A CATALOG OF ACARI
OF THE HAWAIIAN ISLANDS

M. Lee Goff
ACKNOWLEDGMENTS

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THE AUTHOR

M. Lee Goff is an assistant entomologist, Department of Entomology, College of Tropical Agriculture and Human Resources, University of Hawaii.

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ABSTRACT

Records are given for 466 species of Acari representing 104 families and five suborders in the Hawaiian Islands. For each taxon, distribution within the Hawaiian Islands, hosts or associations, and literature citations are given.

Keywords: Acari; mites; Hawaiian Islands

INTRODUCTION

The Hawaiian Islands are a geologically young chain of oceanic islands, far removed from the nearest continent or high islands, with a disharmonic fauna (Early and Goff, 1986). While historically there has been a major emphasis on the study of both applied and basic entomology in the Hawaiian Islands, little specific attention was focused on the acarine fauna prior to the initiation of the International Biological Program in 1970. Before this, most reports of acarines in the literature dealt with introduced taxa primarily of agricultural significance, such as the spider mites of the family Tetranychidae or the predatory Phytoseiidae used as biological control agents. These reports were most frequently in the form of short notes presented in the Proceedings of the Hawaiian Entomology Society, and few in-depth studies were conducted even of species of major agricultural importance.

Garrett and Haramoto (1967) assembled the scattered references to the Hawaiian acarines and presented the first catalog of species for the area in 1967. Uhis work listed a total of 210 species in 67 families, along with distribution and host or association data. Subsequently, Tenorio et al. (1985) treated the Gamasida alone and presented records for 132 species, along with distribution data. The listing given here is the result of a survey of the Acari in the Hawaiian Islands conducted since 1983. Records are based on searches of earlier literature and results of collection efforts on the various islands in the chain by the author and others. A total of 466 species of acarines is reported here, representing 104 families in five of the major suborders of Acari: Ixodida, Gamasida, Actinedida, Acaridida, and Oribatida. While this listing represents a substantial increase in the number of acarine taxa reported from the Hawaiian Islands, it must not be viewed as a complete listing. The catalog rather should be viewed as a progress report and should call attention to the need for more detailed considerations of the Hawaiian Acari. As noted by Strandtmann and Goff (1978) and Tenorio et al. (1985), endemicity of acarines in the Hawaiian Islands is exceptionally difficult to determine, with species such as Eupodes sigmoidensis Strandtmann & Goff, 1978, known only from collections made in the Hawaiian Islands and on the Gold Coast of Africa. For this reason, no attempt to assess endemicity is attempted here.
For each species listed, the currently accepted scientific name is given, as well as distribution by islands, recorded hosts or associations, and literature citations pertinent to Hawaiian records. Families are listed alphabetically, as are genera and species under their respective higher taxa. Some taxa are known from literature only as "sp.," "n. sp.," and so on; others have not yet been identified to species level or are known to represent undescribed taxa. These are listed as Genus sp. Less frequently a comparable situation occurs at the generic level; these examples are listed only by family.

Distributions are restricted to the Hawaiian Islands. The Hawaiian Islands for this catalog include the Northwestern Hawaiian Islands, Midway Islands, and Kure Atoll. While all are geologically in the Hawaiian Archipelago, jurisdictional considerations have caused deletion of certain islands from some treatments of the Hawaiian Islands. In many cases in earlier literature, no specific islands within the chain can be associated with records for given species (this happens less frequently in recent literature). In these cases, the distribution is given as "Hawaiian Islands."

Hosts or associations are given by scientific name whenever possible. If there is any question as to the actual species involved, the original data are listed. Records of taxa reported for the first time for the Hawaiian Islands, for islands within the chain, and for new hosts or associations for Hawaii are indicated by an asterisk (*). Comments are occasionally given for records.

The literature search for this catalog was completed in September 1986, and identifications of taxa collected were added through October 1986.
ORDER PARASITIFORMES

Suborder Ixodida

Family Argassidae

**Ornithodoros capensis** Neumann, 1901
- Islands: Laysan
- Hosts: *Diomedia immutabilis; Diomedia nigripes; Puffinus pacificus*
- Literature: Amerson, 1966; Garrett and Haramoto, 1967; Takahashi et al., 1982; Wilson, 1964b

**Ornithodoros "capensis group"**
- Islands: French Frigate Shoals; Kure Atoll; Necker; Oahu; Pearl and Hermes Reef
- Hosts: *Anous stolidus; Diomedia nigripes; "albatross"*

**Ornithodoros denmarki** Kohls, Sonenshine & Clifford, 1965
- Islands: Manana; Oahu
- Hosts: *Anous stolidus pileatus*
- Literature: Garrett and Haramoto, 1967; Kohls, Sonenshine and Clifford, 1965; Takahashi et al., 1982

**Otobius megnini** (Duges, 1884)
- Islands: Hawaii; Kahoolawe; Maui; Molokai; Oahu; "Hawaiian Islands"
- Hosts: Cattle; sheep
- Literature: Alicata, 1941; Bonnet, 1948a; Cuckler, 1943; Cuckler and Alicata, 1943; Garrett and Haramoto, 1967

Family Ixodidae

**Amblyoma americana** (Linnaeus, 1758)
- Islands: Oahu (Quarantine Station)
- Hosts: *Canis familiaris*
- Literature: Garrett and Haramoto, 1967; Joyce, 1965a

**Amblyoma nuttalli** Donitz, 1909
- Islands: Oahu
- Hosts: *Geochelone pardalis* (shipped from Kenya)
- Literature: Goff, 1985

**Dermacentor albipictus** (Packard, 1869)
- Islands: Oahu; "Hawaiian Islands"
- Hosts: Horses
- Literature: Fullaway, 1959; Garrett and Haramoto, 1967; Joyce, 1959

**Dermacentor variabilis** (Say, 1821)
Islands: Oahu (Quarantine Station)
Hosts: Dogs
Literature: Davis, 1964; Garrett and Haramoto, 1967; unpublished records, 1985

**Haemaphysalis wellingtoni** Nuttall & Warburton, 1915
Islands: Oahu (Quarantine Station)
Hosts: Malay Argus pheasant (shipped from Thailand)
Literature: Garrett and Haramoto, 1967; Joyce, 1965b

**Ixodes laysanensis** Wilson, 1964
Islands: Laysan; Nihoa*
Hosts: Anas laysanensis; Arenaria interpres; *Diomedia immutabilis*; unattached specimens
Literature: Wilson, 1964b

**Ixodes pacificus** Cooley & Kohls, 1943
Islands: Oahu (Quarantine Station)
Hosts: Canis familiaris
Literature: Garrett and Haramoto, 1967; Joyce, 1961

**Rhipicephalus sanguineus** Latrielle, 1806
Islands: Hawaii; Kauai; Maui; Oahu; "Hawaiian Islands"
Hosts: Canis familiaris; Felis domesticus
Literature: Alicata, 1947; Bonnet, 1948a; Fullaway, 1922; Garrett and Haramoto, 1967; Pemberton, 1943; Van Zwaluwenburg, 1934

**Suborder Gamasida**

**Family Ameroseiidae**

**Afrocypholaelaps africana** (Evans, 1963)
Islands: Hawaii
Hosts: Hylaenus pubescens
Literature: Daly and Coville, 1982; Tenorio et al., 1985

**Neocypholaelaps lindquisti** Prasad, 1968
Islands: Oahu
Hosts: Achaea janata; "bees"
Literature: Delfinado-Baker and Baker, 1983; Prasad, 1968a; Tenorio et al., 1985

**Family Ascidae**

**Asca aphidoides** (Linnaeus, 1758)
Islands: Oahu
Associations: Eucalyptus litter
Literature: Garrett and Haramoto, 1967; Hurlbutt, 1963; Tenorio et al., 1985

**Asca craneta** DeLeon, 1967*
Islands: Oahu*
Associations: Cat carcasses;* human remains*

**Asca duosetosa** Fox, 1946*
Islands: Nihoa;* Oahu*
Associations: Litter samples*

**Asca garmani** Hurlbutt, 1963
Islands: Hawaii; Oahu
Associations: Portuguese cypress; banana litter; sugarcane litter
Literature: Garrett and Haramoto, 1967; Hurlbutt, 1963; Tenorio et al., 1985

**Asca pineta** DeLeon, 1967
Islands: Hawaii; Kure Atoll
Associations: Metrosideros litter; soil samples
Literature: Goff, 1983; Tenorio et al., 1985

**Asca quinquesetosa** Wharton, 1941
Islands: Kure Atoll; Oahu
Associations: Thevetia peruviana; Stephanotis floribundus; litter and soil
Literature: Garrett and Haramoto, 1967; Goff, 1983k; Hurlbutt, 1963; Tenorio et al., 1985

**Asca spicata** Hurlbutt, 1963
Islands: Hawaii; Oahu
Associations: Cordyline terminalis; Metrosideros collina; litter inside of steam vent on Mauna Loa Volcano
Literature: Garrett and Haramoto, 1967; Goff et al., 1979; Hurlbutt, 1963; Tenorio et al., 1985

**Blattisocius dendriticus** (Berlese, 1918)
Islands: Oahu
Associations: Furniture shipped from Japan
Literature: Garrett and Haramoto, 1967; Tenorio et al., 1985

**Blattisocius keegani** (Fox, 1947)
Islands: Oahu
Associations: Rattus sp.
Literature: Garrett and Haramoto, 1967; Tenorio et al., 1985

**Blattisocius tarsalis** (Berlese, 1918)
Islands: Hawaii
Associations: Nest of Hawaiian crow (Corvus tropicus)
Literature: Garrett and Haramoto, 1967; Tenorio et al., 1985

**Cheiroserius serratus** (Halbert, 1915)
Islands: Kauai
Associations: Mosses in stream
Literature: Goff, 1983; Tenorio et al., 1985

Cheiroseius sp. nr. necorniger (Oudemans)
Islands: Hawaii
Associations: Grasses; litter and vegetation in steam vent on Mauna Loa Volcano
Literature: Goff, et al., 1979; Tenorio et al., 1985

Cheiroseius sp.
Islands: Hawaii
Associations: Vegetation associated with steam vents on Mauna Loa Volcano
Literature: Goff et al., 1979; Tenorio et al., 1985

Gamaselloides "bicolor complex"
Islands: Hawaii
Associations: Soil samples
Literature: Radovsky and Tenorio, 1974; Tenorio et al., 1985

Iphidozercon californicus Chant, 1963
Islands: Hawaii
Associations: Metrosideros litter; koa litter
Literature: Tenorio et al., 1985

Lasioseius subterraneus Chant*
Islands: Oahu*
Associations: Thrips palmi culture in insectary*

Lasioseius sugawarai Ehara, 1964
Islands: Hawaii
Associations: Soil samples
Literature: Radovsky and Tenorio, 1974; Tenorio et al., 1985

Proctolaelaps bickleyi (Bram, 1956)
Islands: "Hawaiian Islands"
Associations: Wood cuttings
Literature: Chant, 1963; Garrett and Haramoto, 1967; Tenorio et al., 1985

Proctolaelaps lobatus DeLeon, 1963
Islands: Oahu
Associations: Unidentified Noctuidae
Literature: Prasad, 1968a; Tenorio et al., 1985

Proctolaelaps pygmaeus (Muller, 1859)
Islands: Hawaii; Oahu
Associations: Cryptophlebia illepida; red beet tuber; litter in forest
Literature: Garrett and Haramoto, 1967; Tenorio et al., 1985
Proctolaelaps n. sp. nr. aciculatus*

Islands: Oahu*
Associations: Cat carcasses;* human remains*

Protogamasellus sp. nr. massula

Islands: Kauai; Hawaii
Associations: Mosses under hau tree; leaf litter
Literature: Goff, 1983j; Tenorio et al., 1985

Family Dermanyssidae

Dermanyssus gallinae (DeGeer, 1778)

Islands: "Hawaiian Islands"
Hosts: Domestic chickens; man
Literature: Alicata, 1947; Bice, 1932; Garrett and Haramoto, 1967; Pemberton, 1943; Tenorio et al., 1985

Family Diplogyniidae

Unidentified Diplogyniidae

Islands: Kauai
Associations: Leaf litter
Literature: Goff, 1983j; Tenorio et al., 1985

Family Halarachnidae

Halarachne laysanae Furman & Dailey, 1980

Islands: Laysan; Oahu (Waikiki Aquarium)*
Hosts: Monachus schauinsandi
Literature: Furman and Dailey, 1980; Tenorio et al., 1985

Pneumonyssoides caninum (Chandler & Ruhe, 1940)

Islands: Oahu
Hosts: Canis familiaris
Literature: Bonnet, 1952; Garrett and Haramoto, 1967; Tenorio et al., 1985

Family Icthyostomatogasteridae*

Unidentified Icthyostomatogasteridae

Islands: Oahu*
Associations: Leaf litter

Family Laelapidae

Androlaelaps casalis (Berlese, 1887)

Islands: Hawaii; Oahu
Associations: Nest of Lorchura punctulata; Canis familiaris, coconut
Literature: Chilson, 1954; Garrett and Haramoto, 1967; Tenorio et al., 1985

Androlaelaps hermaphrodit (Berlese, 1903)
Islands: Hawaii; Kahoolawe; Midway Islands; Oahu
Hosts: Mus musculus; Rattus exulans; Rattus norvegicus; Rattus rattus; "rat nests"
Literature: Garrett and Haramoto, 1967; Joyce, 1962; Mitchell, 1964a; Tenorio and Goff, 1980; Tenorio et al., 1985

Cosmolaelaps diversichaetos Grochovskaya & Nguyen-Huan-Hoe, 1961
Islands: Oahu
Hosts: Scolopendra subspinipes
Literature: Garrett and Haramoto, 1967; Tenorio et al., 1985

Echinonyssus butantanensis (Fonseca, 1932)
Islands: Hawaii
Hosts: Mus musculus; Rattus exulans; Rattus rattus
Literature: Garrett and Haramoto, 1967; Tenorio and Goff, 1980; Tenorio et al., 1985

