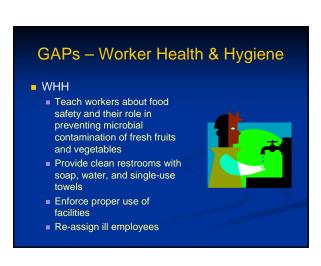
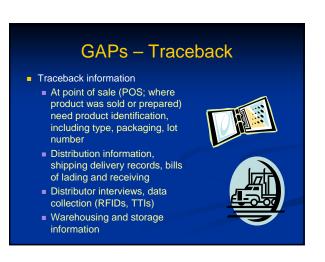


Why this topic? President's Food Safety Initiative in 1997 led to increased interest in produce-related food safety Publication, in 1998 and continuing, of various guidance documents related to the safe production and handling of produce Bioterrorism Act of 2002 has focused food industry on better food security practices, throughout entire food production system









HACCP

- A seven step process to minimize food safety risks
- It is NOT a zero-risk system
- Has been widely implemented by processors; increased adoption by packers due to customer requirements



Seven Principles of HACCP

- Conduct hazard analysis
- Determine CCPs
- Establish critical limits
- Establish monitoring procedures
- Establish corrective actions
- Establish verification procedures
- Record-keeping and documentation

HACCP Information

- FDA website on HACCP:
 - http://www.cfsan.fda.gov/~comm/haccpov.html
- UF/IFAS General Factsheet:
 - http://edis.ifas.ufl.edu/pdffiles/FS/FS12200.pdf



Food Product Liability

- Product liability applies to:
 - Supplier
 - Manufacturer
 - Wholesaler
 - Distributor
 - Retailer
- As opposed to negligence (which may be minimized if company can show good faith efforts in food safety programs)

Food Safety vs. Food Security

- Food Safety
 - Prevention of unintentional contamination from hazards within the system
- Food Security
 - Prevention of purposeful contamination from hazards or pernicious agents outside the system

Food Security Threats

- Tampering deranged individual, or criminal extorting or murdering
- Terrorism political agenda (attention to a cause/exact political concessions) drives perpetrator to incite fear or cause economic damage; big issue post 9/11



Agroterrorism

- The use of biological, chemical or other agents to adversely affect animal or plant health or the agricultural industry (including food)
- Agents can be spread by air, water, feed, or by humans
- The general aim is economic disruption, but human/animal harm is possible



Key Questions for the Produce Industry

- Can purposeful on-farm contamination incident be prevented?
- What can be done throughout packing/distribution?
- Can we adequately trace product from farm to table? Backwards?





Bioterrorism Act of 2002

- "Public Health Security and Bioterrorism Preparedness and Response Act of 2002"
- June 12, 2002 (very swift legislation)
- "To improve the ability of the United States to prevent, prepare for, and respond to bioterrorism and other public health emergencies."

Bioterrorism Act 2002 – Key Requirements

- Facilities (domestic and foreign) must be registered
 - This includes packinghouses, but not farms
- Certain records must be maintained
- If importing, must provide "Prior Notice"
- URL for FDA information on BT Act of 2002: http://www.fda.gov/oc/bioterrorism/bioact.html

Distribution and Biosecurity Issues

- Documentation more rigorous since implementation of BT Act of 2002
 - Importers
 - Record keeping
 - Traceability
 - Recall procedures
 - Prior notice
- Auditors are focusing on these areas

Increased Focus on Food Security

- Has led to new and rigorous requirements regarding plant security, record keeping, and food distribution tracking, recall and traceback (required)
- Has also affected general facility biosecurity programs (guidance), which will appear on 3rd party audit programs



Food Security Preventive Measures Guidance Prepare for possibility of tampering or other malicious, criminal or terrorist actions Provide proper supervision Consider employee screening Visitor policy Training Have secure facility http://www.cfsan.fda.gov/~dms/secguid6.html

