



**THE REVIEW OF BEST PRACTICES FOR PHYTOSANITARY PEST SURVEILLANCE IN VIETNAM**

Thailand, January 31<sup>st</sup> – February 03<sup>rd</sup>, 2012

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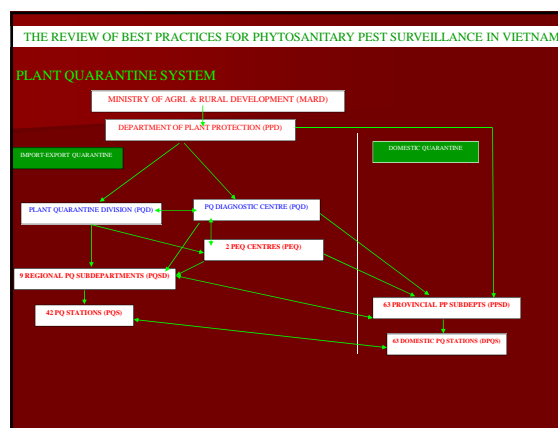
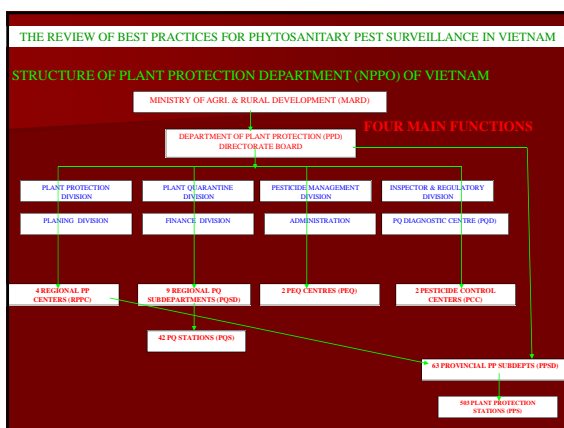


Figure 1: Ecological zone map of Agriculture in Vietnam  
(Source: SIAPP - MARD, 1997)



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**General surveillance**  
We carry out in the last century for developing the pest list

**Specific surveillance**  
We concentrate to carry out specific surveillance on major food and fest fruit crops; to specific pest (fruit fly, mango weevil, etc.)

- From 2006-2010, we completed the surveillance of 18 major food and fresh fruit crops that can be export.
- From 2008-2009: We finished the surveillance on mango weevil in Vietnam
- From 2009-2011: We do the surveillance of fruit fly belong the border with China (collaboration with Chinese Authority)
- We start to do the national surveillance on insect pests and disease of 20 major forest plants from 2010-2013.

**Surveillance on mango weevils in major mango plantations in Vietnam**

In order to expand the international markets for our agricultural products, developing the pests list for major crops, especially on fruit crops, is very necessary for doing the pest risk analysis. In the past, we have already provided the pests list of dragon, rambutan, litchi, longan and pomelo for the NPPOs of the US, Korea Republic, Australia and Japan.

Mango seed weevil [*Sternonchetus mangiferae* (Fabricius)] is a dangerous insect pest for mango crop and the importing countries always request to apply “pest free area” for this insect pest.

This insect species is considered as present in Vietnam from Crop Protection Compendium (CABI/CPC), EPPO website and China. The purpose of this surveillance is to have the list of mango weevils in Vietnam and have scientific evidence that can be used to determine the pest status of mango seed weevil in Vietnam

**1. Time of surveillance: 02 years (2008-2009)**

**2. Method of surveillance, collecting samples and surveyed area**

- Surveyed area: Son La Province (The North), Khanh Hoa province (Central region), Tien Giang and Dong Thap provinces (South).
- Surveyed time: 60 days after flowering to before harvesting
- surveyed area: at least (2 districts/province; 3 communes/district; 1 plantation/commune)
- Surveillance is carried out at interval time of 6 days/plantation

In Son La province



Figure 1. Surveyed districts in Son La province

In Khanh Hoa province

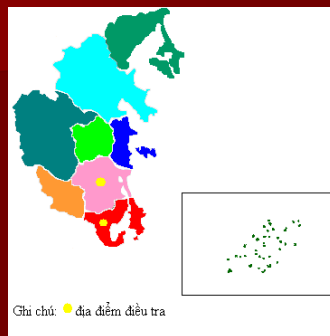


Figure 2. Surveyed districts in Khanh Hoa province

In Dong Thap province



Figure 4. Surveyed districts in Dong Thap province

Surveyed photos in Son La province



Surveyed photos in Khanh Hoa province



Surveyed photos in Tien Giang province



Surveyed photos in Dong Thap province



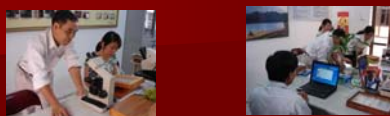
Collected samples keeping at Lab for monitoring and inspection of mango weevil



Specimen making and identification at Lab.



Internal co-identification between PPRI and PQDC experts



Co-identification between PPRI, PQDC and Landcare Research experts



Using a Remote Microscopy Session for identification of collected samples of mango weevil (Hanoi, Vietnam and Canberra, Australia)

❖ Mango seed weevil [*Stenochetus mangiferae* (Fabricius)]



Chinese reference specimen in VN



Reference specimen of Australia

❖ Mango fruit weevil [*Sternochetus frigidus* (Fabricius)]



Collected specimen in VN



Reference specimen of Australia

❖ Mango seed weevil [*Sternochetus olivieri* (Faults)]



Collected sample on Thailand  
mango fruit imported into VN



Reference specimen of Australia

Collection of Mango weevil



Results of surveillance

a/- Mango seed weevil [*Sternochetus mangiferae* (Fabricius)] is not occurred in Viet Nam;

b/- All collected samples of mango weevil on major mango plantations in Viet Nam are mango fruit weevil [*Sternochetus frigidus* (Fabricius)];

c/- The first record on occurrence of mango seed weevil [*Sternochetus olivieri* (Faults)] on imported mango fruit from Thailand into Viet Nam.

After receiving scientific evidence and surveyed report from Vietnam NPPO, CABI/CPC agreed and modified the distribution of this insect pest in Vietnam in 2009 as: **Absent, unreliable record.**

THANK YOU FOR YOUR  
ATTENTION