



Food Security Through Effective Food Safety Standards

IFMA Congress 2011 Methven

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Food Safety – The Global Issue

Source-WHO 2009, World Bank and UK Food Standards Agency

World

- In 1998 1.8 million children in developing countries (excluding China) died from diarrhoeal disease originated in food and water
- 1 in 3 in industrialised countries may be affected by food borne illness each year

USA

- Each year in USA over 76 million cases of food borne illness occur resulting in 325000 hospitalizations and 5000 death
- 1.9 m who test positive for a specific pathogen
- 12.9 m who visit a physician but are not tested
- \$5.6 billion in economic costs to the US every year

Australia

In Australia 11500 cases of food poisoning each day



1 million cases, 20,000 hospitalisations and 500 deaths





Food Borne Illness in the UK

Source- UK Food Standards Agency

% Cases		% Deaths (500 deaths)	
Campylobacter	80%	Listeria	35%
Clostridium	13%	Salmonella	22%
Salmonella	7%	Campylobacter	21%
E.Coli 0157	0.3%	Clostridium	15%
Listeria	0.1%	E.Coli 0157	7%





Recent Large US Multi-State Outbreaks of Foodborne Infections 2006-2010 (n=28)

Source: CDC

2006 - E. coli O157 and bagged spinach

2006 - E. coli O157 and shredded lettuce (restaurant chain A)

2006 - E. coli O157 and shredded lettuce (restaurant chain B)

2006 - Botulism and commercial pasteurized carrot juice

2006 - Salmonella and fresh tomatoes

2007 - E. coli O157 and frozen pizza

2007 - Salmonella and peanut butter

2007 - Salmonella and a vegetarian snack food

2007 - Salmonella and dry dog food

2007 - Salmonella and microwaveable pot pies

2007 - Salmonella and dry puffed breakfast cereal

2007 - E. coli O157 and ground beef

2007 - Botulism and canned chili sauce

2008 - Salmonella and cantaloupe

2008 - E. coli O157 and ground beef

2008 - Salmonella and fresh produce items

2009 - Salmonella and peanut butter containing foods

2009 - Salmonella and imported white and black pepper

2009 - Salmonella and alfalfa sprouts

2009 - E. coli O157 and prepackaged cookie dough

2009 - Multidrug resistant Salmonella and ground beef (x2)

2009 - E. coli O157 and blade tenderized steaks

2009 - Salmonella and salami made with contaminated pepper

2010 - E. coli O145 and romaine lettuce

2010 - Salmonella and alfalfa sprouts

2010 - Salmonella and frozen meals

2010 - Salmonella and shell eggs

2010 - Salmonella and alfalfa sprouts





Some Recent Large US Multi-State Outbreaks of Foodborne Infections 2006-2010 (n=28)

Source: CDC 2006 - E. coli O157 and bagged spinach 2006 - E. coli O157 and shredded lettuce (restaurant chain A) 2006 - E. coli O157 and shredded lettuce (restaurant chain B) 2006 - Botulism and commercial pasteurized carrot juice 2006 - Salmonella and fresh tomatoes 2007 - E. coli O157 and frozen pizza 2007 - Salmonella and peanut butter 2007 - Salmonella and a vegetarian snack food 2007 - Salmonella and dry dog food 2007 - Salmonella and microwaveable pot pies "Ingredient Driven" 2007 - Salmonella and dry puffed breakfast cereal Outbreaks (n=10) 2007 - E. coli O157 and ground beef 2007 - Botulism and canned chili sauce 2008 - Salmonella and cantaloupe 2008 - E. coli O157 and ground beef 2008 - Salmonella and fresh produce items 2009 - Salmonella and peanut butter containing foods 2009 - Salmonella and imported white and black pepper 2009 - Salmonella and alfalfa sprouts 2009 - E. coli O157 and prepackaged cookie dough 2009 - Multidrug resistant Salmonella and ground beef (x2)





2010 - *E. coli* O145 and romaine lettuce 2010 - *Salmonella* and alfalfa sprouts

