Food Safety @ FNS

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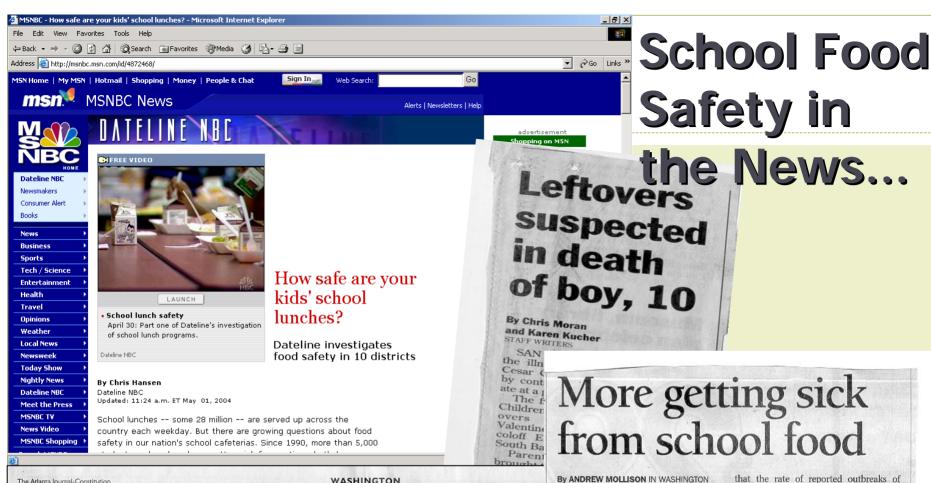
Food Safety Has Been in the News

- February 2008 Recall of 143 million pounds of ground beef
- January 2008 Botulinum spores found in canned vegetables resulting in recall
- October 2007 -- Salmonella in pot pies caused some 272 illnesses and 65 hospitalizations
- October 2007 -- *E. coli* in beef patties caused 26 illnesses and 17 hospitalizations
- July-August 2007 -- Botulinum toxin in canned chili sauce caused eight illnesses
- April 2007 Melamine found in pet food and animal feed
- Fall 2006 *E. coli* in spinach caused 205 illnesses and three or more deaths in 26 states
- Fall 2006 Salmonella Tennessee in peanut butter sickened some 400 individuals in 29 states

Why Food Safety is Important to FNS Programs

- Our programs serve vulnerable populations
- Impact
 - 76 million illnesses a year
 - 325,000 hospitalizations
 - o 5,000 deaths
- Cost of foodborne illness
 - \$6.5 to \$34.9 <u>Billion</u>





The Atlanta Journal-Constitution

WASHINGTON

Feds buy bad beef for low bid

E. coli outbreak results from School Lunch Program supply system

By Elliot Jaspin and Scott Montgomery WASHINGTON BUREAU

s battles go in the deadly war little town would seem a minor skirmish.

Twelve children got sick but no one

business," said Donley, whose six-year- contact with one of the schoolchildren. old son died of E. coli poisoning in 1993.

with E. coli bacteria, what hap- chased by the U.S. Agriculture Depart- ing of this.' pened last October in this dusty ment for the federal School Lunch Program. Annette Bomar Hopgood, who child into a danger zone," Almquist's oversees the program for the state died. Although state officials are con- Department of Education, said the food vinced meat in a school lunch caused the bought by the Agriculture Department outbreak, the source was never conclu- makes up about 15 percent of food sively determined, and the supplier served to students at a typical school. denies any fault. Today, five months lat- The same plants that sell food to the feder, the E. coli 0157:H7 outbreak is eral program also sell to grocery stores, remembered much like a bad summer restaurants and other institutions, so the storm that briefly threatened and then food is reaching much more people than

out of business, not helping them stay in is thought to have been infected through

"I'm shocked," said Alan Almquist, Every public school in Georgia - father of one of the children sickened in Finley, Wash. about 1,800 in all - and some 35 private the outbreak, when told about the USDA schools serve meat and other food pur- role. "It's like the government is approv-

"I didn't realize I was sending my

Almquist's son was one of four children who had to be transferred to Seattle Children's Hospital over 200 miles away as their condition worsened. "I can't tell you how close my son came to dying," he

The parents' dismay was echoed by Robert Van Slyke, Finley's superinten-



elee@aic.com Reported outbreaks of food poisoning in schools increased by 10 percent a year during the 1990s, a congressional report said Tuesday.

