Experience in establishing pest-free status

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Outline

- Introduction
- Confirmation of pest free status of Khapra beetles (*Trogoderma granarium* (Everts))
- Confirmation of pest free status of Guava fruit fly (Bactrocera correcta)
- Pest Free Area (PFA) The Red Imported Fire Ant (RIFA)



Introduction

Area: 36,194 square kilometers

Population:23 million

Agricultural population:1.15 million(5%)



Introduction

- About 395 km long vertically and about 144 km in width with a total land area of around 36,000 square kilometers (about 14,400 square miles).
- 70% of the island are mountainous areas.
- Endowed with steep mountain ranges; therefore, great altitude differences occur throughout the island.
- Average cultivation area: 1.02 ha





Introduction

Because of the various landscapes, there are some pests such as Oriental Fruit Flies and etc.

Moreover, many typhoons, earthquakes occur each year, the development of agriculture is

not easy.

Different stages of development: from asparagus and banana to orchid and ornamental fish

- Khapra beetles are quarantine pests which occurred and were recorded.
- Rice exported to China is required to be fumigated by phosphine (PH₃).



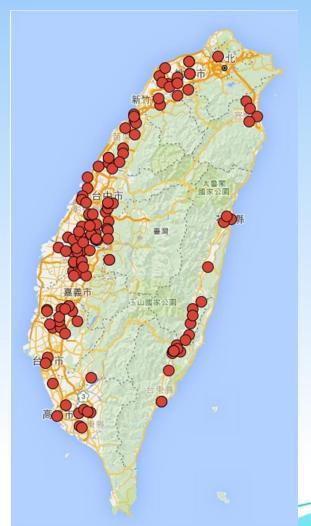




- Conducted several comprehensive detection surveys starting from 1990, and the obtained results confirm that the pests are absent.
- In order to be regarded as pest free area of the pests and to request China to exempt the quarantine treatment based on ISPM 4, a systemic detection survey is necessary.
- ISPM4
 - "The establishment and use of a PFA by an NPPO provides for the export of plants, plant products and other regulated articles from the country in which the area is situated (exporting country) to another country (importing country) without the need for application of additional phytosanitary measures when certain requirements are met."



- The detection survey was done from Oct. 2012 to Dec. 2015 (3 years and 3 months).
- Conducted at the 58 rice mills which exported to China, 48 local rice warehouses, 30 importation rice warehouses, 2 cereal importation warehouses and 2 harbor warehouses (a total of 140 places).





- The Centre for Biosciences and Agriculture International (CABI) has marked the pest status as "absent (formerly present)" in 2016 upon our request.
- Our authority is requesting that China exempt the quarantine treatment of our rice.



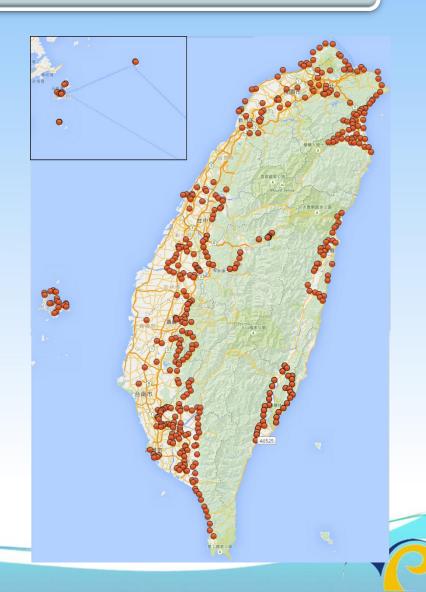
Confirmation of pest free status of Guava fruit fly (*Bactrocera correcta*)

- The Centre for Biosciences and Agriculture International (CABI) and the European and Mediterranean Plant Protection Organization (EPPO) quoted the paper published by Wen-Gang, Lu in 2010 stating that the pests occurred.
- After reviewing the paper and the resource quoted by the paper, we confirmed that the information in the paper is not correct.



Confirmation of pest free status of Guava fruit fly (*Bactrocera correcta*)

- Conducted comprehensive surveillance starting from 1989 to present at 490 places including harbors, production areas, agricultural distribution centers and markets.
- McPhail traps with Methyl Eugenol were used as detection tools.



Confirmation of pest free status of Guava fruit fly (*Bactrocera correcta*)

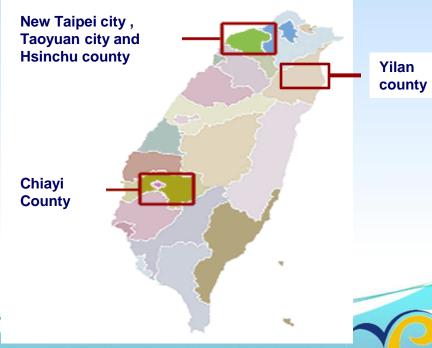
- CABI corrected its database and marked the status of the pest as "absent, invalid record" based on our surveillance data and application.
- After the correction of CABI, Japan accepted that the quarantine or control information of the pest do not need to be provided when applying for the market access by our authority.



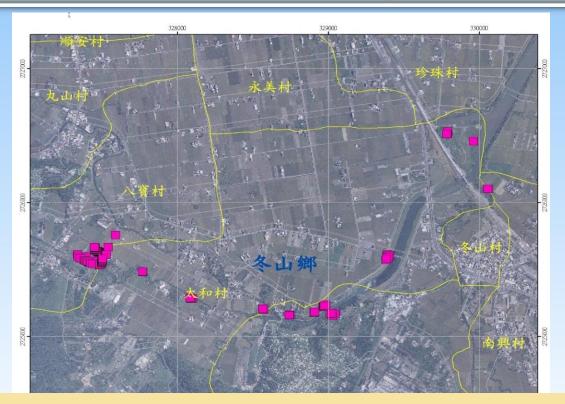
Pest Free Area (PFA) – The Red Imported Fire Ant (RIFA)

- The RIFA was first reported in 2003.
- The RIFA was subsequently found to have invaded some areas.

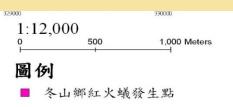




PFA Withdrawal and Reinstatement - Yilan County



In 2015, the RIFA was found to have invaded some areas of Yilan County.



Withdrawal and Reinstatement - Yilan County

- Phytosanitary measure
 - Official Control
 - Bait treatment
 - Individual mound treatment
 - Regulatory Action : Restriction on the movement of plant, plant products and soil.
 - Survey : at least 6 months.

Survey by baited traps



Individual mound treatment





Withdrawal and Reinstatement - Yilan County



In 2016.12.

Reinstatement of the PFA.

