



The Cambodia Plant Pest Surveillance (Status of Late 2013)

(1).Capacity (2).Achievement & Constrains

**For the Inception Workshop on Support to Capacity Development in
Implementation of Plant Pest Surveillance & Information Management
in South-East Asian Countries,
(Bangkok, 29/11/2013)**

HEAN VANHAN, Ph.D

Deputy Director General of GDA/MAFF

MP(855)12818216/(855)97 5577880/ E-mail: heanvanhan@gmail.com



Cambodia Plant Pest Surveillance

Background

Staffing:

- involving by Plant Protection, Phytosanitary & Plant Pest Diagnosis Office/ PPSPSD/GDA (15) + PDA Supporting Staff (3-5/PDA);
- 15 GDA Staff are 1 Ph.D, 2 M.Sc, 10 B.Sc & 2 Medium Agr.Colleague.

Supporting Sources:

☐ **Government Programs:**

- Small fund to support for training by using local expert in pest surveillance of main priority crop/ consignment for export/ import

☐ **Supporting Donors:**

- **AusAID/ AADCP:** Strengthening ASEAN Plant Health Capacity Project (37709):
- AusAID/ SPS Capacity Building Programmes
- NZAID II/ Phytosanitary Capacity Building in the Mekong Region

GENERAL DIRECTORATE OF AGRICULTURE, MAFF, CAMBODIA





(1).Capacity Building of Cambodia Plant Pest Surveillance

(B.1).AusAID/AADCP: Strengthening ASEAN Plant Health Capacity Project (37709)

1.Pest List Development (Mangos):

- 2 Staffs has attend the Training workshop in HCM and Hanoi & in HCM, Vietnam (2006).
- **Pest Surveillance on Mangos (Pilot):**

Insect:

- collect sample in 2 provinces,
- Have identified 4 Species: Oriental Fruit Fly (*Dacus dorsalis*) , Mango hopper (*Idiocerus niveosparrus*), Mango Fruit Borer (*Noorda albizonalis*) & Mango Seed Weevil (*Stenochetus mangiferae*);
- Unidentified: 27 specimens (kept at the Plant Pest Diagnosis)





(1).Capacity Building of Cambodia Plant Pest Surveillance

(B.1).AusAID/AADCP: Strengthening ASEAN Plant Health Capacity Project (37709)

1.Pest List Development (Mangos):

- 2 Staffs has attend the Training workshop in HCM and Hanoi & in HCM, Vietnam (2006).
- **Pest Surveillance on Mangos (Pilot):**

Diseases:

- collect sample in 6 Districts of 3 provinces,
- Have identified: (5) Algal Leaf Spot, Anthracnose on Young Leaves, Grey Leaf Spot, Sooty Mould on Leaves & Powdery Mildew on Leaves;
- Unidentified: 160 specimens (kept at the Plant Pest Diagnosis)





(1).Capacity Building of Cambodia Plant Pest Surveillance

(B.1).AusAID/AADCP: Strengthening ASEAN Plant Health Capacity Project (37709)

2. Taxonomy Workshop 1 (Thrip) :

- **Workshop** : 2 Participants has attend the Training workshop in University of Malay (3-7 July 2006 and 5-7 September 2006)
- **Thrips Surveillance on Tomato, Chili, Mangos and Grass** (Surrounded by corn, Soybean, mungbean, Cabbage, Flowers)
 - Location: 1 Districts of Kandal Province;
 - Collection specimen on Leaves, Stem, Flowers;
 - Have identified: Thrips palmi Karny & Retithrips syriacus (Mayet)
 - Unidentified: 40 Specimens, (kept at the Plant Pest Diagnosis)





(1).Capacity Building of Cambodia Plant Pest Surveillance

(B.1).AusAID/AADCP: Strengthening ASEAN Plant Health Capacity Project (37709)

3. Taxonomy Workshop (**Cercosporoid Fungi**) :

- **Workshop** : 2 Participants has attend the Training workshop in BIOTEC Pathumthani , Bangkok (27 Nov-1 Dec 2006 and 13 - 15 Feb. 2007).
- **Cercosporoid Surveillance on Mangos, Banana and Papaya**
 - Location: 2 Districts of Kandal Province
 - Collection specimen on Leaves, Stem and Fruit;
 - Have identified: Cladosporium sp.(Mangifera indica), Carica Papaya (Corynespora cassiicola) , Cladosporium sp.(Mangifera indica), Corynespora cassiicola(Mangifera indica) & Carica papaya(Asperisporium caricae)
 - Unidentified: 48 specimens of Mangos,34 specimens of banana and 15 specimens of papaya.



