

CROP INSECT SURVEY OF PAPUA NEW GUINEA FROM JULY 1ST 1969 TO DECEMBER 31ST 1978

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ABSTRACT

This survey is a compilation of information about insects and mites associated with crops in Papua New Guinea. It covers the period July 1969 to December 1978 and is a continuation of the earlier Insect Pest Survey.

INTRODUCTION

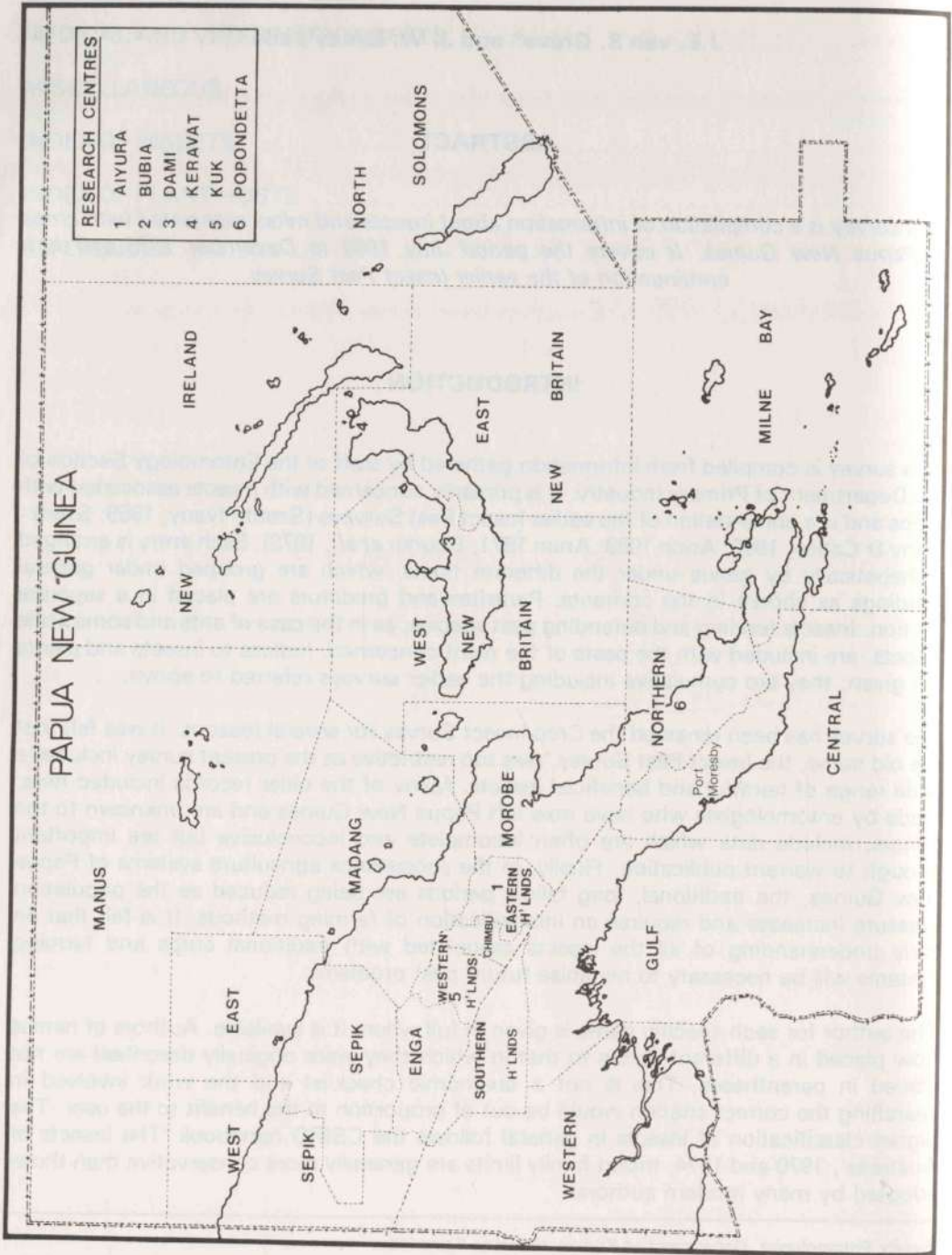
This survey is compiled from information gathered by staff of the Entomology Section of the Department of Primary Industry. It is primarily concerned with insects associated with crops and is a continuation of the earlier Insect Pest Surveys (Szent - Ivany, 1959; Szent - Ivany & Catley, 1960; Anon 1969; Anon 1971; Bourke *et al.*, 1973). Each entry is arranged alphabetically by genus under the different hosts, which are grouped under general headings as shown in the contents. Parasites and predators are placed in a separate section. Insects tending and defending pest species, as in the case of ants and some scale insects, are included with the pests of the plant concerned. Indices to insects and plants are given; they are cumulative including the earlier surveys referred to above.

The survey has been renamed the Crop Insect Survey for several reasons. It was felt that the old name, the Insect Pest Survey, was too restrictive as the present survey includes a wide range of harmful and beneficial insects. Many of the older records included here, made by entomologists who have now left Papua New Guinea and are unknown to the editors, include data which are often incomplete and inconclusive but are important enough to warrant publication. Finally, in the subsistence agriculture systems of Papua New Guinea, the traditional, long fallow periods are being reduced as the population pressure increases and requires an intensification of farming methods. It is felt that an early understanding of all the insects associated with traditional crops and farming systems will be necessary to minimise future pest problems.

The author for each specific name is given in full where it is available. Authors of names now placed in a different genus to that in which they were originally described are not placed in parentheses. This is not a taxonomic checklist and the work involved in searching the correct citation would be out of proportion to the benefit to the user. The higher classification of insects in general follows the CSIRO handbook 'The insects of Australia', 1970 and 1974. Insect family limits are generally more conservative than those adopted by many modern authors.

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This compilation is the result of ten years work by many agricultural entomologists and taxonomic specialists. Many no longer work in Papua New Guinea or have ceased active research. We have therefore decided to omit all details of collectors and specialists, though we wish to take this opportunity to thank all those involved over the years. Most of the identifications were made by the Commonwealth Institute of Entomology, London, who also corrected part of an early draft of this survey.

All place names used have, as far as possible, been checked against the *Papua New Guinea Gazetteer* (1974) published by the Papua New Guinea Place Names Committee, (Central Mapping Bureau, 1974).

The editors must take full responsibility for errors or omissions but would, however, be very grateful to receive any constructive comments.

The following abbreviations are used for provinces:

C.P., Central Province (including National Capital District)

E.N.B.P., East New Britain Province

E.H.P., Eastern Highlands Province

E.P., Enga Province

E.S.P., East Sepik Province

G.P., Gulf Province

Madang P., Madang Province

Manus P., Manus Province

Milne B. P., Milne Bay Province

Morobe P., Morobe Province

N.I.P., New Ireland Province

N.S.P., North Solomons Province

N.P., Northern Province

S.P., Simbu Province

S.H.P., Southern Highlands Province

W.N.B.P., West New Britain Province

W.S.P., West Sepik Province

W.P., Western Province

W.H.P., Western Highlands Province

The provinces and major research stations are indicated on the accompanying map.

Other abbreviations used are:

B.A.R.C., Bubia Agricultural Research Centre, Lae (Morobe Province)

D.A.S.F., Department of Agriculture, Stock and Fisheries

D.O.P.R.S., Dami Oil Palm Research Station, Cape Hoskins (W.N.B.P.)

H.A.C., Highlands Agricultural College (W.H.P.) (formerly H.A.T.I.)

H.A.E.S., Highlands Agricultural Experiment Station, Aiyura (E.H.P.)

H.A.T.I., Highlands Agricultural Training Institute (W.H.P.)

K.A.R.S., Kuk Agricultural Research Station (W.H.P.)
(formerly Kuk Tea Research Station)

L.A.E.S., Lowlands Agricultural Experiment Station, Keravat (E.N.B.P.)

L.E.S., Lejo Experiment Station (N.P.)

- P.A.C., Popondetta Agricultural College, Popondetta (N.P.) (formerly Popondetta Agricultural Training Institute)
 S.R.B.C., Sericulture Research and Breeding Centre, Mt. Hagen (W.H.P.)

The orders of insects are abbreviated as follows:

Col., Coleoptera	Isop., Isoptera
Derm., Dermaptera	Lep., Lepidoptera
Dict., Dictyoptera	Neur., Neuroptera
Dipt., Diptera	Orth., Orthoptera
Hem., Hemiptera	Psoc., Psocoptera
Hym., Hymenoptera	Thys., Thysanoptera

Further abbreviations are:

Est., Estate	R., River
Is., Island	Plntn, Plantation
Vill., Village	

COMMERCIAL TREE CROPS

BETEL

Plaesus cossyphus Marsham (Col., Histeridae)

Thought to be predatory on *Scapanes australis australis* Boisdual (Col. Scarabaeidae), adult beetles from dead or dying palms, Koipa Vill., Awala, N.P., October, 1974.

Rhabdoscelus obscurus Boisdual (Col., Curculionidae)

Adults collected from palms damaged by *Scapanes australis australis* Boisdual (Col., Scarabaeidae), Awala Vill., Awala, N.P., October, 1974.

Scapanes australis australis Boisdual (Col., Scarabaeidae)

Numerous palm deaths in the Awala sub-province, N.P., during the 1974 dry season.

Zophiuma lobulata Ghauri (Hem., Lophopidae)

All stages on palms, Elimo cocoa fermentary, Finschhafen, Morobe Province., January, 1974, but no damage noted.

COCOA

Acalolepta holotephra Boisdual (Col., Cerambycidae)

Associated with plant affected by vascular streak and on damaged cocoa, Karkar Is., Madang P., 1973.

Acanthotyla sp. (Hem., Coreidae)

Adults and nymphs common on pod stems, occasionally noted feeding on pods and peduncles but no damage noted, Popondetta/Sangara area, N.P., throughout year.

Acanthotyla sp. (Hem., Coreidae)

Feeding on young and half-grown pods at Lejo Plntn throughout 1973, Ginia area, N.P., February, 1974.

Acanthuchus sp. (Hem., Membracidae)

Adults and nymphs on pods, Keravat, E.N.B.P., December, 1970.

Acorynus litigiousus Pascoe (Col., Anthribidae)

Kokoda, N.P., August, 1977.

Agrypnus gracilis Candèze (Col., Elateridae)

Ex soil in cocoa block, Baining, E.N.B.P., March, 1974.

Alphitobius laevigatus Fabricius (Col., Tenebrionidae)

Dead black cocoa pod, Rainao Plntn, E.N.B.P., January, 1975.

Amblypelta cocophaga cocophaga China (Hem., Coreidae)

Tanaboia Plntn, Kieta, N.S.P., November, 1965.

- Anoplolepis longipes* Jerdon (Hym., Formicidae)
Killing seedlings by digging nests around roots during a prolonged dry spell, L.E.S., N.P., 1971-2.
- Asyteta* sp. (Col., Curculionidae)
Ex dead cocoa trees, Paile Est., Kupiano, C.P., April, 1973.
- Batocera matzdorffi* Kriesche (Col., Cerambycidae)
On damaged cocoa and on cocoa affected by vascular streak, Karkar Is., Madang P., May, 1973.
- Batocera wallacei* Thomson (Col., Cerambycidae)
Adult, Cassell Plntn, Popondetta, N.P., June, 1974. Larvae believed to be of this species, Wanigela, N.P., May, 1974.
- Bothrogonia* sp. (Hem., Cicadellidae)
Adult feeding on cocoa flush, Pirive Vill., N.P., October, 1972.
- Brachyplatys* sp. nr *laticeps* Montandon (Hem., Plataspidae)
Tanaboia Plntn, Kieta, N.S.P., November, 1965.
- Campanotus papuana* Emery (Hym., Formicidae)
Soft deadwood branch of cocoa, Mililat Plntn, Madang P., March, 1976.
- Cardiodactylus novae-guineae* de Haan (Orth., Gryllidae)
Adults and nymphs on foliage, leaf damage slight, Seroi Plntn, Popondetta, N.P., 1973-4.
- Cassena intermedia* Jacoby (Col., Chrysomelidae)
Mamai Est., Port Glasgow, C.P., April, 1970.
- Catmenta chrysophanes* Meyrick (Lep., Sesiidae)
Popondetta, N.P., November, 1969.
- Chalcura* sp. (Hym., Eucharitidae)
Seroi Plntn, Popondetta, N.P. September, 1973.
- Colgar tricolor* Distant (Hem., Flatidae)
Adults feeding on soft flush, P.A.C., N.P., September-November, 1972.
- Colgar* sp. (Hem., Flatidae)
Adults occasionally feeding on flush, apparently increasing in a severely dry season, P.A.C., N.P., June-November, 1972.
- Crematogaster* sp. (Hym., Formicidae)
Nest built in crevices between branches and in crevices of main trunk, Mililat Plntn, Madang P., March, 1976.
- Crossotarsus* sp. ? *mniszechi* Chapuis (Col., Platypodidae)
Karkar Is., Madang P., May, 1966.

- Cryptophlebia encarpa* Meyrick (Lep., Tortricidae)
Larvae and pupal cases in ripening pods, on blocks heavily infected with podsuckers, Serovi Plntn, N.P., 1973-4.
- Cyphogastra* sp. (Col., Buprestidae)
Serovi Plntn, June, 1974; Awawata Land Settlement Scheme, N.P., October, 1972.
- Demetrida dobodura* Darlington (Col., Carabidae)
In canopy, Sorovi, N.P., October, 1973.
- Dicraspeda bispinosa* Darlington (Col., Carabidae)
In canopy, Sorovi, N.P., October, 1973.
- Dictamnina* sp. (Col., Cerambycidae)
Boring in branches, Sabah Plntn, Tinputz, Kieta, N.S.P., May, 1975.
- Dihammus australis* Boisduval (Col., Cerambycidae)
Associated with plant affected by vascular streak and on damaged cocoa, Karkar Is., Madang P., 1973.
- Dolichoctis castanea* Darlington (Col., Carabidae)
In canopy, Sorovi, N.P., November, 1973.
- Eccoptypterus spinosus* Olivier (Col., Scolytidae)
Boring into trunks, Kaviak Plntn, Karkar Is., Madang P., March, 1977.
- Ectatops gracilicornis* Stål (Hem., Pyrrhocoridae)
L.A.E.S., E.N.B.P., November, 1964.
- Elytrocheilus graniger* Pascoe (Col., Curculionidae)
Adults on foliage, damage minor, Wanigela, N.P., May, 1974.
- Encyalesthus atroviridis* MacLeay (Col., Tenebrionidae)
On dead cocoa, Paile Est., Kupiano, C.P., April, 1973.
- Eumantispa* sp. (Neur., Mantispidae)
Sangara Est., Block 31, N.P.
- Euricania tristicula* Stål (Hem., Ricaniidae)
Adult common feeding on flush, heavier infestation at end of dry season, P.A.C., N.P., September-November, 1972.
- Euricania villicia* Stål (Hem., Ricaniidae)
Adults feeding in soft flush growth, P.A.C., N.P., October, 1973.
- Glenea aluensis* Gahan (Col., Cerambycidae)
Lakakot, Lihir Is., N.I.P., May, 1970.
- Glenea elegans* Olivier (Col., Cerambycidae)
Adult on foliage, under rubber, Sairope Vill., N.P., July, 1972.

- Glyptoporopectus sharpi* Faust (Col., Curculionidae)
Boring in dying cocoa, Sangara Plntn, N.P., March, 1968.
- Hexacentrus mundur* Walker (Orth., Tettigoniidae)
Ex light trap in cocoa, Lejo Plntn, Sangara, N.P., January, 1976.
- Hormurus australasiae* Fabricius (Scorpiones, Scorpionidae)
Ex *Pantorhytes* channel in cocoa, Bisi Plntn, Sangara, N.P., June, 1969.
- Hypothenemus eruditus* Westwood (Col., Scolytidae)
Adult boring into exocarp of cocoa pod, P.A.C., N.P., August, 1971.
- Kaloterme papuana* Desneux (Isop., Kalotermitidae)
Galleries in cocoa and adjacent *Leucaena leucocephala* shade trees, Hohota and Girua, N.P., March, 1972.
- Labienu compergus* Boisdual (Col., Passalidae)
Sangara, N.P., May, 1972.
- Lamenia* sp. (Hem., Derbidae)
Kenam Plntn, N.I.P., February, 1966.
- Lanelater sorcinus* Candèze (Col., Elateridae)
Mamoo Est., N.P., April, 1956; September, 1957; June, 1956.
- Mambara inconspicua* Bethune-Baker (Lep., Limacodidae)
Larvae completely defoliated approximately 150 trees, Tobinam Vill., Bogia, Madang P., February, 1978.
- Mechistocerus multimaculatus* Lea (Col., Curculionidae)
Sangara Est., Block 39, N.P., November, 1972.
- Mesochria cinctipes* de Meijere (Dipt., Anisopodidae)
Ex *Pantorhytes* channel in cocoa, Bisi Plntn, Sangara, N.P., November, 1968.
- Mychestes papuanus* Laporte (Col., Tenebrionidae)
Iseveni, N.P., December, 1972.
- Narbo biplagiatus* Walker (Hem., Lygaeidae)
Kenam Plntn, N.I.P., February, 1966.
- Neotermes* sp. nr *insularis* Walker (Isop., Kalotermitidae)
Nest on dead limb of cocoa, Mililat Plntn, Madang P., March, 1976.
- Neotermes papua* Desneux (Isop., Kalotermitidae)
Extensively channelling in live wood of trunk, Nonga, E.N.B.P., July, 1970; caused death of trees at Rei Vill., Lou Is., Manus P., 1975; Sabah Plntn, N.S.P., December, 1975; L.A.E.S., E.N.B.P., 1975.
- Oribius* sp. (Col., Curculionidae)
Defoliator, Garua Plntn, W.N.B.P., May, 1972.

- Orthorhinus cylindrirostris* Fabricius (Col., Curculionidae)
Ex *Glenea* hole in trunk, Girua Plntn, N.P., July, 1966.
- Orthorhinus patruelis* Pascoe (Col., Curculionidae)
Adults causing moderate ring feeding damage to shoot growth, Koreat Vill., N.P., May, 1974.
- Orthorhinus* sp. (Col., Curculionidae)
Chewing leaf and main stem, Nuatutu Plntn, Goodenough Is., Milne B.P., December, 1971.
- Palaeorhiza ? fulva* Cheesman (Hym., Apidae)
Ex *Pansepta* channel, Ralabang Plntn, Kokopo, E.N.B.P., February, 1972.
- Palaeorhiza* sp. nr *melanura* Cockerell (Hym., Apidae)
Ex *Pansepta* channel, Parey Plntn, Aitape, W.S.P., February, 1973.
- Palaeorhiza* sp. nr *melanura* Cockerell (Hym., Apidae)
Ex *Pansepta* channel, Karu Plntn, N.I.P., October, 1973.
- Pantorhytes albopunctulatus* Heller (Col., Curculionidae)
Adults and larvae infesting cocoa blocks in Ilimo/Kokoda area, N.P., throughout 1976. Damage to several blocks severe. When *Anoplolepis longipes* Jerdon (Hym., Formicidae) was present, little or no damage was evident.
- Papuanella* sp. (Hem., Flatidae)
Dailena Plntn, W.N.B.P., November, 1965.
- Paralecta* sp. (Lep, Xyloryctidae)
Larvae tunnelling in branches, Tuna Puna Plntn, Upper Warangoi, E.N.B.P., May, 1972.
- Parastasia inconstans* Fairmaire (Col, Scarabaeidae)
Boring cocoa pods, L.A.E.S., E.N.B.P., August, 1974. Attack not frequent enough to be economic.
- Paratella subcincta* Distant (Hem., Flatidae)
On flush foliage, Warasota Plntn, Oro Bay, N.P., August, 1964.
- Paratylana* sp. (Hem., Issidae)
Djaul Is., N.I.P., February, 1965.
- Pinzulenza kukisch* Hering (Lep., Limacodidae)
Moderate populations caused light to moderate damage to leaves of young cocoa seedlings under *Casuarina* and *Eucalyptus* shade, L.E.S., N.P., December, 1974.
- Platyacus malachiticus* Heller (Col., Curculionidae)
On leaves, Torokina, Kieta, N.S.P., July, 1971.
- Platyacus ruralis* Faust (Col., Curculionidae)
Feeding on foliage, Lakakot, Lihir Is., N.I.P., May, 1970.

Platypus insularis Stroymeyer (Col., Platypodidae)

Boring in to canker infected trunks, L.A.E.S., E.N.B.P., May, 1977; Karkar, Madang P., May, 1973.

Platypus jansoni Chapuis (Col., Platypodidae)

Ex dying cocoa, Amboga, Block 158, Popondetta, N.P., July, 1973.

Platypus solidus Walker (Col., Platypodidae)

Boring in trunks, Kaviak Plntn, Karkar Island, Madang P., March, 1977.

Potemnemus ? scabrosus Olivier (Col., Cerambycidae)

L.A.E.S., E.N.B.P., September, 1972.

Priochirus quadricollis Cameron (Col., Staphylinidae)

Sangara Est., Block 39, N.P., November, 1972.

Priocnemicoris flaviceps Guérin-Ménéville (Hem., Coreidae)

Adults and several nymphs collected from cocoa flush, noted feeding on pods; damage slight, Kokoda, N.P., March, 1975.

Prosopius obliqueplagiatus Breuning (Col., Cerambycidae)

Chewing on leaf and main stem, Nuatutu Plntn, Goodenough Is., Milne B.P., December, 1971.

Pseudodoniella laensis Miller (Hem., Miridae)

Adults and nymphs feeding on pods, Saiho Plntn, N.P., July, 1972 - June 1973; Kakondetta Vill., N.P., September, 1972; Pirive Vill., N.P., October 1972.

Infestations noted during a dry spell and not observed again after the rains commenced.

Pseudodoniella pacifica China & Carvalho (Hem., Miridae)

Feeding on pods, Magafin Village Plntn near Dagua, E.S.P., April, 1964.

Pterolophia mediochracea Breuning (Col., Cerambycidae)

Chewing on leaf and main stem, Goodenough Is., Nuatutu Plntn, Milne B.P., December, 1971.

Rhabdoscelus obscurus Boisduval (Col., Curculionidae)

Volupai Plntn, W.N.B.P., November, 1978.

Rhinoscapha funiebris Chevrolat (Col., Curculionidae)

Adults occasionally feeding on flush foliage throughout year, Popondetta/Sangara area, N.P.

Rhinoscapha immaculata Faust (Col., Curculionidae)

Steven's Plntn, N.P., June, 1973.

Rhinoscapha sp. nr *tricolor* Faust (Col., Curculionidae)

On branch, Garua Plntn, W.N.B.P., May, 1972.

- Ricania integra flavida* Melichar (Hem., Ricaniidae)
L.A.E.S., E.N.B.P., February, 1965; Agricultural Experimental Station, Madang P., May, 1964.
- Salomona* (?) *maculata* Karny (Orth., Tettigoniidae)
Popondetta, N.P., July, 1964.
- Segestes decoratus* Redtenbacher (Orth., Tettigoniidae)
Lingalinga Plntn, W.N.B.P., June, 1959.
- Segestidea defolaria gracilis* F. Willemse (Orth., Tettigoniidae)
Matakan Plntn, Namatanai, N.I.P., March, 1965.
- Segestidea novaeguineae* Brancsik (Orth., Tettigoniidae)
Murua Agricultural Station, nr Kerema, G.P., July, 1959.
- Stenoxyphus aurantiacus* Karsch (Orth., Pyrgomorphidae)
Bulu Plntn, Morobe P., August, 1956.
- Tarundia boadicea* Distant (Hem., Ricaniidae)
Gobairi Plntn, Morobe P., March, 1966.
- Techomyrmex albipes* F. Smith (Hym., Formicidae)
On dead cocoa trunk, Mililat Plntn, Madang P., March, 1976.
- Thaumasura carinicollis* Cameron (Hym., Pteromalidae)
Ex dying cocoa, Ambogo land settlement scheme, Block 158, N.P., July, 1973.
- Tmesisternus monticola* Gestro (Col., Cerambycidae)
Awawata land settlement scheme, N.P., September, 1974.
- Trichocerosia atrifulva* Hampson (Lep., Arctiidae)
Bred from larva feeding on foliage, Sangara, N.P., December, 1970.
- Trigonops carinithorax* Heller (Col., Curculionidae)
Eating bark of young cocoa seedlings causing setback and ramification of growth, Tinputz Plntn, Tinputz, N.S.P., August, 1976. Wild taro and *Datura* were alternate hosts.
- Uropteroides gestroi* Senna (Col., Brentidae)
Leaves, Wanigela Plntn, Wanigela, N.P., May, 1974.
- Varcia* sp. (Hem., Tropiduchidae)
Madang Ag. Plntn, Madang P., May, 1964.
- Xyleborus crassiusculus* Motshulsky (Col., Scolytidae)
Adults ex cankered cacao stems, L.A.E.S., E.N.B.P.
- Xyleborus destruens* Blandford (Col., Scolytidae)
Adults boring into trunk of cocoa affected by canker, Karkar Is., Madang P., 1973.

Xyleborus exiguus Walker (Col., Scolytidae)

Adults boring into trunk of cocoa affected by canker, L.A.E.S., E.N.B.P., June, 1977.

Xyleborus fornicatus Eichhoff (Col., Scolytidae)

Adults boring into trunk of cocoa affected by canker, Karkar, Madang P., May, 1973.

Xyleborus limatus Schedl (Col., Scolytidae)

Adults ex cankered cocoa wood, Karkar Is., Madang P., May, 1973; L.A.E.S., E.N.B.P., July, 1977.

Xyleborus similis Ferrari (Col., Scolytidae)

Ex cocoa wood - adults, larvae and pupae, Notre Mal Plntn, E.N.B.P., April, 1972.

Xylosandrus compactus Eichhoff (Col., Scolytidae)

Boring into trunks, Kaviak Plntn, Karkar Is., Madang P., March, 1977.

COCONUT

Aegus kombaensis Nagel (Col., Lucanidae)

In palms killed by *Scapanes*, Sangara, Block 39, N.P., November, 1972.

Aegus sculptipennis Parry (Col., Lucanidae)

In palms killed by *Scapanes*, Sangara, N.P., November, 1972.

Anoplolepis longipes Jerdon (Hym., Formicidae)

Associated with premature nutfall, Maralumi Est., Morobe P., 1975.

Araecerus fasciculatus Degeer (Col., Anthribidae)

Kapogere, C.P., June, 1971.

Bactridium orientale Reitter (Col., Rhizophagidae)

L.A.E.S., E.N.B.P., January, 1975.

Baryrrhynchus schroederi Kleine (Col., Brentidae)

Sangara, N.P., March, 1972.

Coenoryctoderus candezei Lansberge (Col., Scarabaeidae)

Saiho, Agricultural Extension Centre, N.P., April, 1971.

Cyphogastra abdominalis Waterhouse (Col., Buprestidae)

Coconut settlement block, Siki, W.N.B.P., January, 1975.

Dactylosternum dytiscoides Fabricius (Col., Hydrophilidae)

Smain Village, E.S.P., October, 1969.

Dactylosternum sp. (Col., Hydrophilidae)

Adults collected from dead palm, P.A.C., N.P., April, 1971.

