





Objective

- To raise awareness among people involved in all aspects of the food system about food safety
- Companies compete on <u>quality</u>
 and <u>price</u> <u>safety is a given</u>
- Food Safety is a Must

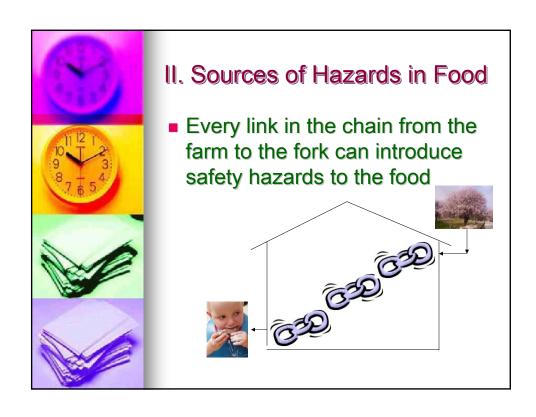


I. Why is Food Safety Important?

- Moral
- Marketing
- Mandatory
- Food is expected to nourish people, not makes them ill or kill them















IV. Particular Food Safety Issues Relevant to the Dry Fruits and Nuts



The good news:

- dry, non perishable food category with few potential hazards
- The bad news:
- they support mold growth, some of which can produce mycotoxins, particularly aflatoxins produced by Aspergillus flavus



IV. Particular Food Safety Issues Relevant to the Dry Fruits and Nuts, Cont.1

- The most pronounced contamination has been encountered in tree nuts, peanuts, and other oilseeds, including corn and cottonseed.
- Aflatoxin B1 is usually predominant and is the most toxic
- Aflatoxins can produce health problems that affect the liver!



IV. Particular Food Safety Issues Relevant to the Dry Fruits and Nuts, Cont.2

- In 1974 in northwest India 150 villages in adjacent districts reported 397 persons were affected with aflatoxicosis and 108 persons died
- A second outbreak of aflatoxicosis was reported from Kenya in 1982. There were 20 hospital admissions and 12 people died.



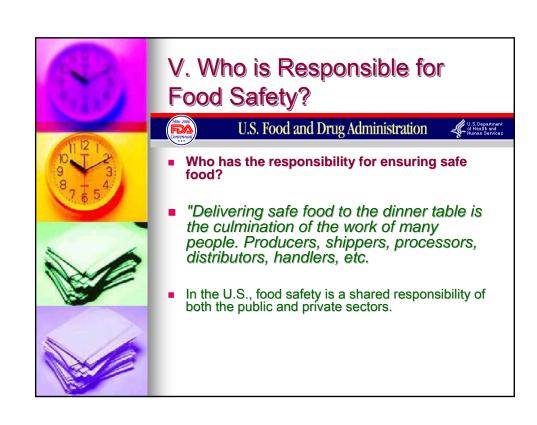
IV. Particular Food Safety Issues Relevant to the Dry Fruits and Nuts, Cont.3

- More bad news:
- they are eaten raw and therefore will serve as a vehicle to transfer pathogens like E.coli and Salmonella



IV. Particular Food Safety Issues Relevant to the Dry Fruits and Nuts, Cont.4

- In the past 5 years, the California almond industry experienced two food safety incidents in which raw almonds were recalled due to the presence of Salmonella
- This prompted the industry to take action
- This action was voluntary and initiated by the industry.





U K HACCP Implementation Strategy

The Agency is working to prepare UK food businesses for the new EU food hygiene legislation that will apply on 1 January 2006. This legislation will make it a legal requirement for all food businesses (except primary producers) to put in place, implement and maintain a permanent procedure or procedures based on HACCP principles



V. Who is Responsible for Food Safety? Cont.1

- Of all the groups involved in food safety, <u>Processors</u> bare the bulk of the responsibility because of the food volume handled and the potential cross contamination between raw and processed food
- Government agencies have a responsibility to guide, and support the industry and enforce food safety laws if necessary



V. Who is Responsible for Food Safety? Cont. 2

- Academic Institutions have a significant role to play in supporting the processors and government agencies through education and research
- Ultimately, the food company is responsible. If your name is on the freight bill/food package, your are responsible



VI. Roles of Private Sector and Public Sector in Food Safety

- All private and public sectors have roles to play
- These roles vary with the type, and size of industry and the resources available to both
- There needs to be open and continued communication among all sectors regarding existing and emerging food safety issues



VII. How Does the U.S. Food Industry Handle Food Safety?

- Almost all U.S. Food Industries have <u>voluntary food safety</u> programs
- Very few food industries have government mandated food safety programs
- Either way, the food companies understand and accept their responsibility to provide safe food



VII. How Does the U.S. Food Industry Handle Food Safety? Cont.1

- They also understand the direct link between <u>food safety</u> and their ability to stay in <u>business</u> and grow their business more <u>profitable</u>
- "Food safety programs often impact <u>quality</u> in a positive manner"





The California Almond Industry

- Food Quality and Safety Program (FQSP)
- G.A.P.
- provide guidelines to California almond growers on how to minimize potential hazards during production and sources of potential contamination



The California Almond Industry – Food Safety Approach

- G.A.P
- S.S.O.P
- G.M.P
- H.A.C.C.P





