

Notes on Insects and Other Arthropods from the Islands of Molokai and Maui, Hawaii

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Board of Agriculture and Forestry

(Presented at the meeting of December 13, 1943)

The insects and other arthropods listed in this paper were collected on Molokai during the periods May 29 to June 5 and October 8 to 13, and on Maui June 5 to 13, 1943. The Thysanoptera have been reported on in another paper.¹ My thanks are extended to the following persons who have kindly identified most of the specimens: D. T. Fullaway (parasitic Hymenoptera), O. H. Swezey (Coleoptera, some of the Diptera, Cicadellidae, Delphacidae, Cixiidae), F. X. Williams (Hymenoptera, most of the Diptera), E. C. Zimmerman (weevils, Hemiptera), E. O. Essig (Aphididae), H. Morrison (Coccidae), L. M. Russell (Aleyrodidae), R. V. Chamberlin (Araneida) and H. E. Ewing and E. A. McGregor (Acarina). Species apparently here recorded for the first time from Molokai or Maui are marked with an asterisk.

ARANEIDA

- **Latrodectus geometricus* Koch, south central Molokai, May 31.
- **Latrodectus mactans hesperus* Chamberlin and Ivie, south central Molokai, May 31.

ACARINA

- Anystis* sp., probably *A. agilis* Bks., near edge of Waikolu Valley, Molokai, June 3, ex *Metrosideros* sp.; Wailuku, Maui, June 13, ex leaves of hibiscus.
- Tetranychus* sp., south central Molokai, May 31, ex leaves *Datura stramonium* L.
- Tetranychus* sp., nearest *bimaculatus* Harv., Kawela, Molokai, June 2, ex tomato leaves.

ORTHOPTERA

Tettigoniidae

- Elimaea punctifera* (Walk.), 1, eastern Molokai, May 30.

¹ See p. 113.

Gryllidae

Paratrigonidium atroferrugineum Brunn., 3, near edge of Waikolu Valley, Molokai, Oct. 10.

Locustidae

Atractomorpha ambigua Bol., 1, eastern Molokai, May 30.

Oxya chinensis (Thunb.), 1, Haiku, Maui, June 7.

Mantidae

Tenodera angustipennis Sauss., 1 egg mass with parasite exit holes, probably of *Podagrion mantis* Ashmead, Kaunakakai, *Molokai, June 2; 1 nymph, Kaunakakai, June 4; 1 nymph, Wailuku, Maui, June 6; 1 nymph, Haiku, Maui, June 7.

Blattidae

**Diploptera dytiscoides* (Serv.), 1, Kaunakakai, Molokai, May 29.

**Graptoblatta notulata* (Stål), 1, Iao Valley, Maui, June 6; 1, Hana, Maui, June 9.

**Supella supellectilium* (Serv.), 1 Kaunakakai, Molokai, June 1, in house.

HEMIPTERA

Miridae

**Buchaniella sodalis* (White), 1, Iao Valley, Maui, June 6.

Cyrtopeltis varians (Dist.), 5, Kaunakakai, Molokai, Oct. 8, ex *Gynandropsis pentaphylla* De C.; 10, Kaunakakai, Oct. 13; 3, south central Molokai, May 31; 1, Kawela, Molokai, June 2; 2, Haiku, Maui, June 7.

Hyalopeplus pellucidus (Stål), 1, Halawa Valley, Molokai, May 30; 1, south central Molokai, May 31; near edge of Waikolu Valley, Molokai, June 3 (1) and Oct. 10 (1); 1, Iao Valley, Maui, June 6; 3, Haiku, Maui, June 7.

**Leucopoeila albofasciata* Reut., 1, near edge of Waikolu Valley, Molokai, June 3.

**Physopleurella mundula* (White), 1, Iao Valley, Maui, June 6.

**Pycnoderes quadrimaculatus* Guer., 2, Kamalo, Molokai, Oct. 11, ex bush bean leaves; 1, Ualapue, Molokai, Oct. 11; 5, Haiku, Maui, June 7; 7, Hana, Maui, June 9; 4, Nahiku, Maui, June 10.

Sarona adonias Kirk., 1, near edge of Waikolu Valley, Molokai, Oct. 10.