- Decadarchis flavistriata* Walsingham (Lep., Tineidae)
Drying spear, Narakapor, Morobe P., September, 1971.
- Desmopterella circe* Kevan (Orth., Pyrogomorphidae)
Bisimaki Plntn, Milne B.P., October, 1959.
- Desudaba scylla* Distant (Hem., Fulgoridae)
Passam, E.S.P., April, 1967.
- Desudaba* sp. (Hem., Fulgoridae)
On young dwarf plams, Omuru, Madang P., November, 1978.
- Dipelicus triangularis* Montrouzier (Col., Scarabaeidae)
Long Is., Madang P., November, 1972.
- Eutermes novarum-hebridarum* W. & K Holin (Isop., Termitidae)
Lakakot Plntn, Lihir Is., N.I.P., May, 1970.
- Eutermes princeps* (Isop., Termitidae)
Little N'Drova Is., Manus P., October, 1972.
- Euthyrhinus meditabundus* Fabricius (Col., Curculionidae)
On leaf., L.A.E.S., E.N.B.P., April, 1976.
- Glenea grisea* J. Thomson (Col., Cerambycidae)
Resting on frond, Bainings, E.N.B.P., March, 1974.
- Horia blairi* Betrem (Col., Meloidae)
Port Moresby, Ela Beach, C.P., January, 1962.
- Idiopsodes grisea* Faust (Col., Curculionidae)
Running about on leaves and axils of young (3-5 ft) coconut, Hisiu Plntn, C.P., June 1971.
- Lanelater resectus* Candèze (Col., Elateridae).
Trunk of coconut palm, Arora Est., C.P., September, 1958.
- Mecapoda elongata* Linnaeus (Orth., Tettigoniidae)
On frond, Asuramba Plntn, Madang P., August, 1974.
- Mecocerina amabilis* Pascoe (Col., Anthribidae)
In decaying peripheral tissues of trunk of dying palm, Kapogere Agricultural Station, C.P., September, 1972.
- Microcerotermes bironi* Desneux (Isop., Termitidae)
Nest galleries built externally on bark of living coconut trees, from ground to top of palm.
- Microcerotermes papuanus* Holmgren (Isop., Termitidae)
Attacking coconut, Little N'Drova Is., Manus P., October, 1972.

- Oryctes rhinoceros* Linnaeus (Col., Scarabaeidae)
Lorengau, Manus P., February, 1970.
- Palmicultor browni* Williams (Hem., Pseudococcidae)
Axils of fronds and coconut flowers, Maralumi, Morobe P., September, 1975; July, 1977.
- Pamendanga* sp. (Hem., Derbidae)
Popondetta, N.P., August, 1963.
- Panesthia wallacei* Wood-Mason (Dict., Blattidae)
S.W. Coast, N.I.P., March, 1966.
- Papuana woodlarkiana* Montrouzier (Col., Scarabaeidae)
Adults attacked coconut seedlings, Siki Plntn, W.N.B.P., 1975-6. In an untreated plot the beetles killed 9% of plants in 14 months after planting.
- Paradaksha* sp. (Hem., Flatidae)
Popondetta, N.P., August, 1963.
- Phormesa* sp. (Col., Colydiidae)
Ex dead coconut, L.A.E.S., E.N.B.P., January, 1975.
- Phyllophora* sp. (Orth., Tettigoniidae)
Coconut leaf, L.A.E.S., E.N.B.P., March, 1974.
- Platypus jansonii* Chapuis (Col., Platypodidae)
Boring in trunks, L.A.E.S., E.N.B.P., July, 1976.
- Polistes comis* Cheesman (Hym., Vespidae)
Ex coconut flowers, feeding on nectar, Bubia, Morobe P., January, 1978.
- Polyrhachis dives* F. Smith. (Hym., Formicidae)
Maralumi Est., Morobe P., December, 1976; leaflet, Pak Is., Manus P., April, 1974.
- Rhabdoscelus obscurus* Boisduval (Col., Curculionidae)
Adults collected from dead and decaying growing point in association with *Rhynchophorus bilineatus* Montrouzier (Col., Curculionidae) and *Scapanes australis australis* Boisduval (Col., Scarabaeidae), Mamoo Plntn, Sangara, N.P., November, 1972; Lakakot, Lihir Is., N.I.P., May, 1970; Volupai Plntn, W.N.B.P., April, 1975; dead palm, L.A.E.S., E.N.B.P., January 1975.
- Rhynchophorus bilineatus* Montrouzier (Col., Curculionidae)
From stump of dead coconut, Asuramba Plntn, Madang P., August, 1974.
- Scapanes australis* Boisduval (Col., Scarabaeidae)
Awala Village, Popondetta, N.P., August, 1975.
- Scapanes australis australis* Boisduval (Col., Scarabaeidae)
Severe damage to young palms at Kokoda, N.P., September, 1974.

Segestes decoratus Redtenbacher (Orth., Tettigoniidae)

Murua Agricultural Station, nr Kerema, G.P., July, 1959; Madang, Madang P., May 1932; defoliating coconuts, Siassi Is., Morobe P., December, 1969; Talasea, W.N.B.P., February, 1971.

Segestidea defolaria defolaria Uvarov (Orth., Tettigoniidae)

Feeding on foliage, Malaguna, E.N.B.P., March, 1971; D.O.P.R.S., W.N.B.P., December, 1977.

Segestidea defolaria gracilis F. Willemse (Orth., Tettigoniidae)

On fronds, Londolovit Plntn, Lihir Is., N.I.P., July, 1955; Gilingil Plntn, N.I.P., July, 1956.

Segestidea leefmansi C. Willemse (Orth., Tettigoniidae)

Defoliating palms, Teripax Plntn, Tatau Is., N.I.P., Metakabul Plntn, N.I.P., August, 1955; Baekep Vill., New Hanover, N.I.P., August, 1955.

Segestidea novaeguineae Brancsik (Orth., Tettigoniidae)

Feeding on foliage, Bubia, Morobe, P., July, 1960; on fronds, Bogia, Madang P., January, 1960.

Segestidea uniformis C. Willemse (Orth., Tettigoniidae)

Feeding on fronds, Lei Vill., nr Lorengau, Manus Is., Manus P., June, 1956.

Sparganobasis subcruciatus Marshall (Col., Curculionidae)

Basal four feet of trunk, D.A.S.F., Kapogere, C.P., August, 1971; Sosoli Vill., Central Nakanai, E.N.B.P., August, 1967; base, Kapogere, C.P., September/October, 1969.

Technomyrmex albipes F. Smith (Hym., Formicidae)

Nesting at base of leaflet, Baliora Plntn, E.N.B.P., April, 1974.

?*Telostylus* sp. (Dipt., Neriidae)

Limacodid-attacked palms, Kapogere, C.P., June, 1971.

Thosea penthima Turner (Lep., Limacodidae)

Defoliation up to 50% on some palms, Kapogere, C.P., July, August, 1971.

Tirathaba rufivena Walker (Lep., Pyralidae)

Associated with premature nutfall, Maralumi Est., Morobe P., 1975.

Trochorrhopalus strangulatus Gyllenhal (Col., Curculionidae)

Smain Village, E.S.P., October, 1969: coconut, in bole 8-10 yrs old, Kuruwi Uwois Block, Sawan Land Settlement, E.S.P., August, 1972.

Xenocerus luctificus Fairmaire (Col., Anthribidae)

Ex trees in coconut block, Siki, W.N.B.P., January, 1975.

Zophiuma lobulata Ghauri (Hem., Lophopidae)

Adults and nymphs in moderate numbers on palms in Gona and Amboga area, N.P. throughout 1974; damage minimal, Finschhafen, Morobe P., January, 1974.

COFFEE

Anoplolepis longipes Jerdon (Hym., Formicidae)

Foraging over tree with high population of *Pulvinaria psidii* Maskell (Hem., Coccidae), Banz, W.H.P., March, 1973.

Batrachomorphus szentivanyi Ghauri (Hem., Cicadellidae)

Sucking soft flush shoots, H.A.E.S., E.H.P., April, 1976.

Batrachomorphus sp. (Hem., Cicadellidae)

Goroka, Bena Bena, E.H.P., September, 1964.

Carpophilus maculatus Murray (Col., Nitidulidae)

Associated with coffee berries, Banz, W.H.P., January, 1973.

Circopes vagans Lea (Col., Nitidulidae)

Associated with damaged coffee, Banz, W.H.P., January, 1973.

Epiphyas sp. (Lep., Tortricidae)

Larvae damaging berries, Banz and Minj, W.H.P., January-February, 1973.

Heliothis armiger Hubner (Lep., Noctuidae)

Larvae, Koibuega Plntn, W.H.P., October, 1973.

Mimemodes sp. nr *koebelei* Blackburn (Col., Rhizophagidae)

Associated with damaged coffee, Banz, W.H.P., January, 1973.

Papuana woodlarkiana Montrouzier (Col., Scarabaeidae)

Ringbarking stem near ground, Sigri Est., W.H.P., November, 1973.

Pheidole megacephala Fabricius (Hym., Formicidae)

Infesting 70% of trees on plntn, Banz, W.H.P., extensive runways were interfering with growth, scale insects abundant, March-April, 1973.

Planococcus citri Risso (Hem., Pseudococcidae)

On bark of trunk under shelter of carton ant tents, Banz, W.H.P., June, 1973.

Pulvinaria psidii Maskell (Hem., Coccidae)

Severe infestation of young unshaded coffee, Mt Hagen, W.H.P., February, 1973.

Rhinoscapha immaculata Faust (Col., Curculionidae)

Sasembata Vill., N.P., March, 1971.

Rhoptomyrmex melleus Emery (Hym., Formicidae)

Attending large population of *Pulvinaria psidii* Maskell (Hem., Coccidae), Mt Hagen, W.H.P., February, 1973.

ARABICA COFFEE

Altica sp. (Col., Chrysomelidae)

Leaves, H.A.E.S., E.H.P., March, 1976.

Anoplolepis longipes Jerdon (Hym., Formicidae)

Attending *Coccus viridis* Green (Hem., Coccidae), Wau, Morobe P., 1973-4.

Apiocalus cornutus Pascoe (Col., Curculionidae)

Adults commonly found feeding on soft flush tissue, damage usually slight, E.H.P., February-June, 1976.

Batracomorphus szentivanyi Ghauri (Hem., Cicadellidae)

Nymphs and adults commonly feeding on soft flush, occasionally causing deformation, E.H.P., February-June, 1976.

Chlaenius flaviguttatus MacLeay (Col., Carabidae)

Minjo Danal Plntn, W.H.P., May, 1971.

Coccus ? *celatus* De Lotto (Hem., Coccidae)

Minj, W.H.P., December, 1976; severely damaged coffee, Wau-Bulolo, Morobe P., 1973-6; Bena Bena, E.H.P. 1976.

Coccus ? *viridis* Green (Hem., Coccidae)

Infestations widespread, some causing shoot dieback, Wau, Morobe P., June, 1974.

Colgar tricolor Distant (Hem., Flatidae)

Adults and nymphs feeding on young flush growth, Wau, Morobe P., June, 1974.

Colgar sp., (Hem., Flatidae)

Adults on flush tissue, H.A.E.S., E.H.P., April, 1976.

Ectopsocus sp. (Psoc., Peripsocidae)

Wau, Morobe P., February, 1974.

Euricania tristicula Stål (Hem., Ricaniidae)

Adults and nymphs feeding on flush growth, Wau, Morobe P., June, 1974.

Mitrastethus sp. (Col., Curculionidae)

Nori Nori Vill., E.H.P., April, 1976.

Monolepta nigroapicata Bryon (Col., Chrysomelidae)

Adults, H.A.E.S., E.H.P., February-June, 1976.

Onthophagus eliptaminus Balthazar (Col., Scarabaeidae)

Adults associated with fungal infection of mature trees, possibly feeding on fungus which killed some trees, Embarlee Plntn, Goroka, E.H.P., June, 1976.

Oribius destructor Marshall (Col., Curculionidae)

Adults commonly found eating flush foliage, E.H.P., February-June, 1976.

Oribius inimicus Marshall (Col., Curculionidae)
Adults, Mt Hagen, W.H.P., December, 1975.

Oribius sp. (Col., Curculionidae)
Adults caused shot-hole damage to flush leaves, Bontu Plntn, E.H.P., April, 1976.

Toxoptera aurantii Bayer de Fonscolombe (Hem., Aphididae)
Several bushes heavily infested, Wau, Morobe P., June, 1974.

ROBUSTA COFFEE

Aesernia bimaculata Weise (Col., Chrysomelidae)
Komiatan Vill., Morobe P., March, 1967.

Segestidea novaeguineae Brancsik (Orth., Tettigoniidae)
On branch, Kerema, G.P., February, 1962.

Trigonops carinithorax Heller (Col, Curculionidae)
Foliage, Oriomo Station, W.P., July, 1960.

OIL PALM

Atherigona sp. (Dipt., Muscidae)
Rotting inflorescence, D.O.P.R.S., W.N.B.P., December, 1970.

Austracris guttulosa illepida Walker (Orth., Acrididae)
Leaves, Oil Palm Nursery, Mosa Plntn, W.N.B.P., June, 1970.

Batocera wallacei J. Thomson (Col., Cerambycidae)
Cape Rodney, C.P., January, 1970.

Carphurus rubroannulatus Motschulsky (Col., Melyridae)
P.A.C., N.P., August, 1973.

Dactylosternum sp. (Col., Hydrophilidae)
In association with *Scapanes* attack in trunk, D.O.P.R.S., Cape Hoskins, W.N.B.P., July, 1971.

Dermolepida noxium Britton (Col., Scarabaeidae)
Adults causing moderate defoliation, P.A.C., N.P., August, 1975-January, 1976.

Gasteruption sp. (Hym., Gasteruptionidae)
Saiho, N.P., June, 1973.

Helluosoma atrum Laporte (Col., Carabidae)
Saiho, N.P., November, 1973.

Ischnaspis longirostris Signoret (Hem., Coccidae)
On leaves - closely clustered, D.A.S.F., greenhouse, Konedobu, C.P., August, 1971.

Leptotheca galbula Mulsant (Col., Coccinellidae)
P.A.C., N.P., January, 1973.

- Miolispa ebenina* MacLeay (Col., Brentidae)
Lejo Pltn, N.P., July, 1974.
- Neohyphus kleinschmidti* Fairmaire (Col., Scarabaeidae)
Ex male flower, L.A.E.S., E.N.B.P., January, 1954; Sept., 1965; March, 1974.
- Opogona* sp. nr *citrolopha* Meyrick (Lep., Hieroxestidae)
Deep inside inflorescence, D.O.P.R.S., W.N.B.P., February, 1971.
- Placonotus* sp. (Col., Cucujidae)
Ex apparent fungal spear rot, D.O.P.R.S., Cape Hoskins, W.N.B.P., July, 1971.
- Plutorectis* sp. nr *boisduvali* Westwood (Lep., Psychidae)
Leaves, Mosa Pltn, W.N.B.P., April, 1968.
- Potemnemus* ? *scabrosus* Olivier (Col., Cerambycidae)
P.A.C., N.P., May, 1973.
- Ropica* sp. (Col., Cerambycidae)
P.A.C., N.P., January, 1973.
- Sacium* sp. (Col., Orthoperidae)
Ex apparent fungal spear rot, D.O.P.R.S., Cape Hoskins, W.N.B.P., July, 1971.
- Scelio* sp. nr *javanicus* Roepke (Hym., Scelionidae)
P.A.C., N.P., March, 1973.
- Schizaspidia* ? *convergens* Walker (Hym., Pteromalidae)
Saiho, N.P., September, 1974.
- Segestes decoratus* Redtenbacher (Orth., Tettigoniidae)
Bubia, Morobe P., 1973.
- Segestidea defolaria defolaria* Uvarov (Orth., Tettigoniidae)
D.O.P.R.S., W.N.B.P., December, 1977; Malaguna, E.N.B.P., March, 1971.
- Segestidea novaeguineae* Brancsik (Orth., Tettigoniidae)
Popondetta, N.P., 1973.
- Urophorus humeralis* Fabricius (Col., Nitidulidae)
Ex oil palm in bunches, D.O.P.R.S., W.N.B.P., June, 1973.

QUININE

- Gascardia destructor* Newstead (Hem., Coccidae)
On old trees, H.A.E.S., E.H.P., June, 1976.
- Ragwelellus festivus* Miller (Hem., Miridae)
Aiyura, E.H.P., January, 1951; October, 1954; October, 1959; May, 1963; adults and nymphs feeding on flush tissue, Aiyura, E.H.P., May, 1976; adults and nymphs feeding on flush tissue of old trees, damage slight, H.A.E.S., E.H.P., June, 1976.

RUBBER

Amblypelta theobromae Brown (Hem., Coreidae)

Adults caused distortion of flush tissue and proliferation of side shoots, damage occasionally severe, L.E.S., N.P., September, 1974.

? *Amblypelta* sp. (Hem., Coreidae)

Shoots, Angoram, E.S.P., May, 1976.

Brachyplatys sp. nr *laticeps* Montandon (Hem., Plataspidae)

Erecthites near rubber, Buin Sub-district, N.S.P., February, 1965.

Diaphanogryllacris sp. (Orth., Gryllacrididae)

Damage to polythene latex collecting bags on T.V.1 rubber, Tentri Est., Popondetta, N.P., October, 1970.

Exocentrus (Camptomyme) sp. (Col., Cerambycidae)

Ex budding stock, Bisianumu, 490m., C.P., September, 1955.

Lamenia sp. (Hem., Derbidae)

Agric. Station, Kop Kop, N.I.P., February, 1966.

Platysoma emptum Marseul (Col., Histeridae)

On trunk, Sangara, N.P., April, 1971.

Poneridia ficus Montrouzier (Col., Chrysomelidae)

Collected from mature trees, damage slight, Waju Vill., N.P., April, 1972.

TEA

Abgrallaspis cyanophylli Signoret (Hem., Diaspididae)

Severe infestation caused chlorosis of most leaves, K.A.R.S., W.H.P., May-June, 1972. In July, 1972 populations were heavily parasitised.

Adoxophyes aniara Diakonoff (Lep., Tortricidae)

Common, K.A.R.S., W.H.P., November, 1977.

Adoxophyes sp. (Lep., Tortricidae)

Uncommon, K.A.R.S., W.H.P., February, 1978.

Andaspis numerata Brindlecombe (Hem., Diaspididae)

Woody stems of recently pruned bushes, associated with fungus *Septobasidium* sp. which forms a net over the scale insect finally obscuring the scale insect completely, Pugamp Plntn, W.H.P., October, 1978.

Aphis gossypii Glover (Hem., Aphididae)

K.A.R.S., W.H.P., March, 1976; Garaina Plntn, Morobe P., September, 1978.

Ceroplastes ceriferus Fabricius (Hem., Coccidae)

Mijigina Tea Plntn, W.H.P., February, 1976.

Dappula sp. (Lep., Psychidae)

Warrowau Est., W.H.P., December, 1970.

Diachrysia orichalcea Fabricius (Lep., Noctuidae)

Larvae very occasional, W.H.P., 1975-8.

Helopeltis clavifer Walker (Hem., Miridae)

Second to fourth instars damaging flush foliage, P.A.C., N.P., July-August, 1973; present at Garaina Tea Plntn, Morobe P. during 1963-78. Damage to seed bearers in 1968, in pruned tea December, 1976 and tea in plucking in February, 1977; in 1977-8 damage was severe.

Homona coffearia Nietner (Lep., Tortricidae)

Single larva bred to adult, Garaina, Morobe P., February, 1978. This may be the first confirmed record of the species from tea, as the previous records are probably misidentifications. The common *Homona* on tea is now known to be *H. trachyptera* Diakonoff.

Homona trachyptera Diakonoff (Lep., Tortricidae)

The commonest species of *Homona* on tea, K.A.R.S., W.H.P., 1977-8.

Howardia biclavis Comstock (Hem., Diaspididae)

Pugamp Plntn, W.H.P., October, 1978.

Hyalopeplus sp. (Hem., Miridae)

Garaina, Morobe P., March, 1965.

Isodemus serpentiana Walker (Lep., Tortricidae)

One larva reared, Garaina, Morobe P., February, 1978.

Genus et sp. indet. (Lep., Lymantridae)

Occasional in tea nursery, K.A.R.S., W.H.P., throughout survey; severe damage to tea nursery, Kindeng Plntn, August, 1976.

Neda karubakana Bielawski (Col., Coccinellidae)

Mendi, S.H.P., March, 1974.

Oribius inimicus Marshall (Col., Curculionidae)

Adults caused shot-hole damage to leaves of cuttings, K.A.R.S., W.H.P., April, 1973; adults, Peregai Tea Est., S.H.P., March, 1976.

Papuana woodlarkiana Montrouzier (Col., Scarabaeidae)

Adults ringbarked young bushes just below ground level, K.A.R.S., W.H.P., Wahgi Valley, W.H.P., 1973.

Plusia chalcites Esper (Lep., Noctuidae)

Four pupae in curled leaves, K.A.R.S., W.H.P., May, 1973. These may have moved onto tea from another plant.

Riptortus imperialis Kirk (Hem., Alydidae)

Bunum Wo Est., W.H.P., September, 1969.

Sphaerarthrum robusticorne Wittmer (Col., Cantharidae)
K.A.R.S., W.H.P., August, 1973.

Spodoptera litura Fabricius (Lep., Noctuidae)
Larvae feeding on mature tea, K.A.R.S., W.H.P., October-November, 1973.

Toxoptera aurantii Bayer de Fonscolombe (Hem., Aphididae)
Minjigina Plntn, W.H.P., June, 1972.

Valanga sp. (Orth., Acrididae)
K.A.R.S., W.H.P., June, 1972; feeding on leaves, common, W.H.P., S.H.P., 1973.

FRUIT, NUT AND FOOD TREES

APPLE

Cassena sp. (Col., Chrysomelidae)
Shot-hole damage to leaves, W.H.P., throughout survey.

Lagria sp. (Col., Chrysomelidae)
Shot-hole damage to leaves, W.H.P., throughout survey.

Oribius inimicus Marshall (Col., Curculionidae)
Adults caused complete defoliation, Tambul, W.H.P., December, 1976.

AVOCADO

Helopeltis clavifer Walker (Hem., Miridae)
Adults and nymphs attacking soft flush tissue and flower shoots; damage moderate, P.A.C., N.P., September, 1973.

Oribius destructor Marshall (Col., Curculionidae)
Adults causing minor damage to leaves, Bontu Plntn, E.H.P., April, 1976.

Oribius sp. nr *guttiger* Blanchard (Col., Curculionidae)
On small tree, Ogelbeng, nr Mt Hagen, W.H.P., June, 1978.

Oribius sp. (Col., Curculionidae)
Adults causing minor damage to leaves, Bontu Plntn, E.H.P., April, 1976.

Genus et sp. indet. (Lep., Psychidae)
Larvae causing moderate damage to leaves, Kabiufa High School, E.H.P., April, 1976.

BANANA

Acanthotyla sp. (Hem., Pentatomidae)

Adult feeding on fruit stalk of ripening bunch, L.E.S., N.P., June, 1972.

Chelisoches morio Fabricius (Derm., Chelisochidae)

Numerous on bunches but no damage noted. Possible predator of fruit fly larvae emerging from fruit, L.E.S., N.P., 1973-4.

Cosmopolites sordidus Germar (Col., Curculionidae)

Adults and larvae infesting banana stools, L.E.S., N.P., December, 1971-February, 1972.

Diacrisia papuana Rothschild (Lep., Arctiidae)

Larvae feeding extensively on fruit, K.A.R.S., W.H.P., February, 1973.

Enoplopteron ? hieroglyphicum de Meijere (Dipt., Tephritidae)

P.A.C., N.P., November, 1971.

Heliothis armiger Hubner (Lep., Noctuidae)

Young foliage of bananas, Laloki to Kuriva areas., C.P.

? *Homophylotis* sp. nr *albicilia* Hampson (Lep., Zygaenidae)

On *Musa schizocarpa* & *M. acuminata*, Lae, Abunaka Plntn, Morobe P., October, 1971.

Myospila argentata Walker (Dipt., Muscidae)

Reared ex banana fruit, Sogeri, Fakonumu, C.P., July, 1972.

Opogona sp. (Lep., Hieroxestidae)

Pupated, ex fruit, Sogeri, Fakonumu, C.P., August, 1972.

Oribius inimicus Marshall (Col., Curculionidae)

Adults on leaves, Wabag, E.P., April, 1976.

Segestidea defoliaria defoliaria Uvarov (Orth., Tettigoniidae)

On leaves, between Sagsag and Lilengi Mission, W.N.B.P.

Segestidea montana F. Willemse (Orth., Tettigoniidae)

Amomenta, nr Aiyura, E.H.P., February, 1964.

Segestidea novaeguineae Brancsik (Orth., Tettigoniidae)

Amomenta, nr Aiyura, E.H.P., October, 1963.

Taenaris dimona Hewitson (Lep., Amathusiidae)

Larva feeding on foliage, Maprik, E.S.P., July, 1959.

CASHEW

Helopeltis clavifer Walker (Hem., Miridae)

All stages damaging soft flush tissue and developing fruit, P.A.C., N.P., September, 1973. Eggs deposited in leaf petioles.

? *Lymantria* sp. (Lep., Lymantriidae)

On foliage, Amanab, 800m, W.S.P., August, 1972.

Symphilites sp. (Col., Cerambycidae)

Larvae boring in twig, P.A.C., N.P., July, 1973.

CITRUS

Agrilus sp. (Col., Buprestidae)

Trunk and most branches except youngest, D.A.S.F., Laloki citrus budwood block, C.P., March, 1974.

Alcidodes sp. (Col., Curculionidae)

Gnawing into twigs, P.A.C., Popondetta, N.P.

Amblypelta theobromae Brown (Hem., Coreidae)

Adult feeding on developing fruit, Sangara Vocational School, N.P., November, 1974.

Aonidiella aurantii Maskell (Hem., Coccidae)

Occasionally noted on lemon, orange and grapefruit, H.A.E.S. and Kabiufa High School, Goroka, E.H.P., February-June, 1976.

Apiocalus cornutus Marshall (Col., Curculionidae)

Numerous on various *Citrus* throughout E.H.P. causing minor leaf damage, February-June, 1976.

Aspidomorpha australis Boisduval (Col., Chrysomelidae)

Adults collected from *Citrus*, H.A.E.S., E.H.P., April-June, 1976.

Genus nr *Ceresium* (Col., Cerambycidae)

Larvae boring in terminal branches, causing extensive damage, Togoba, W.H.P., July, 1973.

Ceroplastes destructor Newstead (Hem., Coccidae)

Adult scales, Banz, W.H.P., December, 1975; common, K.A.R.S., W.H.P., 1975-8; H.A.E.S., E.H.P. 1975-8.

Eudecatoma sp. (Hym., Eurytomidae)

Fruits, Naura Village, Milne B.P., October, 1972.

Iridomyrmex sp. (Hym., Formicidae)

Attending aphids on and nesting under trees, H.A.C., Mt Hagen, W.H.P., March-April, 1976. Also noted killing *Oribius inimicus* Marshall (Col., Curculionidae).

Monolepta nigroapicata Bryant (Col., Chrysomelidae)

Leaves - no damage noted, Aiyura, E.H.P., May/June, 1976.

Orcus cinctus Weise (Col., Coccinellidae)

H.A.E.S., E.H.P., March, 1976.

Oribius destructor Marshall (Col., Curculionidae)

Leaves, Karimui, S.P., June, 1970.

Oribius inimicus Marshall (Col., Curculionidae)

Adults defoliated and killed young mandarin trees, H.A.C., W.H.P. December, 1975.

Parallelia palumba Guenée (Lep., Noctuidae)

P.A.C., N.P., July, 1971.

Protaetia fusca Herbst (Col., Scarabaeidae)

Flush leaves, 15½ mile, Rouna Rd, Sapphire Smallgoods, C.P., January, 1975.

Proutista sp. (Hem., Derbidae)

P.A.C., N.P., October, 1970.

Psorosticha sp. nr *zizyphi* Stainton (Lep., Oecophoridae)

P.A.C., N.P., August, 1971.

Rhynchortalia wallacei Crotch (Col., Coccinellidae)

Karimui, S.P., June, 1970.

Saissetia coffeae Walker (Hem., Coccidae)

L.A.E.S., E.N.B.P., July, 1968.

