I History of Quarantine and Development of Quarantine service

II General Statue of Quarantine Service

III The Contents of Main Mission for Each Part

IV Import-Export Animal & Livestock Products Quarantine Inspection
I. History of Quarantine and Development of Quarantine service
History of Quarantine

This word comes from the Italian language ‘quaranta giorni’, meaning the period of forty days (40: Jesus hardship, Noah’s ark).

40 days isolation of ships, and people prior to entering the city to prevent spread of Europe plague disease in the late 14 centuries.

plague source: rat
Definition of Quarantine

- Animal, Plant, Human quarantine are same meaning
- Strict isolation imposed to prevent the spread of disease
- All preventive works and measures is used to prevent the spread of contagious disease
First Movement of KOREA Animal Quarantine Service

- Establishment of Export Cattle Quarantine Service on Account of Spreading out of Rinderpest

- Enactment of Export Cattle Quarantine (1909)
  - Definition of Animal Disease, Quarantine Duration, Measurement during Quarantine
  - Restricted Movement of Contaminates, Regulation for Body Disinfection during Quarantine

- National Animal Quarantine Service and National Veterinary Research Institute were combined in 1998
Development of Animal Quarantine Service under Various Situations

1909～1945, Establishment of Export Cattle Quarantine Service (1909.7.10.)

1945～1960, Duty Function Frozen on Account of Korea War and Independence from Japan


1991～, Establishment of Quarantine Basic Unit
II. General statue of Quarantine service
History of QIA

- 1909.7: Export Cow Quarantine Center
- 1911.4: Contagious Bovine Serum lab
- 1912.12: Inspection of imported fruit, Trees & cherry trees
- 1962.5: National Animal Quarantine Center
- 1942.5: Livestock Hygiene Research Institute
- 1977.1: Plant Quarantine Service
- 1998.2: National Veterinary Research Institute
- 1978.4: National Plant Quarantine Service
- 1906.6: Inspection of dry sardines
- 1951.10: Central Fisheries Products Quality Inspection station
- 1996.8: National Fisheries Products Quality Inspection station
- 1998.8: National Veterinary Research & Quarantine Service
- 2007.11: National Plant Quarantine Service
- 2008.3: National Fisheries Products Quality Inspection Service
- 2011.6.15: Animal, Plant & Fisheries Quarantine & Inspection Agency
5 Departments, 29 Divisions, 5 Center for Animal Disease Control
6 Regional offices, 30 District offices
### Location & Personnel, Budget of QIA

#### HQ
- HQ (Dept. of Fishery Products Quality and Safety)
- HQ (3 Dept.)
- HQ (Dept. of Plant Quarantine)
- HQ (Dept. of Animal and Plant Health Research/Plant Quarantine Technology Center)

#### HQ (2 Dept.)
- Regional Office

#### Regional Office
- Seoul Regional Office
- Jungbu Regional Office
- Yeongnam Regional Office
- Incheon International Airport Regional Office
- Honam Regional Office
- Jeju Regional Office

#### Key Personnel:
- Total officials in special government service: 190.7 billion won (about 173 million dollars)
- Working expenses: 110.3 billion
- Basic operating expenses: 80.4 billion

<table>
<thead>
<tr>
<th>Official Grade</th>
<th>Total</th>
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<tbody>
<tr>
<td>HQ</td>
<td>HQ(2 Dept.)</td>
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<tr>
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<th>Grade</th>
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<th>High Level Officials</th>
<th>3~4th grade</th>
<th>4th grade</th>
<th>4~5th grade</th>
<th>deputy director (5th)</th>
<th>6th grade</th>
<th>7th grade</th>
<th>below 8th grade</th>
<th>Senior Researcher</th>
<th>Researcher</th>
<th>officials in special government service</th>
<th>Assistant</th>
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*Total 190.7 billion won (about 173 million dollars)*

- Working expenses: 110.3 billion
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III. The Contents of Main Mission for Each Part
## Main Mission of Each Part

<table>
<thead>
<tr>
<th>Part</th>
<th>Mission</th>
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</thead>
<tbody>
<tr>
<td>Quarantine &amp; inspection</td>
<td>Import/export Quarantine and Inspection of Animal, livestock products, Plant &amp; Fisheries Border quarantine</td>
</tr>
<tr>
<td>Animal disease control</td>
<td>Prevention and Control of the Infectious animal disease</td>
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<tr>
<td>Sanitary control</td>
<td>Sanitary management &amp; Inspection of livestock products</td>
</tr>
<tr>
<td>Animal medicine</td>
<td>Quality control of Veterinary drug and Biological drug</td>
</tr>
<tr>
<td>Animal protection</td>
<td>Animal protection and Welfare</td>
</tr>
<tr>
<td>Veterinary research</td>
<td>Research &amp; Development activities in Veterinary science</td>
</tr>
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Export/Import Quarantine & Inspection
Main Missions of Each Department

A. MIFAF
- Overall Management of Quarantine, Hygiene and Safety of Livestock Products

B. QIA Head Quarters
- Making a Quarantine and Inspection Plan for Import-Export Livestock Products
- Operating Quarantine and Inspection Policies for Animal/livestock Products
- Setting up Regulation (Guideline) of Import-Export Inspections for Regional Office
- International Cooperation of International Organization, Bilateral and Multilateral
- Management of Quarantine Facilities and Foreign Establishment

C. QIA Regional Office
- Quarantine and Inspection for Import-Export Animal/Animal Products
- Animal Disease Control, Sanitation Control of Livestock Products on the Manufacturing Plant
Characteristics of Quarantine Policy

