i>P. aceris</i> (Signoret)	<i>Acer</i> sp., <i>A. campestre</i> , <i>A. negundo</i> , <i>A. platanoides</i> , <i>A. pseudoplatanus</i> , <i>Betula</i> sp., <i>Eunoymus japonicas</i> , <i>Aesculus hippocastanum</i> , <i>Juglans regia</i> , <i>Robinia pseudoacacia</i> , <i>Ficus carica</i> , <i>Fraxinus americana</i> , <i>F. excelsior</i> , <i>Platanus orientalis</i> , <i>Cotoneaster</i> sp., <i>Crataegus</i> sp., <i>Cydonia oblonga</i> , <i>Malus communis</i> , <i>Mespilus germanica</i> , <i>Prunus</i> sp., <i>P. domestica</i> , <i>P. persica</i> , <i>P. spinosa</i> , <i>Pyrus communis</i> , <i>Tilia</i> sp.	1, 7
302. <i>P. angustatus</i> Borchsenius	<i>Poa</i> sp.	2
303. <i>P. avenae</i> Borchsenius	<i>Agrostis feniuss</i> , <i>Avena</i> sp, <i>A. sterilis</i> , <i>Bifora radians</i> , <i>Bromus inermis</i> , <i>Carduus pycnocephalus</i> , <i>Cynodon dactylon</i> , <i>Centaurea</i> sp., <i>Diptotaxis tenuifolia</i> , <i>Echium</i> sp., <i>Galium</i> sp., <i>Hordeum murinum</i> , <i>Lactuca</i> sp., <i>Lamium</i> sp., <i>Lolium</i> sp., <i>Reseda</i> sp., <i>Poa bulbosa</i> , <i>Sisymbrium</i> sp., <i>Stachys</i> sp.	2
304. <i>P. arambourgi</i> Balachowsky	<i>Cedrus libani</i>	1
305. <i>P. asphodeli</i> Goux	<i>Asphodelus microcarpus</i>	7
306. <i>P. bicerarius</i> Borchsenius	<i>Lolium</i> sp.	7
307. <i>P. chatacicus</i> Kaydan & Kozár	Undetermined plant	2
308. <i>P. emansor</i> Williams & Kozárhevskaya	Asteraceae	2
309. <i>P. eurotiae</i> Danzig	<i>Thymus</i> sp.	2
310. <i>P. evelinae</i> (Tereznikova)	<i>Cynodon dactylon</i>	7
311. <i>P. ferulae</i> Borchsenius	<i>Dactylis</i> sp., <i>Melilotus</i> sp., <i>Hordeum vulgare</i>	7
312. <i>P. graminicola</i> Leonardi	<i>Cynodon dactylon</i> , <i>Thymus</i> sp., <i>Eryngium</i> sp.	3
313. <i>P. hordei</i> (Lindeman)	<i>Hordeum vulgare</i> , <i>Bromus</i> sp.	7
314. <i>P. incertus</i> (Kiritchenko)	<i>Aegilops</i> sp., <i>Capsella bursa-pastoris</i> , <i>Centaurea</i> sp., <i>Lactuca</i> sp., Brassicaceae, Poaceae	2
315. <i>P. interruptus</i> Green	<i>Triticum vulgare</i> , <i>Cardaria draba</i> , <i>Chenopodium album</i>	7
316. <i>P. karabardi</i> Borchsenius & Ter-Grigorian	<i>Hordeum murinum</i>	2
317. <i>P. kokandicus</i> Nurmamatov	Poaceae	2
318. <i>P. loiki</i> Danzig	<i>Aegilops</i> sp., <i>Hordeum murinum</i> , <i>Secale</i> sp., Poaceae	2, 7
319. <i>P. madeirensis</i> Green*	<i>Lantana camara</i> , <i>Mirabilis jalapa</i> , <i>Pelargonium</i> sp. <i>Portulaca grandifolia</i>	1, 6
320. <i>P. phenacoccoides</i> (Kiritchenko)	Undetermined plant	7
321. <i>P. persimplex</i> Borchsenius	<i>Artemisia</i> sp., <i>Matricaria</i> sp., Apiaceae, Asteraceae	2
322. <i>P. pumilus</i> Kiritshenko	<i>Achillea</i> sp., <i>Ajuga</i> sp., <i>Amaranthus retroflexus</i> , <i>A. viridis</i> ,	7

Table 1. (Continued)