Anthocoridae

Triphleps persequens White, Kaunakakai, Molokai, May 29 (2), June 4 (3), and 5 (1).

Reduviidae

- Empicoris rubromaculatus* Blackb., 1, south central Molokai, May 31; 4, Iao Valley, Maui, June 6.
- Zelus renardii* Kol., Kaunakakai, Molokai, May 29 (2) and June 4 (1); 1, south central Molokai, May 31; 1, Wailuku, Maui, June 6.

Tingidae

- Teleonemia scrupulosa* Stål, 2, eastern Molokai, May 30; 1, Kaunakakai, Molokai, June 4; 2, Halawa Valley, Molokai, June 4; 6, Wailuku, Maui, June 6; 2, Kaupo, Maui, June 9.

Lygaeidae

- Corizus hyalinus* (Fabr.), 1, Wailuku, Maui, June 6.
- **Geocoris punctipes* (Say), Kaunakakai, Molokai, May 29 (4) and June 4 (2).
- **Orthoëa vincta* (Say), 2, south central Molokai, May 31; 8, near edge of Waikolu Valley, Molokai, June 3.

Pentatomidae

- Oechalia pacifica* (Stål), 1, near edge of Waikolu Valley, Molokai, June 3.

Cydnidae

- Geotomus pygmaeus* (Dallas), 1, eastern Molokai, May 30; 1, Kaunakakai, Molokai, June 4.

HOMOPTERA

Membracidae

- **Stictocephala festina* (Say), 2, eastern Molokai, May 30; 8, Kawela, Molokai, June 2; 1, Kaunakakai, Molokai, Oct. 8; 1, Hana, Maui, June 8.

Cicadellidae

- **Bythoscopus robustus* (Uhler), 3, Kaunakakai, Molokai, June 4.
- **Empoasca solana* De L., Kaunakakai, Molokai, June 4 (2), June 5 (2); 5, Wailuku, Maui, June 13, ex leaves of castor bean.
- **Nesophrosyne perkinsi* (Kirk.), Hana, Maui, June 8 (4) and 10 (13).
- **Opsius stactogalus* (Amyot), 23, Kaunakakai, Molokai, Oct. 10, ex *Tamarix* sp.

Flatidae

- Siphanta acuta* (Walk.), near edge of Waikolu Valley, Molokai, June 3 (3) and Oct. 10 (1); 1, Iao Valley, Maui, June 6; 1, Hana, Maui, June 9.

Delphacidae

- Aloha ipomoeae* Kirk., 2, Halawa Valley, Molokai, June 4; Hana, Maui, June 8 (2) and 10 (2).
- **Leialoha lehuae mawiensis* Muir, 3, near edge of Waikolu Valley, Molokai, June 3.
- **Leialoha ohiae* (Kirk.), 1, near edge of Waikolu Valley, Molokai, June 3, ex *Metrosideros* sp.; 1, same area, Oct. 10.
- Peregrinus maidis* (Ashm.), 19, Hoolehua, Molokai, June 1, ex corn plants; 3, Kaunakakai, Molokai, June 4; 12, Iao Valley, Maui, June 6; 12, Haiku, Maui, June 7; 1, Kaupo, Maui, June 9.
- Perkinsiella saccharicida* Kirk., 1, Hana, Maui, June 8.

Cixiidae

- Oliarus haleakalae* Kirk. ?, 1, near edge of Waikolu Valley, Molokai, June 3.
- Oliarus kahavalu* Kirk., 2, Iao Valley, Maui, June 6.
- Oliarus similis* var. *a* Giffard, near edge of Waikolu Valley, Molokai, June 3 (2), Oct. 10 (1).