Spodoptera mauritia Guenée (Lep., Noctuidae)

Aviamp, W.H.P., February, 1973.

Zoraida sp. (Hem., Derbidae)

P.A.C., N.P., October, 1970.

CUSTARD APPLE

Helopeltis clavifer Walker (Hem., Miridae)

Nymphs attacking soft flush tissue and young fruits, damage not severe, P.A.C. N.P., September, 1973.

Paratella sp. (Hem., Flatidae)

Adults feeding on soft flush tissue, P.A.C., N.P., October, 1973.

Terentius nubifasciatus Walker (Hem., Membracidae)

Adult feeding on flush tissue, P.A.C., N.P., October, 1973.

EUGENIA

Dacus frauenfeldi Schiner (Dip., Tephritidae)

Fruit, Bubia, Morobe P., June, 1977.

Paropsides sp. (Col., Chrysomelidae)

N.P., October, 1973.

FLACOURTIA

Clostera rubida Druce (Lep., Notodontidae)

Bubia, Morobe P., September, 1968.

GRANADILLA

Pternistria sp. (Hem., Coreidae)

Observed feeding on flush growth and near mature fruits, L.E.S., N.P., January, 1976.

GRAPEVINE

Oribius sp. (Col., Curculionidae)

Causing moderate damage to leaves, H.A.E.S., E.H.P., March, 1976.

GUAVA

Ceroplastes destructor Newstead (Hem., Coccidae)

Found throughout E.H.P., February-June, 1976.

Helopeltis clavifer Walker (Hem., Miridae)

Attacking flush tissue and eggs in ripening fruit, damage moderate to severe, P.A.C., N.P., September, 1973.

Oribius destructor Marshall (Col., Curculionidae)

Causing minor shot-hole damage to leaves on mature trees, Korona Plntn, E.H.P., April, 1976.

Ragwellelus festivus Miller (Hem., Miridae)

Causing severe damage and distortion of flush tissue; adults cause scabbing of fruit; eggs found embedded in midribs of recently expanded leaves, H.A.E.S., E.H.P., June, 1976.

Syntherata janetta White (Lep., Saturniidae)

Severe defoliation by larvae, Popondetta, N.P., September, 1975.

HIGHLANDS BREADFRUIT

Rhinoscapha cobaltinata Heller (Col., Curculionidae)

Henganofi, 2000m, E.H.P., February, 1977.

Rosenbergia weiskei Heller (Col., Cerambycidae)

H.A.E.S., Aiyura, 1550m, E.H.P., February, 1977.

MACADAMIA

Gesonula mundata Walker (Orth., Acrididae)

Defoliating young trees, Kundiawa area, S.P., March, 1976.

Genus et sp. indet. (Lep., Limacodidae)

On foliage, Kundiawa area, S.P., March, 1976.

Oribius sp. (Col., Curculionidae)

Defoliating young trees, Kundiawa area, S.P., March, 1976.

MANGO

Ceroplastes rubens Maskell (Hem., Coccidae)

Koki, Port Moresby, C.P., April, 1970.

Chlumetia transversa Walker (Lep., Noctuidae)

Sino Pltn, N.P., June, 1971.

Helopeltis clavifer Walker (Hem., Miridae)

On flush tissue of 'native' mango, Amboga, N.P., August, 1973.

Penicillaria jocosatrix Guenée (Lep., Noctuidae)

Sino Pltn, Popondetta, N.P., June, 1971.

MULBERRY

Bothrichara palliata MacLeay (Col., Cerambycidae)

Single specimen, S.R.B.C., Mt Hagen, W.H.P., October, 1976.

Cassena ? intermedia Jacoby (Col., Chrysomelidae)

Single specimen, S.R.B.C., Mt Hagen, W.H.P., October, 1976.

Lagria sp. (Col., Chrysomelidae)

Frequent, S.R.B.C., Mt Hagen, W.H.P., October, 1976.

Oribius destructor Marshall (Col., Curculionidae)

Common, S.R.B.C., Mt Hagen, W.H.P., October, 1976.

Oribius inimicus Marshall (Col., Curculionidae)

Very common but damage very slight, S.R.B.C., Mt Hagen, W.H.P., October, 1976.

Rhyparida sp. nr *basalis* Baly (Col., Chrysomelidae)

Damage very slight, S.R.B.C., Mt Hagen, W.H.P., October, 1976.

Rhyparida coriacea Jacoby (Col., Chrysomelidae)

Damage slight, S.R.B.C., Mt Hagen, W.H.P., October, 1976.

Rhyparida sp. (Col., Chrysomelidae)

Damage slight, S.R.B.C., Mt Hagen, W.H.P., October, 1976.

PANDANUS

Patanga sp. (Orth., Acrididae)

Hopper bands damaged young *Pandanus* in gardens, Lufa area, E.H.P., March, 1978.

Segestes cornelii Willemse (Orth., Tettigoniidae)

Kandep, W.H.P., February, 1964.

Segestidea montana F. Willemse (Orth., Tettigoniidae)

Amomenta, nr Aiyura, E.H.P., October, 1963.

PASSIONFRUIT

Oribius destructor Marshall (Col., Curculionidae)

Adults causing minor leaf damage, Bontu Plntn, E.H.P., 1976.

Oribius sp. nr *guttiger* Blanchard (Col., Curculionidae)

Slight shot-hole damage, Ogelbeng, nr Mt Hagen, W.H.P., June, 1978.

Oribius inimicus Marshall (Col., Curculionidae)

Severe shot-hole damage, Ogelbeng, nr Mt Hagen, W.H.P., June, 1978.

PAWPAW

Dacus neohumeralis Hardy (Dipt., Tephritidae)

Reared from larvae ex fruit of *Carica papaya*, Ilimo Farm, C.P., October, 1970.

Glycyphana incerta Wallace (Col., Scarabaeidae)

From rotting fruit, Popondetta, N.P., October, 1975.

Oxyderes cyrtus Jordan (Col., anthribidae)

Feeding on rotting tissue at stem and fruit insertions and in rotting fruits, Gerehu, C.P., October, 1975.

Protaetia ? *keyensis* Moser (Col., Scarabaeidae)

In rotten fruit, Popondetta, N.P., January, 1974.

Rhinoscapha maclayi MacLeay (Col., Curculionidae)

Mission nr Madang, Madang P., October, 1958.

Tetranychus sp. (Acarina, Tetranychidae)

Excavations in base of leaf axils, Laloki., C.P., August, 1978.

SAGO

Trochorhopalus strangulatus Gyllenhal (Col., Curculionidae)

Dead palm, Anir Is., Feni Island Group., N.I.P., October, 1959.

TERMINALIA

Nagia episcopalis Hampson (Lep., Noctuidae)

On leaves, Kaugere, C.P., October, 1970.

FRUIT FLIES EX TRAPS

Dacus cucurbitae Coquillett (Dipt., Tephritidae)

L.A.E.S., E.N.B.P., August, 1968; ex Me trap in banana block, Lejo Plntn, Sangara, N.P., July, 1972; October, 1972.

Dacus curvifer Walker (Dipt., Tephritidae)

Ex Me trap in village gardens, Kokoda, Pirive Vill., N.P., October, 1972.

Dacus indecorus Drew (Dipt., Tephritidae)

Dak Pot in mature cocoa, Keravat, E.N.B.P., May, 1967; Samo Vill., Lihir Island, N.I.P., May, 1970.

Dacus musae Tryon (Dipt., Tephritidae)

Ex Me trap native gardens, Kokoda, Pirive Vill., N.P., October, 1972.

Dacus neohumeralis Hardy (Dipt., Tephritidae)

Ex cue lure, Daru, W.P., August, 1970; ex cue trap, Mt. Lawes, 244m, C.P., March, 1970.

Dacus seguyi Hering (Dipt., Tephritidae)

Garden, Kokoda, Pirive Vill., N.P., October, 1972; ex Me trap, banana block, Lejo Plntn, Sangara, N.P., October, 1972.

Dacus umbrosus Fabricius (Dipt., Tephritidae)

Ex Me trap in banana, Lejo Plntn, Sangara, N.P., July, 1972; October, 1972; November, 1972; ex Me trap in gardens, Pirive Vill., Kokoda, N.P., October, 1972.

Drosophila pararubida Mather (Dipt., Drosophilidae)

Fermented banana bait, Bisianumu, Papuan Highlands Stock & Rubber Experimental Station, C.P., February, 1965.

Drosophila rubida Mather (Dipt., Drosophilidae)

Fermented banana bait, Bisianumu, Papuan Highlands Stock & Rubber Experimental Station, C.P., February, 1965.

Drosophila setifemur Malloch (Dipt., Drosophilidae)

Bisianumu, Papuan Highlands Stock & Rubber Experimental Station, C.P., February, 1965.

SHADE TREES AND ORNAMENTALS

Acalolepta holotephra Boisduval (Col., Cerambycidae)

Boring *Ficus* sp. stem, L.A.E.S., E.N.B.P., July, 1976.

Achaea janata Linnaeus (Lep., Noctuidae)

Flush foliage, *Eucalyptus confertiflora*, Jacksons Airport, C.P., December, 1971.

Adoxophyes sp. (Lep., Tortricidae)

Larvae severely defoliated *Gliricidia maculata* shade trees over young cocoa, P.A.C., N.P., August, 1971.

Agapophyta sp. (Hem., Pentatomidae)

Adults and nymphs numerous on pods and flush of *Flemingia congesta*, L.E.S., N.P., throughout the year.

Aphis gossypii Glover (Hem., Aphididae)

On *Hibiscus rosa-sinensis*, K.A.R.S., W.H.P., October, 1976.

Brachyplatys sp. (Hem., Pentatomidae)

Adults feeding on flush of *Flemingia congesta*, L.E.S., N.P., July, 1974.

Brizica sp. (Hem., Pentatomidae)

Numerous on flush of *Cassia fistula*, P.A.C., N.P., January-March, 1974.

Cassena intermedia Jacoby (Col., Chrysomelidae)

Severe shot-hole damage to leaves of flowering maple, K.A.R.S., W.H.P., July, 1973.

Catopsilia pomona f. *crocale* Fabricius (Lep., Pieridae)

Severe defoliation of *Cassia* sp. at P.A.C., N.P., April, 1972; September-October, 1974.

Chilocorus meijerei Weise (Col., Coccinellidae)

On *Ficus* sp., Oivi Ridge, N.P., November, 1975.

Chromis erotus Cramer (Lep., Sphingidae)

Larvae feeding on *Pentas* sp., K.A.R.S., W.H.P., June, 1978.

Clostera ? *anachoreta* Fabricius (Lep., Noctuidae)

Defoliating poplar trees, Tumbul, W.H.P., March, 1973, prepupae parasitised by a braconid.

Cloviana birarensis Kirkaldy (Hem., Cercopidae)

Adults on kamarere (*Eucalyptus deglupta*), L.E.S., N.P., July, 1973.

Colgar tricolor Distant (Hem., Flatidae)

Adults feedings on shoot growth of *Casuarina oligodon*, L.E.S., N.P., June, 1973.

Colgar sp. (Hem., Flatidae)

Adults feeding on shoot growth of *Casuarina oligodon* shade trees, L.E.S., N.P., June, 1973; sucking flush of *Eucalyptus deglupta*, H.A.E.S., E.H.P., April, 1976.

Diachrysia orichalcea Fabricius (Lep., Noctuidae)

Larvae feeding on foliage of sweet pea (*Lathyrus odoratus*), K.A.R.S., W.H.P., February, 1976.

? *Dichomeris* sp. (Lep., Gelechiidae)

Soft leaves of *Eucalyptus deglupta*, Tabai Rikau, W.N.B.P., September, 1971.

Doleshallia hexophthalmos Gmelin (Lep., Nymphalidae)

Larvae extensively defoliating ornamentals, mainly *Croton* sp., P.A.C., N.P., March-April, 1972.

Dysdercus decussatus Boisduval (Hem., Pyrrhocoridae)

On *Hibiscus* sp., Kilinwara Plntn, E.N.B.P., October, 1970.

Euricania tristicula Stål (Hem., Ricaniidae)

Adults on kamarere (*Eucalyptus deglupta*), L.E.S., N.P., 1973.

Euricania villicia Stål (Hem., Ricaniidae)

Adults feeding on flush of *Aralia* sp., Afore, N.P., October, 1973.

Helopeltis clavifer Walker (Hem., Miridae)

All stages on flush foliage of *Aralia* sp., P.A.C., N.P., 1973-4.

Helopeltis clavifer Walker (Hem., Miridae)

Adults and nymphs on flush growth of *Cassia fistula*, P.A.C., N.P., November, 1972.

Helopeltis clavifer Walker (Hem., Miridae)

Feeding on flush of kamarere (*Eucalyptus deglupta*), N.P. and E.H.P., 1975-6.

Helopeltis clavifer Walker (Hem., Miridae)

Adults and nymphs feeding on flush of *Flemingia* ? *strobilifera*, P.A.C., N.P., June, 1973.

Helopeltis clavifer Walker (Hem., Miridae)

Feeding on flush of Indian laburnum (*Flemingia* sp.), N.P., 1973; E.H.P., 1976.

Helopeltis clavifer Walker (Hem., Miridae)

Nymphs and adults feeding on flush of *Gliricidia maculata*, N.P., E.H.P., 1976.

Henosepilachna signatipennis Boisduval (Col., Coccinellidae)

Feeding on flush of *Eucalyptus deglupta* causing minor damage, L.E.S., N.P., July, 1974.

Homona coffearia Nietner (Lep., Noctuidae)

Larvae severely defoliated *Gliricidia maculata* shade over young cocoa, P.A.C., N.P., August, 1971.

Labdia albimaculella Deventer (Lep., Cosmopterigidae)

Larvae feeding on ripe seeds of *Caesalpinia* sp., Port Moresby, C.P., September, 1972.

Lamprogaster sp. nr *patula* Walker (Dipt., Platystomatidae)

On *Ficus* sp., Divi Ridge, Kokoda sub-province, N.P., November, 1975.

Lophyrotoma analis Costa (Hym., Pergidae)

Ex *Eucalyptus* sp. foliage, Saraga, Port Moresby, C.P., January, 1969.

Lymantria ninayi Bethune-Baker (Lep., Lymantridae)

Completely defoliated one *Casuarina* sp., K.A.R.S., W.H.P., September, 1977.

Maconellicoccus hirsutus Green (Hem., Pseudococcidae)

Severely damaged individual *Hibiscus* sp. at L.A.E.S., E.N.B.P., June, 1976. Control of attending fire ants *Solenopsis* sp. (Hym., Formicidae) significantly reduced numbers of *M. hirsutus*.

Macroura sp. (Col., Nitidulidae)

On *Hibiscus* sp. flowers, Saraga, Port Moresby, C.P., September, 1970.

Megachile frontalis Fabricius (Hym., Megachilidae)

Adults caused moderate to severe damage to leaves of *Eucalyptus deglupta* and *E. tereticornis* in forestry plots, N.P., March, 1975.

Mocis trifasciata Stephens (Lep., Noctuidae)

On *Flemingia* sp., Dami plantation, W.N.B.P., July, 1970.

Myzus persicae Sulzer (Hem., Aphididae)

On *Bulbophyllum* sp. in orchid house, Tambul, W.H.P., September, 1977.

Neomyzus circumflexus Buckton (Hem., Aphididae)

On *Bulbophyllum* sp. in orchid house, Tambul, W.H.P., September, 1977.

Oncocoris sp. (Hem., Pentatomidae)

Adults feeding on pods of *Flemingia* ? *congesta*, L.E.S., N.P., June, 1974.

Oncocoris sp. (Hem., Pentatomidae)

Adults feeding on pods of *Flemingia* ? *strobilifera*, P.A.C., N.P., June, 1973.

Oribius destructor Marshall (Col., Curculionidae)

Adults feeding on foliage of hollyhock (*Althaea rosea*), Minjigina Tea Pltn, Mt Hagen, W.H.P., April, 1976.

Oribius destructor Marshall (Col., Curculionidae)

Adults common on flowers of dahlia (*Dahlia* sp.), Minjigina Tea Pltn, Mt Hagen, W.H.P., April, 1976.

Oribius sp. nr *guttiger* Blanchard (Col., Curculionidae)

Adults from flowers of dahlia (*Dahlia* sp.), Minjigina Tea Pltn, Mt Hagen, W.H.P., April, 1976.

Oribius inimicus Marshall (Col., Curculionidae)

Adults common on flowers of dahlia (*Dahlia* sp.), K.A.R.S., W.H.P., 1975-6.

Oribius inimicus Marshall (Col., Curculionidae)

Adults on foliage and flowers of *Hibiscus* sp., K.A.R.S., W.H.P., 1975-6.

Oribius inimicus Marshall (Col., Curculionidae)

Feeding on orchid flowers in orchid house, Laiagam, E.P., January, 1977.

Oribius inimicus Marshall (Col., Curculionidae)

Adults in flowers of *Rosa* sp., Tambul, W.H.P., December, 1975.

Oribius sp. (Col., Curculionidae)

Feeding on leaves of *Albizzia stipulata*, Bontu Pltn, E.H.P., April, 1976.

Oribius sp. (Col., Curculionidae)

Adults causing severe damage to *Hibiscus rosa-sinensis*, Wanigela, N.P., May, 1974.

Oribius spp. (Col., Curculionidae)

Adults causing moderate damage to *Hibiscus rosa-sinensis*, Bontu Plntn, E.H.P., April, 1976.

Othreis fullonia Clerk (Lep., Noctuidae)

Larvae defoliated *Erythrina* sp. shade over mature cocoa with slight damage to cocoa, Sangara Est., N.P., March, 1972.

Panseptia teleturga Meyrick (Lep., Xyloryctidae)

On *Hibiscus* sp., Klinwata Plntn, E.N.B.P., October, 1970.

Pantorhytes szentivanyi Marshall (Col., Curculionidae)

A single larva was extracted from a wet larval channel in *Casuarina* sp. at ground level, L.E.S., N.P., January, 1976.

Pericyma cruegeri Butler (Lep., Noctuidae)

Moderate defoliation of *Delonix regia* at Lae, Morobe P., February, 1976.

Pidorus sp. (Lep., Zygaenidae)

Severe defoliation of *Nothofagus grandis*, Sirunki, E.P., June, 1973.

Plautia sp. (Hem., Pentatomidae)

Adults feeding on pods of *Flemingia ? strobilifera*, P.A.C., N.P., June, 1973.

Poecilopharis bimaculata Schurhoff (Col., Scarabaeidae)

Flowers of *Eucalyptus deglupta*, L.A.E.S., E.N.B.P., July, 1974.

Poneridia ficus Montrouzier (Col., Chrysomelidae)

Leaves of *Ficus opposita*, Kaevaga, C.P., August, 1973.

Pternistria sp. (Hem., Coreidae)

Adults on flush growth of *Aralia* sp., Afore, N.P., October, 1973.

Rhinoscapa immaculata Faust (Col., Curculionidae)

On *Cassia* sp., Port Moresby, C.P., March, 1958.

Rhyparidella arachi Gressitt (Col., Chrysomelidae)

Eating petals of *Rosa* sp., H.A.E.S., E.H.P., June, 1976.

Rhyparidella casuarinae Gressitt (Col., Chrysomelidae)

Eating petals of *Rosa* sp., H.A.E.S., E.H.P., June, 1976.

Riptortus sp. (Hem., Alydidae)

Adults feeding on seed pods of *Flemingia congesta*, L.E.S., N.P., July, 1974.

Spodoptera mauritia Guenée (Lep., Noctuidae)

Larvae feeding on *Hibiscus* sp., P.A.C., N.P., January, 1969.

Spodoptera umbraculata Walker (Lep., Noctuidae)

On *Hibiscus* sp., P.A.C., N.P., 1969.

Stepsicrates sp. nr *rothia* Meyrick (Lep., Tortricidae)

Larvae causing extensive damage to *Eucalyptus robusta*, K.A.R.S., W.H.P., 1972-3.

Sylepta derogata Fabricius (Lep., Pyralidae)

On *Hibiscus rosa-sinensis*, Garaina Tea Plntn, Morobe P., February, 1978.

Syllitus sp. nr *buloloensis* Gressitt (Col., Cerambycidae)

On *Flemingia* sp., Lejo Plntn, N.P., January, 1976.

Syntherata godeffroyi Butler (Lep., Saturniidae)

Defoliating *Eucalyptus* sp., Dami Forestry Station Hoskins, W.N.B.P., December, 1971 - pupated and emerged in February/May, 1972.

Syntherata janetta White (Lep., Saturniidae)

Minor foliage damage to *Eucalyptus robusta*, K.A.R.S., W.H.P., January-February, 1974.

Tectocoris diophthalmis Thunberg (Hem., Pentatomidae)

Adults and nymphs common on *Hibiscus rosa-sinensis*, K.A.R.S., W.H.P., March, 1976.

Tenuipalpus pacificus Baker (Acarina, Tenuipalpidae)

On orchids, Lae, Morobe P., November, 1969.

Tiracola plagiata Walker (Lep., Noctuidae)

Larvae defoliated *Leucaena leucocephala* shade trees over mature cocoa, Isiveri settlement area, N.P., August, 1972.

Toxoptera aurantii Bayer de Fonscolombe (Hem., Aphididae)

Light infestations on *Eucalyptus deglupta*, Popondetta, N.P., June, 1974.

Toxoptera aurantii Bayer de Fonscolombe (Hem., Aphididae)

Adults and nymphs infesting flush of *Gliricidia maculata* shade trees over young cocoa, P.A.C., N.P., 1972-3.

Xylotrupes gideon Linnaeus (Col., Scarabaeidae)

Feeding extensively on trunk bark of willow, '*Salix alba*', K.A.R.S., W.H.P., July, 1973.

FIELD CROPS

COTTON

Dysdercus cingulatus Fabricius (Hem., Pyrrhocoridae)

Keravat, E.N.B.P., October, 1971.

KENAF

Earias vittella Fabricius (Lep., Noctuidae)
Keravat, E.N.B.P., October, 1970.

Nisotra baselae Bryant (Col., Chrysomelidae)
L.A.E.S., E.N.B.P., October, 1970.

SUGAR CANE

Ceratovacuna lanigera Zehntner (Hem., Aphididae)
Colony on stem, K.A.R.S., W.H.P., March, 1976.

Chilo terrenellus Pagenstecher (Lep., Pyralidae)
On rotting sugarcane tip, Markham Valley, Morobe P., June, 1972.

Dasychira horsfieldi Saunders (Lep., Lymantriidae)
K.A.R.S., W.H.P., July, 1977.

Euphneusta solena Bradley (Lep., Elachistidae)
Larvae mining leaves, Bubia, Morobe P., 1972.

Lophops saccharicida Kirkaldy (Hem., Lophopidae)
Munum, Morobe P., August, 1966; Laloki, C.P., August, 1966; Keravat, E.N.B.P., June, 1953.

Maliarpha separatella Ragonot (Lep., Pyralidae)
Most common stem borer in wetter parts of the Markham Valley; Bubia, Morobe P., 1972.

Melanitis constantia Cramer (Lep., Satyridae)
Larvae feeding on leaves, Bubia, Morobe P., October, 1976.

Patanga sp. (Orth., Acrididae)
Hopper bands damaged sugarcane in gardens, Lufa area, E.H.P., March, 1978.

Perkinsiella spp. (Hem., Delphacidae)
Commonly encountered on village sugar cane in N.P. throughout 1976.

Polyrachis sp. (Hym., Formicidae)
Popondetta, N.P., April, 1967.

Sesamia arfaki Bethune-Baker (Lep., Noctuidae)
P.A.C., N.P., September, 1971.

Tauchiridea adusta Bolivar (Orth., Acrididae)
Gabensis, Morobe P., July, 1969.

SUNFLOWER

Heliothis armiger Hubner (Lep., Noctuidae)

Ex-seed heads, Buvussi via Kimbe, W.N.B.P., February, 1973.

Oribius inimicus Marshall (Col., Curculionidae)

Adults on flowers, Wabag, E.P., April, 1976.

TOBACCO

Anomala anoguttata Burmeister (Col., Scarabaeidae)

Saidor, Madang P., October, 1973.

Graptostethus servus Fabricius (Hem., Lygaeidae)

Saidor, Madang P., October, 1973.

Phaneroptera brevis Audinet-Serville (Orth., Tettigoniidae)

Saidor, Madang P., October, 1973.

Phaneroptera gracilis Burmeister (Orth., Tettigoniidae)

Saidor, Madang P., October, 1973.

Rhinoscapa tricolor Faust (Col., Curculionidae)

Saidor, Madang P., October, 1973.

Rhyparida basalis Baly (Col., Chrysomelidae)

Saidor, Madang P., October, 1973.

Spilotethus hospes Fabricius (Hem., Lygaeidae)

Saidor, Madang P., October, 1973.

GRAIN CROPS

MAIZE

Aethinodes sp. (Col., Nitidulidae)

Adult ex cob sheath, Wapenamanda, E.P., February, 1972.

Agrypnus sp. (Col., Elateridae)

Adults scavenging inside cob, Wapenamanda, E.P., February, 1972.

Arsipoda tenimberensis Jacoby (Col., Chrysomelidae)

Heavy populations scarring leaves, Korn Farm, W.H.P., August, 1973.

- Aulacophora similis* Oliver (Col., Chrysomelidae)
Cleanwater, Morobe P., April, 1970.
- Aulacophora* sp. nr *abdominalis* Fabricius (Col., Chrysomelidae)
Korn Farm, W.H.P., August, 1973.
- Casnonidia* sp. (Col., Cerambycidae)
Adults on foliage, Wapenamanda, W.H.P., February, 1972.
- Cassena intermedia* Jacoby (Col., Chrysomelidae)
Adults feeding on leaves, H.A.T.I., W.H.P., August, 1973; Korn Farm, W.H.P., August, 1973.
- Chaetocnema (Tlanoma) basalis* Baly (Col., Chrysomelidae)
Leaves, Korn Farm, W.H.P., August, 1973; QK 37, L.A.E.S., E.N.B.P., December, 1970.
- Coelophora ripponi* Crotch (Col., Coccinellidae)
K.A.R.S., W.H.P., October, 1973.
- Cofana spectra* Distant complex (Hem., Cicadellidae)
Korn Farm, W.H.P., August, 1973.
- Compsolacon gracilis* Candèze (Col., Elateridae)
Adults feeding on cobs, Togoba, W.H.P., July, 1973.
- Coryphus* sp. nr *biroi* Cziki (Col., Endomychidae)
Korn Farm, W.H.P., August, 1973.
- Dacus cucurbitae* Coquillett (Dipt., Tephritidae)
Cleanwater, Morobe P., April, 1970.
- Dacus papuensis* Malloch (Dipt., Tephritidae)
Cleanwater, Markham Valley, Morobe P., April, 1970.
- Dysdercus sidae* Montrouzier (Hem., Pyrrhocoridae)
Cleanwater, Markham Valley, Morobe P., April, 1970.
- Heliothis armiger* Hubner (Lep., Noctuidae)
Corn ears, Laloki to Kuriva areas, C.P., March, 1973; Maralumi, Morobe P., 1975; W.H.P., E.P., 1975-6.
- Hypolixus mastersi* Pascoe (Col., Curculionidae)
Leaves, Gordons, Sec. 107, Lot 7, C.P., June, 1973.
- Menochilus sex-maculatus* Fabricius (Col., Coccinellidae)
Korn Farm, W.H.P., August, 1973.
- Monolepta nigroapicata* Bryant (Col., Chrysomelidae)
Feeding on maize tassels, Cleanwater, Markham Valley, April, 1970.