- Act on the Prevention of Contagious Animal Disease
- Act on the Livestock Products Sanitary Management

Customs Clearance should be done After Quarantine and Inspection
Characteristics of Quarantine Policy

**Material Prohibition for Food Safety & Animal Disease Incoming**

**For a People and Animal Sake**

- Import Ban and Import Requirement on the Designated goods
- Standardization of Disinfection, Sanitation and Processing
- Main Target Disease: BSE, FMD, HPAI, Etc.
Characteristics of Quarantine Policy

Hygiene Safety Inspection for Livestock Products

- Ingredient Size, Residue Material, Pathogenic Microbial Inspection
- Check out the Expired Date and Indications

Hygiene Management of Import Harmful Livestock Products

- Consecutive 5 times Import Inspection of the fail items
Quarantine Management Policies before Import (1)

**Operation of Import Ban Regulation**

- Import Possibility only from Main Disease Cleaned Countries
- Determination of Import Permission after Carrying out Risk Evaluation [8 stage]
  - ✓ Spreading Situation of Animal Disease, Regulation, Control Ability when disease occurring
Evaluation Process of Import Risk (8 stage)

1stage : Examine the Possibility of Import Permission

2stage : Send a Animal Hygiene Questionnaire to Government of Export country

3stage : Examine the Answering Sheet for Animal Hygiene Questionnaire

4stage : On-the-Spot Survey of Animal Hygiene Statue

5stage : Making a Decision whether Permitting Import

6stage : Consulting with Export Country for Import Hygiene Condition of Animal/Livestock Products

7stage : Enactment of Import Hygiene Condition

8stage : Approval of Export Work Place and Negotiating How to Make a Quarantine Certification
**Quarantine Management Policies before Import (2)**

**Management of Export Work Place**
- Impossible to Export at the Place which is not Approved
- Check out and Permission about Facilities, Hygiene Management Standard, HACCP (Hazard Analysis Critical Control Point)

**Enactment and Operation of Import Hygiene Condition**
- The Regulation of Quarantine and Hygiene for Export Country to have to Keep
Quarantine Management Policies after Import (2)

- **Customs Clearance after Quarantine**
  - The Livestock Products Importing to Korea Can Get Through after Quarantine
  - Impossible to Go in Korea If it is not Passed Quarantine

- **Recheck Safety out through Inspection in very Detail**
  - Recheck Safety Out through Detailed Inspection after arriving Korea
Quarantine & Inspection Procedure (1)

1. Arrival of imported quarantine materials
2. On-board inspection
3. On-site inspection (Unloading)
4. Transportation
5. Deposit in quarantine facility
6. Quarantine Application
Quarantine & Inspection Procedure (2)

**Animal**
- **Epidemiological investigation**
  - check from import prohibited region
  - check the animal health requirements
- **Clinical inspection**
  - cross-check the animal and health certificate
  - individual clinical inspection
- **Laboratory test**
  - microbiological test
  - serological test
  - pathological test

**Animal products**
- **Epidemiological survey**
  - check from import prohibited region
  - check the animal health requirements
- **Clinical inspection**
  - check the condition of container
  - cross-check the cargo and health certificate
- **Laboratory test**
  - physicochemical test
  - microbiological test
  - residue test

**Judgement**
- Qualified
- Disqualified (Return, Incineration)
Check List of Livestock Processed Products (103List)

- Sensory Test: Foreign Body and Statue and so on (2)
- General Ingredient Test: Moisture and Crude Fat and so on (14)
- Quality Evaluation: Acid and Volatile Basic Nitrogen and so on (14)
- Special Ingredient Test: Tar and so on (42)
- Microbiological Test: Bacteria Number and Bacteria Growing Test and so on (15)
- Residue Test: Antibiotic Material (7) and so on (16)
- Heavy Metal Test: Lead and Tin (2)
- Radioactivity Check: Cesium and Iodine (2)
Kind of Test and Object of Import Livestock Products

**Document Inspection**
- Foreign Currency Incoming
- Material for self-Product
- To Carry out Research and Investigation
- Same Livestock Product which was Examined in Detail before

**Sensory Inspection**
- Approved by Direct General among Document Inspection
- Objects which was required in Inspection and was confiscated in the Bonded Area and has to be less than 10times of the Sampling standard

**Laboratory Inspection**
- Import Product at the First time
- Livestock Product it has problem
- Same Livestock Product which was not Passed in the Close Examination or Random Sample

**Random Sampling**
- Same Livestock Product which was Examined in Detail before
- Import to use Travel Industry
- Material for Self-Product
- Appointed Quarantine Product
Livestock Products Importing Status (‘02~’11)

- **Case**: 65,391, 65,096, 51,291, 70,608, 85,421, 84,978, 75,412, 85,859, 105,649
- **Weight**: 1,890, 1,666, 1,465, 1,730, 1,895, 2,025, 2,048, 1,936, 2,127, 2,545
Operation Of Quarantine Detector Dog

Introduction: 2001.11. 2 dogs in Incheon A.P

Benchmarking Australia System

Operation staff: trainer 1, handler 17

Number of Detector Dog: field 17, breeding 2, reserve 17

Run the dog in 36 Airline of 18 Countries

Case of Detection: getting increased gradually

(’03) 2,865 case → (’04) 4,473 → (’05) 6,249
→ (’06) 7,346 → (’07) 8,904 → (’08) 12,448
→ (’09) 13,495 → (’10) 17,927 → (’11) 16,835