	<i>Anthemis</i> sp., <i>Artemisia</i> sp., <i>Atriplex</i> sp., <i>Bupleurum</i> sp., <i>Caucalis</i> sp., <i>Centaurea depressa</i> , <i>C. solstitialis</i> , <i>Chenopodium</i> sp., <i>Chenopodium botrys</i> , <i>Cichorium intybus</i> , <i>Cirsium</i> sp., <i>C. arvense</i> , <i>Chondrilla</i> sp., <i>C. juncea</i> , <i>Convolvulus galaticus</i> , <i>Crepis</i> sp., <i>Crupina crupinastrum</i> , <i>Daucus</i> sp., <i>Descurainia sophia</i> , <i>Diplotaxis tenuifolia</i> , <i>Echium</i> sp., <i>Echinophora tenuifolia</i> , <i>Erodium cicutarium</i> , <i>Eryngium campestre</i> , <i>Erysimum</i> sp., <i>Euclidium syriacum</i> , <i>Falcaria</i> sp., <i>Galium</i> sp., <i>Glaucium</i> sp., <i>Glaucum flavum</i> , <i>Hirschfeldia incana</i> , <i>Lactuca</i> sp., <i>L. seriole</i> , <i>Linaria</i> sp., <i>Lithospermum</i> sp., <i>Lotus corniculatus</i> , <i>Malva</i> sp., <i>Marrubium</i> sp., <i>Matthiola longipetala</i> , <i>Matricaria</i> sp., <i>Melilotus alba</i> , <i>Myosotis</i> sp., <i>Polygonum</i> sp., <i>Reseda</i> sp., <i>Reseda lutea</i> , <i>Salsola</i> sp., <i>Scandix</i> sp., <i>Scabiosa</i> sp., <i>Sideritis</i> sp., <i>Silene</i> sp., <i>Sinapis arvensis</i> , <i>Sisymbrium officinale</i> , <i>Sium</i> sp., <i>Sonchus</i> sp., <i>S. arvensis</i> , <i>Taralis</i> sp., <i>Trifolium</i> sp., <i>Tripleurospermum</i> sp., <i>Tragopogon</i> sp., <i>Turgenia</i> sp., <i>Valerianella</i> sp., <i>Verbascum</i> sp., <i>Veronica multifolia</i> , <i>Xanthium strumarium</i> , <i>Zosima absinthifolia</i>	
323. <i>P. querculus</i> Borchsenius	<i>Quercus</i> sp.	2
324. <i>P. nr. schmelevi</i> Bazarov	<i>Verbascum</i> sp., <i>Apiaceae</i>	2
325. <i>P. solani</i> Ferris*	<i>Portulaca oleraceae</i> , <i>Oleae europae</i>	1
326. <i>P. solenopsis</i> Tinsley*	<i>Amaranthus retroflexus</i> , <i>Chrysanthemum morifolium</i> , <i>Vinca rosea</i> , <i>Calendula officinalis</i> , <i>Hibiscus rosa-sinensis</i> , <i>Hibiscus syriacus</i> , <i>Capsicum annuum</i> , <i>Lycopersicon esculentum</i> , <i>Solanum melongena</i>	1
327. <i>P. strigosus</i> Borchsenius	<i>Lactuca</i> sp.	2
328. <i>P. tergrigorianae</i> Borchsenius	<i>Chenopodium</i> sp., <i>Scabiosa</i> sp., <i>Artemisia</i> sp., <i>Xanthium</i> sp., <i>Achillea</i> sp., <i>Cichorium</i> sp., <i>Eryngium</i> sp., <i>Medicago rigidula</i>	2, 7
329. <i>P. transcaucasicus</i> Hadzibejli	<i>Malus communis</i>	7
330. <i>P. yerushalmi</i> Ben-Dov	<i>Pinus brutia</i> , <i>P. sylvestris</i>	1

Table 1. (Continued)

