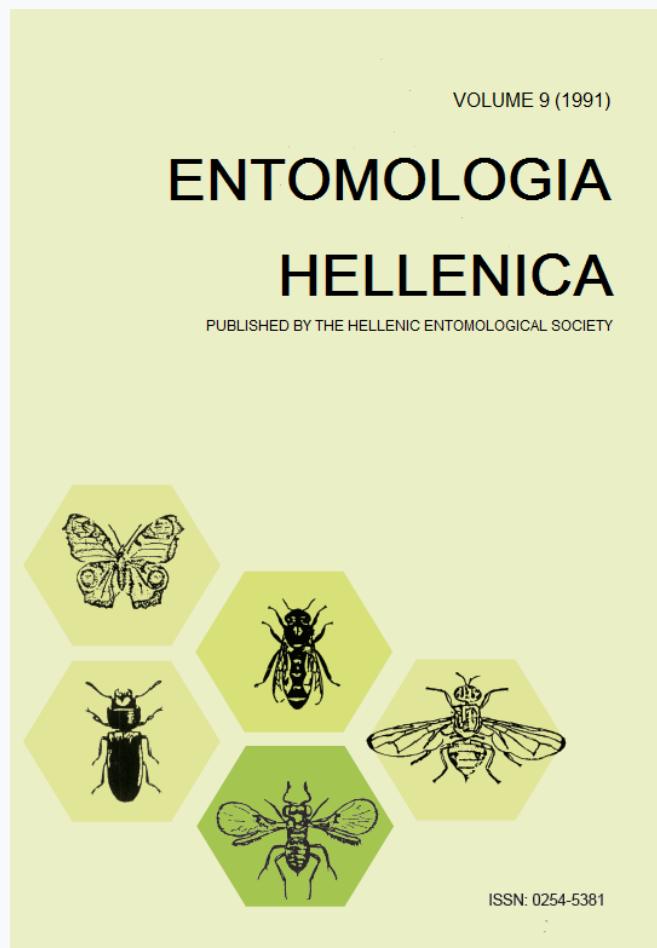


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### New Scale Insects (Homoptera: Coccoidea) in the Greek Entomofauna

F. Kozar, S. Paloukis, N. Papadopoulos

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# New Scale Insects (Homoptera: Coccoidea) in the Greek Entomofauna<sup>1</sup>

F. KOZAR, S. PALOUKIS, N. PAPADOPoulos

Plant Protection Institute, Hungarian Academy of Sciences, Budapest P.O.  
Box 102, H-1525, Hungary and Plant Protection Institute of Thessaloniki, 57001 Thessaloniki,  
Greece

## ABSTRACT

Collection of scale insects in Greece in 1990 - 1991 provided 71 species. Among them, 31 species were new for the Greek fauna. The total number of known species is 143 in Greece. Host plant's levels of infestation and phenological data are also presented. The results show that scale insect fauna of this country needs further intensive studies.

## Introduction

The scale insect fauna of Greece is poorly known. According to Lindinger (1912), Koro-neos (1934), Borchsenius (1966), Paloukis (1979), Argyriou (1983), Kozar (1985), Santas (1989) and Isaakidis (1936), 112 species have been identified. Certain species, cited in applied literature, however, require further study for confirmation.

The present study aimed at investigating further the scale insect fauna in Greece.

## Material and Methods

Two collection surveys were made during 1990-1991 in the areas of Central Macedonia, Attica, Voiotia, Phokis and the islands of Crete, Rhodes, Hydra and Aegina. The dry material and the microscopic slides have been deposited in the Collection of the Plant Protection Institute in Budapest, Hungary. During collection, data such as stage of insect development, sex, plant host and incidence of infestation (F), rated in a scale ranging 1-5 (Kozar and Victorin, 1978), were recorded. Most of the species were collected by the senior author. S.S. Paloukis and N. Papadopoulos participated in

the collection of scale insects in the Macedonia region.

## Results and Discussion

### LIST OF SPECIES

#### ORTHEZIIDAE

*Orthezia urticae* (Linnaeus), Naoussa, 24.10.1990, *Mentha* sp., and unidentified plant, female, larva, F = 4. It was reported earlier by Lindinger (1912).