Eulaelaps stabularis (Koch, 1836)
Islands: Hawaii
Hosts: Mus musculus; Rattus exulans; Rattus rattus
Literature: Garrett and Haramoto, 1967; Tenorio and Goff, 1980; Tenorio et al., 1985

Hypoaspis aculeifer (Canestrini, 1884)
Islands: Hawaii; Pearl and Hermes Reef; Oahu*
Associations: Leaf litter; sand and Eragrostis sp.; Thrips palmi culture*
Literature: Radovsky and Tenorio, 1981a; Tenorio, 1982; Tenorio et al., 1985

Hypoaspis australica (Sellnick, 1935)
Islands: Hawaii
Hosts: Mus musculus
Literature: Tenorio, 1982; Tenorio et al., 1985

Hypoaspis miles (Berlese, 1892)
Islands: Hawaii; Kure Atoll; Oahu
Associations: Rattus exulans; Rattus rattus; Rattus sp. nest; tree-hole litter
Literature: Garrett and Haramoto, 1967; Mitchell, 1964a; Tenorio et al., 1985

Hypoaspis sp. nr. glabrosimilis Hirschmann, 1969
Islands: Hawaii; Maui
Hosts: Rattus exulans; Rattus rattus
Literature: Tenorio, 1982; Tenorio et al., 1985

Hypoaspis queenslandicus (Womersley, 1952)
Islands: Hawaii
Associations: Moss-grass-fern association in steam vent on Mauna Loa Volcano
Literature: Goff et al., 1979; Tenorio, 1982; Tenorio et al., 1985
Hypoaspis sardoa (Berlese, 1911)
Islands: Hawaii
Hosts: Mus musculus; Rattus exulans; Rattus rattus
Literature: Radovsky and Tenorio, 1981b; Radovsky et al., 1979; Tenorio, 1982; Tenorio et al., 1985

Hypoaspis scimita (Womersley, 1956)
Islands: Hawaii; Kure Atoll; Maui; Midway Islands
Associations: Metrosideros litter; Coccoloba litter; Rattus exulans; Rattus rattus
Literature: Tenorio, 1982; Tenorio et al., 1985

Laelaps echidnina Berlese, 1887
Islands: Hawaii; Kauai; Kure Atoll; Maui; Midway Islands; Oahu
Hosts: Mus musculus; Rattus exulans; Rattus norvegicus; Rattus rattus
Literature: Cole and Koepke, 1947; Garrett and Haramoto, 1967; Goff, 1983f; Mitchell, 1964a, b; Pemberton, 1943; Radovsky et al., 1979; Strandtmann and Wharton, 1958; Tenorio and Goff, 1980; Tenorio et al., 1985

Laelaps nuttalli Hirst, 1915
Islands: Hawaii; Kure Atoll; Oahu; Popioa; Maui
Hosts: Mus musculus; Rattus exulans; Rattus norvegicus; Rattus rattus; rat nest; inactive bird nest
Literature: Bonnet, 1948b; Cole and Koepke, 1947; Ewing, 1924; Garrett and Haramoto, 1967; Mitchell, 1964a, b; Pemberton, 1943; Radovsky et al., 1979; Strandtmann and Wharton, 1958; Tenorio and Goff, 1980; Tenorio et al., 1985

Pseudoparasitus annectans (Womersley, 1955)
Islands: Hawaii
Hosts: Mus musculus; Rattus sp.
Literature: Radovsky et al., 1979; Tenorio, 1982; Tenorio et al., 1985

Pseudoparasitus stigmaticus (Fox, 1946)
Islands: Hawaii; Maui
Hosts: Mus musculus; Rattus rattus
Literature: Radovsky and Tenorio, 1981a; Tenorio, 1982; Tenorio et al., 1985

Pseudoparasitus tasmanicus (Womersley, 1956)
Islands: Hawaii; Pearl and Hermes Reef
Hosts: Rattus rattus; soil and grasses
Literature: Tenorio, 1982; Tenorio et al., 1985

Pseudoparasitus trincisus Hunter, 1966
Islands: Hawaii; Oahu
Associations: Anthurium;* leaf litter; Metrosideros litter
Literature: Radovsky and Tenorio, 1979; Tenorio, 1982;
Tenorio et al., 1985

**Pseudoparasitus vitzthumi** (Womersley, 1956)
- **Islands:** Pearl and Hermes Reef
- **Associations:** Nest of *Diomedia nigripes*
- **Literature:** Tenorio, 1982; Tenorio et al., 1985

**Family Macrochelidae**

**Glyphthalaspis americana** (Berlese, 1888)
- **Islands:** Hawaii; Oahu
- **Associations:** Scarabaeidae; litter samples
- **Literature:** Garrett and Haramoto, 1967; Tenorio et al., 1985

**Holostaspella n. sp.**
- **Islands:** Midway Islands
- **Associations:** Nest of *Diomedia nigripes*

**Macrocheles merdarius** (Berlese, 1889)
- **Islands:** Oahu
- **Associations:** Cat carcasses; mushroom bed media; lawn litter; soil samples

**Macrocheles mammifer** Berlese, 1918
- **Islands:** Hawaii; Oahu
- **Associations:** "Dung beetle"; leaf litter; nest of *Mus musculus"

**Macrocheles muscadowesticae** (Scopoli, 1772)
- **Islands:** Oahu
- **Associations:** Phorid and sciomyzid flies; cat carcasses; quail droppings; chicken manure
- **Literature:** Garrett and Haramoto, 1967; Kim, 1962; Radovsky and Tenorio, 1976; Tenorio et al., 1985

**Macrocheles peniculatus** Berlese, 1918
- **Islands:** Hawaii; Oahu
- **Associations:** *Metrosideros*-koa litter; *Rattus rattus*; pig "nest"
- **Literature:** Tenorio et al., 1985

**Macrocheles robustus** (Berlese, 1904)
- **Islands:** Oahu
- **Associations:** Napier litter

**Macrocheles similis** Krantz & Filipponi, 1964
- **Islands:** Midway Islands; Oahu
- **Associations:** Nest of *Diomedia nigripes*; banana corms

**Macrocheles subbadius** (Berlese, 1904)
- **Islands:** Oahu
- **Associations:** Horn fly cultures
Literature: Radovsky and Tenorio, 1976; Tenorio et al., 1985

**Macrocheles n. sp.**
- **Islands:** Hawaii;* Kauai;* Maui;* Oahu*
- **Associations:** Copris incertus prociduus;* Onthophagus curicornis;* Rattus exulans;* Rattus rattus;* litter samples*

**Macrocheles n. sp.**
- **Islands:** Oahu*
- **Associations:** Banana corms;* Cosmopolites sordidus*

Family Macronyssidae

**Ophionyssus natricis** (Gervais, 1844)
- **Islands:** Oahu
- **Hosts:** Various reptiles infested at Quarantine Station
- **Literature:** Radovsky, 1971; Tenorio et al., 1985

**Ornithonyssus bacoti** (Hirst, 1913)
- **Islands:** Hawaii; Kahoolawe; Manana; Midway Islands; Oahu
- **Hosts:** Mus musculus; Rattus exulans; Rattus norvegicus; Rattus rattus; man
- **Literature:** Bonnet, 1948b; Cole and Koepke, 1947; Garrett and Haramoto, 1967; Mitchell, 1964a; Radovsky et al., 1979; Tenorio and Goff, 1980; Tenorio et al., 1985

**Ornithonyssus bursa** (Berlese, 1888)
- **Islands:** Hawaii; Oahu
- **Hosts:** Acridothes tristis; Corvus tropicus; Passer domesticus; man
- **Literature:** Alicata, 1947; Arnold and Arnold, 1943; Bonnet, 1948a; Erhorn, 1931; Garrett and Haramoto, 1967; Goff, 1980; Pemberton, 1945; Strandmann and Wharton, 1958; Tenorio et al., 1985; Zimmerman, 1944

**Ornithonyssus sylviarum** (Canestrini & Fanzago, 1877)
- **Islands:** Hawaii; Oahu
- **Hosts:** Carpodacus frontalis; Chasiremis sandwichensis; chickens; unidentified nests; man
- **Literature:** Garrett and Haramoto, 1967; Goff, 1980, 19831; Radovsky, 1975; Tenorio et al., 1985

**Steatonyssus furmani** Tipton & Boese, 1958
- **Islands:** Hawaii
- **Hosts:** Lasiurus cinereus semotus
- **Literature:** Garrett and Haramoto, 1967; Tenorio et al., 1985

Family Ologamasidae

**Gamasiphis** sp.
Islands: Hawaii; Kauai; Laysan
Associations: Litter samples
Literature: Butler and Usinger, 1963b; Garrett and Haramoto, 1967; Goff, 1983j; Goff and Need, 1985; Radovsky and Tenorio, 1981b; Tenorio et al., 1985

Gamasiphis sp.
Islands: Hawaii; Kauai
Associations: Vegetation around steam vents on Mauna Loa Volcano; soil and litter samples
Literature: Goff, 1983j; Goff et al., 1979

Family Otopheidomenidae

Dicrocheles phalaenodectes (Treat, 1954)
Islands: Kauai
Hosts: Cirphis amblycasis
Literature: Garrett and Haramoto, 1967; Treat, 1955

Otopheidomenis ascalaphae Syed & Goff, 1983
Islands: Oahu
Hosts: Ascalapha odorata
Literature: Syed and Goff, 1983; Tenorio et al., 1985

Otopheidomenis treati (Prasad, 1968)
Islands: Oahu
Hosts: Achaea janata
Literature: Prasad, 1968e, 1969; Syed and Goff, 1983; Tenorio et al., 1985

Family Parasitidae

Pergamassus sp. in "crassipes group"
Islands: Hawaii
Associations: Soil samples
Literature: Goff et al., 1979; Radovsky and Tenorio, 1981b; Tenorio et al., 1985

Family Parholaspidae

Gamasholaspis gamasoides (Berlese, 1904)
Islands: Hawaii; Kauai
Associations: Leaf litter
Literature: Goff, 1983j; Tenorio and Marshall, 1977; Tenorio et al., 1985

Holaspulus tenuipes (Berlese, 1904)
Islands: Hawaii; Kauai; Oahu
Associations: Metrosideros litter; guava litter
Literature: Garrett and Haramoto, 1967; Goff, 1983i; Tenorio and Marshall, 1977; Tenorio et al., 1985

Parholaspulus maunaloaensis Tenorio & Marshall, 1977
Islands: Hawaii; Oahu
Associations: Litter from Metrosideros, Styphelia, Coprosma, Vaccinium, and Dubautisa
Literature: Tenorio and Marshall, 1977

Family Phytoseiidae

*Amblydromella* bakeri (Carman, 1948)
Islands: Oahu
Associations: Nest of *Lonchura punctulata*
Literature: Garrett and Haramoto, 1967; Tenorio et al., 1985

*Amblydromella* haramotoi (Prasad, 1968)
Islands: Hawaii; Kauai; Maui; Oahu
Associations: *Aleurites* sp.; *Aralia* sp.; banana; Chinese taro; Christmas berry; eucalyptus; *Jacaranda* sp.; mango; *Monstera* sp.; *Macadamia* sp.; *Thespesia* sp.
Literature: Prasad, 1968d; Tenorio et al., 1985

*Amblydromella* neobakeri (Prasad, 1968)
Islands: Hawaii; Kauai; Maui; Molokai; Oahu
Associations: Banana; *Cassia* sp.; grasses; mosses in steam vent; ti; ulu leaves; watermelon*
Literature: Goff et al., 1979; Prasad, 1968b; Tenorio et al., 1985

*Amblydromella* rhenanoides (Athias-Henriot, 1962)
Islands: Kauai
Associations: Croton leaves
Literature: Prasad, 1968b; Tenorio et al., 1985

*Amblyseius* caudatus Berlese, 1914
Islands: "Hawaiian Islands"
Associations: Litter
Literature: Chant, 1959; Garrett and Haramoto, 1967; Tenorio et al., 1985

*Amblyseius* haleakalu Prasad, 1968
Islands: Hawaii; Kauai; Maui
Associations: Cypress; conifer leaves; grasses; bamboo
Literature: Prasad, 1968d; Tenorio et al., 1985

*Amblyseius* herbicolus (Chant, 1959)
Islands: Oahu
Associations: *Coffea liberica*
Literature: Tenorio et al., 1985

*Amblyseius* largoensis (Muma, 1955)
Islands: Hawaii; Kure Atoll; Lanai; Laysan; Maui; Molokai; Nihoa;* Oahu
Associations: Avocado; *Bambusia* sp.; breadfruit; conifers; croton; cypress; castor bean; *Grevillea* sp.; guava;
kikuyu grass; koa litter;* macadamia; mango; passion fruit; peach; Sicyos hispidus; Sophora sp.; sorghum; watermelon*

Literature: Butler and Usinger, 1963a; Garrett and Haramoto, 1967; Goff, 1983e; Prasad, 1968d; Tenorio et al., 1985

Amblyseius obtusus (Koch, 1839)
Islands: Hawaii; Oahu
Associations: Aleurites sp.; Macadamia sp.; Panicum sp.; cypress; Monterey pine; grasses
Literature: Garrett and Haramoto, 1967; Prasad, 1968d; Tenorio et al., 1985
Note: According to Tenorio et al. (1985) this species was reported as Amblyseius rhabdus Denmark by Garrett and Haramoto (1967) and Prasad (1968b).