- Oribius inimicus* Marshall (Col., Curculionidae)
Adults, Tambul, W.H.P., December, 1975.
- Ostrinia furnacalis* Guenée (Lep., Pyralidae)
Ex stems and ears, L.A.E.S., E.N.B.P., May, 1970; Bubia, Maralumi, Morobe P., 1972; ex damaged cob, Awawaka. N.P., September, 1974.
- Patanga* sp. (Orth., Acrididae)
Hopper bands destroyed corn in gardens, Lufa area, E.H.P., March, 1978.
- Pelopidas* sp. (Lep., Hesperidae)
Foliage, L.A.E.S., E.N.B.P., October, 1976.
- Peregrinus maidis* Ashmead, (Hem., Delphacidae)
Shoot, Namatanai Agricultural Station, N.I.P., November, 1976; on leaves, Bubia, Morobe P., September, 1974.
- Prosopius griseus* Breuning (Col., Cerambycidae)
Inflorescence, Sacred Heart High School, Yule Island, C.P., May, 1974.
- Protaetia fusca* Herbst (Col., Scarabaeidae)
Inflorescence, Gordons, Sec. 10, Lot. 7, C.P., July, 1973.
- Pseudaletia separata* Walker (Lep., Noctuidae)
Larvae ex cobs, Minj and Banz, W.H.P., December, 1974.
- Rhopalosiphon maidis* Fitch (Hem., Aphididae)
Bubia, Maralumi, Morobe P., 1974; common in E.H.P., W.H.P., during survey.
- Sphaerarthrum* sp. (Col., Cantharidae)
Adults inside sheath of cob, Wapenamanda, E.P., February, 1972, status unknown.
- Spilocaria bissellata* Mulsant (Col., Coccinellidae)
Korn Farm, W.H.P., August, 1973.
- Spodoptera exempta* Walker (Lep., Noctuidae)
Larvae defoliated 0.5 hectares to ground level, Togoba, W.H.P., March, 1973.

MILLET

- Blastophaga* sp. (Hym., Agaonidae)
Millet flowers, Keravat, E.N.B.P., January, 1968.

RICE

- Arsipoda* sp. (Col., Chrysomelidae)
Iseveni, N.P., October, 1974.

- Blissus* sp. (Hem., Lygaeidae)
Adults and nymphs associated with mealy bugs at roots of rice seedlings (upland rice), Bubia, Morobe P., 1976.
- Bothrichara palliata* MacLeay (Col., Cerambycidae)
Handarituru Vill., N.P., July, 1971.
- Cicindela decem-guttata urvillei* Dejean (Col., Cicindellidae)
Saiho, N.P., April, 1971.
- Coronacella kirkaldyi* Muir (Hem., Delphacidae)
Gabmazung, Morobe P., July, 1972.
- Cyrtorhinus lividipennis* Reuter (Hem., Miridae)
Gabmazung, Morobe P., June, 1976 (recorded in India and Malaysia as a predator of *Nilaparvata lugens* Stål (Hem., Delphacidae), but no observations of its status in PNG have been made).
- Dacus cucurbitae* Coquillett (Dipt., Tephritidae)
Cleanwater, Morobe P., April, 1970.
- Deltocephalus* sp. (Hem., Cicadellidae)
Gabmazung, Morobe P., July, 1972.
- Desudaba scylla* Distant (Hem., Fulgoridae)
Waseta, N.P., September, 1974.
- Dicladispa linnei* Weise (Col., Chrysomelidae)
Newly emerged seedlings, Waseta, N.P., August, 1974.
- Herpetogramma licarsisalis* Walker (Lep., Pyralidae)
Stem, Terapo R.C. Mission, C.P., August, 1969.
- Heteropternis obscurella* Blanchard (Orth., Acrididae)
Seedlings, Saiho, Agricultural Extension Centre, N.P., April, 1971; Waseta Vill., N.P., slight damage, October, 1974.
- Leptocoris acuta* Thunberg (Hem., Alydidae)
Leptocoris oratorius Fabricius (Hem., Alydidae)
Leptocoris solomonensis Ahmad (Hem., Alydidae)
All feeding on developing grain, Soputa Vill., N.P., October, 1974.
- Leptocoris* sp. (Hem., Alydidae)
On glumes, 60 miles west of Wewak, Sowam, Block 3, E.S.P., September, 1972.
- Lomaptera funebris* Heller (Col., Scarabaeidae)
Gona Vill., N.P., September, 1974.
- Marasmia poeyalis* Boisduval (Lep., Pyralidae)
Larvae, Pimaga, S.H.P., April, 1978.

Melanitis leda Drury (Lep., Nymphalidae)

Larvae caused localised foliage damage but it is doubtful if this reduced yield, B.A.R.C., Gabmazung, Morobe P., 1971-2

Miolispa nova-guineensis Guérin-Ménéville (Col., Brenthidae)

Soputa Vill., N.P., October, 1974.

Monolepta nigroapicata Bryant (Col., Chrysomelidae)

Soputa Vill., N.P., October, 1974.

Mythimna loreyi Duponchel (Lep., Noctuidae)

Foliage, Maprik area, E.S.P., January, 1973.

Nilaparvata lugens Stål (Hem., Delphacidae)

Hopper burn symptoms at flowering stage, Bau Vocational School, Madang P., May, 1977.

Nisia atrovenosa australis Woodward (Hem., Meenoplidae)

Gabmazung, Morobe P., July, 1972.

Pachybrachius nervosus Horváth (Hem., Lygaeidae)

Feeding on developing rice grains, Handarituru Vill., N.P., July, 1971; Soputa Vill., N.P., October, 1974.

Parnara amalia Semper (Lep., Hesperidae)

Foliage, Gabmazung, Morobe P., December, 1972; Pimaga, S.H.P., April, 1978.

Protaetia papuana Moser (Col., Scarabaeidae)

Vunakanau, E.N.B.P., May, 1952.

Pseudaletia separata Walker (Lep., Noctuidae)

Cleanwater, Morobe P., April, 1970; foliage, Aipeana Vill., C.P., March, 1976; Soputa Vill., N.P., October, 1974.

Recilia dorsalis Motshulsky (Hem., Cicadellidae)

Bubia, Morobe P., September, 1976; Dio Vill., near Green River, W.S.P., March, 1977.

Rhizopertha dominica Fabricius (Col., Bostrychidae)

Found in *Sesamia* stem boring, Bereina, C.P., May, 1970.

Rhyparida coriacea Jacoby (Col., Chrysomelidae)

Isevin Bl., N.P., October, 1974.

Sardia melichari Kirkaldy (Hem., Delphacidae)

Gabmazung, Morobe P., July, 1972.

Sesamia inferens Walker (Lep., Noctuidae)

Boring in stems, Bereina, C.P., May, 1970.

Sogatella furcifera Horváth (Hem., Delphacidae)

Kopkop Agricultural Station, N.I.P., May, 1976; rice leaves, Bubia, Morobe P., June, 1972.

Stenocatantops angustifrons Walker (Orth., Acrididae)

Minor damage to young plants, Mumumi Vill., N.P., August, 1974.

Sybra sp. (Col., Cerambycidae)

Handarituru Vill., N.P., July, 1971.

Valanga sp. (Orth., Acrididae)

Feeding on rice, Handarituru Vill., N.P., July, 1971.

SORGHUM

Agrotis interjectionis Guenée (Lep., Noctuidae)

Larvae on young plants, K.A.R.S., W.H.P., January-February, 1973.

Anoplolepis longipes Jerdon (Hym., Formicidae)

Ex shoots of *Sorghum vulgare*, tending delphacids, Laloki Quarantine Station, C.P., October, 1975; preying on *Contarinia sorghicola* Coquillett (Dipt., Cecidomyiidae) on *Sorghum*, Ganif, Markham Valley, Morobe P., 1977.

Anticarsia irrorata Fabricius (Lep., Noctuidae)

Marambang, Markham Valley, Morobe P., October, 1977.

Aphthona bicolorata Jacoby (Col., Chrysomelidae)

Feeding on foliage of seedlings two weeks old.

Chaetocnema sp. nr *calida* Blackburn (Col., Chrysomelidae)

On seedlings two weeks old.

Contarinia sorghicola Coquillett (Dipt., Cecidomyiidae)

On *S. vulgare*, Ilimo Farm, C.P., 1976.

Contarinia sp. (Dipt., Cecidomyiidae)

Bred from *Sorghum nitidum*, Leron Plains & Ganif, Morobe P., May, 1975.

Cryptoblabes gnidiella Miller (Lep., Pyralidae)

Ex larva on heads, Maralumie, Morobe P., December, 1971.

Heliothis armiger Hubner (Lep., Noctuidae)

Sorghum heads, Laloki, C.P., July, 1976; sorghum heads, Ganif, Markham Valley, Morobe P., May, 1975.

Mesopolobus sp. (Hym., Pteromalidae)

Cleanwater, Morobe P., January, 1973.

Oechalia sp. (Hem., Pentatomidae)

Grain sorghum, Bubia, Morobe P., October, 1975.

Peregrinus maidis Ashmead (Hem., Colobathristidae)

Developing leaf whorl, Laloki Agricultural Station, C.P., October, 1976.

Phaenacantha strenua Horváth (Hem., Colobathristidae)

Wawin, Morobe P., August, 1968.

Pseudaletia separata Walker (Lep., Noctuidae)

Feeding on foliage, Gusap Downs, Morobe P., May, 1975.

Silba sp. (Dipt., Lonchaeidae)

Ex stalk borer tunnel in *Sorghum vulgare*, Veimauri Est., C.P.

Spodoptera litura Fabricius (Lep., Noctuidae)

Feeding on foliage and grain, Bubia, Morobe P., July, 1975; plot eaten to ground level, K.A.R.S., W.H.P., March, 1973.

Tetramorium guineense Fabricius (Hym., Formicidae)

Ex shoots of *Sorghum vulgare*, tending delphacids, Laloki Quarantine Station, C.P., October, 1975.

VEGETABLES AND FRUITS

AIBIKA

Cassena intermedia Jacoby (Col., Chrysomelidae)

Adults causing shot-hole damage to leaves in garden, Minj, W.H.P., December, 1975.

Oribius sp. (Col., Curculionidae)

Adult feeding caused moderate to severe leaf shot-hole damage, H.A.E.S., E.H.P., March, 1976.

Sylepta derogata Fabricius (Lep., Pyralidae)

Feeding on leaves, Salasea Pltn, Manus P., 1975.

ASPARAGUS

Oribius destructor Marshall (Col., Curculionidae)

Adults causing minor shot-hole damage, Korona Pltn, E.H.P., April, 1976.

BEANS

Cassena intermedia Jacoby (Col. Chrysomelidae)

Leaves, Piwa Agricultural Station, Tari, S.H.P., October, 1974.

Ophiomyia phaseoli Tryon (Dipt., Agromyzidae)

Probably the most important pest of beans throughout the area; earlier identifications of *Melanagromyza* sp. may refer to this species.

Trigonopterus sp. (Col., Curculionidae)

Asela, N.P., November, 1966.

BRUSSELS SPROUT

Acleris sp. (Lep., Tortricidae)

Larvae, Mt Hagen, W.H.P., January, 1972.

Crociodolomia binotalis Zeller (Lep., Pyralidae)

Larvae, Mul nr Mt Hagen, W.H.P., December, 1975.

Oribius inimicus Marshall (Col., Curculionidae)

Adults, Wabag, E.P., February, 1976.

Plutella xylostella Linnaeus (Lep., Yponomeutidae)

On most plants examined, W.H.P., E.P., 1975-6; Korona Plntn, E.H.P., April, 1976.

CABBAGE

? *Acleris* sp. (Lep., Tortricidae)

Kilabi Plntn, W.H.P., January, 1972.

Aegus minutus Gestro (Col., Lucanidae)

K.A.R.S., W.H.P., November, 1976.

Agrotis ipsilon Hufnagel (Lep., Noctuidae)

Common on seedlings, W.H.P., 1975-8.

Agrotis sp. (Lep., Noctuidae)

Larva in heart of cabbage, Kabiufa, nr Goroka, E.H.P., March, 1976.

Agrypnus sp. (Col., Elateridae)

Adults scavenging inside cabbage heads, Avi, W.H.P., February, 1972.

Apirocalus cornutus Marshall (Col., Curculionidae)

Slight damage to wrapper leaves, H.A.E.S., E.H.P., March, 1976.

- Apiocalus terrestris* Thompson (Col., Curculionidae)
Kainantu, 1550m, E.H.P., May, 1976.
- Bothrichara palliata* MacLeay (Col., Cerambycidae)
K.A.R.S., W.H.P., August, 1976.
- Crocidolomia binotalis* Zeller (Lep., Pyralidae)
Frequent in W.H.P., E.P., 1975-6.
- Diachrysia orichalcea* Fabricius (Lep., Noctuidae)
Larva, Kindeng, W.H.P., December, 1975; Wapenamanda, E.P., February, 1976;
common, Mt Hagen, February, 1976; K.A.R.S., W.H.P., May-June, 1976.
- Elydna reclusa* Walker (Lep., Noctuidae)
Larvae feeding on head leaves, W.H.P., E.H.P., 1973.
- Epiphyas* sp. (Lep., Tortricidae)
Larvae, Wapenamanda, E.P., March, 1972.
- Gymnopholus nothofagi* Gressitt (Col., Curculionidae)
Sirunki, 2,500m, W.H.P., June, 1973.
- Heliothis armiger* Hubner (Lep., Noctuidae)
Larva, Kindeng, W.H.P., December, 1975; common at K.A.R.S., W.H.P., June, 1976.
- Homona* sp. nr *coffearia* Nietner (Lep., Tortricidae)
Larva, Mt Hagen, W.H.P., February, 1976.
- Homona* sp. nr *phanaea* Meyrick (Lep., Tortricidae)
Larvae, Avi, W.H.P., March, 1972.
- Liriomyza brassicae* Riley (Dipt., Agromyzidae)
Reared from mines in leaves, Tokana, nr Kainantu, E.H.P., July, 1978.
- Myzus persicae* Sulzer (Hem., Aphididae)
Always present on unsprayed cabbages, K.A.R.S., W.H.P., 1975-8.
- Oribius destructor* Marshall (Col., Curculionidae)
Adult, Mt Hagen, W.H.P., February, 1976.
- Oribius inimicus* Marshall (Col., Curculionidae)
Adults, Mt Hagen, W.H.P., February, 1976; frequent, K.A.R.S., W.H.P., May-June, 1976.
- Plusia chalcites* Esper (Lep., Noctuidae)
Larvae common, E.H.P., W.H.P., 1973.

Plutella xylostella Linnaeus (Lep., Yponomeutidae)

Commonly damaging crops in W.H.P., E.P., 1975-6; Severe leaf damage, Sila, N.P., September, 1975.

Spodoptera litura Fabricius (Lep., Noctuidae)

Moderate damage frequent, K.A.R.S., W.H.P., June, 1976; moderate damage, H.A.E.S., E.H.P., May-June, 1976.

CAPSICUM

Heliothis armiger Hubner (Lep., Noctuidae)

Larvae in fruits, Mt Hagen, W.H.P., 1975-6.

Oribius inimicus Marshall (Col., Curculionidae)

Adults in foliage, Mt Hagen, W.H.P., December, 1975; Wabag, E.P., February, 1976.

CARROT

Oribius sp. nr *guttiger* Blanchard (Col., Curculionidae)

On leaves, Wapenamanda, E.P., September-October, 1977.

Oribius inimicus Marshall (Col., Curculionidae)

On leaves, Wapenamanda, E.P., September-October, 1977.

CASSAVA

Acalolepta holotephra Boisduval (Col., Cerambycidae)

Larva boring in cassava, L.A.E.S., E.N.B.P., October, 1976.

Amblypelta costalis szentivanyi Brown (Hem., Coreidae)

Causing death of growing tips, Pirive Vill., N.P., 1972-3.

Amblypelta lutescens papuensis Brown (Hem., Coreidae)

Severe damage, killing growing tips and causing shoot ramification, Diamond Valley, Port Moresby, C.P., September-December, 1974.

Amblypelta theobromae Brown (Hem., Coreidae)

Moderate damage causing death of some shoots and much ramification, P.A.C., N.P., September-November, 1974.

Protaetia papuana Moser (Col., Scarabaeidae)

Nulaiti Village (Keravat), E.N.B.P., August, 1958.

Tetranychus sp. (Acarina, Tetranychidae)
Foliage, Konedobu, C.P., August, 1971.

CAULIFLOWER

Plutella xylostella Linnaeus (Lep., Yponomeutidae)
Common, W.H.P., E.P., 1975-6.

CELERY

Diachrysia orichalcea Fabricius (Lep., Noctuidae)
Larva, Wabag, E.P., February, 1976.

Oribius destructor Marshall (Col., Curculionidae)
Few on leaves, Pompobus, E.P., December, 1976.

Oribius sp. nr *guttiger* Blanchard (Col., Curculionidae)
Few on leaves, Pompobus, E.P., December, 1976.

Oribius inimicus Marshall (Col., Curculionidae)
Few on leaves, Pompobus, E.P., December, 1976.

CHINESE CABBAGE

Crocidolomia binotalis Zeller (Lep., Pyralidae)
Heart and leaves, Wau, Morobe P., May, 1974; Mutsin, Markham Valley, Morobe P., 1976; abundant, Kindeng, W.H.P., February, 1976.

Diachrysia orichalcea Fabricius (Lep., Noctuidae)
Few, Kindeng, W.H.P., February, 1976.

Spodoptera litura Fabricius (Lep., Noctuidae)
Few, Kindeng, W.H.P., February, 1976.

CHOKO

Apiocalus terrestris Thompson (Col., Curculionidae)
Shot-hole damage, Mendi, S.H.P., May, 1978.

Oribius inimicus Marshall (Col., Curculionidae)
Shot-hole damage, Mendi, S.H.P., May, 1978.

CLIMBING BEAN

Ophiomyia phaseoli Tryon (Dipt., Agromyzidae)

Stems, leaf bases, Saroakeina Vill., Rigo., C.P., April, 1978; Bubia, 1978, Wau, Morobe P., 1975; Popondetta, N.P., 1978.

CUCUMBER

Aphis gossypii Glover (Hem., Aphididae)

Mul, W.H.P., December, 1975.

Aulacophora sp. nr *abdominalis* Fabricius (Col., Chrysomelidae)

Adults common on seedlings, K.A.R.S., W.H.P., December, 1975-January, 1976.

Aulacophora melanopus Blanchard (Col., Chrysomelidae)

One, Kundepina, W.H.P., December, 1975.

Aulacophora pallidifasciata Jacoby (Col., Chrysomelidae)

Common throughout the Highlands during this survey.

Aulacophora sp. (Col., Chrysomelidae)

Adult, Kondepina, W.H.P., December, 1975.

Monolepta semiviolacea Fabricius (Col., Chrysomelidae)

Adults frequent on seedlings, K.A.R.S., W.H.P., December, 1975-January, 1976.

EGG PLANT

Lycyllus albicollis Fabricius (Col., Chrysomelidae)

Feeding on leaves, Goroka, E.H.P., March, 1976.

Psylliodes loriae Jacoby (Col., Chrysomelidae)

Feeding on leaves, Goroka, E.H.P., March, 1976.

EUROPEAN POTATO

Acyrtosiphon solani Kalténbach (Hem., Aphididae)

Wapenamanda, W.H.P., July, 1973.

Aepheidius adelioides MacLeay (Col., Carabidae)

Wapenamanda, W.H.P., August, 1972.

Agrotis ipsilon Hubner (Lep., Noctuidae)

Severe damage to tubers, E.P., September-October, 1973.

Agrypnus sp. (Col., Elateridae)

Tubers, H.A.E.S., E.H.P., September-October, 1976.

Altica sp. (Col., Chrysomelidae)

Adults feeding on foliage, Wapenamanda, W.H.P., August, 1973.

Apiocalus cornutus Marshall (Col., Curculionidae)

Adults frequently found on foliage but little damage noted, thought to be responsible for many flower shoots being eaten off, Kainantu and Aiyura, E.H.P., February-June, 1976.

Apiocalus suppuratus Thompson (Col., Curculionidae)

Ilemi: No. 2 near Woitape, C.P., August, 1963.

Atherigona orientalis Schiner (Dipt., Muscidae)

Larvae infesting tubers decomposing as a result of fungal attack, K.A.R.S., W.H.P., January, 1972.

Aulacophora sp. nr *abdominalis* Fabricius (Col., Chrysomelidae)

Wapenamanda, E.P., August, 1973.

Aulacorthum solani Kaltenbach (Hem., Aphididae)

Widespread in Highlands, July-August, 1976.

Bachytrypes achatinus Saussure (Orth., Gryllidae)

Occasionally found in cavities in tubers, but in the laboratory did not attack intact tubers, W.H.P., 1975-8.

Batrachomorphus szentivanyi Ghauri (Hem., Cicadellidae)

H.A.E.S., E.H.P., April, 1976; found feeding on stalk, Norikori Vill., E.H.P., April, 1976.

Coelophora mulsanti Montrouzier (Col., Coccinellidae)

Wapenamanda, W.H.P., August, 1973.

Ephestia sp. (Lep., Pyralidae)

Managalesi, N.P., October, 1970.

Eurynome ? marginalis Walker (Hem., Pentatomidae)

Norikori Vill., 1550m, E.H.P., April, 1976.

Gryllotalpa africana Palisot de Beauvois (Orth., Gryllotalpidae)

See *Bachytrypes achatinus*.

Harmonia arcuata Fabricius (Col., Coccinellidae)

K.A.R.S., W.H.P., July, 1976.

Heliothis armiger Hubner (Lep., Noctuidae)

Larvae on leaves and flower buds, Wapenamanda, E.P., June, 1973.

- Henosepilachna signatipennis* Boisduval (Col., Coccinellidae)
Adults causing serious damage by skeletonising leaves, Ulga Mission, W.H.P., July, 1973; Wapenamanda, E.P., September, 1973.
- Idiopsodes* sp. nr *ocularis* Lea (Col., Curculionidae)
Adults causing minor shot hole damage, Awande Vocational School, Okapa, E.H.P., June, 1976.
- Labdia* sp. nr *torodoxa* Meyrick (Lep., Cosmopterigidae)
Bred from seed tubers, K.A.R.S., W.H.P., January, 1972.
- Monolepta semiviolacea* Fauvel (Col., Chrysomelidae)
Adults feeding on foliage, Rairang Plntn, W.H.P., January, 1972.
- Myzus ornatus* Laing (Hem., Aphididae)
Widespread in Highlands, July-August, 1976.
- Myzus persicae* Sulzer (Hem., Aphididae)
Widespread in Highlands, July-August, 1976.
- Nonarthra* sp. nr *australis* Baly (Col., Chrysomelidae)
Wapenamanda, W.H.P., August, 1973.
- Opogona* sp. (Lep., Hieroxestidae)
Larvae boring into seed tubers, K.A.R.S., W.H.P., January, 1972.
- Oribius destructor* Marshall (Col., Curculionidae)
Feeding on leaves, nr Okapa, E.H.P., April, 1977.
- Oribius inimicus* Marshall (Col., Curculionidae)
Feeding on leaves, Wapenamanda and Tambul, W.H.P., March/August, 1973; occasionally causing minor shot-hole damage in W.H.P., 1975-7.
- Papuana biroi* Endrödi (Col., Scarabaeidae)
Often feeding inside tubers throughout the Highlands during this survey, but damage to crop slight.
- Papuana trinodosa* Prell (Col., Scarabaeidae)
Often feeding inside tubers throughout the Highlands during this survey, but damage to crop slight.
- Papuana woodlarkiana* Montrouzier (Col., Scarabaeidae)
Adults a serious pest throughout W.H.P., E.P., 1972; adults damaged tubers in W.H.P., E.P., 1975-6.
- Phaneroptera brevis* Audinet-Serville (Orth., Tettigoniidae)
Adults and nymphs, Wapenamanda, W.H.P., August, 1973.
- Plusia chalcites* Esper (Lep., Noctuidae)
Two larvae feeding on foliage, K.A.R.S., W.H.P., August, 1977.

Simplicia caeneusalis Walker (Lep., Noctuidae)

Larvae boring into seed tubers, Rairang Plntn, W.H.P., January, 1972.

Spodoptera litura Fabricius (Lep., Noctuidae)

Occasional damage to leaves and flower buds, Wapenamanda, E.P., June, 1973.

Teleogryllus commodus Walker (Orth., Gryllidae)

See *Bachytrypes achatinus*.

FRENCH BEAN

Agrotis interjectionis Guenée (Lep., Noctuidae)

Larvae caused loss of plants, K.A.R.S., W.H.P., March-July, 1972.

Ophiomyia sp. (Dipt., Agromyzidae)

Stems of young plants, D.A.S.F., Tapini, C.P., July, 1973.

Oribius sp., nr *guttiger* Blanchard (Col., Curculionidae)

Adults on foliage, Mul, nr Mt Hagen, W.H.P., December, 1975.

Oribius inimicus Marshall (Col., Curculionidae)

Adults on foliage, Wabag, E.P., February, 1976.

LEEK

Spodoptera litura Fabricius (Lep., Noctuidae)

Few larvae feeding on foliage, Baisu Corrective Institution, nr Mt Hagen, W.H.P., June, 1977.

LETTUCE

Agrotis interjectionis Guenée (Lep., Noctuidae)

Seedlings severely damaged, Wapenamanda, E.P., June, 1973.

Apiocalus terrestris Thompson (Col., Curculionidae)

Tambul, W.H.P., December, 1975.

Cyphopus sp. (Col., Curculionidae)

Asela, N.P., November, 1966.

MALAY APPLE

Cryptophasa sp. nr *arithmologa* Meyrick (Lep., Xyloryctidae)

Branches, Port Moresby, C.P., March, 1969.

MARROW

- Aulacophora* sp. nr *loriana* Jacoby (Col., Chrysomelidae)
One adult on foliage, Goroka, E.H.P., April, 1976.

MUNG BEAN

- Aulacophora coffeae* Hornstedt (Col., Chrysomelidae)
Feeding on leaves and young shoots, Bubia, Morobe P., March, 1977.
- Aulacophora wallacei* Baly (Col., Chrysomelidae)
Adults caused minor leaf damage, H.A.E.S., E.H.P., May, 1976.
- Cassena papuana* Jacoby (Col., Chrysomelidae)
Feeding on leaves, Bubia; Wau, Morobe P.
- Halticus tibialis* Reuter (Hem., Miridae)
Severe mottling of leaves, Bubia, Morobe P., 1978.
- Henosepilachna signatipennis* Boisduval (Col., Coccinellidae)
Minor leaf damage, H.A.E.S., E.H.P., May - June 1976; feeding on leaves, flower buds and young fruit, Bubia, Morobe P., 1977.
- Monolepta nigroapicata* Bryant (Col., Chrysomelidae)
Feeding on leaves & young shoots, Bubia, Morobe P., March, 1977.
- Piezodorus* sp. nr *rubrofasciatus* Fabricius (Hem., Pentatomidae)
Sucking pods, Bubia, Morobe P., March, 1977.
- Rhyparida coriacea* Jacoby (Col., Chrysomelidae)
Feeding on young leaves, Gusap, Morobe P., January, 1978.
- Riptortus rubronotatus* Blöte (Hem., Alydidae)
Severe damage to pods, Vudal College, E.N.B.P., May, 1978.

OKRA

- Earias fabia* Stoll (Lep., Noctuidae)
Boll, Council Health Services, Gordons, C.P., June, 1972.
- Ganae pulchella* Pascoe (Col., Curculionidae)
Feeding on stem, L.A.E.S., E.N.B.P., January, 1975.
- Nisotra basselae* Bryant (Col., Chrysomelidae)
Umbukul, N.I.P., May, 1968.

Rhyparida cacaona Gressitt (Col., Chrysomelidae)

Leaf, L.A.E.S., E.N.B.P., October, 1976.

Xanthodes transversa Guenée (Lep., Noctuidae)

Foliage, Wau Ecology Institute, Morobe P., April, 1977.

ONION

Neotoxoptera formosana Takahasi (Hem., Aphididae)

Common throughout Highlands during this survey.

Oribius inimicus Marshall (Col., Curculionidae)

Adult, Mul, nr Mt Hagen, W.H.P., December, 1975.