#### MARGARODIDAE

*Icerya purchasi* Maskell, Athens 16.10.1990, *Parietaria* sp., female, larva, F = 4. Knossos, 18.10.1990, *Parietaria* sp., female, larva, F = 3. Rhodes, 20.10.1990, *Parietaria* sp., female, F = 1. Naoussa, 24.10.1990, *Prunus laurocerasus* var. *atropurpurea*, dead female, F = 3. It was reported earlier by Argyriou (1983).

*Marchalina hellenica* (Gennadius), Hydra, 20.10.1990, *Pinus halepensis*, female, F = 4. Delfi, 21.10.1990, *Pinus halepensis*, female, F = 4. Naoussa, 24.10.1990, *Pinus halepensis*, female, F = 4. Thessaloniki, 9.3.1991, Gramineae sp., in the leaf sheath, dead female, F = 2. *Pinus* sp., on the branch, female, F = 2. It was reported earlier by Argyriou (1983).

#### PSEUDOCOCCIDAE

*Balanococcus mediterraneus* Kozar, Athens Ly-

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cabetus, 17.10.1990, Gramineae sp., in the leaf sheath, female (pink color), male, larva, F = 3. It was reported earlier from Voula (Kozar, 1985).

\* *Balanococcus orientalis* Danzig and Ivanova, Thessaloniki, 9.3.1991, Gramineae sp., *Alopecurus* sp.! in the leaf sheath, female, F = 1. It is a new species to the European fauna.

*Chaetococcus phragmitis* (Marchal), Iraklio 19.10.1990, *Phragmites communis*, female, larva, F = 2. It was reported earlier from Karavomilos (Kozar, 1985).

*Chorizococcus viktorina* Kozar, Agios Prodromos (Galatista), 25.10.1992, *Chrysopogon gryllus*, female (pink colour), larva, eggs, F = 1. It was reported earlier from Karavomilos (Kozar 1985).

\* *Mirococcopsis elongatus* Borchsenius, Athens (Lycabetus), 17.10.1990, *Hypoheria hirta*, in the leaf sheath, female, F = 1. It is a new species to the Greek fauna.

\* *Peliococcus kimmericus* Kiritchenko, Heraklio (Ampelokipi), 18.10.1990, *Cynodon dactylon*, in the leaf sheath, female, F = 1, *Piptatherum miliaceum*, in the leaf sheath, female, F = 1. It is a new species to the Greek fauna.

\* *Peliococcus* sp. Athens (Lycabetus), 17.10.1990, *Piptatherum miliaceum*, on the leaves, female, larva, F = 1. Supposedly it is a new species to science.

\* *Phenacoccus bicerarius* Borchsenius, Heraklio, 19.10.1990, *Elymus (Pycnanthus) furcatus*, in the leaf sheath, female (pink colour), F = 2. It is a new species to the Greek fauna.

*Planococcus citri* (Risso), Athens, 16.10.1990, *Conyza canadensis*, on the stem, female, larva, F = 4. Heraklio 18.10.1990, *Parietaria judaica*, on the stem, female, F = 4. *Oleander* sp., on the leaves, female, F = 1. *Hydra*, 20.10.1990, *Parietaria* sp., female, larva, F = 3. Naoussa, 24.10.1990, *Cactaceae* sp., female, F = 3. It was reported earlier by Argyriou (1983).

\* *Pseudococcus calceolariae* (Maskell), Athens (Lycabetus), 17.10.1990, *Morus* sp., on the leaves, female, F = 1. It is a new species to the Greek fauna.

\* *Pseudococcus obscurus* Essig, Naoussa, 24.10.1990, *Mahonia* sp., female, second instar larvae, F = 1. *Robinia pseudoacacia*, female, F = 1. It is a new species to the Grecian fauna.

*Puto superbis* Leonardi, Thessaloniki, 9.3.1991, *Compositae* sp., on the stem, second instar larvae, F = 1. Unidentified bush, female, F = 1. It was reported earlier by Argyriou (1983).

\* *Trionymus aberrans* Goux, Athens 16.10.1990, *Oryzopsis* sp., in the leaf sheath, female, F = 2. Athens (Lycabetus), 17.10.1990, *Piptatherum miliaceum*, female (purple colour), F = 3. Heraklio (Ampelokipi), 18.10.1990, *Piptatherum miliaceum*, in the leaf sheath, female (pink and purple colour), F = 1. Aegina, 20.10.1990, *Oryzopsis* sp., in the leaf sheath, female, F = 2. Rhodes, 20.10.1990, *Oryzopsis* sp., in the leaf sheath, female, F = 1. Delphi, 21.10.1990, *Oryzopsis* sp., in the leaf sheath, female, F = 1. Thessaloniki, 28.10.1990, Unidentified plant, female, F = 1. It is a new species to the Greek fauna.

