"The World Best Plant Quarantine Service"

Korean Plant Quarantine Information Exchange

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Animal, Plant and Fisheries Quarantine and Inspection Agency
Introduction

1. Organization
2. Plant Quarantine
3. Vision of QIA
4. Pest Cartegorization
5. Plant Quarantine Operation Overview
6. Import Analysis Overview

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Plant Quarantine, a difficult and complex task

- Globalization
- Population spread
- Growth in tourism and passenger and cargo movement
- Increasing global movements of genetic material
- Shortage of qualified plant pest and disease professionals
- Physical constraints for border interception activities
- Increasingly intensive agriculture
- Climate change
- Financial constraints

A difficult and complex task
1. Organization

QIA HEADQUATER

General Service Division

Planning & Coordination Division

Emergency Response Center

Department of Livestock Products Safety
- 5 Divisions

Department of Animal Disease Control
- 4 Divisions

Department of Plant Quarantine
- 4 Divisions

Department of Fishery Products Quality and Safety
- 3 Divisions

Department of Animal and Plant Health Research
- 8 Divisions
- 1 Center

INCHEON International Airport
- 5 Divisions
- 12 Branch offices

YOUNGNAM Regional Office
- 6 Divisions
- 1 Center
- 2 Centers
- 12 Branch offices

JUNGBU Regional Office
- 6 Divisions
- 2 Centers
- 6 Branch offices

SEOUL Regional Office
- 7 Divisions
- 1 Centers
- 4 Branch offices

HONAM Regional Office
- 5 Divisions
- 1 Center
- 7 Branch offices

JEJU Regional Office
- 4 Divisions
- 1 Branch office
1. Organization

- **QIA Headquarters**
  - INCHÉON International Airport Regional Office (4 Branch offices)
  - JUNGBU Regional Office (6 Branch offices)
  - HONAM Regional Office (7 Branch offices)
  - YOUNGNAM Regional Office (1 Branch office)
  - SEOUL Regional Office (12 Branch offices)
  - JEJU Regional Office (1 Branch office)

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2. Plant Quarantine

The first step toward protecting the precious nature

- Prevention of the entry of exotic pest
- Protection of agricultural resources and natural ecology
- Enhancement of agricultural competitiveness and the stable national development
3. Vision of QIA

The World Best Plant Quarantine Service With Clients

Establishment of Client-centered Service

Simplification of Work Process

Introduction of Advanced Technology
4. Pest Cartagorization

Plant protection act (1961)

- Quarantine Pest (2,200 species)
- Prohibited Pest (72 species)
- Regulated Pest (2,249 species)
- Controlled Pest (2,128 species)
- REGULATED-NON QUARATINE PEST (49 SPECIES)
- Non Quarantine Pest
5. Plant Quarantine Operations Overview

- Quarantine arrangements

Offshore quarantine arrangements with 20 countries

Fresh fruits imported: 524,895 tons (2009), 672,058 (2010)

<table>
<thead>
<tr>
<th>Fruit</th>
<th>Countries</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orange</td>
<td>Chile, South Africa, Spain, Australia, Argentina</td>
</tr>
<tr>
<td>Table grape</td>
<td>Chile, Peru</td>
</tr>
<tr>
<td>Kiwi</td>
<td>Chile</td>
</tr>
<tr>
<td>Mango</td>
<td>Philippines, Thailand, Taiwan, Australia</td>
</tr>
<tr>
<td>Cherry</td>
<td>NZ, China, Uzbekistan, Australia</td>
</tr>
</tbody>
</table>
5. Plant Quarantine Operations Overview

- **Quarantine arrangements**

  Recent Offshore quarantine arrangements

<table>
<thead>
<tr>
<th>Dragon Fruit</th>
<th>Vietnam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Durian</td>
<td>Malaysia</td>
</tr>
<tr>
<td>Mangosteen</td>
<td>Thailand</td>
</tr>
<tr>
<td>Papaya</td>
<td>Philippines</td>
</tr>
<tr>
<td>Yellow Pitahaya</td>
<td>Columbia</td>
</tr>
</tbody>
</table>
6. Import Risk Analysis Overview

