European shrimps’ market and Food safety regulations

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• World Market of shrimps
  – World stakes of fishery products
  – World shrimps’ market
  – European shrimps’ market
  – Belgian shrimps’ market

• Food quality, safety problems and their effects on trade
  – European food safety law
    • Objectives
    • Institutional aspects
    • The general food law
    • The Belgian Food Safety Authority : FASFC
  – European import conditions
    • Principles
    • Specific conditions for seafood
World market of shrimps
World stakes of fishery products

Distribution of global consumption of fishery products in 2005:

- 35% CHINA
- 26% ASIA (without China)
- 11% EU 27
- 8% Japan
- 7% USA
- 6% Africa
- 5% South America
- 5% Other

Importation = 33,000 billions US$
European Union (27) = the world’s biggest importer of fish, seafood and aquaculture products

**Fischeries consumption**

**Fischeries production**

Tot Prod (2005): 141 403 138
Fishery: 93 149 792
Aquaculture: 48 149 792

- China 32 414 084
- India 2 837 551
- Vietnam 1 437 300
- Indonesia 1197 109
- Thaï1144 011

Aquaculture
5 Asian countries = 81% of world aquaculture production

Food quality, safety problems, effects on trade
World Shrimps’ Market

Shrimps = the most valuable world fishery products

<table>
<thead>
<tr>
<th>International exports of Shrimps and prawns</th>
<th>Share in total exports (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>World exports (tons)</td>
<td>825 529</td>
</tr>
<tr>
<td>US $1000</td>
<td>10 432 239</td>
</tr>
<tr>
<td>US$/kg</td>
<td>4,01</td>
</tr>
<tr>
<td>2,9</td>
<td>3,2</td>
</tr>
<tr>
<td>19,24</td>
<td>20,12</td>
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</tbody>
</table>

▶️ Production ▶️

▶️ Prices ▼

Demand ▶: particularly in EU: high value of euro vs $

Evolution of production

Evolution of word market’s prices

World Market of Shrimps
World stakes of fishery products
World shrimps’ Market
European shrimps’ Market
Belgian shrimps’ Market
Food quality, safety problems, effects on trade
European shrimps imports in 2006 =
• 600 thousands tons
• 3500 billions US$

Belgium: 5th European importer

World Market of Shrimps

World stakes of fishery products

World shrimps’ Market

European shrimps’ Market

Belgian shrimps’ Market

Food quality, safety problems, effects on trade
Belgian shrimps’ Market

- Belgian Import Quantity (2006): 53,000 thousands tons
- Belgian import Value: 360 millions US$

The 5th European Importer

- Belgian Export Quantity: 40,000 thousands tons (= national production + reexportation)
- Belgian Export Value: 290 millions US$

The 2nd European Exporter
Food quality, safety problems and their effects on trade
Food quality, safety problems and their effects on trade

- Irrigation
- Fertilization
- Harvesting
- Transport
- Storage

Pollution

No tradition of Hygiene

- Suspicion towards Food Products
- Restriction of international F.P. trade

Lack of sanitary infrastructure

Reinforcement of the control of food safety at all stages of the production chain in each country
Objectives: Consumer’s protection.

Food Safety:
state where food contains no hazard that may harm the health of the consumers in a short-term or a long-term perspective

- Science:
  → chemistry, biology, agronomy, medicine, veterinary medicine, …

- Policy
  → legislation, crisis management plan, predictive measures, …

Top priority of the European Commission
Food Safety Law in the European Union:

Institutional aspects

European Commission

Directorate-General for Health and Consumer Protection

DG SANCO

EFSA

European Food Safety Authority

Risk assessment
- Human food safety
- Animal feed safety
- Animal health and welfare
- Plant health

Risk communication

Independent scientific advice

Risk management
- Development of legislative actions
- Ensure effective control systems
- Manage international relations

Decision
Regulations /Directives

Science  ------------->  Policy

European food safety law
Institutional aspects
The General Food Law
EFSA
European conditions
Food Safety Law in the European Union:

The General Food Law

Assurance of a high level of protection of human health

From Farm to Fork!

= From source to consumer

Consideration of all stages of the food and the animal feed production chain

New emphasis on Animal feed!!!

= Consequence of the Mad Cow Disease

Responsibilities are common to all stages of production and distribution!

+ Hygiene during transport!