PEA

Heliothis armiger Hubner (Lep., Noctuidae)

Larva in pod, Kondepina, W.H.P., December, 1975.

PITPIT

Anomala anoguttata Burmeister (Col., Scarabaeidae)

Larvae collected from among roots and reared, L.A.E.S., E.N.B.P., December, 1974/July, 1974.

Ataenius spinator Harold (Col., Scarabaeidae)

Feeding on roots, L.A.E.S., E.N.B.P., July, 1974.

Parastasia guttulata Fairmaire (Col., Scarabaeidae)

Larvae collected among roots and reared, L.A.E.S., E.N.B.P., July, 1974.

PUMPKIN

Aulacophora sp. nr *abdominalis* Fabricius (Col., Chrysomelidae)

K.A.R.S., W.H.P., September, 1973.

Aulacophora sp. nr *loriana* Jacoby (Col., Chrysomelidae)

Goroka, 1500m, E.H.P., April, 1976; 1,800 m, E.H.P., July, 1957.

Aulacophora melanopus Blanchard (Col., Chrysomelidae)

Foliage, Kondepina, W.H.P., December, 1975.

Aulacophora pallidifasciata Jacoby (Col., Chrysomelidae)

K.A.R.S., W.H.P., September, 1973.

Dacus strigifinis atritus May (Dipt., Tephritidae)

Reared ex fruit in association with *Biosteres* sp. (Hym., Braconidae), probable parasite, Wau, 1200m., Morobe P., May, 1978.

Leptoglossus australis Fabricius (Hem., Coreidae)

Common in Highlands during this survey.

Leptothoe csikii Weise (Col., Coccinellidae)

K.A.R.S., W.H.P., September, 1973.

RADISH

Crocodilomia binotalis Zeller (Lep., Pyralidae)

Larvae, Banz, W.H.P., December, 1975.

RASPBERRY

Alticus sp. (Col., Chrysomelidae)

Adults on foliage, Kabiufa, nr Goroka, E.H.P., March, 1976.

RHUBARB

Oribius inimicus Marshall (Col., Curculionidae)

Adults feeding on foliage, Tambul, W.H.P., December, 1975; Wabag, E.P., February, 1976.

RICE BEAN

Maruca testulalis Geyer (Lep., Pyralidae)

Boring in green pods and feeding on seeds, Piwa Agricultural Station, Tari, S.H.P., November, 1974.

Nezara viridula Linnaeus (Hem., Pentatomidae)

Foliage, Piwa Agricultural Station, Tari, S.H.P., October, 1977; Bubia, Cleanwater, Morobe P., 1973.

ROCK MELON

Atherigona orientalis Schiner (Dipt., Muscidae)

Larvae in fruit, Kenepot Plantation, Kokopo, E.N.B.P., May, 1972.

Aulacophora coffeae Hornstedt (Col., Chrysomelidae)

Mt. Diamond, C.P., August, 1974.

Dacus cucurbitae Coquillett (Dipt., Tephritidae)

Reared from larvae in fruit, Popondetta, N.P., November, 1972.

SILVER BEET

Oribius destructor Marshall (Col., Curculionidae)

Adults feeding on foliage, nr Okapa, E.H.P., April, 1977.

Oribius inimicus Marshall (Col., Curculionidae)

Adults, Mt Hagen, W.H.P., December, 1975; nr Okapa, E.H.P., April, 1977.

STRAWBERRIES

Apiocalus terrestris Thompson (Col., Curculionidae)

Feeding on ripe strawberries, Aiyura, E.H.P., September, 1972.

Dieuches finitimus Van Duzee (Hem., Lygaeidae)

Ex strawberry plants, Muka Agricultural Centre, Wapenamanda, 1,700 m, W.H.P., December, 1970; fruit & foliage, Wapenamanda, W.H.P., February, 1972.

Meroleptus ? cinctor Marshall (Col., Curculionidae)

Adults, pupae & larvae at bases of leaves in crowns, Aiyura, E.H.P., December, 1971.

Oribius sp. nr *guttiger* Blanchard (Col., Curculionidae)

Strawberry foliage, Wapenamanda, W.H.P., February, 1972.

Oribius inimicus Marshall (Col., Curculionidae)

Adults on flowers, Tambul, W.H.P., December, 1975; Wabag, E.P., February, 1976.

Riptortus imperialis Kirkaldy (Hem., Alydidae)

Ex strawberry plants, Muka Agricultural Centre, Wapenamanda, 1,700 m, W.H.P., December, 1970.

SWEET POTATO

Agrius convolvuli Linnaeus (Lep., Sphingidae)

Talasea, Bulumuri village, W.N.B.P., August, 1972; totally defoliated 0.5 ha block, Sangara, N.P., October-November, 1975; Laloki area, C.P., February 1973; foliage, Salamo, Fergusson Is., Milne B.P., January, 1973.

- Arsipoda tenimberensis* Jacoby (Col., Chrysomelidae)
Feeding on leaves, Bubia, Morobe P., May, 1978.
- Aspidomorpha socia* Boheman (Col., Chrysomelidae)
Leaves, Goroka, E.H.P., November, 1976.
- Asura crocota* Hampson (Lep., Arctiidae)
Larvae boring superficial channels in stored tubers, K.A.R.S., W.H.P., February, 1973.
- Atysa* sp. (Col., Chrysomelidae)
Leaves - also pollinator, Piwa Agricultural Station, Tari, S.H.P., October, 1974.
- Bedellia somnulentella* Zeller (Lep., Lyonetiidae)
Foliage, Wabag area, 2300m, W.H.P., October, 1972.
- Cassida diomma* Boisduval (Col., Chrysomelidae)
Feeding on leaves, Gabmazung, Morobe P., July, 1968; minor damage, H.A.E.S., E.H.P., June, 1976.
- Chauliognathus wareoensis* Wittmer (Col., Catharidae)
Leaves of sweet potatoes and beans, Piwa Agricultural Station, Tari, S.H.P., October, 1974.
- Cofana spectra* Distant (Hem., Cicadellidae)
Leaves, Aiyura, E.H.P., November, 1976.
- Colasposoma regularis* Jacoby (Col., Chrysomelidae)
Foliage & stems, nr Kokoda Trail Motel, C.P., March, 1974.
- Cylas formicarius* Fabricius (Col., Curculionidae)
In tuber, Port Moresby General Hospital area, C.P., July, 1970; moderate damage to mature tubers, P.A.C., N.P., November, 1975.
- Halticus minutus* Reuter (Hem., Miridae)
Daru, W.P., July, 1960.
- Halticus* sp. (Hem., Miridae)
Foliage, Kararu Vill., Buin, N.S.P., February, 1974.
- Helopeltis clavifer* Walker (Hem., Miridae)
Adults feeding on runners causing minor damage, H.A.E.S., E.H.P., June, 1976.
- Idiopsodes excellens* Faust (Col., Curculionidae)
Ninda Estate, 550 m C.P., March, 1956.
- ? *Kolla* sp. (Hem., Cicadellidae)
Leaves, Aiyura, E.H.P., November, 1976.
- Papuana woodlarkiana* Montrouzier (Col., Scarabaeidae)
Minor damage to tubers throughout survey, K.A.R.S., W.H.P.

Spodoptera litura Fabricius (Lep., Noctuidae)

Foliage, also tomato fruits, Laloki, Goldie areas, C.P., March, 1973.

Tabidia insanalis Snellen (Lep., Pyralidae)

Causing extensive windowing of leaves, L.A.E.S., E.N.B.P., February, 1974.

Tettigella pasiphae Kirkaldy (Hem., Cicadellidae)

Leaves, Aiyura, E.H.P., November, 1976.

Tettigella sp. (Hem., Cicadellidae)

Leaves, Aiyura, E.H.P., November, 1976.

Tettigella sp. (Hem., Cicadellidae)

Aiyura, E.H.P., May, 1976.

TARO

Apiocalus cornutus Marshall (Col., Curculionidae)

Moderate to severe damage in conjunction with *Pharotes torvus* Marshall (Col., Curculionidae) q.v., H.A.E.S., E.H.P., February-June, 1976.

Apiocalus terrestris Thompson (Col., Curculionidae)

H.A.E.S., E.H.P., May, 1976.

Caedius demeijerei Gebien (Col., Tenebrionidae)

L.A.E.S., E.N.B.P., December, 1973.

Chelisoche morio Fabricius (Derm., Chelisocidae)

Commonly associated with flowering taro.

Cicadella sp. (Hem., Cicadellidae)

Leaves, Aiyura, E.H.P., May 1976.

Cyrtorhinus sp. (Hem., Miridae)

Taro garden, L.A.E.S., E.N.B.P., March, 1973.

Empoasca sp. indet. (Hem., Cicadellidae)

Foliage, larowari High School, C.P., October, 1974.

Eurontobrachys sp. (Hem., Eurybrachidae)

Saraga, February, 1969; Paga Hill, Port Moresby, July, 1966; Gordons, 107, Lot 7, C.P., August, 1971.

Gesonula mundata Walker (Orth., Acrididae)

Adults and hoppers numerous, moderate damage to leaves, P.A.C., N.P., June, 1974; adults and hoppers feeding on leaves. Eggs laid in petioles, Bubia, Morobe P., August, 1977.

Glyptoporopterus sharpi Faust (Col., Curculionidae)

Boikik Plntn, N.P., December, 1975.

Hexacentrus mundur Walker (Orth., Tettigoniidae)

Leaf, L.A.E.S., E.N.B.P., April, 1974.

Hippotion boerhaviae Fabricius (Lep., Sphingidae)

Larvae defoliated plants, damage moderate to severe, H.A.E.S., E.H.P., February-June, 1976.

Hippotion celerio Linnaeus (Lep., Sphingidae)

Larvae causing extensive damage, K.A.R.S., W.H.P., May 1972.

Melanhyphus ? clypealis Arrow (Col., Scarabaeidae)

Sori No. 1, Manus P., December, 1970.

Nisia sp. (Hem., Meenoplidae)

L.A.E.S., E.N.B.P., May, 1973.

Papuana biroi Endrodi (Col., Scarabaeidae)

Adults in feeding holes in taro, Mul, nr Mt Hagen, W.H.P., December, 1975; Avi, W.H.P., April, 1976.

Papuana trinodosa Prell (Col., Stababaeidae)

Minor damage to corms in Highlands during this survey.

Papuana uninodis Prell (Col., Scarabaeidae)

Lakakot, Lihir Is., N.I.P., May, 1970: L.A.E.S., E.N.B.P., December 1974; attracted to light, but is known as a minor taro pest, Boikik, N.P., November, 1975.

Papuana woodlarkiana Montrouzier (Col., Scarabaeidae)

Adults in feeding holes in taro, Minj, Kineng, Kondepina, W.H.P., December, 1975; K.A.R.S., W.H.P., February, 1976; Avi, W.H.P., April, 1976.

Pharotes torvus Marshall (Col., Curculionidae)

Petioles severely chewed, H.A.E.S., E.H.P., February - June, 1976; Boikik Pltn, Afore, N.P., December, 1975.

Spodoptera litura Fabricius (Lep., Noctuidae)

Larvae feeding on leaves, Bubia, Morobe P., August, 1977.

Tarophagus proserpina Kirkaldy (Hem., Delphacidae)

L.A.E.S., E.N.B.P., March, 1973; Siboma Vill., Morobe P., June, 1977.

Theretra oldenlandiae Fabricius (Lep., Sphingidae)

Larvae causing minor defoliation, Fakonumu Vill., C.P., January, 1972.

TOMATO

Heliothis armiger Hubner (Lep., Noctuidae)

Tomato buds & fruits, Laloki to Kuriva areas, C.P., March, 1973; larvae in fruits, W.H.P., E.P., 1975-6.

Plusia chalcites Esper (Lep., Noctuidae)

Larvae caused minor damage, E.H.P., W.H.P., 1973.

Psylliodes sp. (Col., Chrysomelidae)

Moderate damage to young tomato foliage, Bolu Bolu, Goodenough Is., Milne Bay P., January, 1975.

Spodoptera litura Fabricius (Lep., Noctuidae)

Heavy populations causing considerable damage, Wapenamanda, E.P., December, 1972 May, 1973.

TURNIP

Plutella xylostella Linnaeus (Lep., Yponomeutidae)

Larvae on foliage, Banz, W.H.P., December, 1976.

WINGED BEAN

Aphis craccivora Koch (Hem., Aphididae)

K.A.R.S., W.H.P., August, 1976.

Aphis gossypii Glover (Hem., Aphididae)

K.A.R.S., W.H.P., September, 1978.

Hedylepta diemenalis Guenée, (Lep., Pyralidae)

Tying leaves, Uni. Tech., Morobe P., July 1975.

Hedylepta indicata Fabricius (Lep., Pyralidae)

K.A.R.S., W.H.P., December, 1977.

Henosepilachna signatipennis Boisduval (Col., Coccinellidae)

Feeding on leaves, W.H.P., 1975-8.

Lampides boeticus Linnaeus (Lep., Lycaenidae)

Larvae on flowers, K.A.R.S., W.H.P., September and November, 1976.

Leucoptera sp. (Lep., Lyonetiidae)

Foliage, Wau Ecology Institute, Morobe P., March, 1977; Uni. Tech., Lae, Morobe Province.

Maruca testulalis Geyer (Lep., Pyralidae)

Flowers, K.A.R.S., W.H.P., January, 1978.

Nezara viridula Linnaeus (Hem., Pentatomidae)

Feeding on pods, Bubia, Morobe P., 1976.

Oribius inimicus Marshall (Col., Curculionidae)

Frequent on leaves, W.H.P., 1975-8.

Phaneroptera brevis Audinet - Serville (Orth., Tettigoniidae)

Feeding on leaves, Bubia, Lae, Morobe P., April, 1978.

Prosoplus obliqueplagiatus Breuning (Col., Cerambycidae)

Pods, Bubia, Morobe P., September, 1977.

Riptortus annulicornis Boisduval (Hem., Alydidae)

Feeding on pods, Bubia, Morobe P., 1977.

Ropica honesta Pascoe (Col., Cerambycidae)

Dried pods, Bubia, Morobe P., September, 1977.

Spodoptera litura Fabricius (Lep., Noctuidae)

Larva on foliage, Wapenamanda, E.P., February, 1976.

Tetranychus sp. (Acarina, Tetranychidae)

Infestation on foliage, Wapenamanda, E.P., October, 1976.

Tiracola plagiata Walker (Lep., Noctuidae)

Foliage, Vudal College, E.N.B.P., July, 1976.

YAM

Harpedona plana Poppius (Hem., Miridae)

Nymphs and adults feeding on leaves of *Dioscorea alata*, some varieties severely damaged, 4 mile, Markham Rd., Morobe P., June, 1976.

Hypolixus mastersi Pascoe (Col., Curculionidae)

Leaves, Gordons, Sec. 107, Lot 7., C.P., June, 1973.

Tagiades trebellius Hopffer (Lep., Hesperidae)

Foliage, Bubia, Morobe P., September, 1975; larva rolling the leaves of *Dioscorea alata*, Lae, 1975.

ZUCCHINI

Aulacophora ? pallidifasciata Jacoby (Col., Chrysomelidae)

Causing minor damage to foliage, H.A.E.S., E.H.P., May, 1976.

Aulacophora wallacei Baly (Col., Chrysomelidae)

Adults causing minor damage to foliage, H.A.E.S., E.H.P., May, 1976.

Dacus atrisetosus Perkins (Dipt., Tephritidae)

Adult reared from larva ex zucchini, Kainantu, E.H.P., March, 1976.

Leptoglossus australis Fabricius (Hem., Coreidae)
Wapenamanda, E.P., October, 1977.

COVER CROPS AND GRAIN LEGUMES

COWPEAS

Aphis craccivora Koch (Hem., Aphididae)
High populations during the south-east monsoon season, Bubia, Morobe P.,
October, 1976.

Euproctis sp. nr *fulvistriata* (Lep., Lymantridae)
Larvae damaging young pods, Bubia, Morobe P.

Heliothis armiger Hubner (Lep., Noctuidae)
Larva on pod, K.A.R.S., W.H.P., December, 1975.

Maruca testulalis Geyer (Lep., Pyralidae)
Severe damage to pods during the south-east monsoon season, Bubia, Morobe
Province., October, 1976.

Oncocoris sp. nr *coelebs* Fabricius (Hem., Pentatomidae)
Bubia, Morobe P., February, 1977.

Spodoptera litura Fabricius (Lep., Noctuidae)
Larvae feeding on foliage, Bubia, Morobe P., October, 1977.

CROTALARIA

Aphis craccivora Koch (Hem., Aphididae)
Feeding on flowers and pods of *Crotalaria mucronata*, Dobodura, N.P., June, 1971.

Apiocalus ebrius Faust (Col., Curculionidae)
Madang, Madang P., June, 1959; Timbulum Plntn, Finschhafen, Morobe P.,
January, 1966.

Homona coffearia Nietner (Lep., Tortricidae)
Foliage, K.A.R.S., W.H.P., July, 1973; Wapenamanda, E.P., September, 1973.

Tiracola plagiata Walker (Lep., Noctuidae)
Leaves, Kigabah East, W.H.P., October, 1969.

DESMODIUM

Oribius inimicus Marshall (Col., Curculionidae)

Adults common on *Desmodium* under citrus at H.A.T.I., Mt Hagen, W.H.P., March - April, 1976.

PEANUTS

Aulacophora coffeae Hornstedt (Col., Chrysomelidae)

Theomason's Plntn, Morobe P., September, 1958.

Euborellia annulipes Lucas (Derm., Labiduridae)

Boring into fruits in field and feeding on kernels, Maralumie, Morobe P., September, 1975.

Gryllotalpa africana Palisot de Beauvois (Orth., Gryllotalpidae)

Feeding on nuts below ground, K.A.R.S., W.H.P., September, 1977.

Papuana biroi Endrödi (Col., Scarabaeidae)

Feeding on nuts below ground, K.A.R.S., W.H.P., September, 1977.

Papuana trinodosa Prell (Col., Scarabaeidae)

Feeding on nuts below ground, K.A.R.S., W.H.P., September, 1977.

Papuana woodlarkiana Montrouzier (Col., Scarabaeidae)

Feeding on nuts below ground, K.A.R.S., W.H.P., September, 1977.

? genus nr *Salebria* (Lep., Pyralidae)

Foliage, larvae binding leaves together, D.A.S.F. Piggery, Goroka, E.H.P., 1972.

PIGEON PEAS

Agapophyta sp. (Hem., Pentatomidae)

Nymphs and adults on young shoots. Large populations eventually killed the plants, Bubia, Maralumi, Mutzing, Morobe P., 1975.

Maruca testulalis Geyer (Lep., Pyralidae)

Pods, Vudal, E.N.B.P., March, 1970.

Mictis profana Fabricius (Hem., Coreidae)

Adults and nymphs on young shoots, Maralumi and Mutzing, Morobe P., 1977.

Phaneroptera brevis Audinet-Serville (Orth., Tettigoniidae)

Leaves, Bubia, via Lae, Morobe P., April, 1978.

PUERARIA

Brachyplatys sp. nr *laticeps* Montandon (Hem., Plataspidae)

Keravat, E.N.B.P., September, 1969.

Hedylepta diemenalis Guenée (Lep., Pyralidae)

96 km west of Wewak, Block 3, Sowam, E.S.P., September, 1972.

SIRATRO

Aphthona bicolorata Jacoby (Col., Chrysomelidae)

Chewing holes in foliage of seedlings, Koke Bagu Plntn, 74 km south-east of Port Moresby, C.P., February, 1971.

? *Melanagromyza* sp. (Dipt., Agromyzidae)

Stem base & upper tap root, Umi, 137 km west of Lae, Morobe P., March, 1973.

Psylliodes brettehami Baly (Col., Chrysomelidae)

Eating holes in foliage of seedlings, Koke Bagu Plntn, 74 km south-east of Port Moresby, C.P., February, 1971.

SOYA BEAN

Aulacophora pallidifasciata Jacoby (Col., Chrysomelidae)

Adults causing moderate damage to leaves, Vocational School, Popondetta, N.P., June, 1974.

Cassena intermedia Jacoby (Col., Chrysomelidae)

Minor leaf damage, H.A.E.S., E.H.P., May, 1976.

Coelophora inaequalis Fabricius (Col., Coccinellidae)

Minor leaf damage, H.A.E.S., E.H.P., May/June, 1976.

Demonax collaris Pascoe (Col., Cerambycidae)

H.A.E.S., E.H.P., October, 1976.

Hedylepta indicata Fabricius (Lep., Pyralidae)

Bubia, Morobe P., June, 1977; foliage skeletonized and webbed together, Aiyura, E.H.P., August, 1974; foliage, Muka & Pykale, Wapenamanda area, W.H.P., December, 1970; larvae spun leaves together, Muka Agric. Centre, W.H.P., December, 1970.

Henosepilachna signatipennis Boisduval (Col., Coccinellidae)

Foliage, Maralumie, Morobe P., November, 1973; adults numerous, Vocational School, Popondetta, N.P., June, 1974.

Nezara viridula Linnaeus (Hem., Pentatomidae)
Maralumie, Morobe P., November, 1973.

Oribius inimicus Marshall (Col., Curculionidae)
Foliage, Mendi, S.H.P., May, 1978.

Rhinoscapa funebris Chevrolat (Col., Curculionidae)
Mutzing, Morobe P., February, 1974.

Riptortus obscuricornis Dallas (Hem., Alydidae)
Feeding on pods of mature plants, H.A.E.S., E.H.P., June, 1976.

TEPHROSIA

Riptortus obscuricornis Dallas (Hem., Alydidae)
Frigano Sawmill, Lufa, E.H.P., December, 1976.

VIGNA

Aphis craccivora Koch (Hem., Aphididae)
Flowers & pods, Dobodura, N.P., July, 1971.

SPICES

CARDAMOM

Abroma sp. (Hem. Cicadidae)
Foliage, Trauna Valley Farm, Baiyer River, 1,200 m, W.H.P., January, 1971.

Actinus imperialis Fauvel (Col., Staphylinidae)
Afore, Boikik Plntn, N.P., October, 1973.

Aphodius lividus Olivier (Col., Scarabaeidae)
Larvae damaging pseudostem, Malasaet Vill., Bainings Mts., E.N.B.P., January, 1976.

Calliphara dimidiata Dallas (Hem., Pentatomidae)
Boikik Plntn, Afore, N.P., October, 1973.

Chauliognathus papuanus Bourgeois (Col., Cantharidae)
Flowers ? Boikik Plntn, Afore, N.P., April, 1974.

- Cladophorus ornatus* Waterhouse (Col., Lycidae)
Boikik Plntn, Afore, N.P., April, 1974.
- Cyphagogus splendens* Kleine (Col., Brenthidae)
Garaina Plntn, Morobe P., April, 1977.
- Ganae pulchella* Pascoe (Col., Curculionidae)
Karimui, S.P., February, 1973.
- Ganae* sp. (Col., Curculionidae)
Garaina, Morobe P., November, 1972.
- Glenea papuensis* Gahan v. *bivittipennis* Breuning (Col., Cerambycidae)
Boikik Plntn, Afore, N.P., October, 1973.
- Glyptoporopterus sharpi* Faust (Col., Curculionidae)
Boikik Plntn, N.P., October, 1975.
- Leiochrinus fulvicollis* Westwood (Col., Tenebrionidae)
Boikik Plntn, N.P., October, 1975.
- Menesesella weylandi occulta* Rehn (Orth., Pyrgomorphidae)
Boikik Plntn, Afore, N.P., October, 1975.
- Onthophagus iris* Sharp (Col., Scarabaeidae)
Afore, N.P., November, 1974.
- Pseudolpus* sp. (Col., Chrysomelidae)
Leaves, Karimui, S.P., July, 1978.
- Ragwelellus horvathi* Poppius (Hem., Miridae)
Kokoda, N.P., October, 1975; foliage, Boikik Plntn, Afore, N.P., September, 1973;
foliage, Trauna Valley Farm, Baiyer River, 1,200 m, W.H.P., January, 1971.
- Rhyparida sobria* Gressitt (Col., Chrysomelidae)
Boikik Plntn, Afore, N.P., April, 1975.
- Sasima* sp. (Orth., Tettigoniidae)
Boikik Plntn, Afore, N.P., September, 1975.
- Spondotriplax* sp. nr *antennalis* Arrow (Col., Erotylidae)
Trauna Valley Farm, Baiyer R., 1,200 m, W.H.P., January, 1971.
- Stenoxypus aurantiacus* Karsh (Orth., Pyrogomorphidae)
Boikik Plntn, Afore, N.P., October, 1973.
- Sycophila* sp. (Hym., Eurytomidae)
Ex seeds in green pods, Boikik, Afore, N.P., December, 1974.
- Tricimba* sp. (Dipt., Chloropidae)
Karimui, S.P., December, 1972.

Urophorus humeralis Fabricius (Col., Nitidulidae)

Ex fruits with bore holes, Garaina, Morobe P., August, 1972.

CHILLI

Idiopsodes coerulea Faust (Col., Curculionidae)

Leaves, inland Hoskins, W.N.B.P., January, 1977.

Solenopsis geminata v. *rufa* Jerdon (Hym., Formicidae)

L.A.E.S., E.N.B.P., October, 1976.

GINGER

Dichocrocis sp. nr *punctiferalis* Guenée (Lep., Pyralidae)

Larvae feeding on wild ginger, Popondetta, N.P., October, 1972.

Dindymus pyrochrous Boisduval (Hem., Pyrrhocoridae)

L.A.E.S., E.N.B.P., May, 1965.

Henosepilachna signatipennis Boisduval (Col., Coccinellidae)

Leaves, Kilinwara, E.N.B.P., May, 1973.

Ragwelellus horvathi Popius (Hem., Miridae)

Feeding on young foliage, Brown River, near picnic area, C.P., July, 1976.

JAPANESE MINT

Adoxophyes sp. nr *thoracica* Diakonoff (Lep., Tortricidae)

Larvae feeding on foliage, Veimarui Est., C.P., December, 1970.

Chrysodeixis eriosoma Doubleday (Lep., Noctuidae)

Foliage, D.A.S.F., Laloki, C.P., November, 1972.

? genus (Lep., Geometridae)

Foliage, D.A.S.F., Laloki, C.P., November, 1972.

NUTMEG

Araecorynus corismus Jordon (Col., Anthribidae)

Fruits in field, Murua, G.P., June, 1973.

Carpophilus dimidiatus Fabricius (Col., Nitidulidae)

Bred from seeds received from Lae at Popondetta, N.P., June, 1970.

Papuagryllacris sp. (Orth., Gryllacrididae)
Eating stems, Keravat, E.N.B.P. October, 1973.

Poecilips sp. (Col., Scolytidae)
Heavy infestation in harvested seed, P.A.C., N.P., June, 1972.

Xyleborus crassiusculus Motschulsky (Col., Scolytidae)
Ravalien Pltn, E.N.B.P., April, 1970.

PEPPER

? *Neotermes* sp. (Isop., Kalotermitidae)
Old stem, D.A.S.F., Kapogere, C.P., July, 1970.

Oribius sp. (Col., Curculionidae)
Adults, damage light to moderate, P.A.C., N.P., October, 1973.

Tectocoris lineola Fabricius (Hem., Pentatomidae)
Adult on leaves, P.A.C., N.P., November, 1972.

Tiracola plagiata Walker (Lep., Noctuidae)
Larvae defoliating potted vines, P.A.C., N.P., April, 1972.

TURMERIC

Dichocrocis sp. nr *punctiferalis* Guenée (Lep., Pyralidae)
Bubia, Morobe P., July, 1971.

VANILLA

Hypolycaena danis Felder (Lep., Lycaenidae)
Larvae on flowers, L.A.E.S., E.N.B.P., August, 1975. May cause death of flowers, level of damage usually low but approached economic importance in September, 1975; larvae caused considerable damage to young leaves and flowers, B.A.R.C., Morobe P., 1971-2.

