Integrated Management of Coffee Berry Borer

Impact evaluation
(Project: CFC/ICO/02)

Common Fund for Commodities

CAB International

PROJECT COMPONENTS

- Improvement and testing of mass rearing and delivery systems for natural enemies (pathogens and parasitoids) of the CBB
- Provision of natural enemies to participating countries
- Integration of biological control technologies and other methods for cultural and chemical control to develop Integrated Pest Management (IPM) systems
- Dissemination of IPM technology/information and associated training to participating and other countries
ICO COMPOSITE PRICE

Coffee berries attacked by CBB
Control strategies

- Cultural controls
- Biological controls
  - Parasitoids
  - *Beauveria bassiana*
- Trapping/monitoring
- Chemical control

Need for several pass–harvesting (Re-re)
Differential flowering: CBB reservoir

CBB attacked by:

**BEAUVERIA BASSIANA**

**PHYMASTICHUS COFFEA**
Commercial *Beauveria bassiana*

Artisanal “Alcohol” traps
Lessons learned

- Project was complex: project management more difficult than normal
- Dip in coffee market (2000-2004) reduced the farmers' interest --> impact on the project
- Cultural control is sustainable, effective, environmentally sound, but cost may be prohibitive
- The existence of an inter-country structural working party on CBB IPM would have enhanced the project's sustainability

Recommendations

- Farmers' participatory methods should be central
- Small farmers in Central American countries that have not participated in the original project could benefit from its results and the advances that have been made since
- Indonesian Farmers need empowerment to understand & apply IPM techniques against CBB
- Continued but carefully focused testing of biological control agents in the field should be encouraged.
- Greater price incentives needed for quality
- Priority should be given, within an IPM framework, to minimizing the use of chemicals for CBB control