2009 - E. coli O157 and blade tenderized steaks

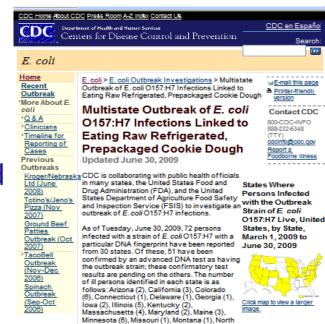
2009 - Salmonella and salami made with contaminated pepper



10 US Food Safety Incidents

10 new food vehicles identified in multistate outbreaks since 2006:

- bagged spinach
- carrot juice
- peanut butter
- broccoli powder on a snack food
- dog food
- pot pies/frozen meals
- canned chili sauce
- hot peppers
- pepper
- raw cookie dough



Carolina (2), New Hampshire (2), New Jersey (1), Nevada (2), New York (1), Ohio (3),

Oklahoma (1), Oregon (1), Pennsylvania (2),

III persons range in age from 2 to 65 years; however, 65% are less than 19 years old; 71%

are female. Thirty-four persons have been hospitalized, 10 developed hemolytic uremic syndrome (HUS); none have died. Reports of these infections increased above the expected

(2), Washington (6), and Wisconsin (1).

baseline in May and continue into June.

South Carolina (1), Texas (3), Utah (4), Virginia

gE-mall this page

Contact CDC

888-232-6348

Infections with the

coli O157:H7 By

Date of Report to PulseNet

Click map to view a larger

Outbreak Strain of E



Potential Issues Facing the Food Industry

- Microbiological bacteria and viruses
- Zoonoses
- Chemicals environmental and migration e.g. dioxins, PCB's, Heavy Metals
- Physical Adulteration- melamine
- Poor industrial practice- e.g. Nitrofens, acrylamide, mycotoxins





Food Chain Threats

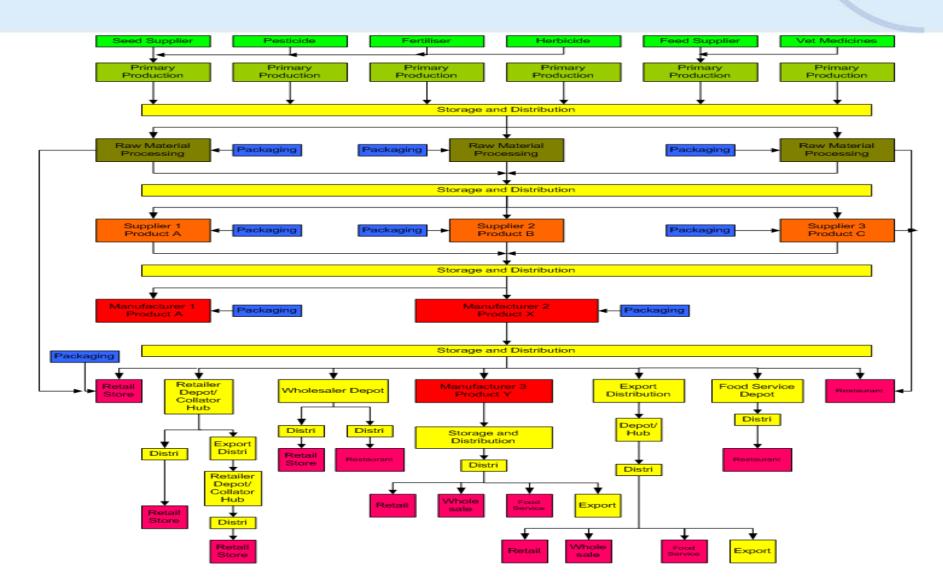
- the understanding of risk e.g. the presence of low level contamination
- the understanding of food issues by consumers e.g. GM
- poor or low level levels of expertise at the primary level of supply
- technical understanding and control of the supply chain
- globalisation of food supply



possible lowering of standards of control



The Supply Chain Labyrinth



The Crisis in Confidence

- March 2010 US Government Accountability Office requests that the Food and Drugs Administration needs to strengthen its oversight of food ingredients before they enter the supply chain
- Major Retailers and Manufacturers have vendor assurance schemes but the robustness of such schemes is in question
- The introduction of food safety management standards will move down the supply chain and standards such as ISO 22000 will promote the links within the supply chain but mechanism not in place
 - Attempts to control of biological systems