#### ERIOCOCCIDAE

\* *Acanthococcus greeni* (Newstead), Agios Prodromos (Galatista), 25.10.1990, *Chrysopogon gryllus*, dead female, F = 1. It is a new species to the Greek fauna.

\* *Acanthococcus munroi* Boratynski, Knossos, 18.10.1990, *Sarcopoterium spinosa*, on the branch, female (red color), eggs, F = 2. Heraklio, 19.10.1990, *Sedum* sp., female, F = 1. Levadia, 21.10.1990, *Conyza canadensis*, dead female eggs, F = 1. It is a new species to the Greek fauna.

\* *Eriococcus buxi* (Fonscolombe), Naoussa, 24.10.1990, *Buxus* sp., female, F = 2. It is a new species to the Greek fauna.

\* *Gossyparia spuria* (Modeer), Naoussa, 24.10.1990, *Ulmus minor*, dead female, F = 1. It is a new species to the Greek fauna.

\* *Rhizococcus agropyri* Borchsenius, Heraklio 19.10.1990, *Cynodon dactylon*, female, larva, F = 3. It is a new species to the Greek fauna.

*Rhizococcus cynodontis* (Kiritchenko), Knossos, 18.10.1990, *Cynodon dactylon*, female, larva, F = 4. *Hypoheria hirta*, female, F = 1. *Elymus (Pynanthus) furcatus*, on the leaves, female, F = 1. *Sedum* sp., female, F = 1. Delphi, 21.10.1990, *Cynodon dactylon*, female, F = 1. Levadia, 21.10.1990, *Cynodon dactylon*, female, larva, eggs, F = 3. Naoussa, 24.10.1990, *Cynodon dactylon*, female, eggs, F = 2. It was reported earlier in Meteora and Thermopiles by Kozar (1985).

*Rhizococcus herbaceus* Danzig, Athens (Lycabetus), 17.10.1990, *Piptatherum miliaceum*, in

\* Species marked with an asterisk denote new records in Greece.

the leaf sheath, female, F = 1. It was reported earlier in Voula (Kozar, 1985).

#### KERMESIDAE

*Kermes ilicis* (Linnaeus), Delphi, 21.10.1990, *Quercus ilex*, female, F = 1. It was reported earlier by Argyriou (1983).

\* *Kermes quercus* (Linnaeus), Agios Prodromos (Galatista), 25.10.1990, *Quercus sp.*, dead female, F = 1. It is a new species to the Greek fauna.

*Kermes vermilio* (Planchon), Agios Prodromos (Galatista), 25.10.1990, *Quercus coccifera*, dead female, F = 1. It was reported earlier by Argyriou (1983).

#### CEROCCOCCIDAE

*Pollinia pollini* (Costa), Crete, 24.10.1990, *Olea sp.*, female, F = 1. It was reported earlier by Argyriou (1983).

#### COCCIDAE (LECANIIDAE)

*Ceroplastes rufi* (Linnaeus), Athens, 16.10.1990, *Albizzia sp.*, female, larva, F = 2. *Pittosporum sp.*, female larva, F = 1. Heraklio 18.10.1990, *Oleander sp.*, on the leaves, female, F = 1. Knossos, 18.10.1990. *Osiris alba*, on the branch, female, larva, F = 3. Hydra, 20.10.1990, *Ficus sp.*, female, larva, F = 3. It was reported earlier by Argyriou (1983).

*Coccus hesperidum* Linnaeus, Athens 16.10.1990, *Albizzia sp.*, female, F = 4. *Caragana sp.*, or *Cytisus sp.*, female, F = 1. *Citrus sp.*, female, larva, F = 3. *Hedera helix*, female, F = 1. *Ricinus sp.*, female, larva, F = 4. Knossos, 18.10.1990, *Iris crenata*, female, larva, F = 1. Naoussa, 24.10.1990, *Mahonia sp.*, female, F = 1. It was reported earlier by Argyriou (1983).

\* *Eulecanium ciliatum* (Douglas), Agios Prodromos (Galatista), 25.10.1990, *Quercus sp.*, dead female, F = 1. It is a new species to the Greek fauna.