Aphididae

- Amphorophora sonchi* (Oestl.), Hoolehua, Molokai, June 1; Wailuku, Maui, June 6; Hana, Maui, June 8; all ex *Sonchus oleraceus* L.
- **Aphis gossypii* Glov., Hoolehua, Molokai, June 1, ex watermelon; Kawela, Molokai, June 2, ex *Crotalaria saltiana* Andr.; Wailuku, Maui, June 13, ex *Lagerstroemia indica* L.; Haiku, Maui, June 7, ex cucumber leaves, upland taro (*Colocasia esculenta* Schott) leaves and hibiscus flowers.
- **Aphis maidis* Fitch, Hoolehua, Molokai, June 1, ex corn.
- Aphis medicaginis* Koch, Moomomi, Molokai, June 1, ex *Tribulus cistoides* L. leaves; Hana, Maui, June 8, ex *Vigna marina* (Burm.) Merr.
- **Aphis middletonii* Thomas, Hoolehua, Molokai, June 1, ex *Sonchus oleraceus* L.
- **Aphis tavaresi* Del Guer., Wailuku, Maui; June 6.
- **Macrosiphum rosae* (Linn.), Keanae, Maui, June 8, ex rose.
- **Macrosiphum solanifolii* (Ashm.), Olinda, Maui, June 12, ex *Hypochaeris radicata* L.
- Myzus convolvuli* (Kalt.), Wailuku, Maui, June 13, ex *Phalaenopsis* sp.
- **Neophyllaphis araucariae* Takah., near edge of Waikolu Valley, Molokai, June 3; Hana, Maui, June 10; all from leaves *Araucaria excelsa* R. Br.

- **Toxoptera aurantii* (Boyer), near edge of Waikolu Valley, Molokai, June 3, ex *Vaccinium* sp.; Wailuku, Maui, June 13, ex *Lagerstroemia indica* L.

Aleyrodidae

- **Bemisia giffardi* (Kot.), Kaunakakai, Molokai, June 4, ex leaves *Citrus* sp.; Iao Valley, Maui, June 6, ex leaves *Citrus* sp.
 **Dialeurodes kirkaldyi* (Kot.), Hana, Maui, June 9, ex leaves *Morinda citrifolia* L.
 **Pealius hibisci* (Kot.), Wailuku, Maui, June 13, ex leaves *Hibiscus* sp.
Trialeurodes vaporariorum (Westw.), Hoolehua, Molokai, June 1, ex *Sonchus oleraceus* L.; Kawela, Molokai, June 2, ex tomato leaves; Wailuku, Maui, June 6, ex *Sonchus oleraceus* L.

Coccidae

- **Aspidiotus lataniae* Sign., Kalae, Molokai, June 1, ex conifer; Iao Valley, Maui, June 6, ex stems *Psidium guajava* L.
 **Chrysomphalus aonidum* (L.), Kaunakakai, Molokai, May 29, ex leaves *Eugenia jambolana* Lam.; Wailuku, Maui, June 13, ex leaves *Strelitzia reginae* Banks.
 **Coccus viridis* (Green), Iao Valley, Maui, June 6, ex leaves *Psidium guajava* L.; Wailuku, Maui, June 13, ex *Ixora macrothyrsa* (Teij. & Binn.)
 **Diaspis boisduvalii* Sign., Wailuku, Maui, June 13, ex *Cattleya* sp. *Phenacaspis* sp., presumably *sandwicensis* Fullaway, Wailuku, Maui, June 13, ex leaves *Nerium* sp.
Pseudococcus nipae (Mask.), (as currently recognized), Haiku, Maui, June 7, ex *Psidium guajava* L.
Pseudococcus sp. (*citri* group, probably *kraunhia* [Kuw.]), Hana, Maui, June 11, ex flower *Alpinia purpurata* (Veill.).
Pseudococcus sp., Kaunakakai, Molokai, May 29, ex *Prosopis chilensis* (Molina) Stuntz. Dr. Morrison writes that neither this nor the following species is included in Miss Amy Suehiro's manuscript revision of the Hawaiian *Pseudococcus*.
Pseudococcus sp., Halawa Valley, Molokai, May 30, ex *Agave rigida* Mill.
Pseudococcus (*Ferrisia*) *virgatus* (Ckll.), Moomomi, Molokai, June 1, ex *Sida fallax* Walp.
Pulvinaria psidii Mask., Halawa Valley, Molokai, May 30, ex *Morinda citrifolia* L. stem.

COLEOPTERA

Carabidae

- **Bembidion niloticum batesi* Putz., 4, Kaunakakai, Molokai, May 29, on mud flats near shore.

