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**LIST OF INSECT PESTS OF CULTIVATED PLANTS IN
FRENCH GUYANA**

M. Remillet

The author gives a survey of the main insect pests of cultivated plants in French Guyana. Fifty six species are counted. These insects were collected during a succession of observations carried out from March 1976 till March 1978.

It is the first time that such a study is done in this country.

We are very grateful to the Landbouwproefstation of Paramaribo which has helped us for our determinations and, in particular, we thank here Dr.J.B.M. Van Dinther and Mr.P.Segeren.

For each species we have mentioned the attacked plant, the place of the damages, the period of the attacks and the extent of these damages.

Liste des ravageurs des cultures de la Guyane Française

Nous présentons, sous forme de tableaux, les principaux ravageurs des cultures guyanaises, mis en évidence à ce jour. Cinquante six espèces ont été recensées. Les insectes ont été recueillis au cours d'une série d'observations réalisées de Mars 1976 à Mars 1978.

Un tel inventaire est le premier du genre pour la Guyana Française.

Cette étude est redevable, dans une large mesure, de l'aide prodiguée par la Station de Recherches Agronomiques de Paramaribo, et plus particulièrement par le Dr. J.B.M. van Dinther et par Mr. P. Segeren que nous tenons à remercier vivement.

Pour chaque espèce nous indiquons la plante attaquée, la localisation des dégâts, l'importance de ces dégâts, symbolisée par des croix, et enfin la période où se situe le plus haut niveau de dégâts.

*Symposium on maize and peanut, Paramaribo
Nov. 13 - 18, 1978*

Current status of banana pest control research in Jamaica

Questions by: Errol B. Whyte
Country: Barbados

- QUESTIONS:**
- 1a. Of the three pest category a. borers; b. nemacur; c. peel scarring Pests, which is the most important?
 - b. If nematode is, which chemical would you recommended.
 2. Regarding table 6 – Is the average banana wt – marketable bunch wt – or is it gross wt?

- ANSWERS:**
1. Nematodes are the most important pests of
 - a. bananas in Jamaica –
 - b. Namacur (phenaniphos)
 2. Gross weight of fruits that is weight of hands above (excluding stalk weight and weight of false hands.

Questions by: De Gras
Country: Guadeloupe

QUESTION: What about biological control research in Banana crop in Jamaica?

ANSWER: There were 4 separate attempts to control bananas borer weevil (*Cosmopolites sordidus*) using *Plesius javanus* from Fiji, in the 40th and early fifties. However these were of no consequence, though the predatory beetles were established in Jamaica. Their histerid beetles are still present in Jamaica but they do not offer any measure of control. Plans are being made to import a large number of *Plesius javanus* from Fiji and try again.
It is thought that the small samples (less than 50) brought in earlier did not include the total gene-pool of the species.