PASTURES

Agrotis puta Hubner (Lep., Noctuidae)
On grasses, Karkar Is. airstrip, Madang P., January, 1973.

Agrotis spinifera Hubner (Lep., Noctuidae)
On lawn, Lae, Morobe P., July, 1971.

Anticarsia irrorata Fabricius (Lep., Noctuidae)

Feeding on grass, Marambang, Markham Valley, Morobe P., October, 1977.

Blissus sp. (Hem., Lygaeidae)

Caused dieback of top growth in roundish patches on lawn, Tamiloa Plntn, via Lae, Morobe P., May, 1974.

Herpetogramma licarsisalis Walker (Lep., Pyralidae)

Larvae feeding on lawns left large brown defoliated patches, K.A.R.S., W.H.P., March, 1976.

Locusta migratoria Linnaeus (Orth., Acrididae)

Phase *solitaria*, Tambul, W.H.P., October, 1977; phase *gregaria* on grass, Kieta town, N.S.P., February, 1972; Cleanwater, Morobe P., 1973.

Mythimna loreyi Duponchel (Lep., Noctuidae)

Numerous larvae damaged pastures, H.A.E.S., E.H.P., July, 1978.

Spodoptera exempta Walker (Lep., Noctuidae)

On grasses, Idlers Bay, C.P., February, 1973; on grass, D.A.S.F., Kapogere, C.P., February, 1973; Kundiawa, S.P., March, 1973; Markham Valley, Morobe P., March, 1973; Mendi area, S.H.P., March, 1973; Banz, W.H.P. March, 1973.

Spodoptera mauritia Guenée (Lep., Noctuidae)

Adults abundant, Aviamp, W.H.P., February, 1973, eggs with high parasitism rate by a chalcidoid parasite.

Spodoptera umbraculata Walker (Lep., Noctuidae)

Native grasses, P.A.C., N.P., July, 1969.

WEEDS

Achaea janata Linnaeus (Lep., Noctuidae)

Ricinus communis foliage, Mt. Hagen area, W.H.P., Tari area, S.H.P., July, 1971.

Apirocalus ebrius Faust (Col., Curculionidae)

On weeds, Madang, Madang P., June, 1959; Timbulum Plntn, Finschhafen, Morobe P., January, 1966.

Araecerus acutus Jordan (Col., Anthribidae)

Ex *Lantana camara* seeds, Wewak, E.S.P., November, 1973.

Bemisia tabaci Gennadius (Hem., Aleyrodidae)

Ex *Lantana camara*, N.P., June, 1972.

Diachrysia orichalcea Fabricius (Lep., Noctuidae)

Feeding on *Crassocephalum crepidioides*, K.A.R.S., W.H.P., November, 1973.

Dysdercus cingulatus Fabricius (Hem., Pyrrhocoridae)

Adults and nymphs common on thistle (*Sonchus* sp.), Gusap Downs airstrip, Morobe P., April, 1976.

? *Epitranus* sp. (Hym., Chalcididae)

Ex *Euphorbia geniculata*, Lejo, Popondetta, N.P., April, 1973.

Henosepilachna guttatopustulata Fabricius (Col., Coccinellidae)

Feeding on leaves of *Datura* sp., Gusap Airstrip, Morobe P., April, 1976.

Liorhyssus hyalinus Fabricius (Hem., Coreidae)

Resting on *Tribulus cistoides*, Laloki Experimental Station, C.P., September, 1970.

Megymenum sp. (Hem., Dinidoridae)

Adults and nymphs common on *Momordica charantia* in abandoned cocoa plantations, Sangara, N.P., January, 1976.

Nysius sp. (Hem., Lygaeidae)

On thistle, Kassam Pass, E.H.P., April, 1976.

Oribius cinereus Marshall (Col., Curculionidae)

Sida rhombifolia leaves (Malvaceae), Maralumi Est., Morobe P., January, 1977.

Oribius destructor Marshall (Col., Curculionidae)

Adults feeding on thistles, Bontu Pltn, E.H.P., April, 1976.

Plautia sp., (Hem., Pentatomidae)

Adults feeding on pods of *Crotolaria* sp., P.A.C., N.P., July, 1972-November, 1973.

Spoladea recurvalis Fabricius (Lep., Pyralidae)

Portulaca oleracea foliage - several acres of this weed almost completely defoliated, Maralumie, Morobe P., September, 1973.

HOUSEHOLD PESTS

? *Acanthopsyche* sp. (Lep., Psychidae)

Destroying sago palm thatching, Christian Missions in Many Lands, Vanimu, Green River, W.S.P., October, 1971.

Anoplolepis longipes Jerdon (Hym., Formicidae)

Workers foraging in house, L.E.S., N.P., 1973-4

Cryptotermes domesticus Haviland (Isop., Kalotermitidae)

Ex desk, Bubia, Morobe P., July, 1975.

Dinoderus minutus Fabricius (Col., Bostrichidae)

Boring in white palm floor, Konje Vill., N.P., November, 1973.

Herculia nigrivitta Walker (Lep., Pyralidae)

Destroying sago palm thatch, Christian Missions in Many Lands, Vaimo, Green River, W.S.P., October, 1971.

Monomorium pharaonis Linnaeus (Hym., Formicidae)

Workers foraging in house, Popondetta, N.P., 1973-4.

Orthopygia repetita Butler (Lep., Pyralidae)

Larva destroying sago palm thatched roof, Busu Vill., Morobe P., April, 1973.

Pentarthrum cylindricum Wollaston (Col., Curculionidae)

Boring into black palm flooring, Konje Vill., N.P., November, 1973.

Pheidole megacephala Fabricius (Hym., Formicidae)

Foraging in houses, Popondetta, N.P., 1971-2.

Pheidole sp. (Hym., Formicidae)

Chewing furniture in new house, including vinyl and foam of dining chairs, Gerehu, C.P., October, 1973.

STORED PRODUCTS INSECTS

Acanthoscelides obtectus Say (Col., Bruchidae)

Soya bean seed, Mount Hagen, W.H.P., July, 1973.

Alphitobius laevigatus Fabricius (Col., Tenebrionidae)

On copra stored in hold of ship from West Irian: intercepted at Rabaul, E.N.B.P., August, 1968.

Anaballus amplicollis Fairmaire (Col., Curculionidae)

Ex stored yam, Aupik, Maprik, E.S.P., June, 1959.

Araecerus fasciculatus Degeer (Col., Anthribidae)

Dried cowpea pods, Bubia, Morobe P., November, 1977.

Araecerus ? levipennis Jordan (Col., Anthribidae)

Dried cowpea pods, Bubia, Morobe P., November, 1977.

Araecerus ? levipennis Jordan (Col., Anthribidae)

Ex dried soya bean pods, Cleanwater, Morobe P., July, 1975.

Attagenus fasciatus Thunberg (Col., Dermestidae)

Ex poultry feed mix from Australia, Lae, Morobe P., November, 1970.

Carcinops pumilio Erichson (Col., Histeridae)

Residues of compounded chicken feeds, Ilimo Farm, C.P., April, 1975.

- Carpophilus pilosellus* Motschulsky (Col., Nitidulidae)
Winnowings, Maprik, E.S.P., April, 1970; spilled paddy rice, Yamikum Vill., Dimamo, Maprik Area, E.S.P., May, 1970.
- Coptodera eluta* Andrewes (Col., Carabidae)
Empty rice sacks, Bereina, C.P., January, 1975.
- Cryptolestes pusilloides* Steel & Howe (Col., Cucujidae)
Ex paddy rice in laboratory culture of *S. oryzae* L., Bainyik, E.S.P., December, 1972.
- Cryptolestes pusillus* Schönherr (Col., Cucujidae)
Rice winnowings, Maprik, E.S.P., April, 1970.
- Dermestes ater* Degeer (Col., Dermestidae)
Cocoa fruit, Rabaul, E.N.B.P., May, 1970.
- Ephestia cautella* Walker (Lep., Pyralidae)
On chillies from Mt. Hagen, Sydney, Australia, April, 1970; larvae in chilli seeds, L.A.E.S., E.N.B.P., November, 1975.
- Gnathocerus cornutus* Fabricius (Col., Tenebrionidae)
Flour residues in ship, Port Moresby Wharf, C.P., December, 1972.
- Lasioderma serricorne* Fabricius (Col., Anobiidae)
Discovered in tin of curry, Port Moresby Store, C.P., September, 1970; reared from processed cocoa, drinking chocolate, Popondetta, N.P., June, 1974; adults and larvae found in mixed spice, ginger and mustard powder, Popondetta, N.P., June, 1973.
- Lophocateres pusillus* Klug (Col., Trogossitidae)
Rice winnowings, Maprik, E.S.P., April, 1970.
- Mezium americanum* Laporte (Col., Ptinidae)
Residues of stock feed etc. on ship, Port Moresby Wharf, C.P., December, 1972.
- Necrobia rufipes* Degeer (Col., Cleridae)
On copra in hold of ship from West Irian: Rabaul, E.N.B.P., August, 1968; wharf, Rabaul, E.N.B.P., July, 1974.
- Orphinus fulvipes* Guérin-Ménéville (Col., Dermestidae)
Popondetta, N.P., December, 1974.
- Oryzaephilus mercator* Fauvel (Col., Silvanidae)
On copra, Rabaul, E.N.B.P., August, 1968.
- Oryzaephilus surinamensis* Linnaeus (Col., Silvanidae)
Ex split peas, Popondetta, N.P., September, 1975.
- Oxyderes cyrtus* Jordan (Col., Anthribidae)
Dried cowpea pods, Buba, Morobe P., November, 1977.

Palorus cerylonoides Pascoe (Col., Tenebrionidae)
Rice winnowings, Maprik, E.S.P., April, 1970.

Plodia interpunctella Hubner (Lep., Pyralidae)
Wheat meal in ship, Port Moresby Wharf, C.P., September, 1972.

Genus et sp. indet. (Psoc.)
Adults from split peas, Popondetta, N.P., September, 1975.

Sciophagus pandanicola Boisduval (Col., Tenebrionidae)
Spilled paddy rice, Balukwil Vill., Maprik Area, E.S.P., May, 1970.

Tenebrio obscurus Fabricius (Col., Tenebrionidae)
Desiccated coconut from Rabaul: Melbourne, Victoria, Australia, October, 1970.

PARASITES AND PREDATORS

Acroclisoides megacephalus Girault (Hym., Pteromalidae)
Ex *Axiagastus* (Hem., Pentatomidae) eggs, Napapar Plntn, E.N.B.P., December, 1969.

Agathis sp. (Hym., Braconidae)
Parasite of late larval stages of *Plutella xylostella* Linnaeus (Lep., Yponomeutidae),
Wau, Morobe P., 1977.

Agrypnus sp. (Col., Elateridae)
Locusta migratoria Linnaeus phase *gregaria* (Orth., Acrididae) eggs, Leron Plains,
Morobe P., April, 1974.

Agrypon sp. (Hym., Ichneumonidae)
Pupal parasite of *Spodoptera exempta* Walker (Lep., Noctuidae) Kainantu and
Yonki, E.H.P., March, 1973.

Alaus breviplicatus Fairmaire (Col., Elateridae)
Predator of longicorn larva on cocoa, Karkar, Madang P., May, 1973.

Amyotea reciprocus Walker (Hem., Pentatomidae)
Preying on *Agapophyta* sp. (Hem., Pentatomidae), L.E.S., N.P., September, 1975.

Anagyrus ? *fusciventris* Girault (Hym., Encyrtidae)
Ex *Maconellicoccus hirsutus* Green (Hem., Coccidae) infestations on *Hibiscus*,
Rabaul, E.N.B.P., December, 1964; December, July, 1967.

Anastatoidea columbi Girault (Hym., Eupelmidae)
Keravat, E.N.B.P., April, 1971; September, 1970.

Anastatus ? *racinei* Girault (Hym., Eupelmidae)
Reared from egg masses of *Riptortus* sp. (Hem., Alydidae).

Anastatus sp. (Hym., Eupelmidae)

Bred from eggs of *Amblypelta lutescens papuensis* Brown (Hem., Coreidae); parasitism rate 60-75%, Diamond Valley, Port Moresby, C.P., September-December, 1974.

Anastatus sp. (Hym., Eupelmidae)

Bred from eggs of *Amblypelta theobromae* Brown (Hem., Coreidae) exposed to the parasite in the laboratory.

Anastatus sp. (Hym., Eupelmidae)

Possibly hyperparasites of *Apanteles* sp. (*glomeratus* group) (Hym., Braconidae) cocoons, ex noctuid moth (Ophiderinae) larvae ex coffee berries, Goroka, E.H.P., April, 1973.

Anastatus sp. (Hym., Eupelmidae)

Ex *Axiagastus* (Hem., Pentatomidae) eggs, Tavilo, E.N.B.P., August, 1969.

Anastatus sp. (Hym., Eupelmidae)

Eggs of *Graphium macfarlanei* Butler (Lep., Papilionidae), Konedobu, C.P., February, 1973.

Anoplolepis longipes Jerdon (Hym., Formicidae)

Insksters Plntn, N.P., February, 1968; preying on adult *Contarinia sorghicola* Coquillett (Dipt., Cecidomyiidae), Ganif, Morobe P., March, 1977.

Apanteles sp. nr *dotus* Nixon (Hym., Braconidae)

Ex tortricid (Lep.) larvae on tea, K.A.R.S., W.H.P., 1977-8.

Apanteles ? *flavipes* Cameron (Hym., Braconidae)

Ex sugar cane moth larvae, Popondetta, N.P., September, 1971.

Apanteles iulis Nixon (Hym., Braconidae)

Parasite of pyralid larva on soya bean, Bubia, Morobe P., March, 1977; ex *Hedylepta indicata* Fabricius (Lep., Pyralidae) larvae.

Apanteles pertiades Nixon (Hym., Braconidae)

Parasite of *Tirathaba rufivena* Walker (Lep., Pyralidae) larvae.

Apanteles phytometrae Wilkinson (Hym., Braconidae)

Parasite of *Plusia* (Lep., Noctuidae) larva on soya bean, Bubia, Morobe P., March, 1977.

Apanteles sp. nr *phytometrae* Wilkinson (Hym., Braconidae)

Larval parasite of *Diachrysia orichalcea* Fabricius (Lep., Noctuidae), Wapenamanda, W.H.P., August, 1972.

Apanteles ? *ruficrus* Haliday (Hym., Braconidae)

Ex larva of *Diachrysia orichalcea* Fabricius (Lep., Noctuidae) Wapenamanda, W.H.P., June, 1972.

- Apanteles* sp. (*ater* group) (Hym., Braconidae)
Larval parasite of *Epiphyas* sp. (Lep., Tortricidae) on coffee, Banz, W.H.P., January, 1973.
- Apanteles* sp. (*glomeratus* group) (Hym., Braconidae)
Larval parasite of *Diachrysia orichalcea* Fabricius (Lep., Noctuidae) Wapenamanda, W.H.P., April, 1972.
- Apanteles* sp. (*ultor* group) (Hym., Braconidae)
Larval parasite of *Homona coffearia* Nietner (Lep., Tortricidae) on tea, K.A.R.S., W.H.P., May, 1973.
- Apanteles* sp. (*ultor* group) (Hym., Braconidae)
Possible parasite of *Plutella xylostella* Linnaeus (Lep., Yponomeutidae) ex *Brassica oleracea*, Kabiufa, E.H.P., June, 1972.
- Apanteles* sp. (*ultor* group) (Hym., Braconidae)
High parasitism rate among pupae of *Sylepta derogata* Fabricius (Lep., Pyralidae), P.A.C., N.P., July, 1969.
- Apanteles* sp. (*vitripennis* group) (Hym., Braconidae)
Ornithoptera chimaera Rothschild (Lep., Papilionidae) Tapini area, C.P., May, 1971.
- Apanteles* sp. (Hym., Braconidae)
Gregarious parasite of final instar of *Euthaliopsis aetion* Hewitson (Lep., Nymphalidae), Lae, Morobe P., November, 1976.
- Apanteles* sp. (Hym., Braconidae)
Ex lepidopteran larva on *Hibiscus*, N.P., July, 1969.
- ? *Apanteles* sp. (Hym., Braconidae)
Reared from larvae of unidentified geometrid feeding on *Mentha arvensis* (Japanese mint), D.A.S.F., Laloki, C.P., November, 1972.
- Aphanogmus* sp. nr *manilae* Ashmead (Hym., Ceraphronidae)
Parasite of *Sigalphogastera* (Hym., Braconidae), Sangara, N.P., July, 1969.
- Arcesius* sp. (Hem., Reduviidae)
Preying on larvae of *Euproctis* sp. nr *variata* Walker (Lep., Lymantridae) on cocoa, N.P., July, 1967.
- Asarkina aegrota* Fabricius (Dipt., Syrphidae)
Attempting to oviposit near *Pseudoregma* ? *sundanica* van der Goot (Hem., Aphididae) feeding on *Hornstedtia lycostoma*, warded off by *Anoplolepis longipes* Jerdon (Hym., Formicidae), Sangara, N.P., June, 1971.
- Atherigona orientalis* Schiner (Dipt., Muscidae)
Ex *Tiracola* (Lep., Noctuidae) larva/pupa, Popondetta, N.P., August, 1971.
- Baccha* ? *papuana* Hull (Dipt., Syrphidae)
Ex *Tiracola* (Lep., Noctuidae) larva, Brevaturu, N.P., August, 1971.

Batotheca sp. (Hym., Braconidae)

Reared ex larva of limacodid (Lep.) Sangara, N.P., August, 1967.

Biosteres sp. (Hym., Braconidae)

Probably ex *Dacus strigifinis atritus* May (Dipt., Tephritidae) ex *Cucurbita maxima*, Wau, 1200m, Morobe P., May, 1978.

Blaesoxipha pachytyli Skuse (Dipt., Sarcophagidae)

Parasite of *Locusta migratoria* Linnaeus phase *gregaria* (Orth., Acrididae) adults, Kaiapit, Morobe P., August, 1974.

Brachymeria dipterophaga Girault (Hym., Chalcididae)

Ex pupa small moth larva ex experimental *Eucalyptus torelliana*, forest plantation near T. Flower's old sawmill, Brown River, C.P., June, 1959.

Brachymeria euploae Westwood (Hym., Chalcididae)

Ex pupa of *Xanthodes transversa* Guenée ex *Hibiscus esculentus* (Lep., Noctuidae) foliage, Wau, 1200m, Morobe P., April, 1978.

Brachymeria gigantea Joseph et al (Hym., Chalcididae)

Ex pupa of *Melanitis leda* Linnaeus (Lep., Nymphalidae) found on rice, Iriri Vill., G.P., May, 1959.

Brachymeria hime Habu (Hym., Chalcididae)

Ex rice leaf roller, Bubia, Morobe P., April, 1959.

Brachymeria jambolana Gahan (Hym., Chalcididae)

Ex *Hedylepta diemenalis* Guenée (Lep., Pyralidae) from *Pueraria*, Sowon, E.S.P., September, 1972.

Brachymeria koduvalliensis Joseph et al (Hym., Chalcididae)

From *Charops* sp. (Hym., Ichneumonidae) ex casemoth ex cacao, Haugata Plntn, N.P., August, 1966.

Brachymeria lasus Walker (Hym., Chalcididae)

Popondetta, N.P., April, 1967; reared from pupa of *Doleschallia hexophthalmos* Gmelin (Lep., Nymphalidae), Trauna Valley Farm, Baiyer River, 1,200 m, W.H.P., January, 1971; reared from pupae of *Doleschallia hexophthalmos* Gmelin (Lep., Nymphalidae), P.A.C., N.P., November, 1975; bred from pupa of *Enicospilus* sp. (Hym., Ichneumonidae), P.A.C., Popondetta, N.P., July, 1971; pupa of *Ostrinia furnacalis* Guenée (Lep., Pyralidae), Mutzing, Morobe P., April, 1975; pupae *Tirathaba rufivena* Walker (Lep., Pyralidae), Maralumie Est., Morobe P., June, 1976; pupal parasite of *Ornithoptera priamus* Linnaeus (Lep., Papilionidae), Bainyik, E.S.P., August, 1977; ex pupa *Plusia* sp. (Lep., Noctuidae) on tea, K.A.R.S., W.H.P., November, 1977, January-February, 1978; ex *Sylepta derogata* Fabricius (Lep., Pyralidae) pupae on *Hibiscus*, Garaina, Morobe P., February, 1978; ex hesperid (Lep., Hesperidae) pupa on yam, L.A.E.S., E.N.B.P., June, 1967.

Brachymeria lugubris Walker (Hym., Chalcididae)

Ex pupa of *Pericyma cruegeri* Butler (Lep., Noctuidae), severe pest of *Delonix regia*, Port Moresby, C.P., May, 1958; ex tachinid pupa ex pupa of *Papilio aegeus* Donovan (Lep., Papilionidae) on citrus, Kiriwina Is., Milne B.P., January, 1973.

- Brachymeria* sp. nr *minuta* Linnaeus (Hym., Chalcididae)
Ex tachinid pupa ex lymantriid (Lep.) pupa, Popondetta, N.P., October, 1971.
- Brachymeria* ? *nephantidis* Gahan (Hym., Chalcididae)
Ex *Pansepta* (Lep., Xyloryctidae) pupa, Tavilo Plntn, E.N.B.P., September, 1971.
- Brachymeria* *nosatoi* Habu (Hym., Chalcididae)
Ex *Pectinophora gossypiella* Saunders (Lep., Gelechiidae) ex Asiatic cotton, Hohola/Gordons, C.P., June, 1973; pupae *Tirathaba rufivena* Walker (Lep., Pyralidae) Maralumie Est., Morobe P., June, 1976.
- Brachymeria* *phyta* Walker (Hym., Chalcididae)
Ex *Plutella xylostella* Linnaeus (Lep., Yponomeutidae), H.A.E.S., E.H.P., May, 1961;
ex pupa of *Plutella xylostella* Linnaeus (Lep., Yponomeutidae), W.H.P., May, 1976.
- Brachymeria* sp. (Hym., Chalcididae)
Tachinid pupae ex *Papilio aegaeus* Donovan (Lep., Papilionidae) pupa on citrus, Kiriwina Is., Milne B.P., February/January, 1973.
- Brachymeria* sp. (Hym., Chalcididae)
Parasitised 60% of pupae of *Pinzulenza kukisch* Hering (Lep., Limacodidae) collected from Asuramba Plntn, Madang P., November, 1974.
- Brachymeria* sp. (Hym., Chalcididae)
Pupal parasite of *Plutella xylostella* Linnaeus (Lep., Yponomeutidae), Wapenamanda, E.P., March, 1972.
- Bracon* sp. (Hym., Braconidae)
Ex pupa of *Borbo cinnara* Wallace (Lep., Hesperiiidae), Bubia, Morobe P., August, 1975.
- Bracon* sp. (Hym., Braconidae)
Reared from cerambycid larvae, Sangara, N.P., August, 1967.
- Bracon* sp. (Hym., Braconidae)
Ex pupa of *Narathura micale micale* Boisduval (Lep., Lycaenidae), Sapphire Creek, C.P., November, 1966.
- Campyloneurus* sp. (Hym., Braconidae)
Cocoon in channel of dead larvae of *Pantorhytes szentivanyi* Marshall (Col., Curculionidae), Sangara, N.P., November, 1970.
- Carcelia* (*Senometopia*) ? *cinerea* Brauer & Bergenstamm (Dipt., Tachinidae)
Ex *Sesamia* sp. (Lep., Noctuidae), Munum, Morobe P., January, 1971.
- Carcelia* (*Senometopia*) sp. (Dipt., Tachinidae)
Ex larvae of *Chilo terrenellus* Pagenstecher (Lep., Pyralidae) and *Sesamia grisescens* Walker (Lep., Noctuidae).

- Casitaria* sp. nr *meridionalis* Turner (Hym., Ichneumonidae)
Common parasite of larvae of *Borbo impar* Mabilie (Lep., Hesperidae), B.A.R.C. and Markham Valley, Morobe P., 1971-2.
- Ceromya* sp. (Dipt., Tachinidae)
Ex *Tiracola* (Lep., Noctuidae) pupa, Barevaturu, N.P., September, 1971.
- Genus nr *Chalcura* (Hym., Eucharitidae)
Ex tests *Pulvinaria psidii* Maskell (Hem., Coccidae) on tea, Mt Hagen, W.H.P., February, 1973.
- Cheiloneurus* sp. (Hym., Encyrtidae)
Parasite of *Pulvinaria psidii* Maskell (Hem., Coccidae), on tea, Mt. Hagen, W.H.P., February, 1973.
- Cheiloneurus* sp. (Hym., Encyrtidae)
Ex pupa of *Tirathaba rufivena* (Lep., Pyralidae), Lakakot Pltn, N.I.P., May, 1970.
- Chelisoche morio* Fabricius (Derm., Chelisocheidae)
Adults attacked and consumed larvae of *Dacus musae* Tryon (Dipt., Tephritidae) in the laboratory, possible field predator of fruit fly larvae emerging from banana fruit.
- Chelonus* sp. (*striatigenus* group) Hym., Braconidae)
Ex pupae *Hedylepta diemenalis* Guenée (Lep., Pyralidae), P.A.C., N.P., July, 1969.
- Chelonus* sp. (Hym., Braconidae)
Ex pupa of *Hedylepta diemenalis* Guenée (Lep., Pyralidae), P.A.C., N.P., July, 1969.
- Closterocerus* sp. (Hym., Eulophidae)
Bubia, Morobe P., September, 1968.
- Coccinella repanda* Thunberg (Col., Coccinellidae)
Predator of *Aphis craccivora* Koch (Hem., Aphididae) on cow peas, Bubia, Morobe P., November, 1977.
- Coccodiplosis smithi* Felt (Dipt., Cecidomyiidae)
Ex *Maconellicoccus hirsutus* Green (Hem., Pseudococcidae) on *Hibiscus rosa-sinensis*, reared from larvae in mealybug colonies, Rabaul, E.N.B.P., May, 1968.
- Coccodiplosis* ? *smithi* Felt (Dipt., Cecidomyiidae)
In egg mass of 106 *Planococcus citri* Risso (Hem., Pseudococcidae) Jumburu, N.P., June, 1970.
- Coccophagus* sp. (Hym., Aphelinidae)
Parasites of (reared) *Ceroplastes rubens* Maskell (Hem., Coccidae), Morobe P., May, 1972.
- Coccophagus* sp. (Hym., Aphelinidae)
Parasite of *Pulvinaria psidii* Maskell (Hem., Coccidae) on tea, Mt. Hagen, W.H.P., February, 1973.

Coelophora inaequalis Fabricius (Col., Coccinellidae)

On European potato, Wapenamanda, E.P., August, 1973; preying on *Acyrtosiphon solani* Kaltenbach (Hem., Aphididae), Wapenamanda, E.P., August, 1973; on taro leaves, L.A.E.S., E.N.B.P., December, 1973; on cabbage, K.A.R.S., W.H.P., September, 1976; preying on *Aphis craccivora* Koch (Hem., Aphididae), ex cow peas, Bubia, Morobe P., November, 1977.

Compsilura concinnata Meigen (Dipt., Tachinidae)

Ex pupae *Diachrysia orichalcea* Fabricius (Lep., Noctuidae) on cabbage, K.A.R.S., W.H.P., July, 1976; ex *Tiracola* (Lep., Noctuidae) pupa, Brevaturu, N.P., August, 1971.

Compsilura spp. (Dipt., Tachinidae)

Pupa of *Plutella xylostella* Linnaeus (Lep., Yponomeutidae), Wapenamanda, W.H.P., February, 1972.

Conocephalus sp. (Orth., Tettigoniidae)

Predator of *Leptocoris* sp. (Hem., Alydidae) eggs on rice, Soputa Vill., N.P., October, 1974.