**Tachys oahuensis* Blackb., 5, Kaunakakai Molokai, May 29, on mud flats near shore.

Coccinellidae

Azya luteipes Muls., Kaunakakai, Molokai, June 4 (1) and 5 (1); Wailuku, Maui, June 6 (2) and 13 (2); 5, Iao Valley, Maui June 6.

Coccinella abdominalis Muls., 1, Ualapue, Molokai, Oct. 11.

Coelophora inaequalis (Fabr.), 1, Kaunakakai, Molokai, May 29; 1, south central Molokai, May 31; 1, Halawa Valley, Molokai, June 4; 1, Iao Valley, Maui, June 6; 1, Haiku, Maui, June 7.

Cryptolaemus montrouzieri Muls., Halawa Valley, Molokai, May 30 (1), and June 4 (1); 1, Kaunakakai, Molokai, June 4; 1, Iao Valley, Maui, June 6; Hana, Maui, June 9 (1) and 10 (1); 1, Nahiku, Maui, June 10.

**Curinus coeruleus* (Muls.), 4, Iao Valley, Maui, June 6; 1, Wailuku, Maui, June 6.

**Hyperaspis jocosa* (Muls.), 4, Iao Valley, Maui, June 6; 1, Wailuku, Maui, June 6; 1, Hana, Maui, June 8.

**Nephus pictus* (Gorh.), 2, south central Molokai, May 31; 1, Wailuku, Maui, June 6.

Platyomus lividigaster Muls., 1, eastern Molokai, May 30; 1, south central Molokai, May 31; 1, Hoolehua, Molokai, June 1; 1, Kawela, Molokai, June 2; 4, Kaunakakai, Molokai, Oct. 9.

Rodolia cardinalis (Muls.), 1, Iao Valley, Maui, June 6.

Scymnus notescens (Blackb.), 1, south central Molokai, May 31; 1, Hoolehua, Molokai, June 1, on watermelon plant; 3, Haiku, Maui, June 7.

Scymnus vagans (Blackb.), 1, Iao Valley, Maui, June 6; Hana, Maui, June 8 (1) and 9 (2); 1, Wailuku, Maui, June 13.

Scymnus vividus Sharp, Kaunakakai, Molokai, May 29 (1), June 4 (1), 5 (2) and 8 (1); 4, south central Molokai, May 31; 2, Kawela, Molokai, June 2.

**Sticholotis punctatus* Crotch, 4, Iao Valley, Maui, June 6.

Mycetophagidae

**Litargus vestitus* Sharp, 1, Hana, Maui, June 9.

Cucujidae

Cryptamorpha desjardinsi (Guer.), 1, Kaunakakai, Molokai, June 1, in house; 1, near edge of Waikolu Valley, Molokai, June 3; 1, Halawa Valley, Molokai, Oct. 12.

Nitidulidae

Carpophilus dimidiatus (Fabr.), 1, Kawela, Molokai, June 2; 2, Haiku, Maui, June 7.

Carpophilus hemipterus (L.), 1, south central Molokai, May 31; 4, Hoolehua, Molokai, June 1; 3, Haiku, Maui, June 7.

Carpophilus humeralis (Fabr.), 3, Kaunakakai, Molokai, May 29; 3, south central Molokai, May 31; 1, Hoolehua, Molokai, June 1; 2, near edge of Waikolu Valley, Molokai, Oct. 10; 4, Haiku, Maui, June 7.

Lathridiidae

**Coluocera maderae* Woll., 18, south central Molokai, May 31, in nests of *Paratrechina longicornis* (Latr.) (crazy ant).

Coninomus nodifer (Westw.), 1, Olinda, Maui, June 12, on *Rubus* sp.

Elateridae

Conoderus exsul (Sharp), 1, Wailuku, Maui, June 6; 2, Kaupo, Maui, June 9.

Bostrichidae

Amphicerus cornutus (Pallas), 1, south central Molokai, May 31.

Sinoxylon conigerum Gerst., 5, south central Molokai, May 31.

Scarabaeidae

Adoretus sinicus Burm., 1, south central Molokai, May 31; 1, Kaunakakai, Molokai, June 4; 1, Hana, Maui, June 11.

