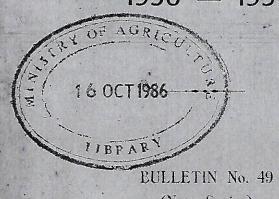
हराययययग्रायम् । वृद्धाः स्वत्यम् स्वत्यम् । वृद्धाः स्वत्यम् स्वत्यम् ।

DEPARTMENT OF AGRICULTUR JAMAICA

# INVESTIGATIONS

1950 — 1951 /



(New Series)

PRICE 2/-

Coconuts

In the coconut experiment at Orange River there was a severe at coconut aphids Cerataphis lataniae Boisd., but they were brought under

A localised outbreak of the Rhinoceros beetle (Strategus titana of the areas in which the predator was liberated during 1940-41. occurred in St. Ann.

Coffee

Outbreaks of the coffee leaf miner (Leucoptera coffeella Staint) observed in Manchester, where the crop was growing among bananas had been sprayed against Leaf Spot.

Cocoa

Aphids in the cocoa nurseries at Orange River were controlled nicotine spray. Fiddler beetles caused many deaths amongst young

Twelve other pests of minor importance were recorded as attacking trees and ornamental shrubs.

## PESTS OF STORED PRODUCTS

The only additions to the list given in Bulletin No. 47 (p.36) Triboleum ferrugineum F and Triboleum confusum Dur. infesting Laemophlocus pusillus infesting rice and Caulophilus latinasus infe

# Survey of the Host Plants of Heterodera marioni Cornu (EE. g. 2)

Observations on host plants of the Eelworm (Heterodera marioni) continued and the following should be added to the comprehensive given in the previous bulletin:

Common Name

Botanical Name

Zea mays

Sweet pea Sweet gourd

Corn

Lathyrus odoratus Lagenaria vulgaris

Family

Gramminae

#### INSECTICIDES

## Testing of New Insecticides (EE. i. 1)

New commercial insecticides containing DDT as the active ingred and sold under the trade name of Supona 'D' gave very encouraging restroduction and Trials of New Varieties of Local Food Crops (FC. g. 1)

Methyl bromide was tested in different fumigatoria operated by Plant Protection Service. Applications were carried out at ordin temperature and pressure and the results obtained were not as encourage as reports received from the United' States of America claimed for this

## BIOLOGICAL CONTROL

Investigations and Application of Results (EE, bc. 1)

ration of the predators was carried out in the parishes of St. Thon Mary, St. Ann, Trelawny, St. James, Hanover and Manchester.

The predators were found well established in the Freeman's Hall-W t area and were keeping the borer well under control. This area adjoint

Ladybird beetles were observed feeding in very large numbers on apl scale insects in different parts of the Island. Cycloneda sanguined found in very large numbers in all the Irish potato growing areas Christiana area controlling outbreaks of aphids in the potato fie s predator was also found feeding on the coconut aphid (Cerata) niae Boisd.) and on Myzus persicae Sulz. affecting citrus.

Chilocorus cacti L. was observed feeding on the coconut aphid and following scale insects: star scale (Vinsonia stellifera Westw.), Flor scale (Chrysomphalus aonidum L.) and Boisduval's scale (Diaspis l ali Sign.).

The white entomophagous fungus Cephalosporum lecanii assisted in rol of the Green scale (Coccus viridis G.) in Manchester.

Dasyscapus parvipennis Gahan, the imported Eulophid parasite of banded thrip (Selenothrips rubrocinctus Giard) was distributed in ma wes and gardens in the Liguanea Plain and in the cashew nurser win Agricultural Station.

The Chief Laboratory Assistant made a thorough check among ci ntations in Cayman Brac and found that the Eulophid parasite (Ere us serius Silv.) introduced into that Dependency during 1949 ablished itself.

Local requests for this parasite to control localised infestation of ack Fly (Aleurocanthus woglumi Ashby) were all satisfied.

In Cayman Brac the ladybird beetle (Chilocorus cacti L.) was for ell established in coconut groves preying on the destructor scale (Aspide Leguminosae structor Sign.). Cycloneda sanguinea L. was found preying on the a Curcubitaceae phis maidis Fitch. attacking maize.

#### FIELD CROPS

Importation of new varieties was on a reduced scale as many vari aported in the previous year are still undergoing trials.

Rice — 12 varieties from India, 9 from Venezuela.

Sorghum (Grain) — 4 varieties from Guadeloupe, F.W.I.

Sorghum (Fodder) — 2 varieties from St. Lucia and 1 variety British Guiana.

n St Ann occurred in St. Ann.

Coffee

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Sweet gourd	Lagenaria vulgaris	Curcubitaceae

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Sorghum (Fodder) - 2 varieties from St. Lucia and 1 variety from British Guiana.

Soya Bean - The variety Palmetto was re-introduced from the United States of America.

Vegetables — Thousand Head Kale from the United Kingdom.