Importance of Private Food Safety Standards

- Retailers have a high number of own label products (over 50% of grocery sales in several markets)
- product quality and consistency is essential within a highly competitive sector
- highly diverse own label product ranges
- product and ingredients sourced globally
- active product development programmes and significant level of product re-engineering
- retailers are 'high profile' with respect to enforcement and media
- high level of rigorous legal enforcement
- development of cost effective resolution of legal compliance for both user and supplier
- intrinsic to retailer and supplier due diligence systems and procedures
- intrinsic to brand protection





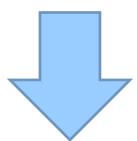


GFSI



In 2000.....

- Food safety crises
- Profileration of individual retailer schemes
- Burden to suppliers and producers due to frequent audits



Lack of efficiency and high costs in the food supply chain





« Safe Food for Consumers Everywhere »

GFSI Mission

Driving continuous improvement in food safety to strengthen consumer confidence worldwide

GFSI Objectives









How does GFSI work?

- Benchmarks existing food safety schemes, including prefarm gate schemes against the GFSI Guidance Document.
- Determines whether a scheme is equivalent to the Guidance Document requirements.
- Helps and encourages food safety stakeholders to share knowledge and strategy for food safety and to develop best food safety practice in a common global framework.







What GFSI Does NOT Do

- Make policy for retailers or manufacturers
- Make policy for standard owners
- Undertake any accreditation or certification activities
- Have involvement with an area outside the scope of food safety i.e. animal welfare, environment and ethical sourcing







GFSI Breakthrough – June 2007

The following companies came to a common acceptance of GFSI benchmarked standards, and now many other companies have followed suit





















Benchmarking – What does this mean? « Once certified, accepted everywhere »





