Aphodius lividus (Oliv.), 2, Kaunakakai, Molokai, June 3.

**Ataenius cognatus* Lec., 5, Kaunakakai, Molokai, May 29.

Saprosites pygmaeus Harold, 13, Iao Valley, Maui, June 6.

Cerambycidae

Cresium unicolor (Fabr.), 1, Kahakuloa, Maui, June 12.

Sybra alternans Wied., 3, Moomomi, Molokai, June 1; 1, Halawa Valley, Molokai, Oct. 12; 1, Nahiku, Maui, June 10.

Chrysomelidae

Diachus auratus (Fabr.), 1, Halawa Valley, *Molokai, May 30; 3, Kaunakakai, Molokai, June 4; 1, Wailuku, Maui, June 6.

**Epitrix parvula* (Fabr.), 1, Haiku, Maui, June 7.

Lema trilineata californica Schaeff., 1, south central Molokai, May 31, ex *Datura stramonium* L.; 2, Wailuku, Maui, June 6, ex *Brugmansia arborea* (L.).

Bruchidae

Bruchus amicus Horn, 4, Kawela, Molokai, June 2; Kaunakakai, Molokai, June 4 (3) and Oct. 9 (3); 1, Iao Valley, Maui, June 6.

**Bruchus chinensis* (L.), 1, Kaunakakai, Molokai, June 5; 3, Haiku, Maui, June 7.

- Bruchus limbatus* Horn, 1, Wailuku, Maui, June 6.
Bruchus prosopis Lec., 1, south central Molokai, May 31.
 **Bruchus pruininus* Horn, 1, Kaunakakai, Molokai, Oct. 9.
Bruchus sallaei Sharp, 1, Kaunakakai, Molokai, May 29; 8, Kawela
 Molokai, June 2, ex pods *Acacia farnesiana* (L.).
Megacerus alternatus Brid., 1, Hoolehua, Molokai, June 1; 4,
 Halawa Valley, Molokai, Oct. 12.

Tenebrionidae

- **Ammophorus insularis* Boh., 2, Kaunakakai, Molokai, May 29.
Blapstinus dilatatus Lec.?, 7, Kaunakakai, Molokai, May 29; 1,
 south central Molokai, May 31.
Epitragus diremptus Karsch, 2, south central Molokai, May 31; 1,
 Hoolehua, Molokai, Oct. 9.
Gonocephalum seriatum (Boisd.), 2, Moomomi, Molokai, June 1.
Platydemia subfascia (Walk.), 9, Halawa Valley, Molokai, May 30.

Anthribidae

- Araecerus fasciculatus* (De G.), 1, south central Molokai, May 31;
 Kaunakakai, Molokai, June 5 (2) and Oct. 9 (1); 1, Wailuku,
 Maui, June 6; 5, Iao Valley, Maui, June 6.
Araecerus vieillardii (Montr.), 1, Kaunakakai, *Molokai, Oct. 9;
 1, Haiku, Maui, June 7; 1, Hana, Maui, June 8.

Curculionidae

- Anthonomus eugenii* Cano, 2, Kaunakakai, Molokai, May 29; 1,
 south central Molokai, May 31; 1, Iao Valley, Maui, June 6;
 2, Haiku, Maui, June 7.
Athesapeuta cyperi Marshall, 1, Wailuku, Maui, June 6.
Euscepes postfasciatus (Fairm.), 1, Hana, Maui, June 8.
Oxydema fusiforme Woll., 6, Halawa Valley, Molokai, May 30;
 36, Iao Valley, Maui, June 6.
Pantomorus godmani (Crotch), 2, near edge of Waikolu Valley,
 Molokai, June 3; 1, Halawa Valley, Molokai, June 4; 1, Wai-
 luku, Maui, June 6; 2, Haiku, Maui, June 7.
 **Pentarthrum obscurum* Sharp, 10, Iao Valley, Maui, June 6.
Stenotrupis prolixa (Sharp), near edge of Waikolu Valley, Molokai,
 June 3 (1), and Oct. 10, ex dead frond stems *Cibotium* sp. (9).

