Insecticide Resistance Action Committee

Insecticide Resistance Management Philippine Update

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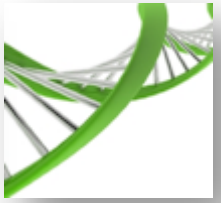
Group Leader, IRAC Philippines




IRAC Philippines

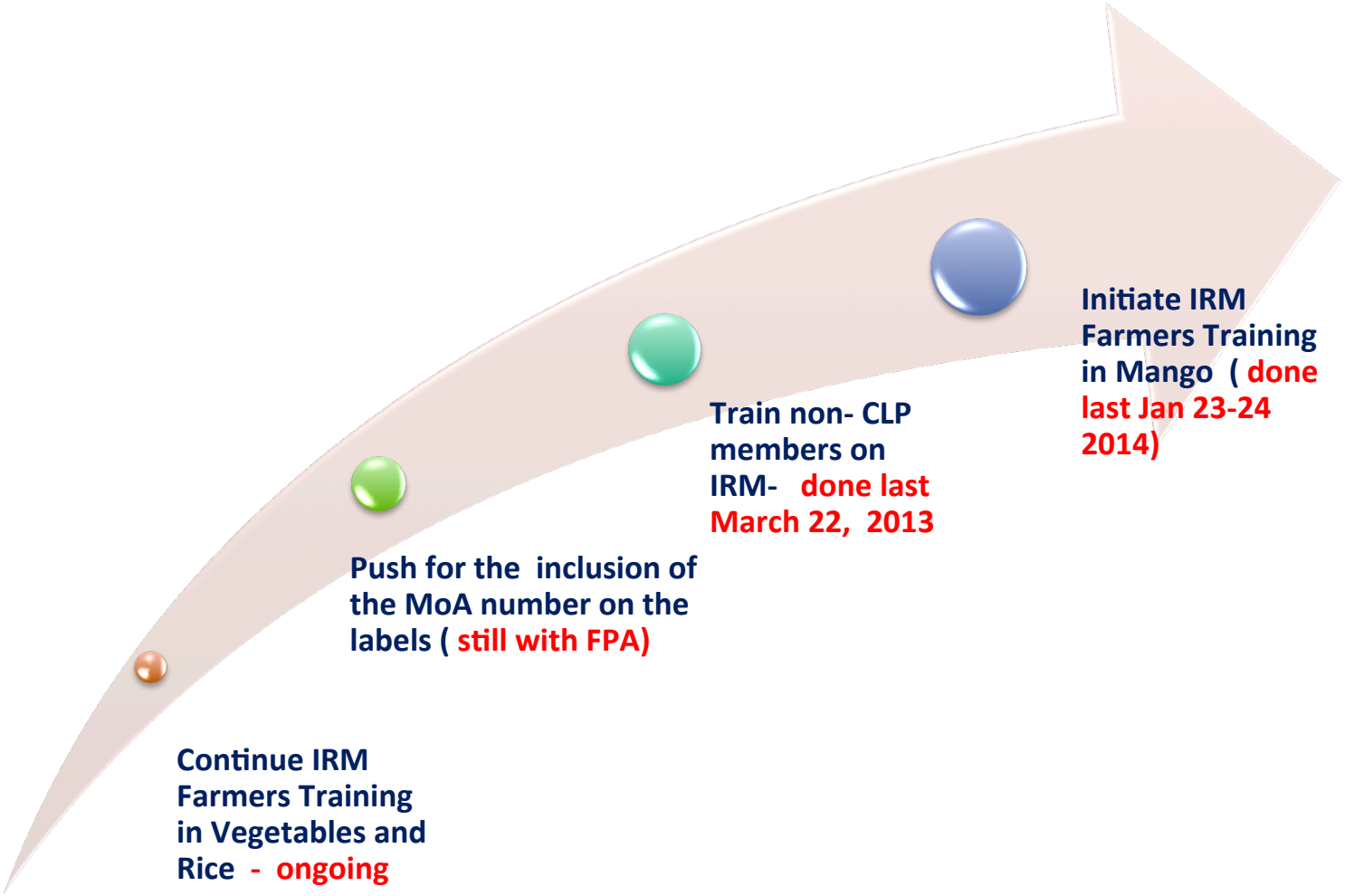
CROPLIFE MEMBERS' DIRECTORY

IRAC PHILIPPINES ACTIVITIES

Since 2011 IRAC Philippines Activities were coordinated with Croplife Philippines and other Stakeholders

- 2011 Train the Trainers
- Development of Training Materials
- 2012 Hands on Training on IPM/IRM
- 2012 IRM Farmers Training
- 2013 Training Programs