GENERAL DIRECTORATE OF AGRICULTURE, MAFF, CAMBODIA





(1).Capacity Building of Cambodia Plant Pest Surveillance

(B.1).AusAID/AADCP: Strengthening ASEAN Plant Health Capacity Project (37709)



4. Taxonomy Workshop 3 (Scale Insects) :

- **Workshop** : 2 Participants has attend the Training workshop in BIOTEC Pathumthani, Bangkok (2 time in)
- **Scale Insect Surveillance** (Mangos, Long bean, Sugarcane and Papaya):
 - Location: 3 Districts of 2 Provinces,
 - Collection specimen on Long bean (Fruit, leaf, branch); Mango (Leaf, fruit) and Jasmine flower (leaf, branch).
 - Look for scale and mealybug.





(1).Capacity Building of Cambodia Plant Pest Surveillance

(B.1).AusAID/AADCP: Strengthening ASEAN Plant Health Capacity Project (37709)

5. Pest list consolidation workshop :

- Workshop : 2 Participants has attend the Training workshop in KL, Malaysia (06-08 Feb.2007)

(How to record data into the existing NPD and introduction of Excel recording)



In Total:

- Workshops and Re-entry workshops (9) can help Cambodian NPPO in Staff capacity building (10) in specific area of pest surveillance;
- Some support in pest surveillance activity (just for trainee practical), but no one pest list are resulted from this project;





(1).Capacity Building of Cambodia Plant Pest Surveillance

(B.2).AusAID: SPS Capacity Building Programmes

Training workshop :

- **Standards and Information management workshop** : 2 Participants (22-23 August 2005), Malaysia;
- **Diagnostic of sucking bug workshop** :1 Participant: (21-25 /11/2005), Malaysia
- **Workshop to improve Awareness of need for biological collection and to improve Entomological curatorial skills** : 2 Participants (24-30 /09/ 2005), Indonesia
- **Workshop on HLB, citrus greening disease** : 1 Participant: in March 2006 (1week), Malaysia
- **Workshop on diagnostic of a Group of Plant disease** : 2 Participants (5-9/11/2005), Myanmar;
- **TOT on PRA** :1 Participant (14-20 /11/2005), Vietnam;
- **Study tour on PQ** : 2 Participants (8-15 /10/ 2005), Australia;
- **Training on PRA** : 5 Participants (13-17 /03/ 2006), Cambodia





(1).Capacity Building of Cambodia Plant Pest Surveillance

(B.2).AusAID: SPS Capacity Building Programmes

Training workshop :....

- **SPS awareness workshop & Training course on Arthropod preservation curation & data management** : 2 Participants 15-20 /09/ 2006, Malaysia ;
- **SPS awareness workshop** : 2 Participants (23-25/06/2006), Lao PDR;
- **SPS awareness Plant disease specimen Preservation , and Diagnostic of key Plant Pathogenic Fungi** : 2 Participants (19 /01to 2 /02/ 2007, Thailand;
- **Workshop on PRA** : 2 Participants (14-19 /03/ 2007), Singapore ;
- **SPS awareness and Diagnostic of Lepidoptera** : 2 Participants: (17-25 /05/2007, Thailand .

13 Training Workshops/ Study Tour	26 Participants
--	------------------------

In Total:

- ✓ Many training Workshops (13) can help Cambodian NPPO of Staff capacity building (26) in broad area of Phytosanitary measures;
- ✓ Due to the lack of supporting facility, those trained staffs could not practice their knowledge.

GENERAL DIRECTORATE OF AGRICULTURE, MAFF, CAMBODIA





(1).Capacity Building of Cambodia Plant Pest Surveillance

(B.3). NZAID II Phytosanitary Capacity Building in the Mekong Region

SOM CLMV Meeting:

- SOM CLMV in Wellington & in CLMV Countries: Project Design & Technical Exchange

Training workshop :

- **In-country Training on internet-Searching information for general pest surveillance : 14**
Participants (7 for entomology and 7 for plant pathology) 01-04 Dec 2006 ;
- **In-country Training on pest surveillance planning: 12**
Participants: 28-30 May 2007.



GENERAL DIRECTORATE OF AGRICULTURE, MAFF, CAMBODIA





(1).Capacity Building of Cambodia Plant Pest Surveillance

(B.3). NZAID II Phytosanitary Capacity Building in the Mekong Region

Equipment:

- Basic Equipment for pest Surveillance, Diagnosis, and Recording.



GENERAL DIRECTORATE OF AGRICULTURE, MAFF, CAMBODIA





(2).Achievement of Cambodia Plant Pest Surveillance

Updated of Pest List of Main Priority Crop/ Consignment

- Pest list of rice crop & Milled rice (2009);
- Pest List of mango (2010),
- Pest list of Tapioca (2008);
- Pest List of corn (2010);

Ongoing of Pest Surveillance

- Some priority crop/ consignment with have potential for export & import.

Constrains:

- Limited capacity (pest diagnosis & recording) and Supporting fund/ (incl. awareness of policy maker).



GENERAL DIRECTORATE OF AGRICULTURE, MAFF, CAMBODIA





Thank You for Your Attention



For the Inception Workshop on Support to Capacity Development in
Implementation of Plant Pest Surveillance & Information Management
in South-East Asian Countries,
(Bangkok, 29/11/2013)

HEAN VANHAN, Ph.D