Amblyseius paucisetis Wainstein, 1983
Islands: Hawaii
Associations: Litter
Literature: Tenorio et al., 1985; Wainstein, 1983

Amblyseius sp.
Islands: Hawaii
Associations: Mosses with grasses in steam vent on Mauna Loa Volcano
Literature: Goff et al., 1979; Tenorio et al., 1985

Amblyseius volcanus Prasad, 1968
Islands: Hawaii
Associations: Eugenia sp.; ferns
Literature: Prasad, 1968d; Tenorio et al., 1985

Chelaseius floridanus (Muma, 1955)
Islands: Hawaii
Associations: Soil samples; from pitfall traps
Literature: Tenorio et al., 1985; Wainstein, 1983

Chelaseius schusterellus (Athias-Henriot, 1976)
Islands: Hawaii
Associations: Soil samples
Literature: Tenorio et al., 1985

Clavidromus transvaalensis (Nesbitt, 1951)
Islands: Hawaii; Oahu
Associations: Mangifera indica;* soil samples
Literature: Prasad, 1968d; Sharp and Haramoto, 1970; Tenorio et al., 1985

Euseius haramotoi (Prasad, 1968)
Islands: Hawaii; Kauai; Maui; Oahu
Associations: Pine leaves; mango leaves
Literature: Prasad, 1968d; Tenorio et al., 1985

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**Euseius ovalis** (Evans, 1952)
Islands: Kauai; Maui; Molokai; Oahu; "Hawaiian Islands"
Associations: Acalypha sp.; Aralia sp.; banana; Bermuda grass; Cassia sp.; castor bean; Chinese taro; croton; breadfruit; Hibiscus sp.; Ipomoea sp.; Leucaena sp.; mango; papaya; passion fruit; taro vine
Literature: Chant, 1959; Garrett and Haramoto, 1967; Prasad, 1968d; Tenorio et al., 1985

**Iphiseius degenerens** (Berlese, 1889)
Islands: Oahu
Associations: Introduced in 1978 for biological control
Literature: Higa, 1981; Tenorio et al., 1985

**Iphiseius mumai** Prasad, 1968
Islands: Hawaii
Associations: Leaf litter in fern-koa forest
Literature: Prasad, 1968c; Tenorio et al., 1985

**Mesoseiulus longipes** (Evans, 1958)
Islands: Oahu
Associations: Introduced in 1978 for biological control
Literature: Higa, 1981; Tenorio et al., 1985

**Neoseiulus aurescens** (Athias-Henriot, 1961)
Islands: Hawaii
Associations: Litter samples
Literature: Tenorio et al., 1985

**Neoseiulus californicus** (McGregor, 1954)
Islands: Hawaii; Oahu
Associations: Introduced in 1978 for biological control
Literature: Higa, 1981; Tenorio et al., 1985

**Neoseiulus comitatus** (DeLeon, 1962)
Islands: Lanai
Associations: Bermuda grass with Oligonychus sp.
Literature: Prasad, 1968d; Tenorio et al., 1985

**Neoseiulus longispinosus** (Evans, 1952)
Islands: Maui; Molokai; Oahu
Associations: Chinese taro; Hibiscus sp.; kikuyu grass; Manihot sp.; sugarcane; watermelon*
Literature: Garrett and Haramoto, 1967; Prasad, 1968d; Tenorio et al., 1985

**Neoseiulus mumai** Denmark, 1965
Islands: Oahu
Associations: Panicum sp.
Literature: Prasad, 1968d; Tenorio et al., 1985

**Neoseiulus oahuensis** Prasad, 1968
Islands: Hawaii; Kahoolawe; Nihoa;* Oahu; Pearl and Hermes
Reef
Associations: Beans; chicken manure; sparrow nest; soil and litter samples
Literature: Prasad, 1968d; Tenorio et al., 1985

Neoseiulus setulus (Fox, 1947)
Islands: Hawaii
Associations: Litter samples from mamane forest on Mauna Kea
Literature: Tenorio et al., 1985

Phytoseiulus macropilis (Banks, 1905)
Islands: Hawaii; Kauai; Lanai; Maui; Molokai; Oahu
Associations: Associated with Tetranychus and Oligonychus spp.; beans; Bermuda grass; burdock; carnation litter; castor bean; Chinese taro; corn; croton; Eucalyptus sp.; Jasminum sambac; litchi; Manihot sp.; morning glory; papaya; passion fruit; Pipturus albidus; plumeria; sweet potato; watermelon
Literature: Chant, 1959; Cunliffe and Baker, 1953; Garrett and Haramoto, 1967; Prasad, 1968c; Tenorio et al., 1985

Phytoseiulus hawaiiensis Prasad, 1968
Islands: Hawaii; Kauai; Maui; Molokai; Oahu
Associations: Avocado; bamboo; Cassia sp.; coffee; croton; fig; Hibiscus sp.; Lantana sp.; litchi; locust; papaya; Pipturus sp.; poinsettia; stick-tight leaves; Thuja sp.
Literature: Goff, 1982a; Prasad, 1968c; Schicha, 1980; Tenorio et al., 1985

Phytoseius woodburyi DeLeon, 1965
Islands: Kauai
Associations: Grevillea leaves
Literature: Prasad, 1968c; Tenorio et al., 1985

Proprioseiopsis amplus (Wainstein, 1983)
Islands: Hawaii
Associations: Soil and litter samples
Literature: Tenorio et al., 1985; Wainstein, 1983

Proprioseiopsis asetus (Chant, 1961)
Islands: Hawaii
Associations: Soil and litter samples
Proprioseiopsis coniferus (Prasad, 1968)
Islands: Hawaii; Lanai; Maui
Associations: Conifers; grasses; soil and litter samples
Literature: Prasad, 1968d; Tenorio et al., 1985

Proprioseiopsis dorsatus (Muma, 1961)
Islands: Hawaii
Associations: Pitfall trap
Literature: Tenorio et al., 1985

Proprioseiopsis hawaiiensis (Wainstein, 1983)
Islands: Hawaii
Associations: Soil and litter samples
Literature: Tenorio et al., 1985; Wainstein, 1983

Proprioseiopsis mauiensis (Prasad, 1968)
Islands: Hawaii; Kauai; Maui
Associations: Bamboo; kikuyu grass; litter samples
Literature: Goff, 1983j; Prasad, 1968d; Tenorio et al., 1985

Proprioseiopsis mexicanus (Garman, 1958)
Islands: Hawaii; Kauai; Lanai; Maui; Molokai; Oahu
Associations: Algae-grass-moss association in steam vent; Bermuda grass; castor bean; clover; grasses; kikuyu grass; morning glory; moss-fern association in steam vent; Panicum sp.; pine
Literature: Goff et al., 1979; Prasad, 1968d; Tenorio et al., 1985

Proprioseiopsis ovatus (Garman, 1958)
Islands: Hawaii; Kahoolawe; Kauai; Lanai; Maui; Molokai; Oahu
Associations: Bermuda grass; grasses; morning glory; Mus musculus (contaminant); Oxalis sp.; Panicum sp.; associated with Oligonychus spp., Bryobia sp., and Petrobia harti
Literature: Prasad, 1968d; Tenorio et al., 1985

Proprioseiopsis rotundus (Muma, 1961)
Islands: Hawaii
Associations: Soil and litter samples
Literature: Tenorio et al., 1985; Wainstein, 1983

Proprioseiopsis sp. nr. mexicanus
Islands: Hawaii
Associations: Nest of Loxops virens wilsoni
Literature: Tenorio et al., 1985

Typhlodromalus limonicus (Garman & McGregor, 1956)
Islands: Hawaii; Maui
Associations: Fig; grasses; papaya; peach
Literature: Prasad, 1968d; Tenorio et al., 1985

Typhlodromalus peregrinus (Muma, 1955)
Islands: Hawaii; Oahu
Associations: Panicum sp.; Pipturus sp.
Literature: Prasad, 1968d; Tenorio et al., 1985

Typhlodromina pini (Chant, 1955)
Islands: Maui
Associations: Ulule
Literature: Prasad, 1968b; Tenorio et al., 1985

Typhlodromips eucalypterus (Prasad, 1968)
Islands: Maui
Associations: Eucalyptus sp.
Literature: Prasad, 1968d; Tenorio et al., 1985

Family Podocinidae

Podocinum pacificum (Berlese, 1896)
Islands: Hawaii; Oahu
Associations: Soil and litter samples
Literature: Garrett and Haramoto, 1967; Radovsky and Tenorio, 1981a; Tenorio et al., 1985

Podocinum sagax (Berlese, 1882)
Islands: Hawaii; Kauai
Associations: Moss and grasses associated with steam vent; mosses; sugarcane; soil and litter samples*
Literature: Goff, 1983i; Goff et al., 1979; Radovsky and Tenorio, 1981a; Tenorio et al., 1985

Family Polyaspididae

Trachytes sp.
Islands: Kauai
Associations: Litter samples under Metrosideros sp.
Literature: Goff, 1983i; Tenorio et al., 1985

Family Rhinonyssidae

Larinyssus orbicularis Strandtmann, 1948
Islands: Oahu
Hosts: Sterna fuscata
Literature: Tenorio et al., 1985

Mesonyssus geopelieae Pain, 1964
Islands: Oahu
Hosts: Geopelia striata striata
Literature: Garrett and Haramoto, 1967; Tenorio et al., 1985; Wilson, 1966
Paraneonychus sp.
Islands: Hawaii
Hosts: Lonchura punctulata
Literature: Goff, 1980; Tenorio et al., 1985

Ptilonyssus astridae Fain, 1956
Islands: Hawaii
Hosts: Lonchura punctulata
Literature: Tenorio et al., 1985

Ptilonyssus hirsti (Castro & Pereira, 1947)
Islands: Hawaii
Hosts: Passer domesticus
Literature: Garrett and Haramoto, 1967; Goff, 1980; Strandtman and Wharton, 1958; Tenorio et al., 1985; Wilson, 1964a

Ptilonyssus sairae Castro, 1948
Islands: Oahu
Hosts: Paroaria cucullata
Literature: Tenorio et al., 1985

Ptilonyssus spp.
Islands: Hawaii
Hosts: Lonchura punctulata; Loxops virens; Himatione sanguinea; Phaeornis obscurus
Literature: Goff, 1980; Smith and Guest, 1974; Tenorio et al., 1985

Rhinonyssus coniventris Trouessart, 1894
Islands: Oahu
Hosts: Pluvialis dominica
Literature: Garrett and Haramoto, 1967; Tenorio et al., 1985; Wilson, 1964a

Sternostoma tracheacolum Lawrence, 1948
Islands: Oahu
Hosts: Uraeginthus angolensis
Literature: Smith, 1973; Smith and Guest, 1974; Tenorio et al., 1985

Family Rhodacaridae

Athiastella sp.
Islands: Hawaii
Associations: Soil and litter samples
Literature: Radovsky and Tenorio, 1981a; Tenorio et al., 1985

Rhodacarus sp.
Islands: Hawaii; Kure Atoll; Oahu*
Associations: Soil and litter samples
Literature: Goff, 1983h; Tenorio et al., 1985
Family Sejidae

*Liroaspis armatus* Fox, 1947  
- Islands: Hawaii; Midway Islands;* Oahu  
- Associations: Litter under screw pine; leaf litter  
- Literature: Garrett and Haramoto, 1967; Tenorio et al., 1985

*Liroaspis sp.*  
- Islands: Oahu;* Nihoa*  
- Associations: Leaf litter*

Family Uropodidae

*Uropoda spp.*  
- Islands: Hawaii; Kauai;* Kure Atoll;* Maui;* Midway Islands;* Nihoa;* Oahu  
- Associations: Litter samples; cat carcasses;* human remains;* *Dermestes maculatus*  
- Literature: Garrett and Haramoto, 1967; Goff, 1983h,j; Krauss, 1947; Tenorio et al., 1985  
- Note: There appear to be numerous species of *Uropoda* present in the Hawaiian Islands, but, to date, none has been identified to species level.

Family Veigaiidae

*Veigaia exigua* (Berlese, 1916)  
- Islands: Hawaii  
- Associations: Soil and litter samples  
- Literature: Hurlbutt, 1983; Radovsky and Tenorio, 1981a; Tenorio et al., 1985

*Veigaia nemorensis* (Koch, 1839)  
- Islands: Hawaii  
- Associations: Metrosideros litter  
- Literature: Garrett and Haramoto, 1967; Tenorio et al., 1985

*Veigaia planicola* (Berlese, 1892)  
- Islands: Hawaii  
- Associations: Litter samples  
- Literature: Goff, 1983c; Hurlbutt, 1983; Tenorio et al., 1985

*Veigaia uncatata* Farrier, 1957  
- Islands: Hawaii; Kauai  
- Associations: Soil and litter samples  
- Literature: Goff, 1983c,i

**ORDER ACARIFORMES**

Suborder Actinedida
Family Alicorhagidae*

Unidentified Alicorhagidae*
Islands: Oahu*
Associations: Kiawe litter in Diamond Head Crater*

Family Anystidae

Anystis agilis Banks, 1894
Islands: Hawaii; Maui; Molokai; Oahu*
Associations: Hibiscus sp.; Metrosideros sp.; soil and litter samples; grasses
Literature: Garrett and Haramoto, 1967; Krauss, 1944

Anystis baccarum (Linnaeus, 1758)
Islands: "Hawaiian Islands"
Associations: None listed
Literature: Garrett and Haramoto, 1967
Note: Garrett and Haramoto (1967) state that specimens of this species were deposited in the collection of the University of Hawaii at Manoa. No specimens of this species can be located there at this time.