Conocephalus sp. (Orth., Tettigoniidae)

Preying on eggs of *Riptortus annulicornis* Boisduval (Hem., Alydidae) and *Nezara viridula* Linnaeus (Hem., Pentatomidae).

Coranus sp. (Hem., Reduviidae)

Preying on adult *Oribius* sp. (Col., Curculionidae) on strawberries, Wapenamanda, E.P., February, 1972.

Cotterellia insularis Kerrich (Hym., Eulophidae)

Parasite of *Promecotheca papuana* Cziki (Col., Chrysomelidae) larva, Baliora, E.N.B.P., June, 1974.

Genus nr *Crateulophus* (Lep., Nethaidae)

Parasite of *Euphneusta solena* Bradley (Lep., Elachistidae), Bubia, Morobe P., July, 1973.

Cryptolaemus wallacei Crotch (Col., Coccinellidae)

Sangara, N.P., July, 1970; ex *Citrus aurantifolia* preying on *Toxoptera citricida* Kirkaldy (Hem., Aphididae), H.A.E.S., E.H.P., February, 1977; on cowpeas - no prey observed, Bubia, Morobe P., November, 1977; on coconut, preying on mealybugs, Maralumi Est., Morobe P., November, 1977.

Cyrtorhinus lividipennis Reuter (Hem., Miridae)

Suspected predator of *Nilaparvata lugens* Stål (Hem., Delphacidae), Gabmatzung, Morobe P., June, 1976.

Diadegma sp. (Hym., Ichneumonidae)

Ex *Crocicidolomia binotalis* Zeller (Lep., Pyralidae) larvae on cabbage, K.A.R.S., W.H.P., May, 1976.

Diadegma sp. (Hym., Ichneumonidae)

Larval parasite of coffee berry borer, *Epiphyas* sp. (Lep., Tortricidae), Banz, W.H.P., January, 1973.

Diadegma sp. (Hym., Ichneumonidae)

Pupal parasite of *Plutella xylostella* Linnaeus (Lep., Yponomeutidae), on cabbage: emerges from host larva after it has spun its cocoon and parasite pupates within the host cocoon, Korofeigu, E.H.P., April, 1972.

Diadegma sp. (Hym., Ichneumonidae)

Cocoon in soil associated with *Spodoptera exempta* Walker (Lep., Noctuidae), Togoba, W.H.P., April, 1973.

Dindymus pyrochrous Boisduval (Hem., Pyrrhocoridae)

Predator of *Pantorhytes* (Col., Curculionidae) adult, Sangara, N.P., October, 1969; observed preying upon *Pantorhytes szentivanyi* Marshall (Col., Curculionidae) but also attacked nymphs of *Amblypelta* sp. (Hem., Coreidae) and *Helopeltis* sp. (Hem., Miridae) in the laboratory, Popondetta, N.P., 1971-2.

Diplazon laetatorius Fabricius (Hym., Ichneumonidae)

Parasite of syrphid pupa, Wau, Morobe P., March, 1977; on cabbage, Kilabi Pltn, January, 1972; on cabbage K.A.R.S., W.H.P.; Wapenamanda, E.P., February, 1972.

Dirhinomorpha sp. (Hym., Chalcididae)

Ex pupa of *Pansepta teleturga* Meyrick (Lep., Xyloryctidae) on cocoa, Draiwara Pltn, E.N.B.P., September, 1970.

Dirhinus ? *anthracia* Walker (Hym., Chalcididae)

Ex sarcophagid puparia ex egg pods of *Locusta migratoria* Linnaeus (Orth., Acrididae), Nadzab, Morobe P.

Doleschalla sp. (Dipt., Tachinidae)

Bred ex longicorn larvae, Kuritave Vill. nr Kieta, N.S.P., May, 1970; ex pupae *Doleschallia hexophthalmos kaparensis* Fruhstorfer (Lep., Nymphalidae), P.A.C., N.P., November, 1975.

Drino (*Paradrino*) *laeviculus* Mesnil (Dipt., Tachinidae)

Bred ex corn borer *Ostrinia furnacalis* Guenée (Lep., Pyralidae), L.A.E.S., E.N.B.P., May, 1970.

Echthromorpha agrestoria insidiator Smith (Hym., Ichneumonidae)

Pupal parasite of *Sesamia inferens* Walker (Lep., Noctuidae), Gabmazung, Morobe P., March, 1971; adults attracted to bands of larvae of *Spodoptera exempta* Walker (Lep., Noctuidae), Kainantu, E.H.P., March, 1973.

Echthromorpha sp. nr *insidiator* Smith, (Ichneumonidae)

Achaea janata Linnaeus (Lep., Noctuidae) on castor, larval parasite, Mt. Hagen, W.H.P., July, 1971.

Echthromorpha sp. nr *insidiator* Smith (Hym., Ichneumonidae)

Adults common on grass with bands of *Spodoptera exempta* Walker (Lep., Noctuidae) larvae, Kainantu, E.H.P., March, 1973.

Elachertus sp. (Hym., Eulophidae)

Ex citrus leaf miner larvae, P.A.C., N.P., September, 1971.

Elasmus sp. (Hym., Elasmidae)

Hyperparasite of *Apanteles* sp. (*ater* group) (Hym., Braconidae), larval parasite of *Homona coffearia* Nietner (Lep., Tortricidae) on tea, K.A.R.S., W.H.P., April, 1973.

Elasmus sp. (Hym., Elasmidae)

Early instar of *Homona coffearia* Nietner (Lep., Tortricidae) on tea, K.A.R.S., W.H.P., July, 1972.

Elasmus sp. (Hym., Elasmidae)

Parasite of *Pantorhytes* (Col., Curculionidae) larvae, Bisi Pltn, N.P., September, 1968.

Elasmus sp. (Hym., Elasmidae)

Ex webworm larva on *Casuarina equisetifolia*, Kilinwara Pltn, E.N.B.P., September, 1970.

Eleusis sp. (Col., Staphylinidae)

Predator of *Pantorhytes* (Col., Curculionidae) larvae, Bisi Pltn, N.P., July, 1967.

Encarsia sp. (Hym., Aphelinidae)

Parasite of *Abgrallaspis cyanophylli* Signoret (Hem., Diaspididae), K.A.R.S., W.H.P., May, 1972.

Genus et sp. indet. (Hym., Encyrtidae)

Single specimen reared from eggs of *Amblypelta lutescens papuensis* Brown (Hem., Coreidae) from cassava, Diamond Valley, Port Moresby, C.P., September, 1974.

Encyrtus sp. (Hym., Encyrtidae)

Parasite of *Pulvinaria psidii* Maskell (Hem., Coccidae), Mt. Hagen, W.H.P., February, 1973.

Encyrtus sp. (Hym., Encyrtidae)

Parasites of *Saissetia* sp. (Hem., Coccidae), Lae, Morobe P., May, 1972.

Enicospilus melanocarpus Cameron (Hym., Ichneumonidae)

Parasite of pre-pupa of *Achaea janata* Linnaeus (Lep., Noctuidae), Mt. Hagen, W.H.P., March, 1973.

Enicospilus sp. (Hym., Ichneumonidae)

Bred from late instar larvae of *Achaea janata* Linnaeus (Lep., Noctuidae), P.A.C., Popondetta, N.P., June, 1971.

Enicospilus sp. (Hym., Ichneumonidae)

Larval parasites of *Achaea janata* Linnaeus (Lep., Noctuidae) on castor, Mt. Hagen, W.H.P., July, 1971.

Enicospilus sp. (Hym., Ichneumonidae)

Larval parasite of *Diachrysia orichalcea* Fabricius (Lep., Noctuidae), host larvae in larval cell of predacious wasp *Rhynchium ? mirabile* Saussure (Hym., Eumenidae), K.A.R.S., W.H.P., January, 1972.

Enicospilus sp. (Hym., Ichneumonidae)

Larval parasite of *Spodoptera litura* Fabricius (Lep., Noctuidae) ex tea, K.A.R.S., W.H.P., December, 1973/January, 1974.

Eozenilla ? equatorialis Townsend (Dipt., Tachinidae)

Ex oil palm bagworm, *Clania* sp. (Lep., Psychidae), Mosa Plntn, W.N.B.P., June, 1972.

Genus near *Epiencyrtoides* (Hym., Encyrtidae)

Egg parasites reared ex egg batch of *Zophiuma lobulata* Ghauri (Hem., Lophopidae), Soputa Vill., N.P., May, 1974.

Episyrphus balteatus Degeer (Dipt., Syrphidae)

Predator of aphids on round cabbage, Wau, Morobe P., November, 1975.

Eriborus sp. (Hym., Ichneumonidae)

Prepupa *Plutella xylostella* Linnaeus (Lep., Yponomeutidae), Wapenamanda, E.P., February, 1972; pupa *Spodoptera litura* Fabricius (Lep., Noctuidae), K.A.R.S., W.H.P., January, 1972.

Euagorus sp. (Hem., Reduviidae)

Adults preying upon *Helopeltis clavifer* Walker (Hem., Miridae) nymphs and adults, L.E.S., N.P., August, 1971.

Euagorus sp. (Hem., Reduviidae)

Nymph observed preying on fourth instar *Ragwelellus horvathi* Poppius (Hem., Miridae) on wild ginger, Popondetta, N.P., November, 1975.

Eucompsomyia sp. (Dipt., Calliphoridae)

Dead pupae of *Tiracola plagiata* Walker (Lep., Noctuidae), Uhita, N.P., June, 1968.

Eupelmus australicus Girault (Hym., Eupelmidae)

Parasite of *Contarinia* sp. (Dipt., Cecidomyiidae) from *Sorghum verticilliflorum*, Ganif, Morobe P., March, 1977; parasite of *Contarinia* sp. from *Sorghum nitidum*, Ganif, Morobe P., May, 1978.

Eupelmus australis Girault (Hym., Eupelmidae)

Principal parasite of *Contarinia sorghicola* Coquillett (Dipt., Cecidomyiidae) attacking *Sorghum* sp., rate of parasitism of *C. sorghicola* rarely exceeding 50% in *S. vulgare*, Markham Valley, Morobe P., 1973.

Eupelmus popa Girault (Hym., Eupelmidae)

Parasite of sorghum midge ex sorghum, Bubia, Morobe P., July, 1972.

Eupelmus sp. (Hym., Eupelmidae)

From egg of *Promecotheca papuana* Cziki (Col., Chrysomelidae), Baliora Plntn, E.N.B.P., June, 1974.

Eurytoma promecotheca Ferrière (Hym., Eurytomidae)

Ex *Promecotheca papuana* Cziki (Col., Chrysomelidae), Baliora Plntn, E.N.B.P., October, 1973.

Eurytoma sp. (Hym., Eurytomidae)

Ex citrus leaf miner larvae, N.P., September, 1971.

Exochus sp. (Hym., Ichneumonidae)

Ex *Crocicidolomia binotalis* Zeller (Lep., Pyralidae) larvae on Chinese cabbage, Kindeng, W.H.P., February, 1976.

Exoristobia philippinensis Ashmead (Hym., Encyrtidae)

Ex puparia of sarcophagid at Sasiang and puparia of tachinid parasites, at Gubensis, on *Locusta migratoria* Linnaeus (Orth., Acrididae) adults, Morobe P., 1971, 1973, 1974; ex puparium *Blepharipa* sp. (Tachinidae), Sogeri, C.P., July, 1973; pupa of *Doleschalla* sp. (Tachinidae), Sangara, N.P., November, 1971; ex tachinid parasite of cocoa Lepidoptera and ex *Winthemia* sp. nr *diversa* Malloch (Dipt., Tachinidae) ex *Ectropis* (Lep., Geometridae), L.A.E.S., E.N.B.P., August, 1970; hyperparasite on *Doleschalla* sp., (Dipt., Tachinidae), on *Pantorhytes szentivanyi* Marshall (Col., Curculionidae), Sangara, N.P., November, 1971.

Forcipomyia sp. (Dipt., Ceratopogonidae)

Ex larval channel of *Promecotheca papuana* Cziki (Col., Chrysomelidae), Baliora Plntn, E.N.B.P., March, 1974.

Forcipomyia sp. (Dipt., Ceratopogonidae)

Ex sixth instar larva of *Tiracola plagiata* Walker (Lep., Noctuidae), Girua Plntn, N.P., January, March, 1966.

Gavrana sp. nr *triosa* Tosquinet (Hym., Ichneumonidae)

Pupal parasite of moth feeding on stored sweet potato, Kundep, 1700m, W.H.P., August, 1973.

Goniozus sp. (Hym., Bethyidae)

Pupal parasite of sweet potato boring moth, K.A.R.S., W.H.P., March, 1973.

Goryphus sp. (Hym., Ichneumonidae)

Pupal parasite of ? Tortricidae ex coffee seedlings, Aiyura, E.H.P., November, 1977.

Gryon nixonii Masner (Hym., Scelionidae)

Parasites ex eggs *Leptocoris oratorius* Fabricius (Hem., Alydidae), Pagwi, Marui Catholic Mission, E.S.P., March, 1974; *Chilo terrenellus* Pagenstecher (Lep., Pyralidae) (sugarcane moth borers) eggs, Bubia, Morobe P., June, 1970; bred from eggs of *Leptocoris oratorius* Fabricius (Hem., Alydidae), parasitism rate 30-65%, Soputa Vill. and Popondetta, N.P., October, 1974.

Gryon sp. (Hym., Scelionidae)

Ex eggs of *Amblypelta lutescens papuensis* Brown (Hem., Coreidae), parasitism rate 14%, Diamond Valley, Port Moresby, C.P., December, 1974. In the laboratory also attacked eggs of *Amblypelta theobromae* Brown (Hem., Coreidae).

Gryon sp. (Hym., Scelionidae)

Leptocorisa acuta Thunberg (Hem., Alydidae) ova, Bubia, Morobe P., March, 1973.

Gryon sp. (Hym., Scelionidae)

Egg parasite of *Riptortus* sp. (Hem., Alydidae), Bubia, Morobe P., January, 1975.

Gyrocara sp. nr *guttata* Blackburn (Col., Coccinellidae)

Preying on scales ex *Coffea arabica*, Mt. Hagen, W.H.P., February, 1973.

Harmonia arcuata Fabricius (Col., Coccinellidae)

Predator of *Nilaparvata lugens* Stål (?) (Hem., Delphacidae), Gabmazung, Morobe P., August, 1970; predator of *Rhopalosiphon maidis* Fitch (Hem., Aphididae) on maize & sorghum, Bubia, Morobe P., May, 1977; predator of *Aphis craccivora* Koch (Hem., Aphididae) on cowpeas, Bubia, Morobe P., November, 1977.

Helonotus exsugiens Stål (Hem., Reduviidae)

Feeding on *Nezara* (Hem., Pentatomidae), Leron Plains, Morobe P., January, 1975; ex tea, preying on nymphs of *Helopeltis clavifer* Walker (Hem., Miridae), Garaina Tea Plntn, Morobe P., April, 1977; adults preyed on nymphs of *Helopeltis clavifer* Walker (Hem., Miridae) and *Pseudodoniella laensis* Miller (Hem., Miridae) in the laboratory, Popondetta, N.P., 1971.

Heteronychia australis Johnston & Tiegs (Dipt., Sarcophagidae)

Egg pods of *Locusta migratoria* Linnaeus (Orth., Acrididae), Morobe P., January, 1975.

Homonotus sp. (Hym., Pompilidae)

Larva predator of spider eggs on tea, K.A.R.S., W.H.P., January, 1972.

Hyleorus furcatus Aldrich (Dipt., Tachinidae)

Ex lymantriid pupa, Sogari, N.P., November, 1966.

Ichneumon promissorius Erichson (Hym., Ichneumonidae)

Pupae of *Tiracola plagiata* Walker (Lep., Noctuidae), Banz, W.H.P., February, 1970.

Ipobracon sp. (Hym., Braconidae)

Amboga, N.P., July, 1973.

Iridomyrmex sp. (Hym., Formicidae)

Attacking larvae of *Plutella xylostella* Linnaeus (Lep., Yponomeutidae) on cabbage, K.A.R.S., W.H.P., September, 1976.

Isauria aphidivora Meyrick (Lep., Pyralidae)

Larvae predaceous on *Ceratovacuna lanigera* Zehntner (Hem., Aphididae) on sugarcane, Ganif, Morobe P., August, 1972; larvae reputed to be predatory on *Ceratovacuna lanigera* Zehntner (Hem., Aphididae), Markham Valley, Morobe P., 1973.

Isyndus sp. (Hem., Reduviidae)

Adults preying on larvae of *Homona coffearia* Nietner (Lep., Tortricidae), K.A.R.S., W.H.P., August, 1973.

? *Itopectis* sp. (Hym., Ichneumonidae)

Pupal parasite *Plutella xylostella* Linnaeus (Lep., Yponomeutidae), Avi, W.H.P., February, 1972.

Leptobatopsis indica Cameron (Hym., Ichneumonidae)

Larval parasite of lepidopterous coffee berry borer, Banz, W.H.P., January, 1973; Adult common on grass with larvae of *Spodoptera exempta* Walker (Lep., Noctuidae), Kainantu, E.H.P., March, 1973.

Leptotheca csikii Weise (Col., Coccinellidae)

Larvae predatory on *Ceratovacuna lanigera* Zehntner (Hem., Aphididae) on sugar cane, Ganif, Morobe P., October, 1972.

Limonia sp. (Dipt., Tipulidae)

Ex *Pantorhytes* (Col., Curculionidae) tunnel (known predator), Vunapau, E.N.B.P., July, 1970.

Lissopimpla scutata Krieger (Hym., Ichneumonidae)

Pupal parasite of *Spodoptera exempta* Walker (Lep., Noctuidae). Host pupae collected 25th April, 1973, Togoba, W.H.P., April, 1973; adult attracted to *Spodoptera exempta* larvae, Kainantu, E.H.P., March, 1973.

Litomastix sp. (Hym., Encyrtidae)

Parasite of prepupae of *Diachrysia orichalcea* Fabricius (Lep. Noctuidae), Wapenamanda, E.P., March, 1972; Kabiufa, E.H.P., June, 1972.

Macrocentrus sp. (Hym., Braconidae)

Ex caterpillar on *Pipturus argenteus*, Lae, Morobe P., July, 1973.

Menochilus sexmaculatus Fabricius (Col., Coccinellidae)

Preying on aphids on sorghum, Aiyura, E.H.P., June, 1972.

Meteorus sp. (Hym., Braconidae)

Larval parasite of *Homona coffearia* Nietner (Lep., Tortricidae), K.A.R.S., W.H.P., April, 1973.

Meteorus sp. (Hym., Braconidae)

Parasite of *Mampava bipunctella* Ragonot (Lep., Pyralidae) ex sorghum, Maralumie, Morobe P., October, 1972.

Meteorus sp. (Hym., Braconidae)

Ex tortricid (Lep.) larvae on tea, K.A.R.S., W.H.P., 1977-8.

Microterys sp. nr *flavus* Howard (Hym., Encyrtidae)

Possible parasite of white scale ex citrus, Karimui, S.P., September, 1973.

Microterys sp. (Hym., Encyrtidae)

Parasite reared ex adult *Ceroplastes destructor* Newstead (Hem., Coccidae), Bulolo, Morobe P., May, 1972.

Monomorium floricola Jerdon (Hym., Formicidae)

Pantorhytes (Col., Curculionidae) egg lure feeding on eggs on *Pipturus*, Sorovi, Popondetta, N.P., August, 1967.

Myosphila argentata Walker (Dipt., Muscidae)

Decaying tuber of *Solanum tuberosum*, possibly a parasite but more likely a scavenger, associated with *Simplicia caeneusalis* Walker (Lep., Noctuidae), Rairang Pltn, W.H.P., January, 1972.

Nemorilla sp. nr *oceanica* Curran (Dipt., Tachinidae)

Ex pupa of *Panseptia teleturga* Meyrick (Lep., Xyloryctidae) on cocoa, Draiwara Pltn, E.N.B.P., September, 1970.

Nephrotoma sp. (Dipt., Tipulidae)

Bred ex larvae in *Pantorhytes* (Col., Curculionidae) channel in cocoa, Bisi Pltn, Sangara, N.P., August, 1968.

Netelia sp. (Hym., Ichneumonidae)

Adults attracted to bands of *Spodoptera exempta* Walker (Lep., Noctuidae), Kainantu, E.H.P., March, 1973.

Netelia sp. (Hym., Ichneumonidae)

Ex pupae of *Spodoptera litura* Fabricius (Lep., Noctuidae) ex tea emerged 14th, 18th, & 19th December, K.A.R.S., W.H.P., December 1973.

Notaniscus sp. (Hym., Pteromalidae)

Parasite of cabbage leaf miner, *Crocidolomia binotalis* Zeller (Lep., Pyralidae), Wau, Morobe P., April, 1977.

Oechalia sp. (Hem., Pentatomidae)

On pods of soya bean, Aiyura, E.H.P., October, 1976.

Oecophylla smaragdina Fabricius (Hym., Formicidae)

Workers attacking *Ectropis sabulosa* Warren (Lep., Geometridae) larvae, P.A.C., N.P., March, 1972.

Ooencyrtus ? *erionotae* Ferrière (Hym., Encyrtidae)

Bred from citrus butterfly *Papilio* sp. (Lep., Papilionidae) eggs, P.A.C. N.P., September, 1971.

Ooencyrtus malayensis Ferrière (Hym., Encyrtidae)

Ex *Amblypelta lutescens papuensis* Brown (Hem., Coreidae) eggs from *Manihot esculenta*, parasitism rate 8-25%, Diamond Valley, Port Moresby, C.P., September-December, 1974; ex eggs of *Amblypelta theobromae* Brown (Hem., Coreidae) in the

laboratory; ex *Leptocorisa acuta* Thunberg (Hem., Alydidae) eggs, Bubia, Morobe P., March, 1973; ex *Nezara* sp. (Hem., Pentatomidae) eggs, Bubia, Morobe P., January, 1975; ex *Papilio aegaeus ormenus* Guérin-Ménéville (Lep., Papilionidae) eggs, parasitism rate about 10%, P.A.C., N.P., November-December, 1975; ex *Riptortus* sp. (Hem., Alydidae) eggs, Bubia, Morobe P., December, 1975- January, 1975; ex syrphid (Dipt.) puparia, Wau, Morobe P., April, 1977; ex *Zophiuma lobulata* Ghauri (Hem., Lophopidae) eggs, parasitism rate more than 65%, Finschhafen, Morobe P., throughout 1975 and Konje Vill., N.P., December, 1975.

Ooencyrtus papilionis Ashmead (Hym., Encyrtidae)

Ex *Hippotion celerio* Linnaeus (Lep., Sphingidae) eggs, Bubia, Morobe Province., July, 1977.

Ooencyrtus sp. (Hym., Encyrtidae)

Ex ova *Leptocorisa acuta* Thunberg (Hem., Alydidae), Maprik, E.S.P., February, 1973.

Ooencyrtus sp. (Hym., Encyrtidae)

Egg parasite of *Riptortus* sp. (Hem., Alydidae), Bubia, Morobe P., December, 1974.

Ooencyrtus sp. (Hym., Encyrtidae)

Parasite of syrphid puparium, the larvae of which are predators of aphids infesting *Brassica oleracea*, Wapenamanda, W.H.P., April, 1973.

Genus nr *Ooencyrtus* (Hym., Encyrtidae)

- Bred from eggs of *Amblypelta lutescens papuensis* Brown (Hem., Coreidae), parasitism rate 5-12%, Diamond Valley, Port Moresby, C.P., September-December, 1974; also reared from *Amblypelta theobromae* Brown (Hem., Coreidae) eggs when exposed in the laboratory.

Orcus cinctus Weise (Col., Coccinellidae)

Adults on bushes infested with *Coccus viridis* Green (Hem., Coccidae), Wau, Morobe P., June 1974.

Orius sp. (Hem., Anthocoridae)

Preying on sorghum midge *Contarinia sorghicola* Coquillett (Dipt., Cecidomyiidae), Ganif, Morobe P., May, 1975.

Pachyneuron sp. (Hym., Pteromalidae)

Ex syrphid (Dipt.) puparia on cabbage, K.A.R.S., W.H.P., August, 1976.

Palexorista solennis Walker (Dipt., Tachinidae)

Ex larva *Crocicidolomia binotalis* Zeller (Lep., Pyralidae), Wau, Morobe Province., August, 1977; ex *C. binotalis* on cauliflower, K.A.R.S., W.H.P., May, 1967; ex *C. binotalis* on Chinese cabbage, Kindeng, W.H.P., February, 1976; ex *C. binotalis* on cabbage, K.A.R.S., W.H.P., March, 1976; ex larva *Heliothis armiger* Hubner (Lep., Noctuidae), Wau, Morobe P., August, 1975; ex tortricid larvae (Lep.,) on tea, K.A.R.S., W.H.P., 1977-8; ex pupa *Spodoptera litura* Fabricius (Lep., Noctuidae), K.A.R.S., W.H.P., December, 1972.

Palexorista subanajama Townsend (Dipt., Tachinidae)

Ex *Achaea* (Lep., Noctuidae) larva, P.A.C., N.P., July 1971 and Berevatura, August, 1971, N.P.

Palexorista sp. (Dipt., Tachinidae)

Ex sugarcane moth larva, P.A.C., N.P., September, 1971.

Palexorista sp. (Dipt., Tachinidae)

Oil palm bagworm *Clania* sp. (Lep., Psychidae), Cape Hoskins, Mosa Plntn, W.N.B.P., June, 1972.

Papuaia sp. (Dipt., Muscidae)

Ex *Pantorhytes albopunctulatus* Marshall (Col., Curculionidae) channel, Ilimo, N.P., July, 1970.

Pediobius elasmii Ashmead (Hym., Eulophidae)

Ex unidentified larvae on patchouli, L.A.E.S., E.N.B.P., March, 1971; P.A.C., N.P., June, 1971.

Pediobius foveolatus Crawford (Hym., Eulophidae)

Henosepilachna guttatopustulata Fabricius (Col., Curculionidae), reared from pupae, Rouna falls, C.P., March, 1970.

Pediobius pieridis Kerrich (Hym., Eulophidae)

Hyperparasite of *Apanteles* sp. (*ater* group) (Hym., Braconidae), a parasite of *Homona coffearia* Nietner (Lep., Tortricidae) cocoon, K.A.R.S., W.H.P., March, 1973.

Peribaea sp. (Dipt., Tachinidae)

Adults in rotting inflorescence of oil palm, host?, D.O.P.R.S., Cape Hoskins, W.N.B.P., December, 1970.

Perilampus sp. nr *australis* Girault (Hem., Perilampidae)

Ex puparia of tachinid ex *Locusta migratoria* Linnaeus (Orth, Acrididae), Sasiang, Morobe P., September, 1974.

Perilampus sp. nr *nesiotes* Crawford (Hym., Perilampidae)

Ex tachinid pupa ex *Tiracola* (Lep., Noctuidae) pupa, Popondetta, N.P., October, 1971.

Perilampus sp. nr *tassoni* Girault (Hym., Perilampidae)

Winthemia ? *diversa* Malloch (Dipt., Tachinidae) puparia, P.A.C., N.P., December, 1970.

Phanerotoma sp. (Hym., Braconidae)

Ex *Sorghum vulgare* emergence unit, Maralumi, Morobe P., April, 1975.

Pheidole megacephala Fabricius (Hym., Formicidae)

Pantorhytes (Col., Curculionidae) eggs & *Tipula* (Dipt., Tipulidae) larvae, Double Crossing, Popondetta, N.P., July, 1968; *Nezara viridula* Linnaeus (Hem., Pentatomidae) eggs, Buba, Morobe P., January, 1976.