- **Market Access Request: from 35 Countries**

<table>
<thead>
<tr>
<th>Country</th>
<th>Fruit</th>
<th>Scientific Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Malaysia</td>
<td>mango</td>
<td>(Mangifera indica)</td>
</tr>
<tr>
<td>Vietnam</td>
<td>mango</td>
<td>(M. indica)</td>
</tr>
<tr>
<td>Indonesia</td>
<td>mango</td>
<td>(M. indica)</td>
</tr>
<tr>
<td>Cambodia</td>
<td>mango</td>
<td>(M. indica)</td>
</tr>
<tr>
<td>Philippines</td>
<td>mangosteen</td>
<td>(Garcinia mangostana)</td>
</tr>
<tr>
<td>Thailand</td>
<td>pomelo</td>
<td>(Citrus maxima)</td>
</tr>
<tr>
<td>Taiwan</td>
<td>papaya</td>
<td>(Carica papaya)</td>
</tr>
</tbody>
</table>
Ⅱ Administration Information System

1. Internal Portal System
2. The official website of QIA
   (Homepage—Department of Plant Quarantine)
3. Features of Information System
4. List of Information System

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1. Internal Portal System

Single log-in to the existing systems, It enables integrated management of Internal and external quarantine Information utilizing the Web Robot and provides demand-oriented Information.

- Integration of a log-in system
- Establishment of KMS (Knowledge Management System)
- A stronger data processing capacity of quarantine information
- Development: 2006
Connected System

1. Subject name: Connected System

- Plant Quarantine Information System
- Single Sign On (SSO)
- E-cert System
- Electronic Approval System for official documents
- NPQS’ Homepage

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2. The official website of QIA (Department of Plant Quarantine)
2. The official website of QIA (Department of Plant Quarantine)

At Department of Plant Quarantine's homepage, clients included all connector through the internet who want to get Information, can check a state of inspectors’ assignment about who will inspect the plant products.
3. Features of Information System

- **Development of One-Stop Online Computer Processing Systems from inspection application to Customs clearance**
  
  No need to visit the inspection office to submit the application and to receive the import certificate for import plant products to clear Customs
  
  ✓ Improve efficiency, reduce lead times and trim costs for clients

- **Development of Electronic Phytosanitary Certification System**
  
  Exchange of electronic phytosanitary certificates on the E-cert System
  - Search of Phytosanitary Certificates on the E-cert website
  - Exchange of Phytosanitary Certificates using SOAP method
  
  ✓ Reduce processing times and prevent forgery and fraud certificates

- **Establishment Single Communications Network on the Web-based**
  
  Connected all the agencies of QIA to Single Communication Network
  
  ✓ Keep the accurate data and improve the processing speed of business
# 4. List of Information System

<table>
<thead>
<tr>
<th>Category</th>
<th>Functional Classification</th>
<th>System Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quarantine &amp; Inspection</td>
<td>Central System</td>
<td>Plant Quarantine Information System</td>
</tr>
<tr>
<td></td>
<td>Application Service</td>
<td>Online Quarantine Application System</td>
</tr>
<tr>
<td></td>
<td>Potable Devices</td>
<td>Real-time &amp; on-site Process System using Mobile</td>
</tr>
<tr>
<td></td>
<td>Electronic certificates exchange</td>
<td>Electronic Certification System (E-cert)</td>
</tr>
<tr>
<td></td>
<td>Isolated cultivation management</td>
<td>Isolated Cultivation Management System</td>
</tr>
<tr>
<td>Quarantine Support</td>
<td>Business management</td>
<td>Pest Control Business Management System</td>
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<td></td>
<td>Business management</td>
<td>Heat Treatment Business Management System</td>
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<tr>
<td></td>
<td>Pest management</td>
<td>Pest Monitoring Management System</td>
</tr>
<tr>
<td></td>
<td>Tele-diagnosis</td>
<td>Pest Tele-diagnosis System</td>
</tr>
<tr>
<td></td>
<td>Pest management</td>
<td>Pest Information System (PIS)</td>
</tr>
<tr>
<td></td>
<td>Export complex management</td>
<td>Export Quarantine Supporting System</td>
</tr>
<tr>
<td>Administration Information</td>
<td>Internal Portal System</td>
<td>Plant Q. System</td>
</tr>
<tr>
<td></td>
<td>Administration assistance</td>
<td>Electronic Approval System for official documents</td>
</tr>
<tr>
<td></td>
<td>Administration assistance</td>
<td>Administration Assistance System</td>
</tr>
<tr>
<td>Public Service</td>
<td>Public relations</td>
<td>The official website of NPQS (Homepage)</td>
</tr>
<tr>
<td></td>
<td>Send e-news</td>
<td>Policy Customer Relationship Management (PCRM)</td>
</tr>
</tbody>
</table>
III  Plant Quarantine Information System