Family Bdellidae

Bdella captiosa Atyeo, 1963
Islands: Hawaii;* Nihoa*
Associations: Metrosideros sp.;* mosses in bog;* leaf litter*

Bdella distincta Baker & Balock, 1944
Islands: "Hawaiian Islands"
Associations: Pine cones
Literature: Atyeo, 1960; Chilson, 1963; Garrett and Haramoto, 1967

Bdella mexicana Baker & Balock, 1944*
Islands: Hawaii;* Oahu*
Associations: Dracaena root;* macadamia flowers;* gardenia;* leaf litter*

Bdella sp. nr. capitosa*
Islands: Nihoa*
Associations: Leaf litter*

Bdellodes longirostris (Hermann, 1804)
Islands: Hawaii;* Kauai;* Kure Atoll; Laysan;* Oahu*
Associations: Metrosideros sp.;* leaf litter;* inside of steam vent on Mauna Loa Volcano*
Literature: Butler and Usinger, 1963a; Garrett and Haramoto, 1967

Bdellodes meridionalis (Thor, 1931)*
Islands: Hawaii*
Associations: *Metrosideros* sp. litter; *Cibotium* litter; leaf litter

*Bdellodes* sp. nr. *pacific*  
**Islands:** Oahu  
**Associations:** Algae on rocks and seawall

*Bdellodes* sp. nr. *graminis*  
**Islands:** Oahu  
**Associations:** Koa litter; lichee leaves

*Cyta latirostris* (Hermann, 1804)  
**Islands:** Hawaii  
**Associations:** Litter samples under *Metrosideros* sp. and *Styphelia* sp.*  
**Literature:** Goff, 1983j  
**Note:** The identification by Goff (1983j) of this species is an error, and the present account is the first actual report of this species from the Hawaiian Islands.

*Cyta* sp. nr. *latirostris*  
**Islands:** Kauai  
**Associations:** Litter in tree hole  
**Literature:** Goff, 1983j  
**Note:** This species was reported incorrectly as *C. latirostris* by Goff (1983j).

*Spinibdella cronini* (Baker & Balock, 1944)  
**Islands:** Hawaii; Midway Islands; Oahu  
**Associations:** Leaf litter; *Metrosideros* sp. litter; Bermuda grass  
**Literature:** Goff, 1983a

*Spinibdella depressa* (Ewing, 1909)  
**Islands:** Hawaii; Oahu  
**Associations:** Bird nest; koa bark; mosses; tecoma stem

*Spinibdella thori* (Meyer & Ryke, 1959)  
**Islands:** Hawaii; Oahu  
**Associations:** Koa tree hole; mosses on lava; pineapple

*Spinibdella* sp. nr. *bifurcata*  
**Islands:** Kahoolawe; Oahu  
**Associations:** Kiawe litter; grasses

*Spinibdella* sp. nr. *corticis*  
**Islands:** Hawaii  
**Associations:** Under rocks inside Mauna Loa Summit Cave

Family Caeculidae

Unidentified Caeculidae  
**Islands:** Oahu
Associations: Litter samples*
Note: Only immature specimens were recovered from soil and litter samples taken inside Diamond Head Crater by L. Nakahara in 1972. No additional specimens of this family have been collected in the Hawaiian Islands.

Family Caligonellidae*

_Coptocheles sp. nr. boharti_ Summers & Schlinger, 1955*
Islands: Nihoa;* Oahu*
Associations: Soil and litter samples*

_Coptocheles sp. nr. triscutatus_ Summers & Schlinger, 1955*
Islands: Hawaii;* Oahu*
Associations: Lichen on rocks;* soil and litter samples*

_Stigmatheus sp.*
Islands: Oahu*
Associations: Koa-kiawe litter*

Family Camerobiidae*

_Neophyllobius superbus_ (Canestrini, 1889)*
Islands: Hawaii;* Oahu*
Associations: Ironwood litter;* lichen on lava;* Norfolk pine litter;* soil samples*

_Neophyllobius sp. nr. superbus_ (Canestrini, 1889)*
Islands: Nihoa;* Oahu*
Associations: Soil and litter samples*

Family Cheyletidae

_Bak elongatus_ Diaz Patxot & Goff, 1985
Islands: Oahu
Associations: Soil and litter samples
Literature: Diaz Patxot and Goff, 1985

_Bak delongi_ Yunker, 1961
Islands: Lanai; Oahu
Associations: Kiawe litter; litchi litter
Literature: Diaz Patxot and Goff, 1985

_Chelacheles strabismus_ Baker, 1958
Islands: Oahu
Associations: Soil and litter samples
Literature: Diaz Patxot and Goff, 1985

_Cheletomimus berlesei_ (Oudemans, 1904)
Islands: Midway Islands; Oahu
Associations: Nest of _Acridothres tristis_; soil and litter samples
Literature: Diaz Patxot and Goff, 1985
Cheletomimus duosetosus Muma, 1964
Islands: Midway Islands (Sand Island); Oahu
Associations: Soil and litter samples
Literature: Diaz Patxot and Goff, 1985

Cheletomimus citrosinensis Diaz Patxot & Goff, 1985
Islands: Oahu
Associations: Citrus sinensis
Literature: Diaz Patxot and Goff, 1985

Cheletogenes ornatus (Canestrini & Fanzago, 1876)
Islands: Hawaii; Kauai; Oahu; "Hawaiian Islands"
Associations: Bamboo; ferns; Ficus sp.; guava leaves; Hibiscus sp.; Norfolk pine; ohia; Pittosporum sp.; roses
Literature: Baker, 1949; Chilson, 1959; Diaz Patxot and Goff, 1985; Garrett and Haramoto, 1967; Goff and Conant, 1985

Cheyletus eruditus (Schrank, 1781)
Islands: Hawaii; Kauai; Oahu
Associations: Chicken feed; nest of Vestiaria coccinea; on Rattus rattus
Literature: Diaz Patxot and Goff, 1985; Garrett and Haramoto, 1967; Goff, 1983

Cheyletus fortis Oudemans, 1904
Islands: Hawaii; Oahu
Associations: Furniture from Japan; Metrosideros sp.
Literature: Diaz Patxot and Goff, 1985; Garrett and Haramoto, 1967

Cheyletus malaccensis (Oudemans, 1903)
Islands: Hawaii
Associations: Loxops virens; stored grain
Literature: Diaz Patxot and Goff, 1985; Goff, 1983

Cheyletus malayensis Cunliffe, 1962
Islands: Oahu
Associations: Citrus; dog food; fly-rearing medium; house dust; stored rice; sugarcane litter
Literature: Diaz Patxot and Goff, 1985

Cunliffella panamensis Baker, 1949
Islands: Oahu
Associations: Soil and litter samples
Literature: Diaz Patxot and Goff, 1985

Grallacheles bakeri DeLeon, 1962
Islands: Oahu
Associations: House dust
Literature: Diaz Patxot and Goff, 1985; Garrett and Haramoto, 1967
Hemicheyletia bakeri (Ehara, 1962)
Islands: Kahoolawe; Kure Atoll; Molokai; Nihoa
Associations: Kiawe litter; leaf litter; Pritchardia remota
Literature: Diaz Patxot and Goff, 1985; Goff 1963a, e, h

Hemicheyletia bregotovae (Volgin, 1969)
Islands: Oahu
Associations: Leaf litter
Literature: Diaz Patxot and Goff, 1985

Hemicheyletia granulata Summers & Price, 1970
Islands: Kure Atoll
Associations: Leaf litter
Literature: Diaz Patxot and Goff, 1985

Hemicheyletia kureatollensis Goff, 1982
Islands: Kure Atoll; Kauai*
Associations: Leaf litter
Literature: Diaz Patxot and Goff, 1985; Goff, 1982b

Hemicheyletia wellsii (Baker, 1949)
Islands: Hawaii; Midway Islands; Molokai; Nihoa; Oahu
Associations: Leucaena glauca; litchi bark; litter samples; Panax stump; Pritchardia remota; P. pinaster
Literature: Diaz Patxot and Goff, 1985; Garrett and Haramoto, 1967; Goff, 1983c

Ker palmatus Muma, 1964
Islands: Nihoa
Associations: Soil and litter samples
Literature: Diaz Patxot and Goff, 1985

Mexacheles hawaiensis (Baker, 1949)
Islands: Hawaii; Kauai; Maui; Oahu
Associations: Chinese banana; cypress; hau; litchi; loquat; Morinda citrifolia; papaya fruit; passion fruit; plum
Literature: Baker, 1949; Chilson, 1959; Diaz Patxot and Goff, 1985; Garrett and Haramoto, 1967

Nodele philippinensis (Baker, 1949)
Islands: Oahu
Associations: House dust; light trap
Literature: Diaz Patxot and Goff, 1985

Family Cheyletiellidae

Cheyletiella parasitivorax (Megnin, 1878)
Islands: Oahu
Hosts: Oryctolagus cuniculus
Literature: Garrett and Haramoto, 1967; Tomich et al., 1968
Ornithocheyletia leiothrix Fain, 1972
Islands: Hawaii
Hosts: Leiothrix lutea
Literature: Goff, 1983b

Neocheyletiella media Fain, 1972
Islands: Hawaii
Hosts: Leiothrix lutea
Literature: Goff, 1983b

Family Cryptognathidae

Cryptognathus flavus Summers & Chaudri, 1965
Islands: Midway Islands; Nihoa;* Oahu*
Associations: Leaf litter;* nest of Diomedea nigripes
Literature: Garrett and Haramoto, 1967

Cryptognathus sp.*
Islands: Nihoa*
Associations: Leaf litter and soil samples*

Family Cunaxidae

Cunaxia inermis (Tragardh, 1905)
Island: Kure Atoll
Associations: Leaf litter and soil
Literature: Goff, 1983h

Neocunaxoides andrei (Baker & Hoffmann, 1948)
Islands: Hawai'i; Oahu
Associations: Soil and litter samples; Metrosideros sp. litter
Literature: Goff, 1983h

Family Demodicidae

Demodex folliculorum (Simon, 1842)
Islands: Oahu
Hosts: Man
Literature: Garrett and Haramoto, 1967

Demodex phylloides Csokor, 1879
Islands: Oahu; "Hawaiian Islands"
Hosts: Sus scrofa
Literature: Garrett and Haramoto, 1967; Swanson, 1939

Family Ereynetidae

Boydaia agelaii Fain & Aitken, 1968*
Islands: Nihoa*
Hosts: Telespyza ultima*

Boydaia nigra Fain, 1955
Islands: Hawaii; Oahu
Hosts: Passer domesticus
Literature: Fain and Goff, 1980; Goff, 1983d

Ophthalmognathus tenorioae Fain & Goff, 1980
Islands: Oahu
Hosts: Nycticorax nycticorax hoactli
Literature: Fain and Goff, 1980; Goff, 1983d

Paraspeleognathus bakeri (Fain, 1955)
Islands: Hawaii
Hosts: Mus musculus
Literature: Radovsky et al., 1979; Tenorio and Goff, 1980

Speleorodeus derricki (Womersley, 1954)
Islands: Hawaii
Hosts: Rattus exulans; Rattus rattus
Literature: Radovsky et al., 1979; Tenorio and Goff, 1980

Unidentified Ereynetidae*
Islands: Oahu*
Associations: Litter samples*

Family Eriophyidae

Aceria neocynodonis Keifer, 1960
Islands: Kauai; Oahu
Hosts: Bermuda grass
Literature: Garrett and Haramoto, 1967

Aceria pisoniae Keifer, 1964
Islands: Oahu
Hosts: Pisonia leaf
Literature: Garrett and Haramoto, 1967; Shiroma, 1965

Aceria sheldoni (Ewing, 1937)
Islands: Oahu
Hosts: Mandarin orange
Literature: Boyce, 1939; Garrett and Haramoto, 1967

Aceria swezeyi (Keifer, 1940)
Islands: Hawaii; Oahu
Hosts: Diospyros ferrea var. pubescens, forma sclerophylla; Diospyros sp.; Maba sandwichensis
Literature: Garrett and Haramoto, 1967; Goff, 1982a; Keifer, 1940; Krauss, 1963

Aculops lycopersici (Massee, 1939)
Islands: Maui; Oahu; "Hawaiian Islands"
Hosts: Tomato; Solanum nodiflorum
Literature: Garrett and Haramoto, 1967; Holdaway, 1944c; Nishida, 1944
Aculus broussaisiae Keifer, 1964  
Islands: Oahu  
Hosts: Broussaisia leaf  
Literature: Garrett and Haramoto, 1967; Shiroma, 1965

Eriophyes ficus (Cotte, 1920)  
Islands: Oahu  
Hosts: Fig  
Literature: Garrett and Haramoto, 1967; Tanada, 1951

Eriophyes litchii Keifer, 1943  
Islands: Hawaii; Molokai  
Hosts: Litchi chinensis leaves  
Literature: Garrett and Haramoto, 1967; Nishida, 1944; Keifer, 1943; Nishida, 1949; Nishida and Holdaway, 1955; O'Gara, 1916; Pemberton, 1944; Schmidt, 1943

Eriophyes mangiferae (Sayed, 1946)  
Islands: Oahu  
Hosts: Mango leaf scales  
Literature: Garrett and Haramoto, 1967; Nishida, 1947; Van Zwaluwenburg, 1948

Eriophyes aloinensis Keifer, 1941  
Islands: Oahu  
Hosts: Aloe  
Literature: Garrett and Haramoto, 1967

Oxypleurites mangiferae Keifer, 1946  
Islands: Hawaii  
Hosts: Mango leaves  
Literature: Garrett and Haramoto, 1967; Keifer, 1946; Williams, 1946

Phyllocoptruta oleivora (Ashmead, 1879)  
Islands: Hawaii; Kauai; Oahu; "Hawaiian Islands"  
Hosts: Citrus; tangerines; lemons; oranges  
Literature: Garrett and Haramoto, 1967; Illingworth, 1929a; Look, 1946; Pope, 1934; Tanada, 1951

Tegonotus hibiscella Keifer, 1946  
Islands: Hawaii; Oahu  
Hosts: Hibiscus spp.  
Literature: Garrett and Haramoto, 1967; Keifer, 1946; Look, 1946, 1953

Family Erythraeidae

Leptus sp.*  
Islands: Lanai;* Oahu*  
Associations: Bermuda grass;* Panicum sp.;* soil and litter samples*

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Family Eupodidae

Cocceupodes mollicellus (Koch, 1838)  
Islands: Hawaii  
Associations: Bird nest in tree  
Literature: Strandtmann and Goff, 1978

Cocceupodes trisetatus Strandtmann & Prasse, 1977  
Islands: Hawaii  
Associations: Koa; Metrosideros; Metrosideros-Gleichenia; grasses; leaf litter  
Literature: Strandtmann and Goff, 1978

