

Alien invasive fruit flies in Southern Africa: Implementation of a sustainable integrated pest management program to combat their menaces



Key details

Location

Malawi, Mozambique, Zambia, Zimbabwe

Duration

Start Apr 2019

End Sep 2022

Budget

AUD 2,803,300

Commissioned organisation

International Centre of Insect Physiology and Ecology

Partners

Agriculture Research Institute of the Ministry of Agriculture and Cooperatives of Zambia; International Centre of Insect Physiology and Ecology; Ministry of Lands, Agriculture, Water, Climate and Rural Resettlement, Zimbabwe

Project Leader

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Program

Global
Livestock Systems

Project code

GP/2019/175

Overview

This project aimed to adapt and promote the wide-scale adoption of integrated pest management interventions in Malawi, Mozambique, Zambia and Zimbabwe.

Mangoes are an important fruit crop in sub-Saharan Africa as a source of nutritious food, employment, and opportunities for livelihood improvement. However, high infestation of insect pests, especially fruit flies (native and invasive), hamper mango productivity in the region.

A series of interventions such as baiting techniques, male annihilation, biopesticide application, orchard sanitation, and the use of augmentoria are being tested in different agro-ecological zones to increase their fit to specific locations.

With a specific focus on women and youth, the project team will also assess the socioeconomic impacts of

integrated pest management options alongside enhancing human and institutional capacity of partners to use the technologies. Reaching up to 4,000 mango growers, including resource-poor men and women farmers, the project is focusing on improving food and nutrition security, providing income generation opportunities and improving livelihoods of horticultural farmers.

Project outcomes

- Adopting one or more integrated pest management technology(ies) by 500,000 mango farmers.
- Increasing access to lucrative international export markets for fresh fruits.
- Informing and training stakeholders and students on integrated pest management technologies
- Reducing application of synthetic chemical insecticides
- Establishing regional networks for the implementation of pest management technologies.



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