Planococcus		
331. <i>P. citri</i> (Risso)*	Polyfag on Rutaceae	1, 3, 6, 7
332. <i>P. ficus</i> (Signoret)	Polyfag on ornamental plats, <i>Ficus</i> sp., <i>Vitis</i> sp., <i>V. vinifera</i> , <i>Punica granatum</i>	2, 3, 6, 7
333. <i>P. vovae</i> (Nasonov)	<i>Cupressus</i> sp., <i>C. sempervirens</i> , <i>C. goveniana</i> , <i>Juniperis excelsa</i> , <i>J. oxycedrus oxycedrus</i> , <i>Laurus nobilis</i> , <i>Libocetrus decurrens</i> , <i>Taxus baccata</i> , <i>Thuja occidentalis</i>	2, 1, 6, 7
Pseudococcus		
334. <i>P. laingi</i> Bodenheimer	Poaceae	7
335. <i>P. comstocki</i> (Nasanov)*	<i>Morus</i> sp., <i>Platanus orientalis</i> , <i>Vitis vinifera</i>	2, 5
336. <i>P. cryptus</i> Hempel	<i>Citrus</i> spp, Polyfag on ornamental plants	1
337. <i>P. longispinus</i> (Targioni-Tozzetti)*	Polyfag on ornamental plats, <i>Citrus</i> spp.	1, 5, 6, 7
338. <i>P. viburni</i> (Signoret)*	Polyfag on ornamental plats, <i>Citrus</i> spp.	1, 6
Rhodania		
339. <i>R. porifera</i> Goux	<i>Festuca</i> sp., <i>Stipa</i> sp., Poaceae	2, 7
Spilococcus		
340. <i>S. mamillariae</i> (Bouche)*	<i>Euphorbia abyssinica</i> , <i>Mammillaria daschyacantha</i>	7
Spinococcus		
341. <i>S. morrisoni</i> (Kiritshenko)	<i>Artemisia</i> sp.	7
342. <i>S. vashlovanicus</i> Danzig	<i>Centaurea</i> sp.	2
Stipacoccus		
343. <i>Stipacoccus torosae</i> Kaydan	<i>Cynodon dactylon</i>	7
Trabutina		
344. <i>T. crassispinosa</i> Borchsenius	<i>Tamarix</i> sp.	1
345. <i>T. manipara</i> (Hemprich & Ehrenberg)	<i>Tamarix</i> sp.	1
Trionymus		
346. <i>T. aberrans</i> Goux	<i>Agropyron</i> sp., <i>A. cristatum</i> , <i>A. repens</i> , <i>Bromus tectorum</i> , <i>Cynodon dactylon</i> , <i>Echium</i> sp., <i>Echinocloa crus-galli</i> , <i>Festuca</i> sp., <i>F. arundinaceae</i> , <i>Hordeum murinum</i> , <i>H. vulgare</i> , <i>Lolium</i> <i>perenne</i> , <i>Triticum</i> sp., <i>T. vulgare</i>	2,7
347. <i>T. cressae</i> (Hall)	<i>Euphorbia</i> sp.	7
348. <i>T. multivorus</i> (Kiritchenko)	<i>Anchusa</i> sp., <i>Bunium</i> sp., <i>Cardaria</i> sp., <i>Caucalis</i> sp., <i>Centaurea solstitialis</i> , <i>C. virgata</i> , <i>Cicer</i> sp., <i>Cichorium intybus</i> , <i>Cirsium</i> sp., <i>C. arvense</i> , <i>Conyza canadensis</i> , <i>Crepis</i> sp., <i>Daucus guttatus</i> , <i>D. littoralis</i> , <i>Diploxaxis tenuifolia</i> , <i>Echinophora</i>	1, 2, 7

Table 1. (Continued)

	<i>tenuifolia</i> , <i>Echium</i> sp., <i>Eryngium</i> sp., <i>E. compestre</i> , <i>Euphorbia</i> sp., <i>Falcaria</i> sp., <i>Ferula</i> sp., <i>Glaucium</i> sp., <i>Lactuca</i> sp., <i>Lithospermum</i> sp., <i>Malva</i> sp., <i>Marrubium</i> sp., <i>Medicago sativa</i> , <i>Nepeta</i> sp., <i>Onobrychis</i> sp., <i>Onopordum</i> sp., <i>Papaver</i> sp., <i>Phlomis</i> sp., <i>Salvia</i> sp., <i>Sedum</i> sp., <i>Sideritis</i> sp., <i>Sonchus</i> sp., <i>Stachys</i> sp., <i>Taraxacum</i> sp., <i>Tragopogon</i> sp., <i>Turgenia</i> sp., <i>Verbascum</i> sp., <i>Xeranthemum</i> sp.	
349. <i>T. perrisii</i> (Signoret)	<i>Aegilops</i> sp., <i>Agropyron</i> sp., <i>Elymus</i> sp., <i>Hordeum murinum</i> , <i>Caucalis</i> (cf) <i>ptatycarpus</i>	2, 7
<i>Volvicoccus</i>		
350. <i>Volvicoccus volvifer</i> (Goux)	<i>Aegilops</i> sp., <i>Stipa</i> sp.	2, 7
PUTOIDAE		
<i>Puto</i>		
351. <i>P. israilensis</i> Ben-Dov	<i>Quercus coccifera</i> , <i>Q. cercis</i>	1
352. <i>P. megriensis</i> (Borchsenius)	<i>Cnicus</i> sp.	2
353. <i>P. palinuri</i> Marotta & Tranfaglia	Poaceae	7
354. <i>P. superbus</i> (Leonardi)	<i>Galium</i> sp., <i>Quercus</i> sp., <i>Digitalis</i> sp.	1, 7
RHIZOECIDAE		
<i>Ripersiella</i>		
355. <i>R. kaydani</i> Konczné Benedicty & Kozár	<i>Narcissus</i> sp.	3
356. <i>R. parva</i> (Danzig)	Undetermined plant	2
357. <i>R. periolana</i> Goux	<i>Stipa</i> sp.	2, 7
358. <i>R. poltavae</i> (Laing)	<i>Veronica</i> sp.	2

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