IRAC Philippines Goals*



* Presented at the 2013 IRAC Meeting at UK

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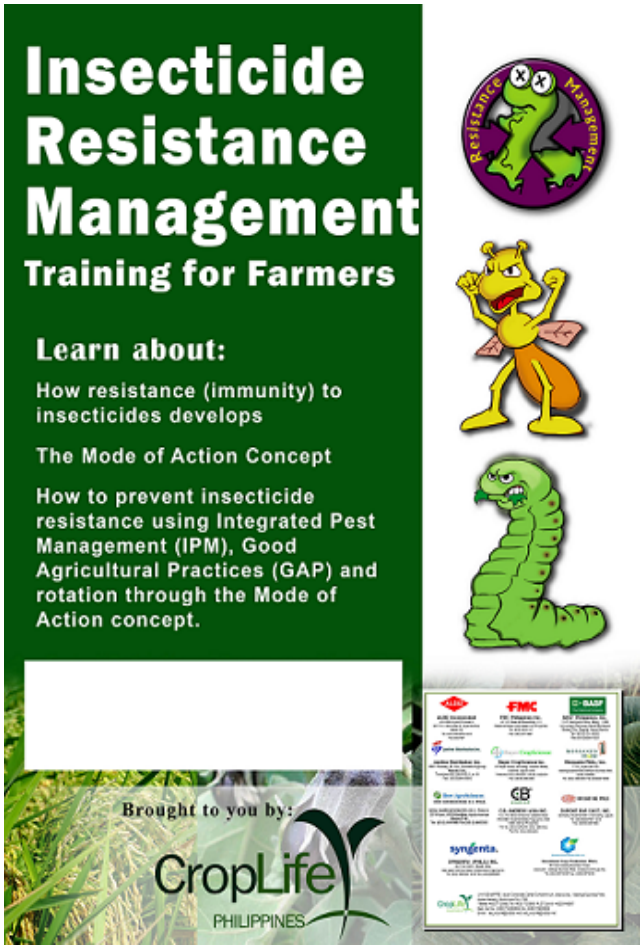
TRAIN THE FARMERS PROGRAM

2013 Train the Farmers Program

Target: 10000 vegetables and rice farmers in selected areas

130% achievement in 2013

Participating companies: All CLP members except for Monsanto



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Croplife Phils IRM 2013 Award

To motivate companies to promote IRM program in rice and vegetables, IRM award was given to 3 top companies following the criteria set by Croplife Phils

In 2013 the IRM awardees are:

1st place: Bayer CropScience
2nd place: Sinochem
3rd place : Dupont

IRM TRAINING OF NON - CROPLIFE MEMBERS

Objective:

To create awareness of IRM to other non Croplife member association

Program of Activity

FINAL DRAFT OF SEMINAR-TRAINING WORKSHOP
ON IRM FOR CPAP AND PICMA
Date: March 22, 2013
Venue: FPA Conference Hall, Diliman, Quezon City

8:00- 9:00	Registration	
9:00- 9:05	Invocation	Rosalino B. Rondon / CPAP
9:05- 9:10	National anthem	Krustle A. Hawod / CPAP
9:10- 9:20	Welcome	Ignacio Gabriel/CPAP
	Opening	Dr. Norlito Gicana/FPA
	Overview and Direction Setting	Florence Vasquez/ IRAC Phil
9:20- 9:50	IPM Principles and Practice	Dr. Candida B. Adalla /DA, Biotech PIU
9:50- 10:20	IRM Principles and Practice, with focus on mechanism of plant resistance	Dr. Emiliana N Bernardo, Prof Emeritus/UP LB
10:20- 11:30	Breakout sessions/ Coffee break	Ronald B. Arabit / IRAC Phil
11:30- 12:00	Resistance Issues in eggplant : Philippine Experience	Mario N. Navasero /UPLB
12:00 – 1:00	Lunch/ IRM video presentation	
1:00- 1:45	Maintaining Susceptibility to Vegetable Insecticides	Oscar D. Edralin / IRAC Phil
1:45- 3:00	Breakout sessions/ coffee break	Ronald B. Arabit / IRAC Phil
3:00- 3:30	Workshop	Mario N. Navasero /Oscar Edralin
3:30:4:30	Integration/ synthesis	Rizza Mae S. Mendoza /Krustle A. Hawod
4:30	Open Forum	
5:00	Closing	Aida V. Ordas /FPA

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Workshop on Insecticide Resistance
Management in Vegetables

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IRM IN MANGO

IRM in Mango

IRAC Philippines decided to expand its IRM program in mango due to several reasons as follows:

- Presence of high resistance risk pests (mango leafhopper , thrips, cecid fly)

- Since mango is a high value /export crop, farmers tend to ensure the quality of mango produce especially those for export hence use of insecticide in mango is abused

- Once an insecticide is newly registered, continuous use of the same product is practiced resulting to insecticide resistance

IRM TOT in Mango Program of Activities January 23-24, Pangasinan*, Philippines

- 2 days training (Dr Celia Medina/ UPLB, PHD Entomology, Mango expert and an advocate of resistance management)

