

# ***Integrated Pest Management (IPM) in the NENA region***

***Shoki Al-Dobai  
Regional Crop Protection Officer  
FAO Near East & North Africa Regional Office  
Cairo- Egypt***

# IPM by FAO

Is an ecosystem approach to crop production and protection that combines different management strategies and practices to grow healthy crops and minimize the use of pesticides.

FAO promotes IPM as the preferred approach to crop protection and regards it as a pillar of both sustainable intensification of crop production and pesticide risk reduction.

# RNE and IPM

**To support the Sustainable Crop Production Intensification, RNE is focusing on promoting sustainable crop protection policies through supporting the application of IPM as an ecological and sustainable approach to manage pests.**

# **FAO Flagship IPM Programmes**

# FAO Regional IPM Programme in the Near East

(10 countries, 2004-2014)

- Around 1,161 IPM/FFS has established by the Regional IPM Programme, involving more than 17,047 farmers
- An average 13% of IPM/FFS facilitators trained were women.
- 40-80% of pesticide use reduction were achieved by the Regional IPM Programme on targeted crops in different countries compared to the local practices.



# Cont.

- **Integrated Production and Pest Management Programme in Africa**
  - established 2001 with 3 countries in West Africa, now covering 10 counties, with 180 000 farmers
  - improved yields and incomes, and making substantial progress in reducing the use of chemical pesticides, through field-based training in IPPM based on the FFS approach
  - rice, vegetables, cotton, river pollution



## Cont.

- **FAO Asian Regional IPM/Pesticide Risk Reduction Programme**

- operational since 2002, involves over 15000 trainers and have trained over 3 Million farmers
- to promote and support Integrated Pest Management in vegetables by Asian smallholder farmers.
- farmer education and participatory research on IPM and pesticide risk reduction, primarily through the FFS approach
- It covers vegetables, rice and cotton



# **IPM Projects at NENA**



# TCP/RAB/3307: Management of Red Palm Weevil in NA

- Countries: Algeria, Libya, Mauritania, Morocco and Tunisia
- Starting date: March 2012 to October 2014
- The TCP aims to:
  - support the **management and eradication** strategies in infested countries (**Morocco, Libya and Tunisia**)
  - enhance capacities to **prevent its introduction** and spread in **other areas in the infested countries** as well as to other countries (**Algeria and Mauritania**).



# **Capacity Building in Integrated Plant Health Management in Saudi Arabia Kingdom (UTF/SAU/038)**

(Second phase of UTF/025/SAU).



# UTF/SAU/043/SAU

## Development of an International Date Palm Research Centre

- Main role is to **reinforce the ongoing** pheromone based RPW strategy in the Kingdom,
- **Train Saudi Officials and farmers** on advances in the control of RPW and build capacity of Saudi Arabian Researchers working on RPW in Al-Ahassa.
- **Testing and validation of new technologies** such as attract & Kill and Repellents against RPW in area wide field trials
- **Testing and recommendation of natural pesticides**



# TCP/RAB/3402 on Tuta absoluta management in the Near East (Iran, Egypt, Jordan, Lebanon and Yemen). (2013-2015).

- **48 FFSs with (857 farmers)** - Enabled farmers to control the pest using IPM and biological control tools to minimize pesticides applications.
- **More than 4600 farmers** trained on IPM of Tuta absoluta through field seminars and field days;
- **More than 600 technical staff** were trained in IPM-FFSs, biological control and PRA.
- **Females** represented **20-30%** of the beneficiaries in both categories (farmers and technical staff)



# Emergency assistance to control the red palm weevil outbreak in Yemen TCP/YEM/3404 (E)

- RPW first report in Yemen in Hadramout Governorate in May 2013 .
- FAO technical assistance was deployed to urgently support the Yemeni Government in safeguarding the date palm plantations.
- Results:
- 37 trainings held
- 210 Agri. Engs trained
- 780 farmers trained





# PREPARE AND RESPOND TO SHOCKS AFFECTING LOW RESILIENCE FARMERS AND HERDERS IN WEST BANK AND GAZA STRIP- OSRO/GAZ/401/CAN

## IPM of RPW

- Training and capacity building (Agronomists, skilled workers and farmers).
- Support the application of quarantine measures (internally and externally) .
- materials
- Introduction of new technologies of RPW control



# TCP/LEB/3502: Surveillance and management of invasive fruit flies in Lebanon

- Implementing a survey for mapping for fruit flies, identifying the fauna of fruit flies and establishment of a countrywide monitoring and management programme.
- Strengthen the national capacities towards adopting and anchoring a national sustainable strategy for fruit flies management.