Fifty school-related outbreaks that sickened 2,900 people were reported nationwide in 1999, the latest year for which data are available, the General Accounting Office said.

Federal officials and food industry representatives testified at a joint House-Senate hearing that it wasn't their fault that the rate of reported outbreaks of food poisoning in schools doubled during

Sen. Dick Durbin (D-Ill.) and Rep. Steve Horn (R-Calif.), co-chairmen of the hearing, asked them to stick around to hear what happened to Tyler Roberts of Comer, northeast of Atlanta, after he ate a few bites of an undercooked, contaminated hamburger at school

Other students had milder symptoms of food poisoning. But for Tyler, a slender, 11-year-old diabetic, the pain, diarrhea and vomiting went on for days, testified his mother, Cheryl Roberts.

➤ Please see FQQD, A17

JACKIE JOHNSTON / Special

amollison@ajc.com and ELIZABETH LEE IN ATLANTA

ensure the wholesomeness of food bought came from other plants. for school lunches.

tracts for the purchase of commodities caused the outbreak. shall not be entered into unless previous

ast " soid De Laeme I

Local health officials in Washington The law goes on to say that "... con- state are unanimous that the school lunch

"Rational thought leads you to the taco

Food Safety: An Evolving FNS Activity

- Created FNS Food Safety Staff (FSS) in 2004
- Purpose:
 - Focal point for Agency food safety activities
 - Coordinate within and outside of Agency
 - Liaison and outreach



Activities

- **≻**Overall Agency Support
- Commodity Food Safety Complaints
- Recall and Food Safety Matters
- **▶** Data Analysis
- **≻**Food Defense
- > Education and Outreach

Overall Agency Support

- The Child Nutrition and WIC Reauthorization Act of 2004 mandated a school food safety program based on Hazard Analysis and Critical Control Point (HACCP) principles.
- In 2005, the FSS developed and distributed:
 "Guidance for School Food Authorities:
 Developing a School Food Safety Program Based on the Process Approach to HACCP Principles."

Overall Agency Support

- In 2006, the FSS and the National Food Service Management Institute (NFSMI) developed:
- ➤ Self-instructional video with complementary workbook and template to accompany "Guidance"
- Download at: http://www.nfsmi.org/Information/school_fs_pro gram.html

Overall Agency Support

- Mandatory second inspections
- In 2006, the FSS provided:
 - Education and outreach to regulators concerning the requirement for two health inspections
 - 19 presentations around the country informing States and health officials of the new requirement
 - 135 presentations made to school officials by the NFSMI under a grant provided by the FSS.

Commodity Food Safety Complaint System

The FSS monitors and analyzes food safety complaints for:

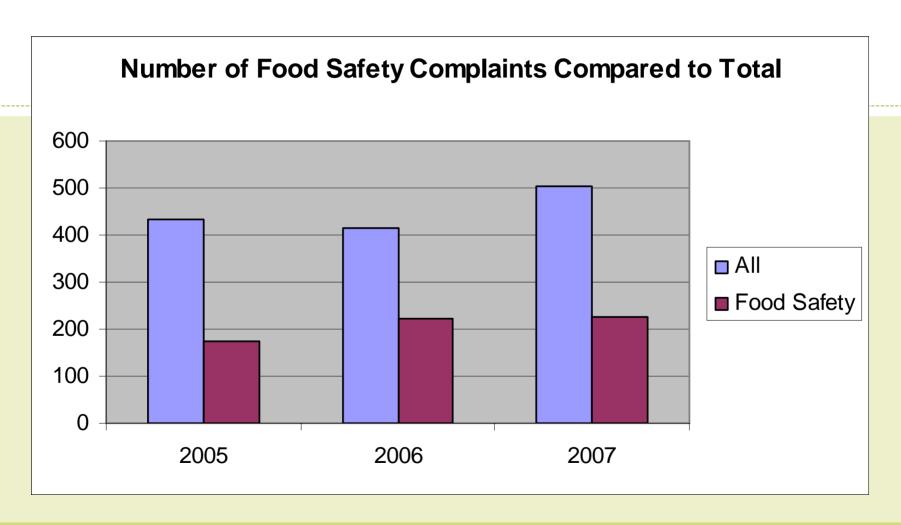
- Vendor performance
- Need to modify commodity specifications
- What food handling or safety messages are needed