Scolytidae

- **Ericryphalus sylvicola* (Perk.), 1, Iao Valley, Maui, June 6.
Hypothenemus insularis Perk., 1, Iao Valley, Maui, June 6; 1,
 Haiku, Maui, June 7.
 **Xyleborus kraatzi* Eich., 1, Hana, Maui, June 8.

LEPIDOPTERA

Pyralididae

Hymenia fascialis (Cram.), 1, Halawa Valley, Molokai, June 4.

Lycaenidae

Cosmolyce boetica (L.), 1, Halawa Valley, Molokai, June 4; 1, Haiku, Maui, June 7.

DIPTERA

Ceratopogonidae

**Forcypomyia ingrani* Carter, 4, near edge of Waikolu Valley, Molokai, Oct. 10.

Culicidae

Culex quinquefasciatus Say, 1, Olinda, Maui, June 12.

Sciaridae

Neosciara sp., 3, south central Molokai, May 31; 1, Hana, Maui, June 8; 2, Olinda, Maui, June 12.

Pipunculidae

Pipunculus sp., 1, near edge of Waikolu Valley, Molokai, Oct. 10.

Syrphidae

Allograpta obliqua (Say), 2, near edge of Waikolu Valley, Molokai, June 3.

Eumerus marginatus Grims., 1, Halawa Valley, Molokai, June 4.

**Ischiodon scutellaris* (Fabr.), 1, Kahakuloa, Maui, June 12.

Lathyrrophthalmus aeneus (Scop.), 2, Kaunakakai, Molokai, May 29.

**Toxomerus marginatus* (Say), 4, near edge of Waikolu Valley, Molokai, June 3; 1, Haiku, Maui, June 7.

Volucella obesa (Fabr.), 1, south central Molokai, May 31.

Tachinidae

Archytas cirphis Curr., 1, near edge of Waikolu Valley, Molokai, June 3; 1, Nahiku, Maui, June 10.

**Chaetogaedia monticola* (Big.), 3, near edge of Waikolu Valley, Molokai, June 3.

**Eucelatoria armigera* (Coq.), 1, Olinda, Maui, June 12.

**Leucostoma atra* Towns., 2, near edge of Waikolu Valley, Molokai, June 3.

Sarcophagidae

**Helicobia helicis* (Townsend), 2, Kawela, Molokai, June 2.

Calliphoridae

**Chrysomyia rufifascies* (Macq.), 1, Nahiku, Maui, June 10.

Anthomyiidae

Lispa metatarsalis Thom., 1, near edge of Waikolu Valley, Molokai, June 3.

Lispocephala sp., 1, near edge of Waikolu Valley, Molokai, June 3.

Lispocephala sp., 1, near edge of Waikolu Valley, Molokai, Oct. 10.

**Ophyra chalcogaster* Wied., 1, Hana, Maui, June 9.

Borboridae

Leptocera ferruginata Stenhouse?, 5, Kaunakakai, Molokai, May 29.

Leptocera sp., 4, Olinda, Maui, June 12.

Sciomyzidae

Sciomyza hawaiiensis Grims., 1, Halawa Valley, *Molokai, June 4; 1, Wailuku, Maui, June 6; 1, Iao Valley, Maui, June 6.

Ortalidae

Scholastes bimaculatus Hend., 1, Kaunakakai, Molokai, June 5.

Trypetidae

Ceratitis capitata (Wied.), 1, Iao Valley, Maui, June 6.

Dacus cucurbitae Coq., 3, south central Molokai, May 31; 1, Iao Valley, Maui, June 6; 1, Kaupo, Maui, June 9; 1, Wailuku, Maui, June 13.

Eutreta xanthochaeta Alder., 1, Halawa Valley, Molokai, June 4; 1, Nahiku, Maui, June 10.

Ephydriidae

Brachydeutera hebes Cress., 5, Kawela, Molokai, June 2.

**Notophila insularis* Grims., 7, south central Molokai, May 31.

Procanace nigroviridis Cress., 2, Halawa Valley, Molokai, May 30.

**Scatella bryani* Cress., 3, Kawela, Molokai, June 2.

**Scatella hawaiiensis* Grims., 1, Olinda, Maui, June 12.

Scatella warreni Cress., 10, Halawa Valley, *Molokai, May 30; 1, Kahakuloa, Maui, June 12.