- Lecture/classroom (1st day)

  - Development of insecticide resistance
  - Managing resistance and mode of action
  - Major pests of mango
  - Workshop

- Field work (2nd day)
- Workshop (to support IRAC Philippines aspirations)

* One of the mango areas in the Philippines

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IRAC Philippines Aspirations on Mango IRM

- Develop mango IRM Strategy following MoA rotation
- Train mango growers effectively
- Promote IRM to as many growers as possible

IRM STRATEGY IN MANGO

IRM for Mango Leafhopper

10DAFI

12 DAFI

17 DAFI

24DAFI

28 DAFI
(Full-bloom)

32 DAFI

Option 1	MOA A	MOA B	MOA C	
Option 2	MOA B	MOA A	MOA B	

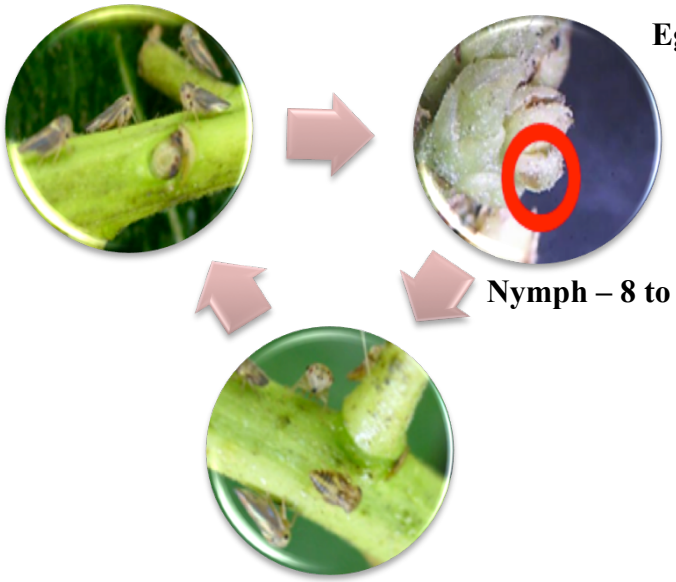
Note : MLH is critical from early flowering stage

MLH completes 1 generation during the flowering stage.

Do not apply from 28-32 DAFI (full bloom)

DAFI- days after flower induction

No pesticide application at full bloom



1 generation = 12-18 days

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IRM for Mango Cecid Fly

CROP STAGE

Option 1	MOA A	MOAB	MOA A
Option 2	MOAB	MOA A	MOAB

Note : Cecid fly is critical from 32 – 75 DAFI, Apply at 32 , 39 and 46 DAFI for best results

1 generation is 10-12 days
There are 4 generations in a mango season

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IRM for Thrips
Luzon

10 DAFI

12 DAFI

17- DAFI

24 DAFI

28 DAFI
(Full-bloom)

32 DAFI

Option 1	MOA A	MOA B	MOA A	
Option 2	MOA B	MOA A	MOA B	

Note : Thrips is critical from early flowering stage

Thrips complete 1 generation during the flowering stage

Do not apply from 28-32 DAFI (full bloom)

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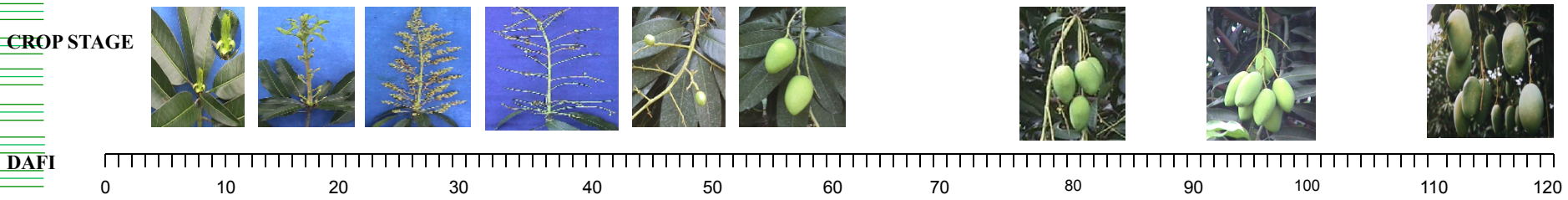
IRM for Mango Thrips Mindanao



Option 1	MOA A	MOA B	MOA A	MOA B	MOA A	
Option 2	MOA A	MOA A	MOA B	MOA B	MOA A	

Note : Thrips in Mindanao is critical from 20 – 60 DAFI

Thrips complete 2 generations from flowering to early fruit development

Do not apply insecticides at full bloom (28-32 DAFI)

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TEAM HERBICIDE


TRAINORS' TRAINING
INSECTICIDE RESISTANCE

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COMMUNICATION

Visit CropLife Philippines at Facebook to be updated on our local IRM activities

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Thank you

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