

A CATALOG OF ACARI
OF THE HAWAIIAN ISLANDS

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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. This 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), endemism 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 endemism 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: Diomedea immutabilis; Diomedea 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; Diomedea nigripes; "albatross"

Literature: Beardsley, 1965; Butler, 1961; Butler and Usinger, 1963a, Garrett and Haramoto, 1967; Joyce, 1953; Kohls, Sonenshine, and Clifford, 1965

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; Diomedea 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: Hylaeus 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, 1983h; 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

Cheiroseius serratus (Halbert, 1915)

Islands: Kauai

Associations: Mosses in stream

Literature: Goff, 1983i; 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 illepidia; 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 Ichtyostomatogasteridae*

Unidentified Ichtyostomatogasteridae

Islands: Oahu*

Associations: Leaf litter

Family Laelapidae

Androlaelaps casalis (Berlese, 1887)

Islands: Hawaii; Oahu

Associations: Nest of Lonchura punctulata; Canis familiaris, coconut

Literature: Chilson, 1954; Garrett and Haramoto, 1967; Tenorio et al., 1985

Androlaelaps hermaphrodita (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 diversichaetus Grochovskaya & Nguen-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; Coccolobba 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, 1964 a, 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, 1964 a, 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 Diomedea nigripes

Literature: Tenorio, 1982; Tenorio et al., 1985

Family Macrochelidae

Glypthalaspis 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 Diomedea 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 muscadomesticae (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 Diomedea 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: Acridotheres 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; Strandtmann and Wharton, 1958;
Tenorio et al., 1985; Zimmerman, 1944

Ornithonyssus sylviarum (Canestrini & Fanzago, 1877)

Islands: Hawaii; Oahu

Hosts: Carpodacus frontalis; Chasiempis sandwichensis;
chickens; unidentified nests; man

Literature: Garrett and Haramoto, 1967; Goff, 1980, 1983; 1;
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 Dubautia
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; ulule 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 haleakalus 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, 1968b; 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, 1968b; 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

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

Phytoseius 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 macropilis (Banks, 1909)

Islands: Hawaii; Molokai; Oahu

Associations: Cassia sp.; coffee; cypress; avocado; litchi

Literature: Garrett and Haramoto, 1967; Prasad, 1968c;
Tenorio et al., 1985

Note: As noted by Tenorio et al. (1985), the records of
T. macropilis presented by Cunliffe and Baker (1953)
and Denmark (1966) are misidentifications and thus not
listed here as literature citations.

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 aetus (Chant, 1961)

Islands: Hawaii

Associations: Soil and litter samples

Literature: Tenorio et al., 1985; Wainstein, 1983

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 geopeliae Fain, 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;
Strandtmann 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

Vegaia 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 uncata 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. pacifica*

Islands: Oahu*

Associations: Algae on rocks and seawall *

Bdellodes sp. nr. graminis*

Islands: Oahu*

Associations: Koa litter;* litchee 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*

Stigmathus 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 Acridotheres 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, 1985a

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, 1983c

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, 1983c

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 1983a,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 wellsi (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, 1983e
- Ker palmatus Muma, 1964
 Islands: Nihoa
 Associations: Soil and litter samples
 Literature: Diaz Patxot and Goff, 1985
- Mexacheles hawaiiensis (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: Hawaii; Oahu
Associations: Soil and litter samples; Metrosideros sp. litter
Literature: Goff, 1983h,j

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 Ereyenetidae

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

Opthalmognathus 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 Ereyetidae*

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 (Masee, 1939)

Islands: Maui; Oahu; "Hawaiian Islands"
Hosts: Tomato; Solanum nodiflorum
Literature: Garrett and Haramoto, 1967; Holdaway, 1944c;
Nishida, 1944

Aculus broussaisia 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; Holdaway and 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 mangifera 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*

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, 1983a,c,j; Strandtmann and Goff, 1978

Eupodes sigmoidensis 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

Hawaieupodes 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, 1983i

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

Literature: Arnold and Haramoto, 1962; Garrett and
Haramoto, 1967; Krczal, 1959

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

Siteroptes 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, 1983i; 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 hawaiiensis 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
- Rhagidia longisensilla Shiba, 1969
Islands: Hawaii
Associations: Metrosideros litter; lichens; tree ferns
(Cibotium and Sadellaria); Selaginella bog
Literature: Strandtmann and Goff, 1978; Zacharda, 1980
- Rhagidia shibai Strandtmann, 1971
Islands: Hawaii
Associations: Metrosideros-Gleichenia litter
Literature: Strandtmann and Goff, 1978
- Rhagidia 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, 1983_{g,h}; Swift et al., 1985

Eustigmaeus sp. nr. segnis

Islands: Kauai

Associations: Soil and litter samples

Literature: Goff, 1983_i; Swift et al., 1985

Eustigmaeus sp. nr. parviseta

Islands: Kauai

Associations: Soil and litter samples

Literature: Goff, 1983_i; 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; Richmondia 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); dahlia (Dahlia sp.); dwarf brassica (Brassica arbuticola); 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 limensis); macadamia flowers (Macadamia integrifolia); maile (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 (Synedrella nodiflora);* papaya (Carica papaya); passion fruit (Passiflora edulis f. flavicarpa); pikake (Jasminum sambac); plumeria (Plumeria sp.); poha; potato (Solanum tuberosum); potherb mustard (Brassica juncea var. japonica);* primrose jasmine (Jasminum mesnyi);* purslane (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; Holdaway, 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 hamakuaensis 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 phymatodes); 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

