

Objective

The aim of this project is to implement integrated pest management interventions that have been developed and tested with successful results.

The objectives are to:

- Adapt and promote wide-scale adoption of integrated pest management interventions in Malawi, Mozambique, Zambia and Zimbabwe.
- Test a series of interventions including baiting techniques, male annihilation, biopesticide application, orchard sanitation, and augmentoria (tent-like structures used to sequester infested, culled fruit and trap the pest), in different agro-ecological zones to increase their relevance to specific locations.
- Determine the effectiveness of techniques using semiochemicals, tri-trophic interaction, parasitoid modelling and mass-rearing of introduced parasitoids.
- Assess the socioeconomic impacts of integrated pest management options, particularly on women and youth.

Expected scientific results

- Development, assessment and application of new interventions to form an integrated pest management system for fruit flies in sub-Saharan mango crops.
- Increased capacity of institutional partners, and farmers in the field, to use the newly developed integrated pest management interventions.
- Reduced application of synthetic chemical insecticides.

Expected impact/outcomes

- Adoption of one or more integrated pest management technologies by 500,000 mango farmers.
- Improved food and nutrition security for sub-Saharan mango growers, including resource-poor men and women farmers.
- Provision of income generation opportunities and improved livelihoods for horticultural farmers.
- Access to lucrative export markets for fresh fruits.
- Establishment of a regional network to implement pest management technologies.