Eupodes hawaiiensis Strandtmann & Goff, 1978  
Islands: Hawaii; Kahoolawe; Maui;* Molokai*  
Associations: Bird nest; Metrosideros litter; mosses; bog  
Literature: Goff, 1983, Strandtmann and Goff, 1978

Eupodes sigmoidens Strandtmann & Goff, 1978  
Islands: Hawaii; Oahu*  
Associations: Leaf litter (primarily Metrosideros, also koa and various grasses)  
Literature: Strandtmann and Goff, 1978

Eupodes voxencollinus Sig Thor, 1934  
Islands: Hawaii  
Associations: Bracken and mosses; grasses; koa litter; leaf litter  
Literature: Strandtmann and Goff, 1978

Hawaiieupodes thermophilus Strandtmann & Goff, 1978  
Islands: Hawaii  
Associations: Bird nest in tree; fumerole (41°C); koa litter; grasses  
Literature: Strandtmann and Goff, 1978

Family Halacaridae

Copidognathus matthewsi Newell, 1956  
Islands: Oahu  
Associations: In Kaneohe Bay  
Literature: Garrett and Haramoto, 1967; Newell, 1956b

Family Harpyrhynchidae

Harpyrhynchus pilirostris Berlese & Trouessart, 1889  
Islands: Hawaii; Oahu  
Hosts: Passer domesticus  
Literature: Garrett and Haramoto, 1967; Goff, 1980

Harpyrhynchus spp.  
Islands: Hawaii  
Hosts: Himatione sanguinea; Loxops virens
Literature: Goff, 1980

Family Iolinidae

Iolina nana Pritchard, 1956
Islands: "Hawaiian Islands"
Hosts: Diploptera dystiscoides
Literature: Garrett and Haramoto, 1967; Pritchard, 1956

Family Myobiidae

Myobia musculi (Schrank, 1781)
Islands: Hawaii; Kahoolawe; Midway Islands; Oahu
Hosts: Mus musculus
Literature: Garrett and Haramoto, 1967; Goff, 1975; Radovsky et al., 1979; Tenorio and Goff, 1980

Radfordia affinis (Poppe, 1896)
Islands: Hawaii; Kahoolawe; Midway Islands; Oahu
Hosts: Mus musculus
Literature: Garrett and Haramoto, 1967; Goff, 1975; Joyce, 1957; Radovsky et al., 1979; Tenorio and Goff, 1980

Radfordia ensifera (Poppe, 1896)
Islands: Hawaii; Maui; Midway Islands; Oahu
Hosts: Rattus exulans; Rattus norvegicus; Rattus rattus
Literature: Garrett and Haramoto, 1967; Goff, 1975, 1983f; Joyce, 1958b; Mitchell, 1964a; Radovsky et al., 1979; Tenorio and Goff, 1980

Family Nanorchestidae*

Various unidentified species
Islands: Hawaii;* Molokai;* Oahu*
Associations: Nest of Passer domesticus;* leaf litter*

Family Oehserchestidae

Oehserchestes arboriger (Theron, 1974)
Islands: Kauai
Associations: Litter samples
Literature: Goff, 1983j

Family Pachygnathidae

Bimichaelia spp.
Islands: Hawaii;* Kauai
Associations: Mosses; ohia bark; lichens
Literature: Goff, 1983j

Family Paratydeidae*

Neotydeius sp.*
Islands: Midway Islands;* Nihoa*
Associations: Leaf litter*

Family Penthalodidae

Penthalodes ovalis (Duges, 1834)
Islands: Hawaii; Kauai
Associations: Metrosideros-tree fern forest; sugarcane fields; grasses; lichens
Literature: Goff, 1983j; Strandtmann and Goff, 1978

Family Podapolipidae

Peripolipis muraii Husband, 1984
Islands: Oahu
Hosts: Periplaneta brunnea
Literature: Husband, 1984

Podapolipus sp.*
Islands: Oahu*
Hosts: Blapstinus sp.*

Family Pontarachnidae

Litorachna sp.
Islands: Oahu
Associations: Seaweed in tidal zone
Literature: Goff, 1983m

Family Pseudocheyletidae*

Unidentified Pseudocheyletidae species*
Islands: Oahu*
Associations: Mosses on ohia tree;* litter samples*

Family Psorergatidae

Psorergates rattus Fain & Goff, 1986
Islands: Oahu
Hosts: Rattus norvegicus
Literature: Fain and Goff, 1986

Family Ptergosomatidae

Geckobia keegani Lawrence, 1949
Islands: Hawaii; Oahu
Hosts: Hemidactylus frenatus
Literature: Tenorio, 1985

Geckobia nepali Hiregauder, Joshee & Soman, 1959
Islands: Hawaii;* Oahu
Hosts: Hemidactylus frenatus; Hemidactylus garnoti
Literature: Tenorio, 1985
Geckobiella texana (Banks, 1915)
Islands: Oahu (intercepted at Honolulu Zoo)
Hosts: Sceloporus jarrovi
Literature: Goff, 1979b

Family Pyemotidae

Pyemotes boylei Krczal, 1959
Islands: Oahu; "Hawaiian Islands"
Hosts: Cryptotermes brevis; larvae of Araecerus levipennis; Coleoptera larvae infesting Leucaena glauca beans; Prosopis pallida; Samanea saman; Cassia sp.; man

Pyemotes ventricosus (Newport) Berlese, 1886
Islands: Oahu; "Hawaiian Islands"
Hosts: Man (bites associated with grains)
Literature: Boyle, 1958; Erhorn, 1913; Garrett and Haramoto, 1967; Illingworth, 1923a; Pemberton, 1943
Note: This species is probably not established in the Hawaiian Islands. All records are prior to the description of P. boylei and all specimens available for examination were that species.

Family Pygmephoridae

Pygmephorus mesembrinae Canestrini
Islands: Hawaii*
Associations: Cultivated mushrooms*

Pygmephorus sp.
Islands: Oahu
Associations: Hornfly cultures
Literature: Radovsky and Tenorio, 1976

Siteoptes cerealium Kirchner, 1900
Islands: Kauai; Maui; Oahu
Hosts: Carnation flowers
Literature: Garrett and Haramoto, 1967; Haramoto, 1961

Family Raphignathidae

Raphignathus spp.
Islands: Pearl and Hermes Reef;* Oahu;* "Hawaiian Islands"
Associations: Pheasant; soil and litter samples
Literature: Garrett and Haramoto, 1967; Schwartz and Schwartz, 1949

Family Rhagidiidae

Coccorhagia clavifrons (Canestrini, 1886)
Islands: Hawaii; Kauai*
Associations: Metrosideros—lichen litter  
Literature: Goff, 1983; Strandtmann and Goff, 1978

**Foveacheles goffi** Zacharda, 1982  
Islands: Hawaii; Molokai  
Associations: In caves  
Literature: Zacharda, 1982

**Foveacheles tenorioae** Zacharda, 1982  
Islands: Hawaii  
Associations: In caves  
Literature: Zacharda, 1982

**Parallelorhagidia hawaiensis** Zacharda, 1980  
Islands: Hawaii  
Associations: Litter samples  
Literature: Zacharda, 1980

**Philorhagidia hirsuta** Strandtmann & Goff, 1978  
Islands: Hawaii  
Associations: Metrosideros scrub litter  
Literature: Strandtmann and Goff, 1978

**Poecilophysis arena** Zacharda, 1980  
Islands: Hawaii  
Associations: Leaf litter  
Literature: Zacharda, 1980

**Poecilophysis pratensis** (Koch, 1835)  
Islands: Hawaii  
Associations: Leaf litter  
Literature: Zacharda, 1980

**Rhaqidia longisensilla** Shiba, 1969  
Islands: Hawaii  
Associations: Metrosideros litter; lichens; tree ferns (Cibotium and Sadellaria); Selaginella bog  
Literature: Strandtmann and Goff, 1978; Zacharda, 1980

**Rhaqidia shibai** Strandtmann, 1971  
Islands: Hawaii  
Associations: Metrosideros-Gleichenia litter  
Literature: Strandtmann and Goff, 1978

**Rhaqidia whartoni** Strandtmann, 1971  
Islands: Hawaii  
Associations: Metrosideros litter  
Literature: Strandtmann and Goff, 1978

**Thoria brevisensilla** Zacharda, 1980  
Islands: Hawaii  
Associations: Leaf litter  
Literature: Zacharda, 1980
Family Scutacaridae

*Scutacarus longitarsus* (Berlese, 1905)
- Islands: Kauai
- Associations: Feces of *Bufo marinus*
- Literature: Garrett and Haramoto, 1967

Unidentified species of Scutacaridae
- Islands: Hawaii; Kauai; Oahu
- Associations: Litter samples; various arthropods

Family Stigmaeidae

*Agistemus terminalis* (Quayle, 1912)
- Islands: Hawaii; Maui; Oahu
- Associations: Monterey pine; cypress; *Jasminum* sp. leaves
- Literature: Garrett and Haramoto, 1967

*Eustigmaeus* segnis (Koch, 1836)
- Islands: Kauai; Kure Atoll
- Associations: Soil and litter samples
- Literature: Goff, 1983i; Swift et al., 1985

*Eustigmaeus* sp. nr. segnis
- Islands: Kauai
- Associations: Soil and litter samples
- Literature: Goff, 1983i; Swift et al., 1985

*Eustigmaeus* sp. nr. parviseta
- Islands: Kauai
- Associations: Soil and litter samples
- Literature: Goff, 1983i; Swift et al., 1985

*Eustigmaeus kauaiensis* Swift, Gerson & Goff, 1985
- Islands: Kauai
- Associations: Moss on hau tree (*Hibiscus tilaceus*)
- Literature: Swift et al., 1985

Family Syringophilidae

Several unidentified species of Syringophilidae
- Islands: Hawaii; Oahu
- Hosts: *Acridotheres tristis; Geopelta striata; Passer domesticus; Phaeornis obscura; Richmondena cardinalis; Zosterops japonica*
- Literature: Goff, 1980

Family Tarsonemidae

*Acarapsis externus* Morgenthaler, 1932
- Islands: Oahu
- Hosts: *Apis mellifera*
- Literature: Garrett and Haramoto, 1967
Fungitarsonemus peregrinus (Beer, 1954)
Islands: Oahu
Hosts: Morning glory leaves
Literature: Garrett and Haramoto, 1967

Polyphagotarsonemus latus (Banks, 1904)
Islands: Hawaii; Maui; Oahu
Hosts: Allamanda (Allamanda cathartica var. hendersonii);* apple of Peru (Nicandra physalodes);* aster; asystasia; beet (Beta vulgaris); bell pepper (Capsicum annuum var. grossum); bitter melon (Momordica charantia); black nightshade (Solanum nigrum); buttonweed (Borreria laevis);* camellia (Camellia japonica); castor bean (Ricinus communis);* cherry (Prunus cerasus); chili pepper (Capsicum annuum var. longum); chrysanthemum (Chrysanthemum sp.); citrus trees (Citrus spp.); clidemia (Clidemia hirta);* cockscomb (Celosia argentea); cowpea (Vigna sinensis); cucumber (Cucumis sativus); dahila (Dahlia sp.); dwarf brassaia (Brassala arbicola); eggplant (Solanum melongena); false mallow (Malvastrum coromandelianum);* fiddlewood (Citharexylum spinosum); galinsoga (Galinsoga parviflora);* garden bean (Phaseolus vulgaris); gerbera (Gerbera jamesonii);* Goa or winged bean (Psophocarpus tetragonolobus); guava (Psidium guajava);* hibiscus (Hibiscus sp.); impatiens (Impatiens sp.); ironweed (Vernonia cinerea);* Japanese privet (Ligustrum japonicum);* jimson weed (Datura stramonium); lemon (Citrus limon); macadamia flowers (Macadamia integrifolia); malle (Alyxia olivaeformis);* mango (Mangifera indica); maple (Acer sp.); marigold (Tagetes sp.); marijuana (Cannabis sativa);* milo (Thespesia populnea); mock orange (Murraya paniculata); Natal plum (Carissa grandiflora);* nodeweed (Syneotrella nodiflora);* papaya (Carica papaya); passion fruit (Passiflora edulis f. flavicarpa); pikake (Jasminum sambac); plumeria (Plumeria sp.); pohin (Solanum tuberosum); potherb mustard (Brassica juncea var. japonica);* primrose jasmine (Jasminum mesnyi);* purslake (Portulaca oleracea);* Spanish needle (Bidens pilosa);* star jasmine (Jasminum multiflorum); sweet potato (Ipomoea batatas); Swiss chard (Beta vulgaris var. cicla); tar weed (Cuphea carthagenensis);* thunbergia (Thunbergia sp.);* tiare (Gardenia taitensis);* tomato (Lycopersicon esculentum); tree marigold (Tithonia speciosa); watercress (Nasturtium officinale); wild spurge (Euphorbia geniculata);* yard-long bean (Vigna sesquipedalis)
Literature: Boyle and Haramoto, 1956; Fullaway, 1943; Garrett and Haramoto, 1967; Goff, 1979c; Holaday, 1944a,b; Look, 1944, 1946; Pemberton, 1947; Swezey, 1939

Steneotarsonemus ananas (Tyron, 1908)
Islands: Oahu
Hosts: Pineapple
Literature: Beer, 1954; Garrett and Haramoto, 1967; Illingworth, 1931

Steneotarsonemus bancrofti (Michael, 1890)
Islands: Molokai;* Oahu;* "Hawaiian Islands"
Hosts: Sugarcane
Literature: Bianchi, 1940; Garrett and Haramoto, 1967; Pemberton, 1929

Steneotarsonemus furcatus DeLeon, 1955
Islands: Oahu
Hosts: Chinese taro
Literature: Goff and Mitchell, 1985

Steneotarsonemus hamakuensis Goff, 1986
Islands: Hawaii
Hosts: Koa (Acacia koa)
Literature: Goff, 1986a

