

# Global ICT FRUIT FLY Surveillance Project

Supported by the USAID funded Integrated Pest Management Collaborative Research Support Programme (IPM CRSP)

Creamish coloured maggots (worms) feed inside the fruit causing softening of the fruit, off-flavors, fruit-fall and spoilage



Project review meeting of collaborating institutions —2008 March

## Background

West Indian Fruit Fly (*Anastrepha obliqua*) is considered the major economic pest of soft fruits in Jamaica & most of the Caribbean. Main hosts include Mango, plums (Hog, Red & Yellow Coats, Jew), apples (Otaheite, Rose, Custard). Other *Anastrepha* species attack other fruits.

## Major Project Objectives:

1. Determine the incidence of *Anastrepha* spp.
2. Develop interactive cartography (web mapping) for pest surveillance
3. Analyze the spatial and temporal dynamics between pest incidence, ecology and management
4. Inform pest management decisions.

## Expected Outputs:

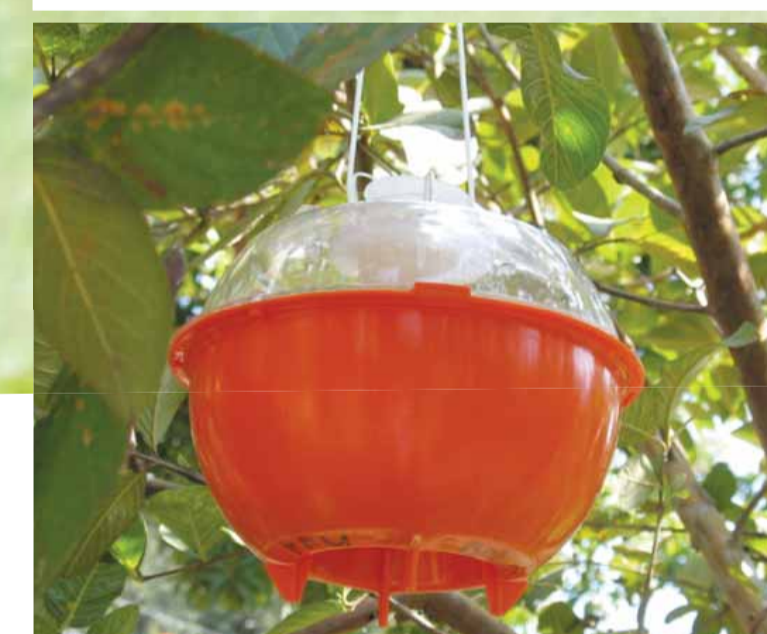
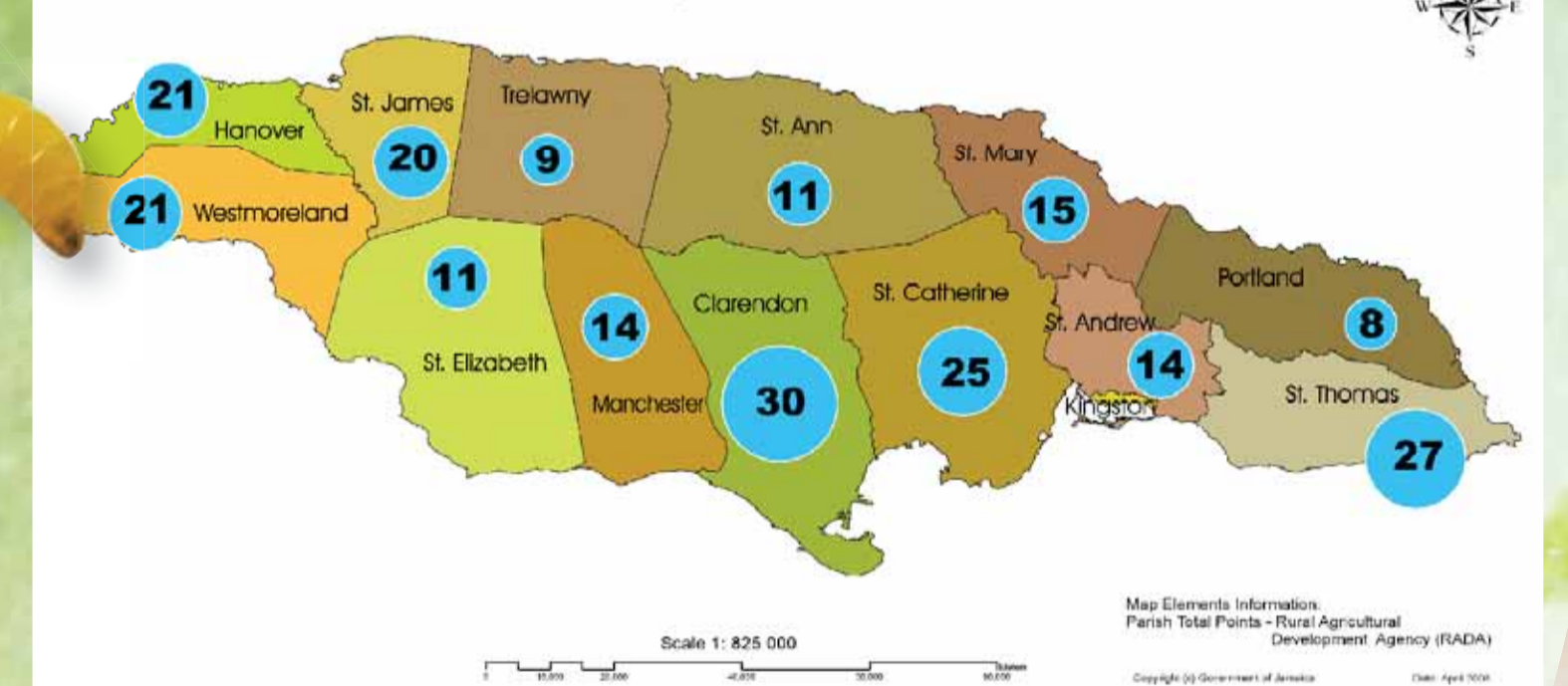
- Interactive map software
- Strengthened pest surveillance capability in RADA
- Strengthened Plant Health Surveillance & Pest Response System
- Fruit fly incidence data collected from 164 locations across Jamaica
- Stakeholder awareness and collaboration
- Caribbean regional fruit fly surveillance programme facilitated.

Project implementation led by Rural Agricultural Development Authority in collaboration with Ministry of Agriculture, Caribbean Agricultural Research & Development Institute, Penn State University, North Carolina State University and United States Dept. of Agriculture - Animal & Plant Health Inspection Service.



Fruit fly depositing eggs on fruit

IPM - CRSP Global IT Surveillance Project  
Fruit Fly Trap Distribution  
April 2008



McPhail (left) and Multilure (right) traps used for trapping flies. Traps baited with Torula yeast pellets (above right).



RADA officer servicing trap in the field



Univ. of West Indies  
catch = 43  
trap type: McPhail  
host plant: guava  
phenology: fruit maturity  
management weeds controlled  
surrounding hosts: mango,  
ackee, june plum

Interactive GIS maps developed by Penn State University showing findings, on website <http://www.caribbeanpestwatch.org/>