**TCP/RAB/3301 Management of the Invasive Plant Silver Nightshade (*Solanum elaeagnifolium*) in the Near East (Iraq, Jordan, Lebanon and Syria)**  
**completed in 2013**

- Development in each country of a coherent policy for SE management within an IAS strategy framework;
- Review and formulation of legislative instruments for SE management and enforcement;
- Training personnel on the risk assessment and risk management; strengthening skills and knowledge for detection and surveillance of SE;
- Increasing awareness on SE issues the information exchange in and between the countries for adopting a more coordinated and cooperative partnership approach to SE management.



# Pipeline projects

- Promotion of Good Agricultural Practices for Dubas Bug *Ommatissus lybicus* Management for Improving Livelihoods of Date Palm Growers in the Sultanate of Oman UTF/OMA/013
- UTF/LIB/XXX Managing Pesticides and Pests in Libya
- UTF/LEB/xxxx: Promotion of Good Agricultural Practices and Integrated Pest Management to reduce agrochemical pollution in Upper Litani Basin and Qaraoun Lake. (to be funded by the World Bank).
- UTF/UAE/xxxx: Technical support to the Integrated Pest Management Programme of Date Palm Pests in UAE.

## **Other activities to promote of the IPM in NENA Region**

- **Developing of manuals on management of key pests in the region (Tuta absoluta, FFs, RPW, Water Hyacinth and Xylella fastidiosa)**
- **Contribution to the organization of the Regional Symposiums on the management key pests in Near East countries.**
- **Training workshops on IPM**
- **Technical and advisory assistance provided to the countries in pest management**
- **Field missions and seminars and workshops**

# EPPO/IOBC/FAO/NEPPO Joint International Symposium on management of *Tuta absoluta*

Agadir, Morocco, November 16-18, 2011



## Regional Symposium on Management of Fruit Flies in Near East Countries *Hammamet, Tunisia, 6-8 November 2012*





# Olive IPM Workshop

## Iran



# FAO Technical Assistance to UAE

- **FAO–Date Palm IPM Missions to United Arab Emirates June & September, 2014**
  - Mission findings (Trapping system, chemical treatment, eradication, control of other pests and field operations)
  - Envisaged FAO intervention to improve the management programme
- **UTF/UAE/xxxx (Technical support to the Integrated Pest Management Programme of Date Palm Pests in UAE**



# **Regional Workshop on RPW Management**

**Al Qassim, KSA**

**September 2014**

***Date Palm Research Centre  
Al-Ahassa***



***Countries:***

***KSA, Egypt, Bahrain, UAE, Yemen, Tunisia, Morocco***

***Objectives:***

***To exchange experience, new technologies and identify challenges***

# International Workshop on RPW Management



Al Riyadh, KSA  
10-12 May 2015



- Around 22 experts from (NENA region, Asia, Europe and Americas)
- Objectives:
  - To review the current RPW control and management practices; and institutional and arrangement in participating countries,
  - To exchange the experience and technologies on management of RPW between participating experts from different part of the world,
  - To propose a road map and information exchange system for the control and management of RPW.



A photograph of a large agricultural field filled with rows of young green plants, likely seedlings, planted in dark brown soil. The plants are arranged in neat, diagonal rows that recede into the distance. In the background, a line of tall palm trees stands against a pale, overcast sky. A low, light-colored concrete wall runs horizontally across the middle ground, partially obscured by the trees. To the right, a small, rustic structure with a thatched roof is visible among the trees.

**Many thanks for kind attention**