

Research and development of integrated crop management for mango production in the southern Philippines and Australia



Key details

Location

Philippines

Duration

Start Jun 2014

End Jun 2018

Budget

AUD 973,822

Commissioned organisation

Queensland Department of Primary Industries

Partners

Davao Del Sur; Office of the Provincial Agriculturist; Provincial Agriculturist Office; Southern Philippines Agri-business and Marine and Aquatic School of Technology; University of Southern Mindanao; University of Southern Philippines; University of the Philippines at Los Banos

Project Leader

Ian Newton - Queensland Dept of Agriculture & Fisheries

Program

Horticulture

Project code

HORT/2012/019

mango farmers, through the adoption of Integrated Crop Management (ICM) in the form of 'best practice'.

The project has strong links to two other ACIAR projects, in mango postharvest (HORT/2012/098) and value chains (AGB/2012/109).

Mangoes are an economically important crop in the Philippines and Australia. Declining production yields and poor quality of fruit have been attributed to high pest and disease pressure, unproductive poorly nourished trees and the high costs of inputs.

The information, technology and linkages formed from this and previous projects were developed into a set of 'best practices' and disseminated to farmers. The project also aimed to improve capacity and training of extension and scientific staff to deliver the crop management packages.

Outcomes

The project aimed to address the R&D priorities identified within the mango industry strategic plans of the Philippines and Australia, and has the support of industry and R&D agencies in both countries. This project also complemented a number of other mango production and postharvest projects in the Philippines and Australia. ACIAR has funded a significant amount of innovative scientific research, which has benefits across many other cropping systems. However, this research is often considered high risk by industry, and as such they are often reluctant to fund such research activities.

Overview

This project addressed mango yield and quality issues for smallholder

It addressed the following research questions:

- How do we reduce fruit damage and economic losses caused by insect pests?
- How do we reduce losses due to diseases and thus improve shelf-life?
- How can we manage trees and inputs to further improve fruit quality, size and yield?
- How do we deliver the best overall farm management package with mango farmers?



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