Steneotarsonemus pallidus (Banks, 1899)
Islands: Hawaii; Kauai; Oahu
Hosts: Bell pepper (Capsicum annuum var. grossum); chrysanthemum (Chrysanthemum sp.)*; banana; Cyclamen indicum;* Emex spinosa; watercress (Nasturtium officinale)*; winged beans*
Literature: Bess, 1953; Boyle, 1957b; Boyle and Haramoto, 1956; Davis, 1959; Garrett and Haramoto, 1967; Haramoto and Boyle, 1958

Steneotarsonemus spirifex (Marchal, 1902)*
Islands: Oahu*
Hosts: Bermuda grass*

Tarsonemus scaurus Ewing, 1939
Islands: "Hawaiian Islands"
Hosts: Carnation flowers; fungus
Literature: Garrett and Haramoto, 1967

Tarsonemus setifer Ewing, 1939
Islands: Oahu
Hosts: Fungus or decaying spike of vanda orchid
Literature: Garrett and Haramoto, 1967

Tarsonemus unguis Ewing, 1939*
Islands: Hawaii;* Maui*
Hosts: Carnations;* Eupatorium glandulosum*

Family Tenuipalpidae

Brevipalpus californicus (Banks, 1904)
Islands: Hawaii; Oahu; "Hawaiian Islands"
Hosts: Castor bean (Ricinus communis); ohia (Metrosideros
collina); pikake (Jasminum sambac); tangerine fruits; vanda orchids (Vanda joaquin)

Literature: Boyle, 1957c; Garrett and Haramoto, 1967; Pritchard and Baker, 1958

Brevipalpus illium Baker, 1949
Islands: "Hawaiian Islands"
Hosts: Not recorded
Literature: Garrett and Haramoto, 1967; Pritchard and Baker, 1958

Brevipalpus obovatus Donnadieu, 1875
Islands: Hawaii; Kure Atoll; Laysan; Maui; Oahu; "Hawaiian Islands"
Hosts: Guava (Psidium guajava); papaya (Carica papaya); ground cherry (Physalis peruviana); Ipomoea sp.; Scaevola sp.
Literature: Butler, 1961; Butler and Usinger, 1963a,b; Garrett and Haramoto, 1967; Goff, 1983h; Marlowe, 1937; Pritchard and Baker, 1958

Brevipalpus phoenicis (Gijskes, 1939)
Islands: Hawaii; Kauai; Lanai; Molokai; Oahu; "Hawaiian Islands"
Hosts: Anthurium; Arundina bambusiflora; Bryophyllum sp.; mistletoe; Clerodendrum fragrans; lemon; orange; papaya (Carica papaya); Passiflora sp.; puncture vine; tangerine
Literature: Chilson, 1959; Garrett and Haramoto, 1967; Goff, 1983h; Pritchard and Baker, 1958; Zimmerman, 1956

Dolichotetranychus floridanus (Banks, 1900)
Islands: Oahu; "Hawaiian Islands"
Hosts: Pineapple; orchids
Literature: Chilson, 1959; Erhorn, 1922; Fullaway, 1938; Garrett and Haramoto, 1967; Illingworth, 1929b; Pritchard and Baker, 1958

Dolichotetranychus vandergooti (Oudemans, 1927)
Islands: Hawaii; Oahu; "Hawaiian Islands"
Hosts: Arundina bambusifolia; dendrobium orchids; orchids
Literature: Chilson, 1959; Garrett and Haramoto, 1967; Pritchard and Baker, 1958

Pentamerismus oregonensis McGregor, 1949
Islands: Maui; Oahu
Hosts: Arborvitae (Thuja sp.); cypress (Cupressus sp.)
Literature: Garrett and Haramoto, 1967; Haramoto, 1961

Tenuipalpus pacificus Baker, 1945
Islands: Hawaii; Molokai; Oahu; "Hawaiian Islands"
Hosts: Polypodium fern (Polypodium phylmatodes); orchid
Literature: Garrett and Haramoto, 1967; Look, 1955
Tenuipalpus spp. including nomen nudum irritans listed by Garrett and Haramoto (1967)
Islands: "Hawaiian Islands"
Hosts: Citrus sp.; orchids
Literature: Fullaway, 1938; Garrett and Haramoto, 1967; Pope, 1934

Family Terpnacaridae

Terpnacarus sp.*
Islands: Oahu*
Hosts: Nest of subterranean termites*

Family Tetranychidae

Bryobia praetiosa Koch, 1836
Islands: Hawaii; Maui; Midway Islands; Oahu
Hosts: Clover; kikuyu grass; leaf litter
Literature: Garrett and Haramoto, 1967; Goff, 1986b; Haramoto, 1961

Eutetranychus banksi (McGregor, 1914)
Islands: Maui; Oahu
Hosts: Breadfruit (Artocarpus altilis); croton (Codiaeum variegatum); lima bean (Phaseolus limensis); papaya (Carica papaya); plumeria (Plumeria acuminata)
Literature: Garrett and Haramoto, 1967; Goff, 1986b; Haramoto, 1961

Eutetranychus lewisi (McGregor, 1943)
Islands: Hawaii; Oahu
Hosts: Poinsettia (Euphorbia pulcherrima)
Literature: Garrett and Haramoto, 1967; Goff, 1986b

Eutetranychus sexmaculatus (Riley, 1890)
Islands: Oahu; "Hawaiian Islands"
Hosts: Avocado (Persea americana); citrus; guava (Psidium guajava); orange (Citrus sinensis); flowering plum; poinsettia (Euphorbia pulcherrima)
Literature: Boyle, 1957c; Garrett and Haramoto, 1967; Goff, 1986b; Pope, 1934

Oligonychus biharensis (Hirst, 1925)
Islands: Oahu
Hosts: Litchi (Litchi chinensis); loquat (Eriobotrya japonica)
Literature: Garrett and Haramoto, 1967; Goff, 1986b; McGregor, 1950; Newell, 1951

Oligonychus coffeae (Nietner, 1861)
Islands: Oahu
Hosts: False kamani (Terminalia catappa)
Literature: Chilson, 1962; Garrett and Haramoto, 1967; Goff, 1986b
Oligonychus coniferum (McGregor, 1950)
Islands: Oahu
Hosts: Arborvitae (Thujia sp.)
Literature: Garrett and Haramoto, 1967; Goff, 1986b

Oligonychus hondoensis (Ehara, 1954)
Islands: Hawaii
Hosts: Cypress (Cupressus sp.); pine (Pinus sp.)
Literature: Garrett and Haramoto, 1967; Goff, 1986b

Oligonychus mangiferus (Rahman & Sapra, 1940)
Islands: Hawaii; Lanai; Maui; Molokai; Oahu
Hosts: Ilama (Annona diversifolia); kamani (Calophyllum inophyllum); mango (Mangifera indica); rose apple (Eugenia jambos)
Literature: Chilson, 1956; Garrett and Haramoto, 1967; Goff, 1986b; McGregor, 1950; Newell, 1951; Pritchard and Baker, 1955

Oligonychus pratensis (Banks, 1912)
Islands: Molokai; Oahu; "Hawaiian Islands"
Hosts: Bamboo; sugarcane (Saccharum officinarum)
Literature: Boyle, 1956; Goff, 1986b; Swezey, 1923

Oligonychus stickneyi (McGregor, 1939)
Islands: Oahu
Hosts: Bermuda grass (Cynodon dactylon)
Literature: Goff, 1986b

Oligonychus ununguis (Jacobi, 1905)
Islands: Oahu
Hosts: Oriental arborvitae (Thuja orientalis)
Literature: Goff, 1986b

Oligonychus yothersi (McGregor, 1914)
Islands: "Hawaiian Islands"
Hosts: Mango (Mangifera indica)
Literature: Garrett and Haramoto, 1967; Goff, 1986b; Yee, 1963

Panonychus citri (McGregor, 1916)
Islands: Hawaii; Maui; Oahu; "Hawaiian Islands"
Hosts: Lime (Citrus aurantifolia); mulberry (Morus nigra and Broussonetia papyrifera); orange (Citrus sinensis); papaya (Carica papaya); pomelo (Citrus paradisi); tangerine (Citrus nobilis)
Literature: Boyle, 1957c; Garrett and Haramoto, 1967; Goff, 1986b; Pope, 1934

Petrobia harti (Ewing, 1909)
Islands: Oahu
Hosts: Wood-sorrel (Oxalis sp.)
Literature: Garrett and Haramoto, 1967; Goff, 1986b;

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Schizotetranychus asparagi (Oudemans, 1928)
Islands: Hawaii; Oahu
Hosts: Asparagus fern (Asparagus plumosus); garden asparagus (Asparagus officinalis var. altillis); Asparagus spp.
Literature: Garrett and Haramoto, 1967; Goff, 1986b

Schizotetranychus celarius (Banks, 1917)
Islands: Oahu
Hosts: Various species of bamboo (Bambusia spp.)
Literature: Boyle, 1956; Garrett and Haramoto, 1967; Goff, 1986b

Tetranychus cinnabarinus (Boisduval, 1867)
Islands: Hawaii; Kure Atoll; Maui; Midway Islands; Molokai; Nihoa; Oahu; "Hawaiian Islands"
Hosts: Baby's breath (Gypsophila paniculata); broccoli; burdock (Arctium lappa); calathea (Calathea spp.); carnation (Dianthus caryophyllus); cassava (Manihot esculenta); coffee (Coffeea sp.); corn (Zea mays); croton (Codiaeum variegatum); dasheen (Colocasia esculenta var. globulifera); dodonaea (Dodonaea eriocarpa); eggplant (Solanum melongena); head lettuce (Lactuca sativa); hibiscus (Hibiscus sp.); kidney bean (Phaseolus vulgaris); mamaki (Pipturus albidus); morning glory (Ipomoea sp.); papaya (Carica papaya); pea (Pisum sativum); pikake (Jasminum sambac); rose (Rosa sp.); snap beans (Phaseolus spp.); strawberry (Fragaria chiloensis); sugarcane (Saccharum officinarum); taro (Colocasia esculenta); tomato (Lycopersicon esculentum); watermelon (Citrullus vulgaris); zucchini (Cucurbita pepo)
Literature: Butler and Usinger, 1963a; Garrett and Haramoto, 1967; Goff, 1986b; Holdaway and Look, 1942; Krauss, 1944; Marsden, 1896; McGregor, 1912; Pritchard and Baker, 1955

Tetranychus desertorum Banks, 1900
Islands: Hawaii; Maui
Hosts: Ground cherry (Physalis peruviana)
Literature: Garrett and Haramoto, 1967; Goff, 1986b

Tetranychus ludeni Zacher, 1910
Islands: Hawaii; Maui; Oahu
Hosts: Burdock (Arctium lappa); ground cherry (Physalis peruviana); mint (Prilla frutescens var. crispa); various unidentified greenhouse plants
Literature: Garrett and Haramoto, 1967; Goff, 1986b; McGregor, 1950; Newell, 1951

Tetranychus neocalidonicus Andre, 1933
Islands: Hawaii; Kure Atoll; Molokai; Oahu
Hosts: Beans (Phaseolus spp.); chrysanthemum (Chrysanthemum morifolium); hibiscus (Hibiscus sp.); mango (Mangifera indica); peach (Prunus persica); rattlebox (Crotalaria sp.); watermelon (Citrullus vulgaris); Scaevola sp.; various unidentified greenhouse plants
Literature: Butler and Usinger, 1963a; Garrett and Haramoto, 1967; Goff, 1986b; McGregor, 1950; Pritchard and Baker, 1955

Tetranychus tumidus Banks, 1900
Islands: Molokai; Oahu
Hosts: Corn (Zea mays); sweet potato (Ipomoea batatas); spiny amaranth (Amaranthus spinosus)
Literature: Garrett and Haramoto, 1967; Goff, 1986b; Haramoto, 1961

Family Trombiculidae

Eutrombicula conantae Goff, 1984
Islands: Nihoa
Hosts: Telespyza ultima
Literature: Goff, 1984

Guntheria domrowi Brennan, 1965
Islands: Lisianski; Midway Islands; Nihoa; Pearl and Hermes Reef
Hosts: Anous stolidus; Arenaria interpres; Telespyza ultima
Literature: Brennan, 1965; Brennan and Amerson, 1971; Goff, 1984

Leptotrombidium intermedium (Nagayo, Mitamura & Tamiya, 1920)
Islands: Pearl and Hermes Reef
Hosts: Nest material of Diomedia nigripes
Literature: Goff, 1971, 1984

Neoschoengastia archaea (Tauflieb, 1960)
Islands: Oahu
Hosts: Pluvialis dominica fulvus
Literature: Goff, 1979a

Neoschoengastia ewingi Wharton & Hardcastle, 1946
Islands: Nihoa
Hosts: Telespyza ultima
Literature: Goff, 1979a, 1984

Neoschoengastia gallinarum (Hatori, 1920)
Islands: Laysan; Pearl and Hermes Reef
Hosts: Nest material of Diomedia nigripes; Pluvialis dominica
Literature: Brennan and Amerson, 1971; Goff, 1971, 1984
Neoschoengastia gettmani Goff, 1984
Islands: Midway Islands (Sand Island)
Hosts: Nest material of Diomedia immutabilis
Literature: Goff, 1984

Neoschoengastia namrui Wharton & Hardcastle, 1946
Islands: Oahu
Hosts: Pluvialis dominica fulvus
Literature: Goff, 1979

Neotrombicula megensi Goff, 1975
Islands: Midway Islands
Hosts: Rattus rattus
Literature: Goff, 1975

Neotrombicula tamiyai Philip & Fuller, 1950
Islands: Pearl and Hermes Reef
Hosts: Nest material of Diomedia nigripes
Literature: Goff, 1971

Schoengastia pobsa Brennan & Amerson, 1971
Islands: Laysan
Hosts: Telespyza ultima
Literature: Brennan and Amerson, 1971; Goff, 1984

Toritrombicula nihoaensis Goff, 1984
Islands: Nihoa
Hosts: Telespyza ultima
Literature: Goff, 1984