List of insect pests of cultivated plants in French Guyana

| : COLEOPTERA | | | | | |
|--------------------------------------|-----------------|-------------------|--------------------|-----------|------------|
| : INSECT | : FAMILY | : PLANT | : PERIOD | : PLACE | : DAMAGE : |
| : <i>Acalymma bivittata</i> H. | : Chrysomelidae | : Cucurbitaceae | : III, IV | : Leaves | : + |
| : <i>Carpophilus mutilatus</i> Er. | : Nitidulidae | : Guava | : Permanent | : Fruits | : + |
| : | : | : Maize | : VII, VIII, | : Ears | : + |
| : | : | : | : VII, VIII, | : Flowers | : + |
| : | : | : | : | : | : |
| : <i>Cerotoma variegata</i> F. | : Chrysomelidae | : Beans | : VI, VII, VIII, | : Flowers | : ++ |
| : | : | : | : Permanent | : Leaves | : ++ |
| : | : | : | : | : | : |
| : <i>Colaspis glabrata</i> Oliv. | : Chrysomelidae | : Cassava | : Permanent | : Leaves | : ++ |
| : | : | : | : | : | : |
| : <i>Cosmopolites sordidus</i> Germ. | : Curculionidae | : Banana | : IV, V, | : Corms | : ++ |
| : | : | : | : | : | : |
| : <i>Diabrotica sinuata</i> Oliv. | : Chrysomelidae | : Cowpea | : Permanent | : Flowers | : + |
| : | : | : Maize | : III, | : Flowers | : ++ |
| : | : | : Rice | : Permanent | : Flowers | : +++ |
| : | : | : Soya-bean | : III, | : Leaves | : +++ |
| : | : | : | : | : | : |
| : <i>Ligyris</i> spp. | : Scarabaeidae | : Taros | : | : Tubers | : + |
| : | : | : | : | : | : |
| : <i>Metamasius hemipterus</i> L. | : Curculionidae | : Banana | : VII, VIII, IX, X | : Corms | : ++ |
| : | : | : | : | : | : |
| : <i>Omothyphus morosus</i> Clark | : Chrysomelidae | : Taros | : VI, | : Tubers | : ++ |
| : | : | : | : | : | : |
| : <i>Oryaephilus surinamensis</i> L. | : Cucujidae | : Stored products | : Permanent | : | : ++ |
| : | : | : | : | : | : |
| : <i>Pachymerus nucleorum</i> F. | : Bruchidae | : Coconut | : Permanent | : Seeds | : + |
| : | : | : Palm | : Permanent | : Seeds | : ++ |
| : | : | : | : | : | : |
| : <i>Rhynchophorus palmarum</i> L. | : Curculionidae | : Coconut | : Permanent | : | : ++ |
| : | : | : | : | : | : |
| : <i>Strategus aloeus</i> L. | : Scarabaeidae | : Coconut | : Permanent | : Trunks | : + |
| : <i>Systeme s-littere</i> L. | : Chrysomelidae | : Solanaceae | : III, | : Leaves | : ++ |
| : <i>Trechyderes succinctus</i> L. | : Cerambycidae | : Beans | : I, | : Husks | : ++ |
| : <i>Tribolium</i> spp. | : Tenebrionidae | : Stored products | : Permanent | : | : ++ |

Miscellaneous – Pests, diseases and weeds

| LEPIDOPTERA | | | | | |
|---|---------------------|------------------------|-----------|--------|--------|
| INSECT | FAMILY | PLANT | PERIOD | PLACE | DAMAGE |
| <i>Agraulis vanillae</i> L. | <i>Heliconiidae</i> | <i>Passifloraceae</i> | Permanent | Leaves | + |
| <i>Brassolis sophorae</i> L. | <i>Brassolidae</i> | Coco-nut | Permanent | Leaves | +++ |
| | | Palm | Permanent | Leaves | ++ |
| <i>Castnia dedalus</i> Cr. | <i>Castniidae</i> | Coconut | Permanent | Trunks | ++ |
| | | Palm | Permanent | Trunks | ++ |
| <i>Castnia licus</i> Drury | <i>Castniidae</i> | Banana | Permanent | Trunks | + |
| | | Sugar-cane | Permanent | Stems | + |
| <i>Diaphania hyalinata</i> L. | <i>Pyralidae</i> | <i>Cucurbitaceae</i> | Permanent | Fruits | ++ |
| | | | | Leaves | + |
| | | | | | |
| <i>Diatraea saccharalis</i> F. | <i>Pyralidae</i> | Rice | Permanent | Stems | ++ |
| | | Sugar-cane | Permanent | Stems | +++ |
| <i>Erinnys alope</i> Drury | <i>Sphingidae</i> | Papaw | Permanent | Leaves | + |
| <i>Erinnys ello</i> L. | <i>Sphingidae</i> | Cassava | I, | Leaves | + |
| <i>Hedylepta indicata</i> F. | <i>Pyralidae</i> | Beans | I, | Leaves | + |
| | | Soya-Bean | I, | Leaves | + |
| <i>Mocis latipes</i> Guen. | <i>Nectuidae</i> | Herbage | Permanent | Leaves | ++ |
| | | Rice | Permanent | Leaves | + |
| <i>Othreis materna</i> L. | <i>Noctuidae</i> | Citrus | IX, | Fruits | + |
| <i>Papilio anchisiades</i> Esp. | <i>Papilionidae</i> | Citrus | Permanent | Leaves | + |
| <i>Papilio andregeus</i> Cr. | <i>Papilionidae</i> | Citrus | Permanent | Leaves | + |
| <i>Phoenicoprocta</i> spp. | <i>Amatidae</i> | Cassava | I, II, | Leaves | + |
| <i>Protoparce</i> spp. | <i>Sphingidae</i> | Tomatoes | Permanent | Leaves | + |
| <i>Pseudoplusia oo</i> Cr. | <i>Noctuidae</i> | Tomatoes | VI, | Fruits | + |
| | | | | Leaves | + |
| <i>Spodoptera frugiperda</i> J.E. Smith | <i>Noctuidae</i> | Herbage | Permanent | Leaves | ++++ |
| | | Maize | Permanent | Ears | + |
| | | | | Leaves | ++ |
| | | Rice | Permanent | Leaves | +++ |
| <i>Utetheisa orna</i> Krix L. | <i>Arctiidae</i> | <i>Crotalaria</i> spp. | Permanent | Husks | + |

