



Australian Government
Department of Agriculture, Fisheries and Forestry

Quantifying investments in fruit fly research and development in the Asia-Pacific region

Dr Paul Vitolovich
Trade and Market Access Division

DEPARTMENT OF AGRICULTURE, FISHERIES AND FORESTRY

Role of ACIAR

- Commission research into improving sustainable agricultural production in developing countries
- Fund project related training
- Communicate the results of funded research.
- Conduct and fund development activities related to research programs
- Administer the Australian Government's contribution to the International Agricultural Research Centres

DEPARTMENT OF AGRICULTURE, FISHERIES AND FORESTRY

Global importance of fruit flies



DEPARTMENT OF AGRICULTURE, FISHERIES AND FORESTRY

ACIAR's work in the Asia-Pacific

- 11 projects focusing on the identification and control of fruit flies in the Pacific Islands, Bhutan, Papua New Guinea, Malaysia, Thailand, Vietnam and Indonesia
- 6 projects looked at postharvest treatment, use of improved temperate fruits and orchard management, supply chain improvement and integrated pest management

DEPARTMENT OF AGRICULTURE, FISHERIES AND FORESTRY



Impact of these projects

- improved biosecurity to reduce the risk of pest incursions
- improved market access for exports
- new postharvest treatments for export market access
- new field control measures
- new fruit crops for some areas
- environmental and human health benefits
- capacity building

DEPARTMENT OF AGRICULTURE, FISHERIES AND FORESTRY



Potential benefits

- improved biosecurity to reduce the risk of incursion by exotic pest fruit flies
- market access for fruit exports based on non-host status
- market access for fruit exports based on postharvest heat treatment
- field control of fruit flies with protein bait
- introduction of low-chill temperate fruit
- improved orchard management

DEPARTMENT OF AGRICULTURE, FISHERIES AND FORESTRY



Further lessons

- Scoping the size of the problem
- Estimating crop losses
- Determining fruit fly species present
- Costs associated with exotic fruit fly incursions

DEPARTMENT OF AGRICULTURE, FISHERIES AND FORESTRY



Further information

www.aciar.gov.au

DEPARTMENT OF AGRICULTURE, FISHERIES AND FORESTRY