- Physoderes azrael* Kirkaldy (Hem., Aradidae)
Predator of *Pantorhytes* (Col., Curculionidae) larvae, Sangara, N.P., March, 1970.
- Physoderes* sp. (Hem., Aradidae)
Preying on larvae of *Pantorhytes plutus* Oberthür (Col., Curculionidae) E.N.B.P., December 1970.
- Plaesus cossyphus* Marseul (Col., Histeridae)
Ex bole, *Cocos nucifera*, D.A.S.F., Kapagere, C.P., August, 1971; ex dead *Cocos nucifera* trunk, Sangara, Block 39, N.P., November, 1972.
- Plaesus ellipticus* Marseul (Col., Histeridae)
Coconut - in bole 8-10 yrs. old, Kuruwi Uwois Block, Sowan Land Settlement, E.S.P., August, 1972.
- Platynopus melacanthus* Boisduval (Hem., Pentatomidae)
Feeding on larvae of *Catopsilia pomona* f. *crocale* Fabricius (Lep., Pieridae), P.A.C., N.P., April, 1972.
- Platysoma sesquistriatum* Marseul (Col., Histeridae)
In rotting trunk tissue of dying palm, Kapogere, C.P., September, 1971.
- Podapolipus* sp. (Acarina, Podapolipodidae)
Atractomorpha crenaticeps Blanchard (Orth., Pyrgomorphidae) external parasites on dorsal surface of abdomen immediately behind thorax, Tibi Pltn, W.H.P., December, 1970.
- Polistes bernandii comis* Cheesman (Hym., Vespidae)
Preying on *Maruca testulalis* Geyer (Lep., Pyralidae) on snake beans, Bubia, Morobe P., January, 1978.
- Priochirus* (*Syncampsochirus*) *quadrifidus* Fauvel (Col., Staphylinidae)
Predator of *Pantorhytes* (Col., Curculionidae) larvae, Bisi Pltn, N.P., June, 1969.
- Pristhesancus femoralis* Horváth (Hem., Reduviidae)
Preying on *Helopeltis clavifer* Walker (Hem., Miridae) nymphs, Sangara, N.P., November, 1970; larval predator of *Heliothis armiger* Hubner (Lep., Noctuidae), Mutsing, Morobe P., March, 1971.
- Pristhesancus* ? *nemoralis* Miller (Hem., Reduviidae)
Predator of *Leptocorisa* sp. (Hem., Alydidae), Handaritura Vill., N.P., September, 1971.
- Pristhesancus* sp. (Hem., Reduviidae)
Predator of *Nezara viridula* Linnaeus (Hem., Pentatomidae), Bubia, Morobe P.
- Pristocera* ? *rufa* Kieffer (Hym., Bethyilidae)
Parasite of larvae of *Pantorhytes szentivanyi* Marshall (Col., Curculionidae), Sangara, N.P., October, 1970.

Pristomerus sp. (Hym., Ichneumonidae)

Ex tortricid (Lep.) larvae on tea, K.A.R.S., W.H.P., 1977-8.

Pristomyrmex laevigatus Emery (Hym., Formicidae)

Ex *Pantorhytes* (Col., Curculionidae) channel with larvae within nest, Inksters Plntn, Sangara, N.P., September, 1968.

Proctotydaeus sp. (Acarina, Iolinidae)

Atractomorpha crenaticeps Blanchard (Orth., Pyrgomorphidae) external parasites on dorsal surface of abdomen immediately behind thorax, Tibi Plntn, W.H.P., December, 1970.

Prosapegus atrellus Dodd (Hym., Scelionidae)

Parasites of *Segestidea uniformis* C. Willemse (Orth., Tettigoniidae) (egg stage), Hus Is., Manus P., June, 1972; *Segestes decoratus* Redtenbacher (Orth., Tettigoniidae) egg parasite, Wakanakai Vill., W.N.B.P., March, 1974; Bubia, Morobe P., 1977.

Psen sp. (Hym., Sphecidae)

Larval or pupal parasite of *Chilo* sp. (Lep., Pyralidae), Bubia, Morobe P., August, 1968.

Pseudeucoila sp. (Hym., Eucoilidae)

Ex ginger, from eggs bred in laboratory, L.A.E.S., E.N.B.P., May/June, 1973.

Pullus ? *salomonis* Sicard (Col., Coccinellidae)

On taro - is a predator of *Maconellicoccus hirsutus* Green (Hem., Pseudococcidae) which is not recorded from taro, but other hosts may be available, L.A.E.S. E.N.B.P., December, 1973. *Pullus* was introduced to L.A.E.S. in 1968.

Quaylea whitterei Girault (Hym., Encyrtidae)

Ex unknown parasite of *Ceroplastes rubens* Maskell (Hem., Coccidae) on *Pisidium guajava*, H.A.E.S., E.H.P., April, 1977.

Rhynchium ? *mirabile* Saussure (Hym., Eumenidae)

Adults preying on *Diachrysia orichalcea* Fabricius (Lep., Noctuidae) on tomato, K.A.R.S., W.H.P., January, 1972.

Rhynchortalia wallacei Crotch (Col., Coccinellidae)

Adults and larvae preying on *Planococcus citri* Risso (Hem., Coccidae) on cocoa, Arehe, N.P., August, 1971.

Ropalidia sp. nr *decorata* Smith (Hym., Vespidae)

Predator of *Plutella xylostella* Linnaeus (Lep., Yponomeutidae) larvae, Wapenamanda, W.H.P., February, 1972.

Ropalidia maculiventris Guérin (Hym., Vespidae)

Preying on larvae of *Spodoptera* sp. (Lep., Noctuidae) and *Maruca testulalis* Geyer (Lep., Pyralidae), Bubia, Morobe P., January, 1978; predator of larvae of *Heliothis armiger* Hubner (Lep., Noctuidae) on sorghum head, Bubia, Morobe P., November, 1975.

Ropalidia nigra Smith (Hym., Vespidae)

Preying on larvae of *Tirathaba rufivena* Walker (Lep., Pyralidae) Bubia, Morobe P., January 1978.

Sarcosolomonina crinita Parker (Dipt., Sarcophagidae)

Found pupating in *Eumenes latreillei petiolaris* Schulz nest, (Hym., Eumenidae) Konedobu, C.P., May, 1970; ex dead *Pantorhytes* (Col., Curculionidae) larvae from cocoa, Vunapan, E.N.B.P., June, 1970.

Scelio sp. nr *javanicus* Roepke (Hym., Scelionidae)

Locusta migratoria Linnaeus phase *gregaria* (Orth., Acrididae) eggs, Sasiang, Morobe P., May, 1974.

Scipinia arenacea Distant (Hem., Reduviidae)

Preying on *Contarinia sorghicola* Coquillett (Dipt., Cecidomyiidae) Maralumie, Morobe P., December, 1975.

Signiphora sp. (Hym., Signiphoridae)

Parasite of *Abgrallaspis cyanophylli* Signoret (Hem., Diaspididae), K.A.R.S., W.H.P., May 1972.

Signiphora sp. (Hym., Signiphoridae)

Ex *Pseudaulacaspis pentagona* Targiotii - Tozzetti (Hem., Diaspididae) on mango, Konedobu, C.P., May, 1967.

Spalangia endius Walker (Hym., Pteromalidae)

Parasite of puparia of *Stomorphina discolor* Fabricius (Dipt., Calliphoridae) ex *Locusta migratoria* Linnaeus (Orth., Acrididae), Umi River, Morobe P., August, 1974.

Spalangia gemina Bouček (Hym., Pteromalidae)

Eggs ex ginger tissue, L.A.E.S., E.N.B.P., August, 1973.

Spathius sp. (Hym., Braconidae)

Cocoa wood attacked by *Neotermes* sp. (Isop., Kalotermitidae) and *Cocopia* sp. (Lep., Sesiidae), Paili Plntn, Marshall Lagoon, C.P., July, 1973.

Spinaria aliciae Turner (Hym., Braconidae)

Reared within dead *Thosea penthima* Turner (Lep., Limacodidae) larvae, Kapogere Agricultural Station, C.P., September, 1971; Sangara Plntn, N.P., July, 1973.

Stathmopoda sp. nr *trichopoda* Turner (Lep., Heliodinidae)

Larva predaceous on *Ceroplastes chiton* Green (Hem., Coccidae) Sangara, N.P., April, 1971.

Stomorphina discolor Fabricius (Dipt., Calliphoridae)

Larvae predaceous on eggs of *Locusta migratoria* Linnaeus (Orth., Acrididae), Leron Plains, Morobe P., June, 1974.

Suragina sp. (Dipt., Rhagionidae)

Cocoa foliage, L.A.E.S., E.N.B.P., May, 1954.

- Syrphophagus* sp. (Hym., Encyrtidae)
Parasite of syrphid puparia, Wapenamanda, W.H.P., June, 1973.
- Syrphophagus* sp. (Hym., Encyrtidae)
Ex syrphid (Dipt.) puparia on cabbage, K.A.R.S., W.H.P., September, 1976.
- Systasia* sp. (Hym., Pteromalidae)
Parasite of *Contarinia* sp. (Dipt., Cecidomyiidae) on *Sorghum nitidum*, Gusap, Morobe P., November, 1976.
- Tachinobia repanda* Bouček (Hym., Eulophidae)
Puparium *Blepharipa* sp. (Dipt., Tachinidae) ex pupa *Papilio laglaizei* Depuiset (Lep., Papilionidae), hyperparasite, Konedobu, C.P., July, 1973.
- Technomyrmex* sp. nr *cheesmanae* Donisthorpe (Hym., Formicidae)
Ex *Pantorhytes szentivanyi* ? Marshall (Col., Curculionidae), Bisi Pltn, Sangara, N.P., November, 1968.
- Telenomus* sp. nr *manolus* Nixon (Hym., Scelionidae)
Ex *Tiracola plagiata* Walker (Lep., Noctuidae) eggs, Arehe, Sangara, N.P.,
- Telenomus* sp. (Hym., Scelionidae)
Egg of *Graphium macfarlanei* Butler (Lep., Papilionidae), Konedobu, C.P., February, 1973.
- Telenomus* sp. (Hym., Scelionidae)
Egg parasite of moth ex citrus, Aviamp Pltn, W.H.P., February, 1973.
- Telenomus* sp. (Hym., Scelionidae)
Ex *Pericyma cruegeri* Butler (Lep., Noctuidae), P.A.C., N.P., May, 1973.
- Telenomus* sp. (Hym., Scelionidae)
Spodoptera (Lep., Noctuidae) ova, Bubia, Lae, Morobe P., March, 1973.
- Tetramorium bicarinatum* Nylander (Hym., Formicidae)
Preying on *Contarinia sorghicola* Coquillett (Dipt., Cecidomyiidae), Ganif, Morobe P., December, 1976.
- Tetrastichus* sp. nr *epilachne* Giraud (Hym., Eulophidae)
Parasite of larva of *Henosepilachna signatipennis* Boisduval (Col., Coccinellidae), Bubia, Morobe P., August, 1977.
- Tetrastichus* sp. (Hym., Eulophidae)
Ex *Brachymeria* sp. (Hym., Chalcididae), Popondetta, N.P., April, 1973.
- Tetrastichus* sp. (Hym., Eulophidae)
Parasite of *Contarinia* sp. (Dipt., Cecidomyiidae) on *Sorghum nitidum*, Gusap, Morobe P., March, 1977.

- Tetrastichus* sp. (Hym., Eulophidae)
Parasite of eggs of *Henosepilachna signatipennis* Boisduval (Col., Coccinellidae),
Bubia, Morobe P., August, 1977.
- Tetrastichus* sp. (Hym., Eulophidae)
Ex citrus leaf miner larvae, P.A.C., N.P., September, 1971.
- Tetrastichus* sp. (Hym., Eulophidae)
Parasite of *Nilaparvata lugens* Stål (Hem., Delphacidae), Bubia, Morobe P.,
December, 1972.
- Tetrastichus* sp. (Hym., Eulophidae)
Ex eggs *Segestes uniformis* C. Willemse (Orth., Tettigoniidae), Hus Is., Manus P.,
June, 1972.
- Therates labiatus* Fabricius (Col., Cicindellidae)
Cardamom ?, primary hosts (s) unknown, Afore, N.P., October, 1973.
- Theronia simillima* Turner (Hym., Ichneumonidae)
Ex ? Tortricidae leaf roller ex coffee seedlings, H.A.E.S., W.H.P., September/October, 1977.
- Theronia* sp. (Hym., Ichneumonidae)
Parallelia palumba Guenée (Lep., Noctuidae), P.A.C., pupa, N.P., November, 1971.
- Trichogramma* ? sp. nr *australicum* Girault (Hym., Trichogrammatidae)
Ex leaf roller eggs, P.A.C., N.P., 1971.
- Trichogramma* ? sp. nr *australicum* Girault (Hym., Trichogrammatidae)
Parasitising 90% of egg masses of *Ostrinia furnacalis* Guenée (Lep., Pyralidae).
- Trichogramma* sp. (Hym., Trichogrammatidae)
Ex eggs *Tirathaba rufivena* Walker (Lep., Pyralidae), Maralumi Est., Bubia, Morobe P., 1978.
- Trichopria* sp. (Hym., Diapriidae)
Hyperparasite of pupa of *Doleschalla* sp. (Dipt., Tachinidae), Sangara, N.P., June, November, 1971.
- Trichospilus pupivora* Ferrière (Hym., Eulophidae)
Ex pupae of *Pansepta teleturga* Meyrick (Lep., Xyloryctidae) on cocoa, Tavilo, E.N.B.P., September, 1971; ex pupae of *Tirathaba rufivena* Walker (Lep., Pyralidae), Maralumi Est., Bubia, Morobe P., December, 1975.
- Trissolcus basalis* Wollaston (Hym., Scelionidae)
Egg parasite of *Nezara viridula* Linnaeus (Hem., Pentatomidae), Bubia, Morobe P., November, 1977.
- Trissolcus painei* Ferrière (Hym., Scelionidae)
Ex *Axiagastus* (Hem., Pentatomidae) eggs, Baliora Plntn, E.N.B.P., August, 1969.

Trissolcus sp., (Hym., Scelionidae)

Ex *Nezara* (Hem., Pentatomidae) and unidentified pentatomid., Bubia, Morobe P., January, 1975/December, 1974.

Trissolcus sp. (Hym., Scelionidae)

Ex eggs of *Tectocoris diophthalmus* Thunberg (Hem., Pentatomidae) on *Hibiscus rosa-sinensis*, K.A.R.S., W.H.P., April, 1976.

Tritaxys sp. (Dipt., Tachinidae)

Ex larvae of *Mythimna loreyi* Duponchel (Lep., Noctuidae) on pasture, H.A.E.S., E.H.P., September, 1978.

Genus nr *Uchidella* Towns (Hym., Ichneumonidae)

Ex cocoons *Plutella xylostella* Linnaeus (Lep., Yponomeutidae) on cabbage, Avi, W.H.P., February, 1972.

Winthermia neowinthermioides Townsend (Dipt., Tachinidae)

Ex pupa of *Tiracola* (Lep., Noctuidae), P.A.C., N.P., August, 1971.

Xanthopimpla ochracea Smith (Hym., Ichneumonidae)

Ex ? *Phakellura indica* Saunders (Lep., Pyralidae) ex cucumber foliage, Idler's Bay, Salvation Army Garden, C.P., May, 1973.

Zygobothria ciliata Van der Wulp (Dipt., Tachinidae)

Larvae ex *Agrius convolvuli* Linnaeus (Lep., Sphingidae) on sweet potato, pupated alongside the host, K.A.R.S., W.H.P., August, 1978.

BIOLOGICAL CONTROL PROJECTS

Anaclysta ruficornis Malloch (Dipt., Muscidae)

Cattle dung, Baiyer River, W.H.P., August, 1970.

Hololepta quadridentata Fabricius (Col., Histeridae)

Introduced from Trinidad for control of *Oryctes rhinoceros* Linnaeus (Col., Scarabaeidae), dead on arrival, June, 1954.

Horogenes cerophaga Gravenhorst (Hym., Ichneumonidae)

Released at Wau, Morobe P., 1962 to control *Plutella xylostella* Linnaeus (Lep., Yponomeutidae).

Leefmansia bicolor Waterston (Hym., Encyrtidae)

Collected at New Hanover and released at Volupai Plntn, W.N.B.P. in September, 1974 during an outbreak of *Segestes decoratus* Redtenbacher (Orth., Tettigoniidae). The host population declined to a non-economic level and no parasites were collected in April and June, 1976.

Lygелater ignitus Fabricius (Col., Elateridae)

Introduced from Trinidad for control of *Oryctes rhinoceros* Linnaeus (Col., Scarabaeidae) Keravat, E.N.B.P., June, 1954.

Ophiomyia lantanae Froggatt (Dipt., Agromyzidae)

Lantana camara fruits, Girua, N.P., September, 1973; Wau, Morobe P., 1975.

Pyrearinus amplicollis Candèze (Col., Elateridae)

Introduced from Trinidad for control of *Oryctes rhinoceros* Linnaeus (Col., Scarabaeidae), Keravat, E.N.B.P., June, 1954.

Pyrophorus noctilucus Linnaeus (Col., Elateridae)

Keravat, E.N.B.P., June, 1954.

QUARANTINE INTERCEPTIONS

Acanthoscelides obtectus Say (Col., Bruchidae)

Dried bean seed pods in package from France: intercepted at Boroko Post Office, C.P., February, 1971.

Calliphora vicina Robineau - Desvoidy (Dipt., Calliphoridae)

Pupae in hessian bags from India: Port Moresby Wharf, C.P., August, 1972.

Callosobruchus maculatus Fabricius (Col., Bruchidae)

Ex green beans from Hong Kong: Rabaul, E.N.B.P., July, 1974.

Chauliognathus lugubris Fabricius (Col., Cantharidae)

Ex cut flowers from Dural, NSW: plane from Sydney, Jacksons Airport, C.P., October, 1972.

Coptotermes acinaciformis Froggatt (Isop., Rhinotermitidae)

Ex carton of apples from Brisbane, Australia: from plane, Port Moresby Airport, C.P., November, 1967.

Dermestes ater Degeer (Col., Dermestidae)

Ex dried cabbage in luggage aboard ship from Hong Kong, Rabaul, E.N.B.P., April, 1971.

Diaphorina citri Kuwayana (Hem., Psyllidae)

Kumquat shoots from Japan in ship: Port Moresby, C.P., July, 1970.

Ernobius mollis Linnaeus (Col., Anobiidae)

From ship from Singapore: Lae Wharf, Morobe P., December, 1972.

Exechia sp. (Dipt., Mycetophilidae)

Live plants from Hong Kong to Honiara: Port Moresby, C.P., September, 1970.

Gonocephalum hispidocostatum Fairmaire (Col., Tenebrionidae)

Ex cane chair on plane: Philippines, September, 1977.

Heliothis armiger Hubner (Lep., Noctuidae)

Ex flowers: Port Moresby Airport, C.P., January, 1973.

Hylastinus ? obscurus Marsham (Col., Scolytidae)

Ex riddled wood packing on ships: Lae, Morobe P., July, 1971.

Ischiopsopha esmeralda Wallace (Col., Scarabaeidae)

From aircraft from Honiara & Fiji: Port Moresby Airport, C.P., September, 1974.

Lamprogaster ? austeni Sharp (Dipt., Platystomatidae)

In plane from Honiara, Solomon Is.: Port Moresby, C.P., July, 1971.

Latheticus oryzae Waterhouse (Col., Tenebrionidae)

Flour in ship's store: Lae Wharf, Morobe P., May, 1974.

Lithurge scabrosus Smith (Hym., Megachilidae)

Dressed and bush timber: Kieta, N.S.P., July, 1971.

Murmidius sp. nr *segregatus* Waterhouse (Col., Cerylonidae)

Boring in bamboo screen: Port Moresby Wharf, C.P., November, 1970.

Myzus cerasi Fabricius (Hem., Aphididae)

Apples: Port Moresby, C.P., March, 1975.

Oryzaephilus surinamensis Linnaeus (Col., Silvanidae)

Flour etc. in ships store: Port Moresby Wharf, C.P., May, 1971.

Periplaneta americana Linnaeus (Dict., Blattidae)

On copra in hold of ship from West Irian: Rabaul, E.N.B.P., August, 1968.

Pheidole sp. (Hym., Formicidae)

Ex bamboo screen from Hong Kong: Port Moresby Harbour, C.P., November, 1970.

Phymatodes testaceus Linnaeus (Col., Cerambycidae)

Ex dunnage on ship from Los Angeles, U.S.A.: Loloho, Anewa Bay, N.S.P., August, 1974.

Pieris rapae Linnaeus (Lep., Pieridae)

Lettuce, pupa on leaf: Port Moresby, TAA, C. P., May, 1971.

Piophilidae sp. (Dipt., Piophilidae)

General ship's cargo: Port Moresby Harbour, C.P., November, 1970.

Plutella xylostella Linnaeus (Lep., Yponomeutidae)

Brassica oleracea foliage from Sydney Market: Port Moresby, on ship, C.P., August, 1973.

Psocidae (Psoc.)

Ex bamboo screen from Hong Kong: Port Moresby, on ship, C.P., November, 1970.

Sericoderus sp. (Col., Corylophidae)

Lucerne bales from Australia, on ship: Port Moresby Wharf, C.P., May, 1972.

Sericoderus sp. (Col., Corylophidae)

White rice, in residues loaded with rice from Australia: Lae, Morobe P., April, 1974.

Sitotroga cerealella Olivier (Lep., Gelechiidae)

Rice straw ex Hong Kong: Port Moresby, C.P., April, 1971.

? *Somotrachus unifasciatus* Dejean (Col., Carabidae)

Residues in hold of ship - *Alphitobius* sp. (Col., Tenebrionidae) & *Ahasverus advena* Walth (Col., Silvanidae) also collected: Port Moresby wharf, C.P., July, 1974.

Stegobium paniceum Linnaeus (Col., Anobiidae)

? barley seed in baggage of passenger from Far East: Port Moresby Airport, C.P., February, 1974.

Stromatium longicorne Newman (Col., Cerambycidae)

Ex lamp base from Hong Kong: Madang, Madang P., May, 1971.

Tapinoma minutum Mayr (Hym., Formicidae)

Bamboo screen on ship from Hong Kong: Port Moresby Wharf, C.P., November, 1970.

Tapinoma sp. (Hym., Formicidae)

Ex bamboo screen on ship from Hong Kong: Port Moresby Harbour, C.P., November, 1970.

Tephritis pelia Schiner (Dipt., Tephritidae)

Australian "everlasting" flowers from Mt. Kosciusko, via Queensland: Jacksons Airport, Port Moresby, C.P., March, 1971.

Tetranychus urticae Koch (Acarina, Tetranychidae)

Granny Smith apple, stem and calyx ends, Burns Philp, Port Moresby, C.P., October, 1974.

Tribolium castaneum Herbst (Col., Tenebrionidae)

Ex copra pod: Rabaul, E.N.B.P., August, 1968.

Typhaea stercorea Linnaeus (Col., Mycetophagidae)

Ex potatoes imported from Australia: Port Moresby, Moresby Supply Mart, C.P., June, 1971.

Urophorus humeralis Fabricius (Col., Nitidulidae)

Ex mangoes from Cairns, Queensland: Port Moresby Airport, C.P., January, 1971.

Urophorus humeralis Fabricius (Col., Nitidulidae)

Port Moresby Wharf on ship, C.P., October, 1972.

MEDICAL AND VETERINARY INSECTS

Alphitobius diaperinus Panzer (Col., Tenebrionidae)

Larvae ex ducklings in shells, Cameron High School, Alotau, Milne B.P., June, 1974.

Charitovalgus sp. nr *scorpio* Arrow (Col., Scarabaeidae)

Pierced collector's finger, Lake Murray, W.P., December, 1972.

Chrysomya saffranae Bigot (Dipt., Calliphoridae)

P.A.C., N.P., July, 1972.

Copromyza (Borborillus) marginatis Adams (Dipt., Sphaeroceridae)

Ex piggery, P.A.C., N.P., July, 1972.

Euproctis sp. indet. (Lep., Lymantriidae)

Cocoons in fallen eucalypt leaves, causing severe irritation to children, Waigani school, C.P., November, 1972.

Galleria mellonella Linnaeus (Lep., Pyralidae)

Combs of *Apis mellifera* Linnaeus (Hym., Apidae), Brandi H.S., Wewak, E.S.P., May, 1973; wax of comb of *Apis mellifera*, K.A.R.S., W.H.P., April, 1972.

Geotomus pygmaeus Dallas (Hem., Cydnidae)

Behind eyelid, Murray Barracks, C.P., October, 1977.

Haematobia irritans exigua de Meijere (Dipt., Muscidae)

On cattle, E.H.P., March, 1976.

Musca inferior Stein (Dipt., Muscidae)

On sheep & cattle, Vudal College, E.N.B.P., June, 1977; cattle dung, Baiyer River, W.H.P., August, 1970; ex maggots in cattle dung, Mt. View Estate, C.P., June, 1973.

Onthophagus compositus Lea (Col., Scarabaeidae)

Pig and chicken dung, Chivasing, Morobe P., February and November, 1973.

Onthophagus quadripustulatus Fabricius (Col., Scarabaeidae)

Pig and horse dung, Wawin, Erap, Morobe P., February and October, 1973.

Oxya gavis Walker (Orth., Acrididae)

In stomach of brown trout, Mangani River, Mendi, C.P., December, 1970.

Stomoxys calcitrans Linnaeus (Dipt., Muscidae)

Calf, Kila Kila, C.P., November, 1970.

Triatoma novaguineae Miller (Hem., Reduviidae)

At lights, Popondetta, N.P., August, 1962.

MISCELLANEOUS

- Achaea janata* Linnaeus (Lep., Noctuidae)
Flush foliage, *Sonneratia* sp., Jaba Delta Camp., N.S.P., June, 1976.
- Aesiotes* sp. ? *notabilis* Pascoe (Col., Curculionidae)
Hoop Pine, H.A.E.S., E.H.P., November, 1976.
- Apiocalus mus* Thompson (Col., Curculionidae)
Acacia sp., Gusap Airstrip, Morobe P., April, 1976.
- Balaninus* sp. (Col., Curculionidae)
Feeding on leaves of *Pipturus* sp., Frigano Sawmill, E.H.P., December, 1976.
- Calotermes domesticus* Haviland (Isop., Calotermitidae)
In log, Daru, W.P., September, 1970.
- Crossotarsus biconcavus* Schedl (Col., Platypodidae)
On *Horsfieldia sulvestris*, L.A.E.S., E.N.B.P., June, 1973.
- Cryptoderma* sp. (Col., Curculionidae)
Pipturus tree, Boikik, Afore, N.P., October, 1975.
- Dioxypterus* sp. (Col., Elateridae)
Leaf of *Pipturus* sp., Baining Area, E.N.B.P., February, 1975.
- Monolepta* sp. nr *humeralis* Weber (Col., Chrysomelidae)
Ex *Sonneratia* leaves - causing a great deal of damage, Jaba Delta, N.S.P., November, 1975.
- Monolepta* sp. nr *moluquensis* Allard (Col., Chrysomelidae)
Sonneratia leaves, Jaba Delta, N.S.P., January, 1975.
- Monophebulus* sp. (Hem., Margarodidae)
Feeding in trunk of *Terminalia kaerninbachii*, Sangara, N.P., June, 1971.
- Pseudoregma* sp. (Hem., Aphididae)
Leaf sheath of *Hornstedtia lycostoma*, Sangara, N.P., June, 1971.
- Xiphotheata moellendorfi* Flach (Col., Cerambycidae)
Pipturus, tree trunk, Baining, E.N.B.P., February, 1975.

INDEX OF INSECTS

This index includes insects, arachnids and molluscs, including insect hosts of parasites. Other animal hosts are included in the list of plant hosts. Both indices are cumulative, including the Insect Pest Surveys for the years 1967, 1968, 1969 (published in 1969, 1971 and 1973 respectively), Szent-Ivany (1959), and Szent-Ivany and Catley (1960).

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