List of insect pests of cultivated plants in French Guyana

| HOMOPTERA | | | | | |
|--------------------------------------|-----------------------|------------|-----------|----------|--------|
| INSECT | FAMILY | PLANT | PERIOD | PLACE | DAMAGE |
| <i>Aeneolamia flavilatera</i> Urich | <i>Cercopidae</i> | Sugar-cane | II, | Leaves | + |
| <i>Aphis gossypii</i> Glov. | <i>Aphididae</i> | Citrus | Permanent | Leaves | + |
| <i>Coccus</i> spp. | <i>Coccidae</i> | Citrus | Permanent | Branches | + |
| <i>Icerya</i> spp. | <i>Margarodidae</i> | Pigeon Pea | Permanent | Stems | ++ |
| | | Citrus | Permanent | Branches | ++ |
| | | | | Twigs | ++ |
| | | | | Leaves | ++ |
| <i>Lepidosaphes</i> spp. | <i>Diaspididae</i> | Citrus | Permanent | Branches | ++ |
| | | | | Leaves | +++ |
| | | | | Fruits | ++ |
| <i>Peregrinus maidis</i> Ashm. | <i>Delphacidae</i> | Maize | VII, | Leaves | + |
| <i>Pseudaulacaspis</i> sp. | <i>Diaspididae</i> | Papaw | II, | Leaves | ++ |
| | | | | Fruits | + |
| | | Pimento | II, | Stems | + |
| <i>Saccharicoccus sacchari</i> Ckll. | <i>Pseudococcidae</i> | Sugar-cane | Permanent | Stems | ++ |
| <i>Saissetia</i> spp. | <i>Coccidae</i> | Citrus | Permanent | Branches | + |
| <i>Toxoptera aurantii</i> Fonsc. | <i>Aphididae</i> | Citrus | Permanent | Flowers | ++ |
| | | | | Leaves | ++ |
| <i>Toxoptera citricida</i> Kirk. | <i>Aphididae</i> | Citrus | Permanent | Flowers | ++ |
| | | | | Leaves | +++ |
| | | | | Shoots | ++ |

Miscellaneous — Pests, diseases and weeds

| DIPTERA | | | | | |
|---------------------------------------|---------------------|-----------------------|-------------|---------|--------|
| INSECT | FAMILY | PLANT | PERIOD | PLACE | DAMAGE |
| <i>Anastrepha</i> spp. | <i>Trypetidae</i> | Guava | Permanent | Fruits | ++ |
| <i>latrophobia brasiliensis</i> Ruls. | <i>Cecidomyidae</i> | Cassava | Permanent | Leaves | + |
| <i>Liriomyza</i> spp. | <i>Agromyzidae</i> | Salads | Permanent | Leaves | + |
| | | <i>Cucurbitaceae</i> | Permanent | Leaves | + |
| <i>Lonchaea</i> sp. | <i>Lonchæidae</i> | Cassava | Permanent | Shoots | + |
| HETEROPTERA | | | | | |
| INSECT | FAMILY | PLANT | PERIOD | PLACE | DAMAGE |
| <i>Holymeria histrio</i> F. | <i>Coreidae</i> | <i>Passifloraceae</i> | Permanent | Fruits | + |
| <i>Mormidea</i> spp. | <i>Pentatomidae</i> | Rice | Permanent | Seeds | ++ |
| <i>Oebalus poecilus</i> Dall. | <i>Pentatomidae</i> | Rice | Permanent | Seeds | + |
| HYMENOPTERA | | | | | |
| INSECT | FAMILY | PLANT | PERIOD | PLACE | DAMAGE |
| <i>Atta</i> spp. | <i>Formicidae</i> | Citrus | Permanent | Leaves | + |
| | | Rice | Permanent | Leaves | + |
| | | Sugar-cane | Permanent | Leaves | + |
| <i>Trigona</i> spp. | <i>Apidae</i> | Beans | I, II, III, | Husks | ++ |
| | | | I, II, III, | Flowers | + |
| | | Citrus | Permanent | Flowers | + |
| | | | | Leaves | ++ |