MEDITERRANEAN FRUIT FLY ERADICATION PROGRAMME IN THE DOMINICAN REPUBLIC

THE IMPORTANCE OF SURVEILLANCE
RELEVANT INFORMATION ABOUT THE OUTBREAK

• The Presence of the Mediterranean Fruit Fly was reported on March 18, 2015.
• The country did not have a strong surveillance network against non-native plagues.
• The plague managed to extend to 2,053 km2 in the eastern part of the Dominican Republic.
• An immediate ban on most fruit and vegetable exports was imposed by business partners, causing an approximate loss of US $ 40 million in 9 months.
• 30,000 jobs were at risk.
• As an emergency response, the Government established the MOSCAMED-RD programme.
The Outbreak was located on the Number 1 Tourist Destination of the Caribbean Region: “Punta Cana”

Agricultural Production is Non-Existent

The production sites of goods affected by the Ban were 200+ Kilometers away of the Outbreak
WHY DID THEY BANNED OUR EXPORTS?
MY FAVORITE’S TEACHER QUOTE

“’IN GOD I TRUST
ALL OTHERS MUST BRING DATA’”
COFFEE FARMS
GETTING STARTED

- USDA/APHIS COOPERATION
- IAEA/FAO TECHNICAL ADVISORY COMMITTEE (TAC)
  - SEPTEMBER MEETING-2015
  - JANUARY MEETING-2016
  - OCTOBER MEETING-2016
- ORGANIZATIONS COOPERATION
  - (MOSCAMED PROGRAM MAGA-SAGARPA-USDA, OIRSA, IICA)
Area Wide Integrated Pest Management

AERIAL BAIT SPRAY
7,692 HECTARES
11,647 LITERS OF GF120

GROUND BAIT SPRAY
23,704 HECTARES
49,177 LITERS OF GF120

BAIT STATIONS
28,176 WITH CERATRAP
21,133 WITH GF120
1,513 COMERCIAL
50,822 TOTAL
MECHANICAL CONTROL

COLLECTION OF FRUITS AND DESTRUCTION OR PRUNNING OF HOST TREES:

MECHANICAL CONTROL
1195 TONS OF FRUIT
6,721 PRUNNED TREES MAINLY CAYA AND ALMOND

FRUIT COLLECTION  
*Terminalia catappa* (ALMOND)  
PRUNNING OF CAYA  
BLACK CAYA  
YELLOW CAYA
Aerial Release of 72 Million Flies per week in 8 blocks and 10 million ground release with a total of 42,000 has. Total of 4,116 Million flies released, 65% released by air.
EXPORTS FROM DOMINICAN REPUBLIC TO USA OF GOODS AFFECTED BY THE BAN

MILLION DOLLARS

YEAR 2017

START OF A 9 MONTH BAN

$43 $43 $48.00 $51.00 $50.00 $57.00

TOTAL INVESTMENT OF THE DOMINICAN REPUBLIC GOVT BY CONCEPT
VALUES IN US DOLLARS

$6,655,679.95

Includes 1.7 Million on Farmers Subsidies

$4,138,586.12
RESULTS

• With these actions, after only 10 months the export ban to horticultural products was lifted in early 2016.
  • Japan took a little longer and lifted it last may (Enjoy our Mangoes)
• Last Fertile Adult was detected on January 2017
• More than 36 Generations have passed since then with no adults or larvae found
• The MOSCAMED-RD programme became the MOSCAFRUT programme which has its own funds and is implementing control technology for Anaestrephas, it manages the trapping network for early detection and has an emergency response team and infrastructure for eradication of potential outbreaks.
• In accordance to ISPM for pest free areas, the trapping network has been restructured based on risk factors, placing traps in ports of entry, host areas, touristic sites, markets and sites where pest presence was recurrent.
COLECTED FRUIT SAMPLES AND C.capitata LARVAE FOUND


Highest infestation: W21 2015; 7.4 Larvae per sample

FROM W46, 2016 TO W40 2019=0 LARVAE ARE FOUND (170 CONSECUTIVE WEEKS WITHOUT LARVAE DETECTIONS)
DOWNLOAD OF ACTIVE FINDS PER WEEK 2015-2017

4,620 ACCUMULATED FERTILE FLIES

NO FERTILE FLIES SINCE WEEK 2, 2017