QUALITY INSPECTION SERVICE IN THAILAND

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Thai government declared 2004 as the Year of Food Safety.

The Ministry of Agriculture and Cooperatives (MOAC) responsible for food safety of exported agricultural products (according to a Cabinet Directive in 2003.)

Nation Policy: Road map for food safety
The Ministry of Agriculture and Cooperatives (MOAC)

- The department of Fisheries (DOF)
- The department of Livestock Development (DLD)
- The department of Agricultural (DOA)
- The department of Agricultural Extension (DOAE)
- The department of Land Development (DLD)
- The Marketing Organization for Farmers (MOF)
- the National Bureau of Agricultural Commodity and food Standard (ACFS)
- The Department of Rice (DR)
- the use of the “Q” logo
- The ACFS is the accreditation body
- The other departments are certification bodies
<table>
<thead>
<tr>
<th>Code no.1</th>
<th>Certification body</th>
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</thead>
<tbody>
<tr>
<td>Code no.2</td>
<td>Type of certification</td>
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<tr>
<td>Code no.3</td>
<td>Standard certified</td>
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<tr>
<td>Code no.4</td>
<td>Company/exporter/farm</td>
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<tr>
<td>Code no.5</td>
<td>Name / kind / type of commodity</td>
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</tbody>
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AC - xx – xx –xxxxx – xxxx – xxx
The Department of Agriculture (DOA) responsible for food safety of exported plant agricultural products (Fruits and Vegetables) (Fresh and Processed Food)
DOA: the food safety program

4 main strategies as follows:

1. Strategy on input and raw material
2. Strategy on production at farm level
3. Strategy on production at packing house and processing factory
4. Strategy on agricultural produce.
1. Strategy on input and raw material

- Control the quality of dangerous agricultural chemicals such as pesticides, herbicides and fertilizers
- Monitor the application of chemicals and 98 pesticides were banned
- Register all agricultural chemical shops
- Certify more than 200 shops
2. Strategy on production at farm level

- Encourage farmers to be registered under DOA food safety program
- Developing GAP protocol and handbook for farmers, advisors and inspectors
- Inspect and certify farms for 29 crops (12 crops are main exporting crops)
- The GAP certifications are more than 200,000
3. Strategy on production at packing house and processing factory

- Implement GMP and HACCP for controlling production in packing houses and processing factories
- 330 packing houses and 126 processing plants for GMP certified
- HACCP certification 52 and 7 packing houses and processing plants
- The fumigation houses for fruits vegetable and orchids was inspected and certified too
4. Strategy on agricultural produce.

- Inspect and analysis for the pesticide residues of imported and exported produces and products.
- Certify products before export
  - Phytosanitary certification
  - Pesticide residues certification
  - Health certification (Microorganism, Heavy metal, Food additives)
Conformity Assessment

- System Certification Body
- Product Certification Body
- Inspection Body
- Laboratory

DOA: Certification Body (CB)
Agricultural Products Supply Chain

Farm
- Input/raw mat.
- Manufacturing
- Fishing
- Collecting house
- Packing house
- Processing Factory
- Logistic
- Retail
- Catering
- Customer

GMP
- GAP Organic/HACCP
- GMP/HACCP
- BRC/IFS/SQF
- HALAL
- JAPAN

Hygiene inspection/ Logistic/ Supply chain inspection
Service certification/ Performance evaluation

ISO 22000
ISO 9001 / ISO 14001 / OHSAS 18001 / SA 8000
Organic
Product certification
Product inspection
Traceability
OBJECTIVES of DOA GAP

Quality
Free from pesticide residues
Free from Pests
Safe from microorganism

98 pesticides were banned
Pest List / Pest Risk Analysis
E. Coli / Salmonella
DOA : GAP

1. Water sources
2. Plantation area
3. The use of Hazardous chemical substances
4. Storage, Holding and Moving the produce
5. Data recording
6. Product free from pest
7. Production system management
8. Harvest and post harvest management
Good Manufacturing Practices
Recommended International Code of Practice
- Principles of Food Hygiene

DOA : GMP

1. Premises
2. Equipment
3. Process Control
4. Maintenance and Hygiene
5. Personnel
6. Storage and Transportation
7. Record
The Ministry of Agriculture and Cooperatives (MOAC) Policy

New Road Map of Food Safety 2007-2011

R&D technology – transfer to farmers
Infrastructure production
Stadard
Farmer’s organization
DOA’s notification regulates exported vegetables
10 kinds of Fruit & Vegetable (Pesticide residue certification)

1. Okra, *Hibiscus esculentus* *Abelmoschus esculentus* L.
2. Hot chillies, *Capsicum frutescens* L.
3. Durian, *Durio Zibehinus* L.
4. Mangosteen, *Garcinia mangostana* L.
5. Mango, *Mangifera indica* L.
7. Longan, *Dimocapus longan* Lour.
10. Asparagus, *Asparagus officinallis* L.

EU, Japan, Singapore, China, Hongkong

OP, PY, Carbamate, Endosulfan
Egg plant → EU & Norway

OP, PY, Carbamate, Endosulfan
23 kinds of vegetables
(safety from Microorganism)

- Coriander
- Parsley (stinking)
- Holy basil
- Sweet basil
- Pak Ka-yang
- Mint
- Pak paew
- Spring onion
- Celery
- Chive (Leaves and Flowers)
- Acacia
- Lemongrass
- Convolvulus
- Pak wan
- Water mimosa
- Pennywort
- Pak khom
- Yard long bean
- Asparagus
- Birdi chilli

Escherichia coli (E. coli) <99 cfu
Salmonella spp. 0 (ND)

EU, Norway, Iceland
Coriander
Holy basil
Pak Ka-yang
Pak paew

Parsley (stinking)
Sweet basil
Mint
Spring onion
• Celery
• Chive (Flowers)
• Lemongrass
• Chive (leaves)
• Acacia
• Convolvulus
Pak wan
Pennywort
Yard long bean
Birdi chilli
Pak-plang

Water mimosa
Pak khom
Asparagus
Cha-plu-leave
5 groups of vegetables
(Free from pests)

Ocimum spp.
Capsicum spp.
Eryngium foetidum
Momordica charantia
Solanum melongena

EU & Norway
Encourage private sectors to set up product traceability system and using the product from GAP farm.

The Government must continued effort to promote and encourage the production of safe food
www.doa.go.th
www.acfs.go.th
www.Thaicerlist.net
www.doae.go.th
www.depthai.go.th
www.dft.moc.go.th
www.customs.go.th