Toritrombicula oahuensis Goff, 1977
Islands: Oahu
Hosts: Pluvialis dominica
Literature: Goff, 1977

Family Tuckereillidae

Tuckerella ornata (Tucker, 1926)
Islands: Oahu
Hosts: Erythrina sandwichensis; mango stem (Mangifera indica); papaya (Carica papaya); pomelo (Citrus paradisi)
Literature: Boyle, 1957C; Garrett and Haramoto, 1967

Tuckerella pavoniformis (Ewing, 1922)
Islands: Lanai; Maui; Oahu; "Hawaiian Islands"
Hosts: Cypress (Cupressus sp.); guava fruit (Psidium guajava); hibiscus (Hibiscus sp.); ilex (Ilex anomala); lantana (Lantana sp.); papaya fruit (Carica papaya)
Literature: Baker and Pritchard, 1953; Ewing, 1922; Garrett and Haramoto, 1967

Family Tydeidae
<table>
<thead>
<tr>
<th>Species</th>
<th>Islands</th>
<th>Hosts</th>
<th>Literature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paralorryia sp.</td>
<td>Maui</td>
<td>Cypress (Cupressus sp.)</td>
<td>Garrett and Haramoto, 1967</td>
</tr>
<tr>
<td>Paratriophtydeus sp.</td>
<td>Kauai</td>
<td>Associations: Leaf litter</td>
<td>Goff, 1983</td>
</tr>
<tr>
<td>Pronematus ubiquitus (McGregor, 1956)*</td>
<td>Molokai;* Oahu*</td>
<td>Associations: Tomato leaves (Lycopersicon esculentum)*</td>
<td></td>
</tr>
<tr>
<td>Tydeus californicus (Banks, 1904)</td>
<td>Hawaii; Maui; Oahu</td>
<td>Hosts: Myrica faya; peach; plum</td>
<td>Garrett and Haramoto, 1967; Sherman, 1954</td>
</tr>
<tr>
<td>Tydeus tuttlei Baker, 1965*</td>
<td>Midway Islands*</td>
<td>Hosts: Leaf litter and grasses*</td>
<td></td>
</tr>
</tbody>
</table>

**Suborder Acaridida**

**Family Acaridae**

<table>
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<tr>
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<tbody>
<tr>
<td>Caloglyphus sp.*</td>
<td>Oahu*</td>
<td>Chestnuts from Florida;* cat carcasses*</td>
<td></td>
</tr>
<tr>
<td>Cosmoglyphus sp. nr. krameri*</td>
<td>Oahu*</td>
<td>Cat carcasses*</td>
<td></td>
</tr>
<tr>
<td>Histiogaster carpo (Kramer, 1882)</td>
<td>Oahu</td>
<td>Insulation of ice cream maker; various stored products*</td>
<td>Garrett and Haramoto, 1967</td>
</tr>
<tr>
<td>Rhizoglyphus echinolopus (Furmouze &amp; Robin, 1868)</td>
<td>Hawaii;* Maui;* &quot;Hawaiian Islands&quot;</td>
<td>Associations: Dried feed; bulb onions; iris bulbs*</td>
<td>Garrett and Haramoto, 1967; Illingworth, 1927a, 1928</td>
</tr>
<tr>
<td>Rhizoglyphus phylloxerae Riley, 1874</td>
<td>&quot;Hawaiian Islands&quot;</td>
<td>Associations: Pineapple root system</td>
<td>Garrett and Haramoto, 1967; Illingworth, 1929b</td>
</tr>
</tbody>
</table>
Sancassania sp.*
Islands: Oahu*
Associations: Cat carcasses*

Suidasia pontifica Oudemans, 1905
Islands: Oahu; "Hawaiian Islands"
Associations: House dust; various stored products
Literature: Garrett and Haramoto, 1967

Tyroglyphus sp.
Islands: "Hawaiian Islands"
Associations: Pineapple; biting humans
Literature: Bonnet, 1948a; Garrett and Haramoto, 1967;
Illingworth, 1927b

Tyrophagous putrescentiae (Schrank, 1781)
Islands: Hawaii; Kauai; Maui; Midway Islands; Nihoa; Oahu
Associations: Nest of Corvus tropicus; passion fruit;
bread; culture medium for microbiology laboratory;* soil
and litter samples;* various stored products
Literature: Garrett and Haramoto, 1967

Tyrophagous tenuiclavus Zachvatkin, 1941*
Islands: Kauai*
Associations: In commercial cooler*

Family Analgesidae

Megninia columbiae (Buchholtz, 1869)
Islands: "Hawaiian Islands"
Hosts: Pheasants; pigeons
Literature: Garrett and Haramoto, 1967; Schwartz and
Schwartz, 1949

Megninia cubitalis (Megnin, 1877)
Islands: "Hawaiian Islands"
Hosts: Domestic chickens
Literature: Alicata, 1947; Garrett and Haramoto, 1967

Megninia ginglymura (Megnin, 1877)
Islands: "Hawaiian Islands"
Hosts: Pheasants
Literature: Garrett and Haramoto, 1967; Schwartz and
Schwartz, 1949

Family Analgidae

Analges sp.
Islands: Hawaii; Oahu
Hosts: Corvus tropicus;* Himatione sanguinea; Phaeornis
obscura; Psittirostra cantans ultima;* Vestiaria
coccinea
Literature: Goff, 1980
Anhemalges sp.
Islands: Hawaii
Hosts: Himatione sanguinea; Zosterops japonica
Literature: Goff, 1980

Mesalgoides sp. *
Islands: Hawaii*
Hosts: Corvus tropicus*

Onychalges sp.
Islands: Hawaii
Hosts: Lonchura punctulata
Literature: Goff, 1980

Strelkovarius sp.
Islands: Hawaii
Hosts: Zosterops japonica
Literature: Goff, 1980

Family Atopomelidae

Listrophoroides cucullatus (Trouessart, 1893)
Islands: Hawaii; Midway Islands; Oahu
Hosts: Rattus exulans; Rattus norvegicus; Rattus rattus
Literature: Garrett and Haramoto, 1967; Goff, 1975; Mitchell, 1964a; Radovsky et al., 1979; Tenorio and Goff, 1980

Family Chirodiscidae

Chirodiscoides caviae Hirst, 1917
Islands: Oahu
Hosts: Guinea pig
Literature: Tenorio, 1985

Olabidocarpus americanus McDaniel & Lawrence, 1964
Islands: Hawaii
Hosts: Lasiurus cinereus semotus
Literature: McDaniel and Tenorio, 1979

Family Cytoditidae

Cytodites nudus (Vizioli, 1870)
Islands: "Hawaiian Islands"
Hosts: Domestic chickens
Literature: Bice, 1932; Garrett and Haramoto, 1967

Family Dermoglyphidae

Pterolichus obtusus Robin, 1868
Islands: "Hawaiian Islands"
Hosts: Domestic chickens
Literature: Alicata, 1947; Garrett and Haramoto, 1967
Xoloptes sp.
Islands: "Hawaiian Islands"
Hosts: Coturnix coturnix japonica; Lophortyx californica
Literature: Garrett and Haramoto, 1967; Schwartz and Schwartz, 1949

Family Gabucinidae

Gabucina delibatus (Robin, 1877)*
Islands: Hawaii*
Hosts: Corvus tropicus*

Gabucina sp.
Islands: Oahu
Hosts: Pigeon
Literature: Garrett and Haramoto, 1967; Zimmerman, 1956

Family Glycyphagidae

Glycyphagus domesticus (DeGeer, 1771)
Islands: Oahu
Associations: In houses
Literature: Garrett and Haramoto, 1967; Sharp and Haramoto, 1970; Zimmerman, 1956

Family Hemisarcoptidae

Hemisarcoptes sp. nr. malus*
Islands: Oahu*
Associations: Feeding on Conchaspis angracei*

Family Histiostomatidae

Histiostoma sp.
Islands: Oahu
Associations: Cat carcasses
Literature: Early and Goff, 1986; Goff et al., 1986

Myianoctus sp.
Islands: Oahu
Associations: Cat carcasses
Literature: Early and Goff, 1986; Goff et al., 1986

Family Knemidocoptidae

Knemidocoptes mutans (Robin & Lanquetin, 1859)
Islands: "Hawaiian Islands"
Hosts: Domestic chickens
Literature: Bice, 1932; Garrett and Haramoto, 1967

Knemidocoptes pilae Lavoipier & Griffiths, 1951
Islands: Oahu; "Hawaiian Islands"
Hosts: Parakeets
Literature: Garrett and Haramoto, 1967; Ivens et al., 1965

Mesoknemidocoptes gallinae (Railliet, 1887)
Islands: "Hawaiian Islands"
Hosts: Domestic chickens
Literature: Bice, 1932; Garrett and Haramoto, 1967

Family Lardoglyphidae

Lardoglyphus zacheri (Oudemans, 1930)
Islands: Oahu
Associations: Cat carcasses
Literature: Early and Goff, 1986; Goff et al., 1986

Family Listrophoridae

Afrolistrophorus musculus (Wilson & Lawrence, 1967)
Islands: Hawaii; Kahoolawe; Manana; Midway Islands; Oahu
Hosts: Mus musculus
Literature: Garrett and Haramoto, 1967; Goff, 1975; Joyce, 1959; Radovsky et al., 1979; Tenorio and Goff, 1980; Wilson and Lawrence, 1967

Listrophorus gibbus Pagenstecher, 1861
Islands: Manana; Oahu
Hosts: Oryctolagus cuniculus
Literature: Garrett and Haramoto, 1967; Tomich et al., 1968

Lynxacarus radovskyi Tenorio, 1974
Islands: Kauai; Oahu
Hosts: Domestic cats
Literature: Tenorio, 1974

Family Myocoptidae

Myocoptes musculinus (Koch, 1884)
Islands: Hawaii; Kahoolawe; Midway Islands; Oahu
Hosts: Mus musculus
Literature: Garrett and Haramoto, 1967; Goff, 1975; Joyce, 1957; Radovsky et al., 1979; Tenorio and Goff, 1980

Family Proctophylloydidae

Proctophyllodes longiphyllus Atyeo & Braasch, 1966
Islands: Oahu
Hosts: Richmondena cardinalis
Literature: Garrett and Haramoto, 1967

Proctophyllodes vegetans Trouessart, 1899
Islands: "Hawaiian Islands"
Hosts: Carpodacus mexicanus
Literature: Garrett and Haramoto, 1967
Proctophyllodes spp.
Islands: Hawaii
Hosts: Himatiorne sanguinea; Loxops virens; Phaeornis obscura; Telespyza ultima (captive on Hawaii Island);* Vestlaria coccinea
Literature: Goff, 1980

Pterodectes spp.
Islands: Hawaii;* Laysan
Hosts: Acrocephalus familiaris kingi; Himatiorne sanguinea,* Telespyza ultima,* Phaeornis obscura,*
Literature: Goff and Conant, 1985

Family Psoroptidae

Otodectes cyanotis (Hering, 1838)
Islands: Oahu
Hosts: Dog
Literature: Garrett and Haramoto, 1967

Psoroptes cuniculi (Delafond, 1859)
Islands: Oahu
Hosts: Rabbits
Literature: Pemberton, 1946

Family Pteronyssidae

Pteroherpus oxyplax (Gaud & Mouchet, 1959)*
Islands: Nihoa*
Hosts: Acrocephalus familiaris kingi*

Mouchetia sp. nr. dolochoskya
Islands: Hawaii
Hosts: Zosterops japonica
Literature: Goff, 1980

Mouchetia sp.
Islands: Hawaii
Hosts: Himatiorne sanguinea
Literature: Goff, 1980

Family Pyroglyphidae

Dermatophagoides evansi Fain, 1967
Islands: Oahu
Associations: Nest of Passer domesticus
Literature: vanBronswijk and Goff, 1983

Dermatophagoides farinae Hughes, 1961
Islands: Oahu; "Hawaiian Islands"
Associations: House dust
Literature: Sharp and Haramoto, 1967
Dermatophagoides pteronyssinus (Trouessart, 1897)
Islands: Oahu; "Hawaiian Islands"
Associations: House dust
Literature: Garrett and Haramoto, 1967 (as Dermatophagoides scheremetewskyi); Sharp and Haramoto, 1970

Family Sarcoptidae

Notoedres cati (Hering, 1838)
Islands: Hawaii; Oahu
Hosts: Herpestes auropunctatus
Literature: Garrett and Haramoto, 1967

Sarcoptes scabei (DeGeer, 1778)
Islands: Oahu; "Hawaiian Islands"
Hosts: Man
Literature: Garrett and Haramoto, 1967

Sarcoptes suis Gerlach, 1857
Islands: "Hawaiian Islands"
Hosts: Sus scrofa
Literature: Alicata, 1947; Bonnet, 1948a; Garrett and Haramoto, 1967

Trixacarus caviae Fain, Howell & Hyatt, 1972
Islands: Oahu
Host: Guinea pig
Literature: Goff and Conant, 1985b

Family Trouessartidae

Calcealges yunkeri Gaud, 1962
Islands: Hawaii
Hosts: Zosterops japonica
Literature: Goff, 1980

Calcealges sp.
Islands: Hawaii
Hosts: Himatione sanguinea
Literature: Goff, 1980

Trouessartia trouessarti Oudemans
Islands: Nihoa
Hosts: Acrocephalus familiaris kingi
Literature: Goff and Conant, 1985

Trouessartia spp.
Islands: Hawaii
Hosts: Locustula punctulata; Loxops virens; Phaeornis obscurus; Zosterops japonica
Literature: Goff, 1980

Family Winterschmidtiidae

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**Czenspinskia transversostriata** (Oudemans, 1931)
- Islands: Oahu
- Associations: Cat carcasses
- Literature: Early and Goff, 1986; Goff et al., 1986