*Lichtenia viburni* Signoret, Knossos, 19.10.1990, *Osiris alba*, on the branch, dead female, larva, F = 3. Levadia, 21.10.1990, *Olea sp.*, female larva, F = 3. It was reported earlier by Argyriou (1983).

*Parthenolecanium corni* (Bouche), Athens (Lycabetus), 17.10.1990, *Morus sp.*, female, F = 1. Knossos, 18.10.1990, *Ulmus minor sp. canescens*, dead female, F = 3. Levadia, 21.10.1990, *Juglans sp.*, dead female, F = 1. Naoussa, 24.10.1990, *Robinia pseudoacacia*, female, F = 1. It was reported earlier by Argyriou (1983).

\* *Parthenolecanium rufulum* (Cockerell), Agios Prodromos (Galatista), 25.10.1990, *Quercus sp.*, dead female, F = 1. It is a new species to the

Greek fauna.

*Pulvinaria betulae* Linnaeus, Naoussa, 24.10.1990, *Pyracantha coccinea*, dead female, F = 1. It was reported earlier by Argyriou (1983).

*Pulvinariella mesembryanthemi* (Vallot), Heraklio (Ampelokipi), 18.10.1990, *Mesembryanthemum sp.*, female, F = 1. It was reported earlier by Argyriou (1983).

*Saissetia coffeae* (Walker), Athens 16.1.1990, *Albizzia sp.*, dead female, F = 4. *Pittosporum sp.*, female, larva, F = 3. It was reported earlier by Argyriou (1983).

*Saissetia oleae* (Olivier), Knossos, 18.10.1990, *Crataegus monogyna*, dead female, F = 1. *Malva silvestris*, on the branch, female, F = 1. It was reported earlier by Argyriou (1983).

\* *Scythia festuceti* (Sulc.), Athens (Lycabetus), 17.10.1990, *Hyporheria hirta*, on the leaves, female, F = 2, *Festuca sp.*, female, eggs, F = 2. It is a new species to the Greek fauna.

*Sphaerolecanium prunastri* (Fonscolombe), Knossos, 18.10.1990, *Amygdalus communis*, dead female, F = 3. It was reported earlier by Argyriou (1983).

#### DIASPIDIDAE

\* *Abgrallaspis cyanophylli* (Signoret), Athens 16.10.1990, *Mesembryanthemum sp.*, female, male, F = 3. Heraklio (Ampelokipi), 18.10.1990, *Mesembryanthemum sp.*, on the leaves, female, male, F = 3. It is a new species to the Greek fauna.

\* *Acanthomytilus jablonowskyi* Kozar and Matile - Ferrero, Agios Prodromos (Galatista), 25.10.1990, *Chrysopogon gryllus*, female (white color), F = 2. Thessaloniki (Rentziki), 5.3.1991, *Chrysopogon gryllus*, on the stem and in the leaf sheath, female, F = 1. Thessaloniki, 9.3.1991, *Chrysopogon gryllus*, female (white color), F = 2. It is a new species to the Greek fauna.

\* *Acanthomytilus intermittens* (Hall), Heraklio (Ampelokipi), 18.10.1990, *Cynodon dactylon*, in the leaf sheath, female, F = 3. Knossos, 18.10.1990, *Cynodon dactylon* female, eggs, F = 3. *Oryzopsis sp.*, in the leaf sheath, female (white color), F = 2. Heraklio, 19.10.1990, *Cynodon dactylon*, female, larva, F = 2. It is a new species to the Greek fauna.

*Aonidia lauri* (Bouche), Athens 16.10.1990, *Albizzia sp.*, female, F = 1. *Citrus sp.*, female, F = 3. It was reported earlier by Argyriou (1983).

\* *Aonidia maroccana* Balachowsky, - Thessalo-

niki, 9.3.1991, *Cyprus* sp., on the branch, female, second instar larva, F = 3. It is a new species to the Greek fauna.

\* *Aonidiella citrina* (Coquillett), - Rhodes, 20.10.1990, *Laurus* sp., female, F = 1. It is a new species to the Greek fauna.