Drosophilidae

**Drosophila spinofemora* P. & W., 1, Halawa Valley, Molokai, June 4; 1, Haiku, Maui, June 7; 3, Hana, Maui, June 9.

Agromyzidae

Liriomyza pusilla (Meig.), 2, near edge of Waikolu Valley, Molokai, Oct. 10.

Ophiomyia lantanae (Frogg.), 1, Halawa Valley, Molokai, June 4.

Milichiidae

Milichiella lacteipennis (Loew), 1, south central Molokai, May 31.

Chloropidae

**Rhodesiella tarsalis* Adams, Hana, Maui, June 8 (1), June 9 (1).

HYMENOPTERA

Braconidae

**Apanteles dignus* Mues., 1, Kawela, Molokai, June 2, reared from lepidopterous larva in tomato leaf.

Apanteles sp. (parasite of *Opogona*), 1, Halawa Valley, Molokai, June 4; 1, near edge of Waikolu Valley, Molokai, Oct. 10; 1, Hana, Maui, June 9.

**Chelonus blackburni* Cam., 1, Kaupo, Maui, June 9.

**Ischiogonus pallidiceps* Perk., 1, south central Molokai, May 31; 2, Iao Valley, Maui, June 6.

**Opius lantanae* Bridw., 1, Kaupo, Maui, June 9.

Ichneumonidae

Amblyteles sp., 1, near edge of Waikolu Valley, Molokai, June 3.

Casinaria infesta (Cress.), 1, Kaunakakai, Molokai, June 4.

Cremastus flavo-orbitalis (Cam.), 1, near edge of Waikolu Valley, Molokai, June 3; 1, Kaupo, Maui, June 9.

Idechthis sp., 2, eastern Molokai, May 30; 1, south central Molokai, May 31; 1, Wailuku, Maui, June 6; 1, Hana, Maui, June 9; 1, Kahakuloa, Maui, June 12.

Pristomerus hawaiiensis Perk., 1, near edge of Waikolu Valley, Molokai, Oct. 10; 1, Hana, Maui, June 9; 1, Kaupo, Maui, June 9.

Scelionidae

Anteris nigricornis Ashm., 1, near edge of Waikolu Valley, Molokai, Oct. 10.

Chalcididae

Brachymeria obscurata (Walk.), 1, Kaunakakai, Molokai, June 4; 1, Kainalu, Molokai, Oct. 12; Hana, Maui, June 8 (1) and 10 (1).

Dirhinus giffardii Silv., 1, Kaunakakai, Molokai, June 4.

**Podagrion mantis* Ashmead, 1, south central Molokai, May 31.
This may be the first authentic record of this mantid parasite in the Hawaiian Islands.

Stomatocerus pertorvum Gir., 1, Hana, Maui, June 8; 1, Kaupo, Maui, June 9; 1, Kahakuloa, Maui, June 12.

Eurytomidae

Eurytoma sp., 1, Haiku, Maui, June 7.

Eupelmidae

**Cerambycobius cushmani* Crawf., 1, Wailuku, Maui, June 6.

Eupelmus sp., 1, Iao Valley, Maui, June 6.

Encyrtidae

**Aenasius advena* Comp., 3, Moomomi, Molokai, June 1; Kaunakakai, Molokai, June 5 (1) and Oct. 9 (1); 1, Hana, Maui, June 10.

Encyrtus infelix (Embl.), 1, near edge of Waikolu Valley, Molokai, June 3.

Eulophidae

Astichus sp., 1, near edge of Waikolu Valley, Molokai, June 3.

Euderus metallicus (Ashm.), 7, near edge of Waikolu Valley, Molokai, June 3; 4, Olinda, Maui, June 12.

Pseudopheliminus vagans Timb., 1, Iao Valley, Maui, June 6; 1, Hana, Maui, June 10.

Tetrastichus giffardianus Silv., 1, Kaunakakai, Molokai, June 5.

Tetrastichus sp., 1, Iao Valley, Maui, June 6.