Food quality, safety problems, effects on trade
Food Safety Law in the European Union:

The General Food law:

General principles:

- Traceability
- Regulation
- Precautionary principle
- Rapid Alert System
- ...
Food Safety Law in the European Union:

The General Food law:

**General principles: Traceability**

An original European Food Handling system

Constraints on every food business operator:

Identify their sources and customers

- Records of where their food material originated and where it went
- Identification methods and labelling of food or feed
Food Safety Law in the European Union:

The General Food Law:

**General principles:** Regulation System

Adoption of measures that guarantee food safety

**Food Operator**

- Washing
- Disinfecting
- Peeling
- Cooking

**Good food handling practice**
- Compliance with microbiological criteria
- Compliance with temperature controls

**Self-Control regulation (HACCP system)**
- Identification of critical points on the production chain
- Monitoring procedures at these critical points
- Establishment of procedures to correct eventual critical situations

**Maintenance of the cold chain**

**National food Safety Authority**

**Official audits and inspections of the food operators**

**European Commission Food Authority:** DG SANCO

Verification of the effectiveness and the control capacity of the State Members’ Food Authority

**European food safety law**

**Institutional aspects**

**European import conditions**
**Food Safety Law in the European Union:**

The General Food law:

**General principles:** Precautionary principle

*Used when the possibility of harmful effects on health is identified but scientific uncertainty persists*

- **Adoption of health protection measures**

  - Proportional
    - to the desired level of protection
  - Non-discriminator
    - comparable situations should not be treated differently
  - Cost-effective
    - The costs of action must be greater than the costs of non-action
  - Temporary
    - Review within a reasonable period of time

**Measures**

- Public information about adverse effects
- Funding new research programs
- Use interdiction of certain products or practices
- Sale interdiction of certain foodstuff

- GM’s
- Irradiation of meat
- Beef spinal cord
- Veterinary drugs
- Pesticides

→ **the nature of the risk**

→ **the development of scientific knowledge**
  - Clarification of the scientific uncertainty
  - Review of the risk assessment

**Link to**

- Institutional aspects
- European food safety law
- The General Food Law
- European import conditions
Food Safety Law in the European Union:

The General Food Law:

General principles: The Rapid Alert System

Identification of a serious risk to the:
- human health,
- animal health
- environment

EFSA

National competent authorities

EU Commission

DG SANCO:

Estimates that such a risk cannot be satisfactorily contained by measures taken by the Member States

Emergency measures:

- Suspension of a feed or food from the market
- Interim measures restricting the products marketing or use

Special Powers of the Commission
The General Food law:

**General principles**: *And also ...*

- Respect of animal welfare and environment
- Contribution to a fair trade
- Protection consumer’s interests
  
  Prevention of:
  
  - fraudulent practices
  - adulteration of food
  - any practices which may mislead the consumer

- ...
The Belgian food safety Authority: FASFC

Federal Agency for the Safety of the Food Chain

Risk based surveillance

Controls, analyses and inspections
of Foodstuffs and their raw material

inspections, checks and audits
of Food operators

at all stages of the food chain

+ identification and registration of animals
+ traceability of products

In accordance with the General Food Law

Under the supervision of the FVO

Food and Veterinary Office,
Control body of the European Commission (DG SANCO)

Institutional aspects
The General Food Law
European food safety law
European import conditions

Food quality, safety problems, effects on trade
European import conditions

Principles

Obligation for the imported products to *fulfil the same high standards* as products from the UE Member States

EU = the world’s largest importer of food

Importations from over 200 countries

Harmonization of import rules in all EU countries
European import conditions

**Principles**

Food safety begins in farm, wherever the food comes from

- Organisation of inspection missions in the exporting country
  - Inspection of the food safety authority

- Recognition of the **competent authority** of the non-EU country

- Official European Certification of the third country’s products

Ensure credible inspection and control throughout the production chain, which covers all relevant aspects of:
- Hygiene
- Consumer Safety
- Animal health Status
European import conditions

**Principles**

**Other European importation policies**

→ Fair solution

- Participation with other countries on drawing up adequate international food safety rules
  → Same high level standards worldwide
  → Easier exportations to the EU

- Supply of technical assistance to help developing countries to meet its own standards

- Reduction of the number of deaths from contaminated food and water

- Campaigns for ‘fair trade’ products

  - foodstuffs from producers who have been paid a fair price and which have been handled and processed by workers who receive fair treatment.
European import conditions

Specific Conditions for seafood

- Requirement of **Official certification**

- **Specific hygiene requirements** on the
  - structure of vessels
  - landing sites
  - processing establishments
  - operational processes
  - freezing and storage

- **Specific control plan for aquaculture products**
  - heavy metals
  - contaminants
  - residues of pesticides
  - veterinary drugs

- Recognition of vessels and establishments

- European recognition of the third country's competent Authority

- Designation of a yearly suitable control plan

- European list of approved vessels and establishments

- Authorisation to import

- **Border inspection**
  - documentary check
  - identity check
  - physical check (sampling and analysis)

Food quality, safety problems, effects on trade

- European food safety law
- European import conditions
- Principles
- Specific conditions for seafood
Thanks for your attention