*Aspidiotus nerii* Bouche, Athens 16.10.1990, *Hedera helix*, female, male, F = 2. Athens (Lycabetus), 17.10.1990, *Capparis spinosa*, on the stem, female, male F = 2. Heraklio, 18.10.1990, *Capparis spinosa*, on the stem, female, F = 2. *Oleander* sp., on the leaves, female, larva, eggs, F = 4. *Pittosporum* sp., on the leaves, female, F = 4. Knossos, 18.10.1990, *Agave americana*, female, F = 3. *Convolvulus* sp., female, F = 2. *Eucalyptus* sp., on the stem, female, male, F = 3. *Iris craetensis*, female, F = 2. *Malva silvestris*, female F = 1. *Vitis* sp., female, F = 2. Heraklio, 19.10.1990, *Sedum* sp., female, F = 3. Aegina, 20.10.1990, *Ampelopsis* sp., on the branch and berry, female, F = 2. Hydra, 20.10.1990, *Capparis spinosa*, female, F = 2. Rhodes, 20.10.1990, *Hedera* sp., female, F = 2. Hydra, 20.10.1990, *Capparis spinosa*, female, F = 2. Rhodes, 20.10.1990, *Hedera* sp., female, F = 2. It was reported earlier by Argyriou (1983).

\* *Aulacaspis rosae* (Bouche), Heraklio, 18.10.1990, *Rosa* sp., on the branch, female, F = 3. It is a new species to the Greek fauna.

*Carulaspis juniperi* (Bouche), Thessaloniki, 9.3.1990, *Cyprus* sp., on the stem female, F = 1. It was reported earlier by Argyriou (1983) as *C. visci*.

*Carulaspis minima* Targioni - Tozzetti, Thessaloniki, 9.3.1991, *C. visci* sp., on the stem, female, F = 1. It was reported earlier from Greece by Kozar (1985).

\* *Diaspidiotus osborni* (Newell and Cockerell), Knossos, 18.10.1990, *Platanus orientalis*, on the leaves and bark, female, F = 3. It is a new species to the Greek fauna.

*Diaspis echinocacti* (Bouche), Athens (Lycabetus), 17.10.1990, Cactaceae sp., female, F = 1. It was reported earlier by Argyriou (1983).

*Discodiaspis salicorniae* Gomez - Menor, Aegina, 20.10.1990, *Euphorbia triflora*, female, male, F = 1. It was reported earlier by Borchsenius (1966).

\* *Duplachionaspis stanophri* Cooley, Knossos 18.10.1990, *Arundo donax*, on the leaves, female (red color), first instar larvae, eggs, F = 1. *Hypoperheria hirta*, dead female, F = 3. Rhodes, 20.10.1990, *Andropogon hirtus*, female, F = 1. It is a new species to the Greek fauna.

\* *Dynaspidiotus greeni* Balachowsky, Knossos, 18.10.1990, *Osiris alba*, female, F = 1. It is a new species to the Greek fauna.

*Lepidosaphes beckii* (Newman), Rhodes, 20.10.1990, *Citrus aurantium*, female, F = 2. It was reported earlier by Argyriou (1983).

\* *Lepidosaphes malicola* Borchsenius, Athens, 16.10.1990, *Cercis siliquastrum*, female, F = 4. It is a new species to the Greek fauna.

\* *Lepidosaphes minima* (Newstead), Knossos, 18.10.1990, *Ulmus minor* ssp. *canescens*, on the branch and stem, female, eggs, F = 3. Hydra, 20.10.1990, *Ficus* sp., female, F = 3. It is a new species to the Greek fauna.

*Lepidosaphes ulmi* (Linnaeus), Athens, 16.10.1990, *Cercis siliquastrum*, female, F = 4. Aegina, 20.10.1990, *Ampelopsis* sp., female F = 3. It was reported earlier by Argyriou (1983).

*Leucaspis loewi* Colvee, Knossos, 18.10.1990, *Pinus halepensis*, on the leaves, female, larva, F = 2. It was reported earlier by Borchsenius (1966).

*Leucaspis pini* Hartig, Thessaloniki, 9.3.1991, *Pinus* sp., female, second instar larvae, pupa, F = 1. It was reported earlier by Borchsenius (1966).

*Leucaspis pusilla* Low, Hydra, 20.10.1990, *Pinus halepensis*, female, F = 2. It was reported earlier by Borchsenius (1966).

\* *Lineaspis ciliciae* Balachowsky, Athens (Lycabetus), 21.10.1990, *Thuja* sp., female, F = 1. It is a new species to the Greek fauna.