**Family Xolalgidae**

**Ingrassiella sp.*
- Islands: Nihoa*
- Hosts: Telespyza ultima*

**Unidentified species of Xolalgidae**
- Islands: Hawaii; Nihoa*
- Hosts: *Asio flammeus sandwichensis*; *Acrocephalus familiaris kingi* *
- Literature: Goff, 1980

**Suborder Oribatida**

**Family Aphelacaridae**

**Aphelacarus sp.**
- Islands: Kahoolawe
- Associations: Roots of bunchgrasses (*Atriplex semibaccata* and *Chloris virgata*); kiawe litter
- Literature: Sengbusch and Sengbusch, 1984

**Family Carabodidae**

**Anisochthodes papillifer** Newell, 1957
- Islands: Oahu
- Associations: Bark and leaves of *Metrosideros polymorpha*
- Literature: Garrett and Haramoto, 1967; Newell, 1957

**Carabodes imperfectus** Sellnick, 1959
- Islands: Midway Islands
- Associations: Nest material of *Diomedia nigripes*
- Literature: Aoki, 1966; Garrett and Haramoto, 1967; Sellnick, 1959

**Carabodes** spp.
- Islands: Kure Atoll; Oahu*
- Associations: Litter and soil samples; associated with damage to *Citrus sinensis* *
- Literature: Butler and Usinger, 1963a; Garrett and Haramoto, 1967

**Odontocephus immarginatus** Jacot, 1934
- Islands: Oahu
- Associations: *Sphenomorphus chinensis*
- Literature: Garrett and Haramoto, 1967; Jacot, 1934

**Family Ceratozetidae**
Ceratozetus incurvus Aoki, 1964
Islands: Laysan
Associations: Roots of bunchgrass
Literature: Aoki, 1964b; Garrett and Haramoto, 1967

Humerobates perkinsi (Jacot, 1934)
Islands: Hawaii; Lanai; Oahu
Associations: Litter samples
Literature: Garrett and Haramoto, 1967; Jacot, 1934;
Pearce, 1910

Hypozetes laysanensis Aoki, 1964
Islands: Kahoolawe; Laysan
Associations: Kiawe scrub litter; resting place of wedge-tailed shearwater (Puffinus pacificus chlororhynchus); roots of grasses (Atriplex semibaccata and Chloris virgata)
Literature: Aoki, 1964b; Garrett and Haramoto, 1967;
Sengbusch and Sengbusch, 1984

Family Cosmochthoniidae

Sphaerochthonius suzukii Aoki, 1977
Islands: Kahoolawe
Associations: Kiawe scrub litter
Literature: Sengbusch and Sengbusch, 1984

Family Cymbaeremaeidae

Scapheremaeus fisheri Aoki, 1966
Islands: Midway Islands
Associations: Nest material of Diomedia immutabilis
Literature: Aoki, 1966; Garrett and Haramoto, 1967

Scapheremaeus sinsus Aoki, 1964
Islands: Kahoolawe; Laysan
Associations: Roots of bunchgrasses (Atripogon semibaccata and Chloris virgata); resting place of wedge-tailed shearwater (Puffinus pacificus chlororhynchus)
Literature: Aoki, 1964b; Garrett and Haramoto, 1967;
Sengbusch and Sengbusch, 1984

Family Epilohmanniidae

Epilohmannia cylindrica (Berlese, 1904)
Islands: Laysan; Oahu
Associations: Soil samples; roots of bunchgrass
Literature: Aoki, 1965; Garrett and Haramoto, 1967; Jacot, 1934

Epilohmannia pallida pacifica Aoki, 1965
Islands: Laysan
Associations: Roots of bunchgrass
Literature: Aoki, 1965; Garrett and Haramoto, 1967

Family Eremaeidae

Calvoppia perkinsi Jacot, 1934
- Islands: Hawaii; Maui; "Hawaiian Islands"
- Associations: No data available
- Literature: Garrett and Haramoto, 1967; Jacot, 1934; Pearce, 1910 (misidentified as Notaspis lucorum Koch, 1841)

Imparatoppia imparata Jacot, 1934
- Islands: "Hawaiian Islands"
- Associations: No data available
- Literature: Garrett and Haramoto, 1967; Jacot, 1934; Pearce, 1910 (misidentified as Notaspis lucorum Koch, 1841)

Oribata alata (Hermann, 1804)
- Islands: Hawaii; Kauai; Lanai
- Associations: No data available
- Literature: Garrett and Haramoto, 1967; Pearce, 1910

Oribata lapidaria Lucas, 1846
- Islands: Hawaii
- Associations: No data available
- Literature: Garrett and Haramoto, 1967; Pearce, 1910

Oribata ovalis Koch, 1835
- Islands: Kauai
- Associations: No data available
- Literature: Garrett and Haramoto, 1967; Pearce, 1910

Phauloppia bryani Jacot, 1934
- Islands: French Frigate Shoals
- Associations: Litter samples
- Literature: Garrett and Haramoto, 1967; Jacot, 1934

Family Euphthiracaridae

Rhysotritia ardua (Koch, 1841)
- Islands: Midway Islands
- Associations: Nest material of Diomedia nigripes
- Literature: Aoki, 1966; Garrett and Haramoto, 1967

Family Galumnidae

Galumna australis pembertoni (Jacot, 1934)
Islands: Hawaii; Lanai; Midway Islands; Oahu
Associations: Sugarcane (under ground); under stones; nest material of Diomedia immutabilis
Literature: Aoki, 1966; Garrett and Haramoto, 1967

Galumna flabellifera Hammer, 1958
Islands: Kahoolawe; Laysan
Associations: Kiawe scrub litter; roots of bunchgrass; resting place of wedge-tailed shearwater (Puffinus pacificus chlororhynchus)
Literature: Aoki, 1964b; Garrett and Haramoto, 1967; Sengbusch and Sengbusch, 1984

Galumna fordi (Jacot, 1934)
Islands: Oahu
Associations: Collected under stones
Literature: Garrett and Haramoto, 1967; Jacot, 1934

Galumna hawaiiensis Jacot, 1934
Islands: Oahu
Associations: Under bark of dead tree
Literature: Garrett and Haramoto, 1967; Jacot, 1934

Galumna swezeyi Jacot, 1934
Islands: Lanai; Oahu
Associations: Dead Euphorbia sp.
Literature: Bryant, 1931; Garrett and Haramoto, 1967; Jacot, 1934

Pergalumna sp.
Islands: Kure Atoll
Associations: No data available
Literature: Butler and Usinger, 1963a; Garrett and Haramoto, 1967

Family Haplozetidae

Protoribates pembertoni (Jacot, 1934)
Islands: Hawaii
Associations: Hole in sugarcane root
Literature: Garrett and Haramoto, 1967; Jacot, 1934

Family Lamellareidae

Tenuelamella hawaiiensis Balogh, 1985
Islands: Maui
Associations: Metrosideros sp. litter
Literature: Balogh, 1985

Family Liodidae

Liodes hawaiiensis (Jacot, 1929)
Islands: Lanai; Maui; Molokai; Oahu
Associations: Litter samples; dead tree fern stump
Literature: Garrett and Haramoto, 1967; Jacot, 1929, 1934

Liodes swezeyi (Jacot, 1929)
Islands: Oahu
Associations: No data available
Literature: Garrett and Haramoto, 1967; Jacot, 1929, 1934

Liodes theleproctus (Hermann, 1804)
Islands: Hawaii; Kauai; Lanai; Molokai
Associations: Soil samples
Literature: Garrett and Haramoto, 1967; Pearce, 1910

Liodes wakensis (Jacot, 1929)
Islands: Nihoa
Associations: Soil samples
Literature: Garrett and Haramoto, 1967; Jacot, 1929, 1934

Family Lohmanniidae

Vepracarus sp.
Islands: Kahoolawe
Associations: Kiawe scrub litter
Literature: Sengbusch and Sengbusch, 1984

Family Microzetidae

Microzetes auxilaris Grandjean, 1936
Islands: Laysan
Associations: Roots of bunchgrass
Literature: Aoki, 1964b; Garrett and Haramoto, 1967

Family Niphocepheidae

Cephus pustulatus (Pearce, 1910)
Islands: Molokai
Associations: No data available
Literature: Garrett and Haramoto, 1967; Pearce, 1910

Family Oppiidae

Multioppia wilsoni Aoki, 1964
Islands: Kahoolawe; Laysan
Associations: Kiawe litter; roots of Heteropogon sp.; resting place of wedge-tailed shearwater (Puffinus pacificus chlororhynchos)
Literature: Aoki, 1964b; Garrett and Haramoto, 1967; Sengbusch and Sengbusch, 1984

Oppia alces (Jacot, 1934)
Islands: Hawaii
Associations: Hole in sugarcane root
Literature: Garrett and Haramoto, 1967; Jacot, 1934
Oppia cronus Jacot, 1934
Islands: Oahu
Associations: Soil samples
Literature: Garrett and Haramoto, 1967; Jacot, 1934

Oppia ultraciliata (Jacot, 1934)
Islands: Oahu
Associations: Decaying sugarcane
Literature: Garrett and Haramoto, 1967; Jacot, 1934

Oppia sp.
Islands: Kahoolawe
Associations: Kiawe litter; roots of Heteropogon sp.
Literature: Sengbusch and Sengbusch, 1984

Family Oribatritiidae

Oribatrita hawaiiensis (Jacot, 1928)
Islands: Oahu
Associations: Under bark of dead tree
Literature: Bryant, 1931; Garrett and Haramoto, 1967; Jacot, 1928, 1934

Family Oribatulidae

Campbellobates acanthus hawaiiensis Balogh, 1985
Islands: "Hawaiian Islands"
Associations: Moss
Literature: Balogh, 1985

Cardiobates oriformis (Pearce, 1910)
Islands: Hawai"; "Hawaiian Islands"
Associations: No data available
Literature: Garrett and Haramoto, 1967; Jacot, 1934; Pearce, 1910

Nesorbatula pacifica Aoki, 1964
Islands: Laysan
Associations: Resting place of wedge-tailed shearwater
(Puffinus pacificus chlororhynchus); roots of bunchgrass
Literature: Aoki, 1964b; Garrett and Haramoto, 1967

Protoschelobates castlei Jacot, 1934
Islands: Oahu
Associations: Woodchips
Literature: Garrett and Haramoto, 1967; Jacot, 1934

Protoschelobates insularis Jacot, 1934
Islands: Hawaii; Oahu
Associations: Decaying sugarcane; hole in sugarcane root; mosses
Literature: Garrett and Haramoto, 1967; Jacot, 1934
Protoschelobates pembrotoni Jacot, 1934
Islands: Hawaii; Oahu
Associations: Sugarcane roots; hole in sugarcane root; soil samples in sugarcane field
Literature: Garrett and Haramoto, 1967; Jacot, 1934

Protoschelobates vanzwaluwenburgi Jacot, 1934
Islands: Oahu
Associations: Soil samples in sugarcane field
Literature: Garrett and Haramoto, 1967; Jacot, 1934

Schelobates calcaratus Jacot, 1934
Islands: Laysan; Oahu
Associations: Soil samples under Heliotropum sp.; soil samples from sugarcane fields
Literature: Butler and Usinger, 1963b; Garrett and Haramoto, 1967; Jacot, 1934

Schelobates elegans Hammer, 1958
Islands: Kahoolawe
Associations: Kiawe scrub litter
Literature: Sengbusch and Sengbusch, 1984

Schelobates indica (Oudemans, 1915)
Islands: Oahu
Associations: Epigeous moss under Sphenomorpha sp.
Literature: Garrett and Haramoto, 1967; Jacot, 1934

Schelobates manoai Jacot, 1934
Islands: Oahu
Associations: Base of Sadleria cyatheoides stump
Literature: Garrett and Haramoto, 1967; Jacot, 1934

Schelobates muiri Jacot, 1934
Islands: Midway Islands; Oahu
Associations: Soil samples under sugarcane leaf sheath; nest material of Diomedia immutabilis
Literature: Aoki, 1966; Garrett and Haramoto, 1967; Goff, 1983k; Jacot, 1934

Schelobates oahuensis Jacot, 1934
Islands: Oahu
Associations: Dead twigs and grasses
Literature: Garrett and Haramoto, 1967; Jacot, 1934

Schelobates pectinatus Jacot, 1934
Islands: Oahu
Associations: Soil samples; sugarcane fields
Literature: Garrett and Haramoto, 1967; Jacot, 1934

Schelobates sp.
Islands: Oahu
Associations: Holes in corn roots
Family Oripodidae

Oripoda prominens Balogh, 1985
Islands: Maui
Associations: Decomposing *Metrosideros* sp. stem
Literature: Balogh, 1985

Scriptoripoda excellens Balogh, 1985
Islands: Maui
Associations: Scattered shrubs with humus
Literature: Balogh, 1985

Scriptoripoda tenorioae Balogh, 1985
Islands: Hawaii
Associations: Mosses and lichens
Literature: Balogh, 1985

Family Phthiracaridae

Hoploderma dasypus (Duges, 1834)
Islands: Hawaii; Kauai; Lanai; Oahu
Associations: No data available
Literature: Garrett and Haramoto, 1967; Pearce, 1910

Hoplophorella singularis Sellnick, 1959
Islands: Kahoolawe
Associations: *Kiawe* litter; roots of *Heteropogon* sp.
Literature: Sengbusch and Sengbusch, 1984

Family Tectocepheidae

Tectocepheus sarakensis Tragardh, 1910
Islands: Kahoolawe; Laysan
Associations: *Kiawe* litter; roots of bunchgrass; roots of *Heteropogon* sp.
Literature: Aoki, 1964b; Garrett and Haramoto, 1967; Sengbusch and Sengbusch, 1984

Tectocepheus velatus (Michael, 1880)
Islands: Midway Islands
Associations: Nest material of *Diomedia immutabilis*
Literature: Aoki, 1966; Garrett and Haramoto, 1967

Family Trhypochthoniidae

Hydronothrus crispus Aoki, 1964
Islands: Kauai
Associations: Water in taro patch
Literature: Aoki, 1964b; Garrett and Haramoto, 1967
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