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

Eotetranychus 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 (Thuja 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;

Haramoto, 1961

Schizotetranychus asparagi (Oudemans, 1928)

Islands: Hawaii; Oahu

Hosts: Asparagus fern (Asparagus plumosus); garden
asparagus (Asparagus officinalis var. altilis);
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 (Coffea 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 Diomedea 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 Diomedea nigripes; Pluvialis dominica
Literature: Brennan and Amerson, 1971; Goff, 1971, 1984

Neoschoengastia gettmani Goff, 1984

Islands: Midway Islands (Sand Island)

Hosts: Nest material of Diomedea immutabilis

Literature: Goff, 1984

Neoschoengastia namrui Wharton & Hardcastle, 1946

Islands: Oahu

Hosts: Pluvialis dominica fulvus

Literature: Goff, 1979a

Neotrombicula megensi Goff, 1975

Islands: Midway Islands

Hosts: Rattus rattus

Literature: Goff, 1975, 1984

Neotrombicula tamiyai Philip & Fuller, 1950

Islands: Pearl and Hermes Reef

Hosts: Nest material of Diomedea nigripes

Literature: Goff, 1971, 1984

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 Tuckerellidae

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

Paralorryia sp.

Islands: Maui

Hosts: Cypress (Cupressus sp.)

Literature: Garrett and Haramoto, 1967

Paratriophtydeus sp.

Islands: Kauai

Associations: Leaf litter

Literature: Goff, 1983j

Pronematus ubiquitus (McGregor, 1956)*

Islands: Molokai;* Oahu*

Associations: Tomato leaves (Lycopersicon esculentum)*

Tydeus californicus (Banks, 1904)

Islands: Hawaii; Maui; Oahu

Hosts: Myrica faya; peach; plum

Literature: Garrett and Haramoto, 1967; Sherman, 1954

Tydeus tuttlei Baker, 1965*

Islands: Midway Islands*

Hosts: Leaf litter and grasses*

Suborder Acaridida

Family Acaridae

Caloglyphus sp.*

Islands: Oahu*

Associations: Chestnuts from Florida;* cat carcasses*

Cosmoglyphus sp. nr. krameri*

Islands: Oahu*

Associations: Cat carcasses*

Histiogaster carpo (Kramer, 1882)

Islands: Oahu

Associations: Insulation of ice cream maker; various stored products*

Literature: Garrett and Haramoto, 1967

Rhizoglyphus echinolopus (Furmouze & Robin, 1868)

Islands: Hawaii;* Maui;* "Hawaiian Islands"

Associations: Dried feed; bulb onions; iris bulbs*

Literature: Garrett and Haramoto, 1967; Illingworth, 1927a, 1928

Rhizoglyphus phylloxerae Riley, 1874

Islands: "Hawaiian Islands"

Associations: Pineapple root system

Literature: Garrett and Haramoto, 1967; Illingworth, 1929b

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 (Schränk, 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

Myianoetus 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 Lavoipierre & 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 musculus (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 Proctophyllodidae

Proctophyllodes longiphyllus Atyeo & Braasch, 1966

Islands: Oahu

Hosts: Richmondia 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: Himatione sanguinea; Loxops virens; Phaeornis obscura; Telespyza ultima (captive on Hawaii Island);*
Vestiaria coccinea

Literature: Goff, 1980

Pterodectes spp.

Islands: Hawaii;* Laysan

Hosts: Acrocephalus familiaris kingi; Himatione 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: Himatione 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 scabiei (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 yunkerii 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: Lonchura punctulata; Loxops virens; Phaeornis obscurus; Zosterops japonica

Literature: Goff, 1980

Family Winterschmidtidae

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 Diomedea 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

Ceratozetes 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

Hypozaetes 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 Diomedea immutabilis

Literature: Aoki, 1966; Garrett and Haramoto, 1967

Scapheremaeus sinosus 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 Diomedea nigripes

Literature: Aoki, 1966; Garrett and Haramoto, 1967

Family Galumnidae

Galumna alimata (Koch, 1841)

Islands: Midway Islands

Associations: Nest material of Diomedea immutabilis

Literature: Aoki, 1966; Garrett and Haramoto, 1967

Galumna australis pembertoni (Jacot, 1934)

Islands: Hawaii; Lanai; Midway Islands; Oahu
Associations: Sugarcane (under ground); under stones;
nest material of Diomedea 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 fordii (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 pembedtoni (Jacot, 1934)

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

Family Lamellareidae

Tenuelamellarea 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 Niphocephidae

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 chlororhynchus)

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: Hawaii; "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 pambertoni 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 Diomedea 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

Literature: Goff and Bianchi, 1983

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 Diomedea immutabilis

Literature: Aoki, 1966; Garrett and Haramoto, 1967

Family Trhypochthoniidae

Hydronthrus crispus Aoki, 1964

Islands: Kauai

Associations: Water in taro patch

Literature: Aoki, 1964b; Garrettt and Haramoto, 1967

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