*Melanaspis inopinata* (Leonardi), Athens, 16.10.1990, *Cercis siliquastrum*, female, F = 1. It was reported earlier by Borchsenius (1966).

\* *Mohelaspis massiliensis* (Goux), Agios Prodromos (Galatista), 25.10.1990, *Vulpia bromoides*, female (orange and yellow color), F = 3. It is a new species to the Greek fauna.

*Parlatoria oleae* (Colvee), Athens (Lycabetus), 17.10.1990, *Olea* sp., female, male, F = 3. *Rosa* sp., on the leaves, female, male, F = 1. Heraklio, 18.10.1990, *Persica vulgaris*, on the branch, female, male, F = 3. Knossos, 18.10.1990, *Crataegus monogyna*, female, F = 2. Levadia, 21.10.1990, *Olea* sp., female, male, larva, F = 2. Naoussa, 24.10.1990, *Mahonia* sp., female, F = 2. It was reported earlier by Argyriou (1983).

*Pseudaulacaspis pentagona* (Targioni - Tozzetti), Heraklio, 18.10.1990, *Morus* sp., on the branch, female F = 3. Naoussa, 24.10.1990, *Robinia pseudoacacia*, female, F = 3. It was reported earlier by Argyriou (1983).

*Quadrasipidiotus ceconii* Leonardi, Athens (Ly-

cabetus), 17.10.1990, *Ephedra* sp., on the stem, female, F = 1. Delphi, 21.10.1990, *Ephedra* sp., female, F = 2. It was reported earlier by Borchsenius (1966).

*Quadraspidiotus perniciosus* (Comstock), Naoussa, 24.10.1990, *Prunus domestica*, female, F = 3. It was reported earlier by Argyriou (1983).

\* *Rhizaspidiotus donacis* Leonardi, Knossos, 18.10.1990, *Arundo donax*, in leaf sheath, female (white color), F = 1. It is a new species to the Greek fauna.

*Targionia vitis* (Signoret), Naoussa, 24.1.1990. *Platanus* sp., female F = 1. It was reported earlier by Argyriou (1983).

*Unaspis euonymi* (Comstock), Naoussa, 24.10.1990, *Euonymus japonica*, female, F = 4. Thessaloniki, 9.3.1991, *Euonymus japonica*, on the stem, female (yellow color), male, eggs, F = 3. It was reported earlier by Argyriou (1983).

In the present work 31 new species were identified. Considering the fact that all these new records were made in few places in Greece, it shows that the scale - insect fauna of Greece needs further investigation. One species is supposedly new to science, while one has been recorded for the first time in Europe.

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**KEY WORDS:** Fauna, Homoptera, Coccoidea, Greece, new records.

## Νέα Είδη Κοκκοειδών Εντόμων (Homoptera: Coccoidea) για την Ελληνική Πανίδα

F. KOZAR, Σ. ΠΑΛΟΥΚΗΣ, Ν. ΠΑΠΑΔΟΠΟΥΛΟΣ

Ινστιτούτο Προστασίας Φυτών, Ουγγρική Ακαδημία Επιστημών,  
Βουδαπέστη, Τ.Θ. 102, H-1525, Ουγγαρία,  
Ινστιτούτο Προστασίας Φυτών Θεσσαλονίκης,  
57001 Θέρμη, Θεσσαλονίκη

### ΠΕΡΙΛΗΨΗ

Η γνώση της πανίδας των κοκκοειδών εντόμων της Ελλάδος είναι περιορισμένη. Για το λόγο αυτό έγινε προσπάθεια συλλογής και αναγνώρισης τέτοιων εντόμων κατά τη διετία 1990-91.

Κατά τη συλλογή αυτή συλλέχθησαν 71 είδη, που ανήκουν σε οκτώ οικογένειες, συγκεκριμένα στις Ortheziidae, Margarodidae, Pseudococcidae, Eriococcidae, Kermesidae, Cerococcidae, Coccoidae και Diaspididae. Τα 31 ήταν νέα για την ελληνική πανίδα. Καταγράφηκαν επίσης το επίπεδο προσβολής, τα φυτά ξενιστές, καθώς επίσης και φαινολογικά δεδομένα. Τα αποτελέσματα δείχνουν ότι η πανίδα των κοκκοειδών εντόμων στη χώρα μας χρειάζεται επιπλέον μελέτη.