Formicidae

Camponotus (Tanaemyrmex) variegatus hawaiiensis For., 3, Kaunakakai, Molokai, May 29.

Cardiocondyla emeryi For., Kaunakakai, Molokai, June 4 (3) and Oct. 8 (1); 1, Halawa Valley, Molokai, June 4; Hana, Maui, June 8 (5) and 9 (1).

Leptogenys falcigera insularis Smith, 4, Iao Valley, Maui, June 6.

**Monomorium minutum liliuokalani* For., 9, Hoolehua, Molokai, June 1; 1, Hana, Maui, June 9.

**Paratrechina longicornis* (Latr.), 18, south central Molokai, May 31; 9, Kawela, Molokai, June 2.

Paratrechina (Nylanderia) bourbonica hawaiiensis (For.), 1, Halawa Valley, Molokai, June 4; Hana, Maui, June 8 (6) and 9 (5).

**Paratrechina (Nylanderia) sharpii* (For.), 1, Hana, Maui, June 9.

Pheidole megacephala (Fabr.), 2, Hana, Maui, June 9.

**Plagiolepis exigua* For., 7, Halawa Valley, Molokai, May 30.

Ponera perkinsi For., 2, Halawa Valley, Molokai, May 30.

Technomyrmex albipes (F. Smith), 5, Halawa Valley, Molokai, May 30.

Tetramorium guineense (Fabr.), 3, eastern Molokai, May 30; 8, Hana, Maui, June 10.

Mimesidae

Nesomimesa nitida Perk., 1, near edge of Waikolu Valley, Molokai, Oct. 10.

Eumenidae

Odynerus homeogaster Perk., 1, Nahiku, Maui, June 10.

Odynerus molokaiensis Perk., 2, near edge of Waikolu Valley, Molokai, Oct. 10.

Odynerus nigripennis (Holm.), 2, Kaupo, Maui, June 9.

Odynerus purpurifera Perk., 1, eastern Molokai, May 30.

Odynerus sandwichensis D. T., 1, Kaupo, Maui, June 9.

Pachodynerus nasidens (Latr.), 1, Kawela, Molokai, June 2; 2, Kaunakakai, Molokai, June 4; 1, Wailuku, Maui, June 6; 1, Kaupo, Maui, June 9.

Vespidae

Polistes fuscatus aurifer (Sauss.), 1, Kaunakakai, Molokai, June 4.

Polistes olivaceus (De G.), 1, Haiku, Maui, June 7.

Dryinidae

Pseudogonatopus perkinsi (Ashm.), 1, near edge of Waikolu Valley, Molokai, June 3, ex *Metrosideros* sp.

Crabronidae

Nesocrabro adspectans (B. & C.), 1, near edge of Waikolu Valley, Molokai, Oct. 10.

Xenocrabro mandibularis (Sm.), 1, near edge of Waikolu Valley, Molokai, Oct. 10.

Xenocrabro molokaiensis (Perk.), 1, near edge of Waikolu Valley, Molokai, June 3.

Trypoxylonidae

Pison hospes Sm., 1, Kaunakakai, Molokai, June 4.

**Pison iridipennis* Sm., 2, south central Molokai, May 31; 1, Kawela, Molokai, June 2.

Trypoxylon bicolor Smith, 1, south central Molokai, May 31; 1, Kawela, Molokai, June 2.

Sphecidae

**Astata bella* Cress., 1, Kaunakakai, Molokai, Oct. 9.

Scoliidae

Campsomeris marginella modesta (Smith), 1, Kaunakakai, Molokai, June 4; 1, Kaupo, Maui, June 9.

Larridae

Notogonidea subtessellata (Smith), 1, Kawela, Molokai, June 2.

Hylaeidae

Nesoprosopis facilis (Sm.), 2, near edge of Waikolu Valley, Molokai, Oct. 10; 1, Hana, Maui, June 10.

Megachilidae

Megachile gentilis Cress., 1, Kawela, Molokai, June 2; 2, Kaunakakai, Molokai, Oct. 13.

Megachile schauinslandi Alfk., Kaunakakai, Molokai, June 4 (1), Oct. 8 (1) and 13 (2).

Apidae

Apis mellifera L., 1, south central Molokai, May 31.