1. Information System Data Flow
2. Online Quarantine Application System
3. Real-time & on-site Process System
4. Features of PQIS
5. Using a E-cert System Data Flow
6. Methods of E-cert

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1. Information System Data Flow

Plant Quarantine Information System (PQIS)

- Register the result
- Issue a PC (Export)

Inspector (On-site)
- Register the result

Inspector (at the office)
- Register the result
- Issue a PC (Export)

Client

UNI-PASS System

QIA(NPPO)

Online Quarantine Application System

Internet

Intranet

Certificates Information (Export)

Inspection Result (Import)

Application Information

Network

Inspection status

SMS service

UNI-PASS

System

CUSTOMS

E-certificate system

Client Online Quarantine Application System

Result

Application

CUSTOMS

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2. Online Quarantine Application System

Enable clients to submit the inspection application and check the inspection status through the Online Quarantine Application System or UNI-PASS System.

- Clients have two options to submit the application via the internet.
  - OQAS made by NPQS or UNI-PASS System made by Customs
- They can check the inspection status by themselves on the websites.
  - Receive application, Disinfection, Inspection result (Approval, Destroyed, etc.)
3. Real-time & on-site Process System

Inspectors are given authority for approval using a mobile phone at the site.

- Inspectors can approve the plant products and can send the result to Customs with their mobile at the same time.
  - Clients can receive the result through the website or Short Message Service.
- It simplifies approval process and reduces processing time.
  - Clients don’t need to receive the import certificate, a hard-copy, to clear.
4. Features of PQIS

This system is in charge of the whole process of quarantine from the inspection application to Customs clearance.

It also works regarding quarantine; Isolated Cultivation Management, Prohibited goods Management, Laboratory Management, etc.

It can compile statistics using the data, a result of import and export plant quarantine since 2000.

※ PQIS : Plant Quarantine Information System
5. Using a E-cert System Data Flow

Using a Electronic Certification System (E-cert) system, the data flow involves

- **Internet**
  - Request
  - Response

- **Intranet**
  - Plant Quarantine Information System (PQIS)
    - Request
    - Network
    - Certificates Information
      - Result
      - Inspector (On-site)
        - Register the result
      - Inspector (at the office)
        - Register the result

- **XML format**

- **Importing Country**

**Note:**
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6. Methods of E-cert

Web View Access

https://ecert.npqrs.go.kr

Enable Importing country’s inspectors to inquire into the Phytosanitary Certificates that they want to view and verify on the Korean E-cert website.

- Need to internet access and logon/password to enter
- Export Certificates can be viewed, verified and downloaded in XML format
- Adoption: Taiwan, Official Pilot: Australia (November 2008 ~ May 2009)

※ This is not Electronic Phytosanitary Certification, only for reference.
International Cooperation

1. Bilateral Meeting

2. International Standards

3. Capacity Building Programs
1. Bilateral Meeting

QIA strives to resolve issues including market access and relaxation of quarantine regulations for Korea products in bilateral meeting.

Regular bilateral meetings with countries such as
- US
- Japan
- Australia
- And Canada
2. International Standards

QIA actively participates in international standards setting procedures

✓ IPPC
✓ WTO/SPS
✓ APPPC and etc.
3. Capacity Building Programs

QIA contributes to international capacity building programs to elevate national status and promote friendly ties

- ASEAN Plant Quarantine Expert Training Program IPPC
- FAO/IPPC Regional Workshop on ISPM drafts in Asia
- and etc.
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COMMUNICATE!!

Protect and Preserve

Agriculture &

Natural Environment
Thank You