Some companies now accepting GSFI recognised schemes













































Group Strength, Local Expertise















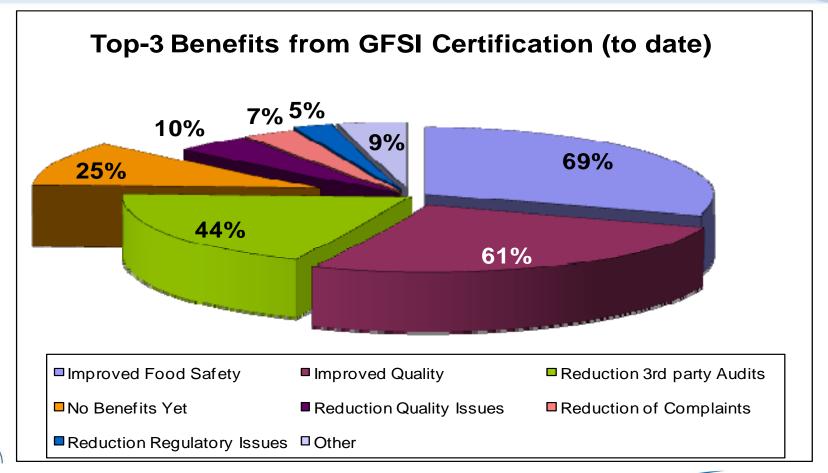








Feedback on GFSI Certification

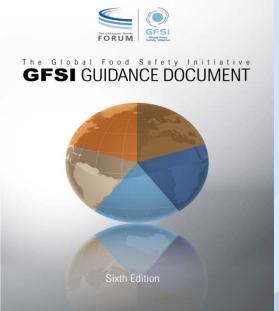








GFSI Guidance Document Version 6



GFSI Guidance Document

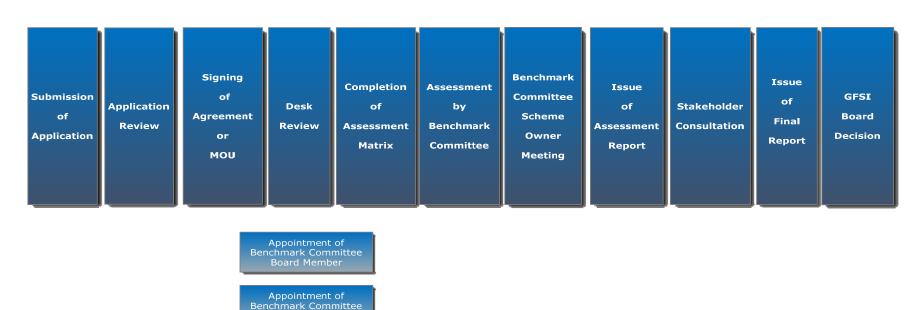
Objectives

- Sets out the requirements for food safety management schemes and the key elements for the production of food and feed
- Provides guidance to schemes seeking compliance with the GFSI Guidance Document and recognition by the GFSI
- Defines the requirements for the effective management and control of conforming schemes
- Puts in place transparent procedures for the GFSI benchmarking process

The Benchmarking Process

(New Scheme Application)

Appointment of Benchmark Committee Leader





5 weeks

5 weeks

Members

12 weeks

1 week

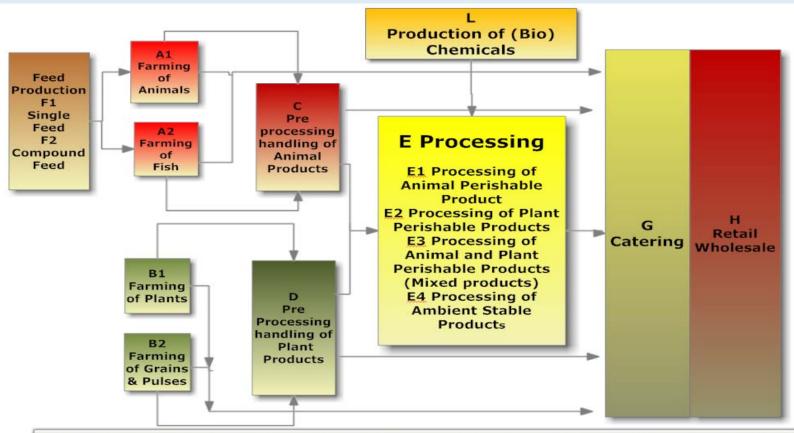
Requirements for the Management of Schemes

Three main sections

- 1. Requirements for GFSI Benchmarking Application
- 2. Requirements for Food Safety Management Scheme- Ownership and Management
- 3. Requirements for Food Safety Management Scheme-System



GFSI Scopes of Recognition





J The Provision of Transport and Distribution Services (Perishable J1 & Ambient J2)

I The Provision of Food Safety Services

K Processing Equipment Manufacture

M Production of Food Packaging

N Food Broker/ Agent

Food Chain Issues

- food is a 'high risk business'
- food is 'high profile' and emotive
- food safety is technically challenging
- food is traded globally through a multi layered supply chain with the increased risk this brings
- food is a low margin environment
- economically highly volatile
- a high number of factors influence customer acceptability and supply e.g. GM, animal welfare and ethical sourcing



Further challenges for Food Safety

- Food demand will increase by 70% by 2050
- Food and animal feed production to compete with biofuels:
 - Higher costs for food production
- Climate change
- High losses from food production to household (50%):
 - Rotting / Vermin
 - Inefficient supply chains
 - Lack of cold chain control
 - Poor local infrastructure
 - waste
- Animal diseases







GFSI Adding Value ...

For suppliers certified to a GFSI recognised scheme:

- More disciplined, efficient and profitable business
- Show equivalence of process across countries and continents
- GFSI recognised schemes are accessible and are shared by many
- Certified companies have a legal defence in place

For retailers:

- GFSI recognised schemes provide effective shared risk management tools for own brand protection
- Improvement in product integrity
- Certification enables simpler buying

For governments:

Business is promoting compliance with legislation

Business is self regulating and is driving continuous improvement and best practice Business seeks to share its progress and resolve concerns from regulators

GFSI – A Shared Responsibility

In order to meet consumer expectations, a global

solution is key.

GFSI is a multistakeholder approach involving the whole supply chain





For more information:

Websites

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