Commodity Food Safety Complaint System

When the FSS receives a complaint that might be a food safety concern, it:

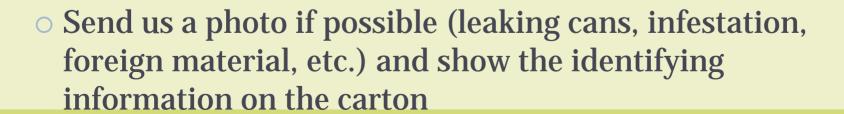
- Determines whether it is a food safety concern, and if so, how serious
- Contacts the appropriate procurement and regulatory agencies
- Finds resolution to the problem
- Records the information in a database for further analysis

Food Safety Complaints vs. Total Complaints



Commodity Food Safety Complaints

- Things to consider when reporting:
 - Identification of the product
 - Establishment numbers and lot numbers (meat and poultry)
 - Brands and Lot numbers (other than meats)
 - Foreign Materials
 - Dimensions!!
 - Details
 - Illnesses (if applicable)



Illness Complaints

- Things to consider when reporting complaints of illness
 - Is the illness confirmed?
 - Has the local health agency been contacted?
 - Details
 - **Why was the commodity suspected of causing illness?**
 - Symptoms?
 - Report?

Recall and Food Safety Issues

- Commodity recalls tracked through Electronic Commodity Ordering System (ECOS)
- Announced through Rapid Alert System (RAS)

Rapid Notification Needed

 FNS established a Rapid Alert System in 2006



- Piggy-backed onto ECOS
- Two components call down notification and response forms

Holds and Recalls

Rapid Alert System in ECOS

- Alerts State Agency contacts affected by commodity holds and recalls
- Announcements can come at any time weekends, evenings....
- Details and instructions provided
- Allows for reporting online

Communication

- Who handles holds and recalls for your program?
- Do you have a recall coordinator?
- Can you contact your recipients quickly?
- Do you have a procedure for recipients to report information in the event of a hold or recall?

Traceability

FNS Identification

- Contract and Delivery Order Numbers
- Multi-food orders

Be Prepared!

- Will you be able to find product during a recall?
- O Do you have a tracking system in place?
- Can you identify product by the FNS delivery order number?
- Do you have a plan for securing and removing product from the food chain during a recall?

Hold & Recall Data

- Used to inform upper managers and respond to Congressional & media inquiries
- Become basis for reimbursement of costs and product replacement



2007 – 2008 Recall Management Using RAS

- May 2007: beef stew exploding cans. Replaced small quantity
- July 2007: beef stew administrative recall at the same time as an FDA and FSIS recall on other products from the same plant
- December 2007: hold placed on potato rounds for odor, taste and texture issues. Transient report of possible illness in Nebraska.
- January 2008: green beans risk of botulism
- January/February 2008: beef put on hold and subsequently recalled. Largest recall in history.

Notices Posted to ECOS Home Page

- Non-commodity Recalls
- General Food Safety Messages
- 2006 -2007
 - Frozen meat pizzas *E. coli* O157:H7 contamination
 - Chicken/turkey pot pies Salmonella contamination
 - o Ground beef E. coli O157:H7 contamination
 - Spinach *E. coli* O157:H7 contamination
 - Peanut butter Salmonella contamination
 - Food Safety Information from FSIS and FDA

Building a Science Base for Food Safety Education

FNS Data analysis

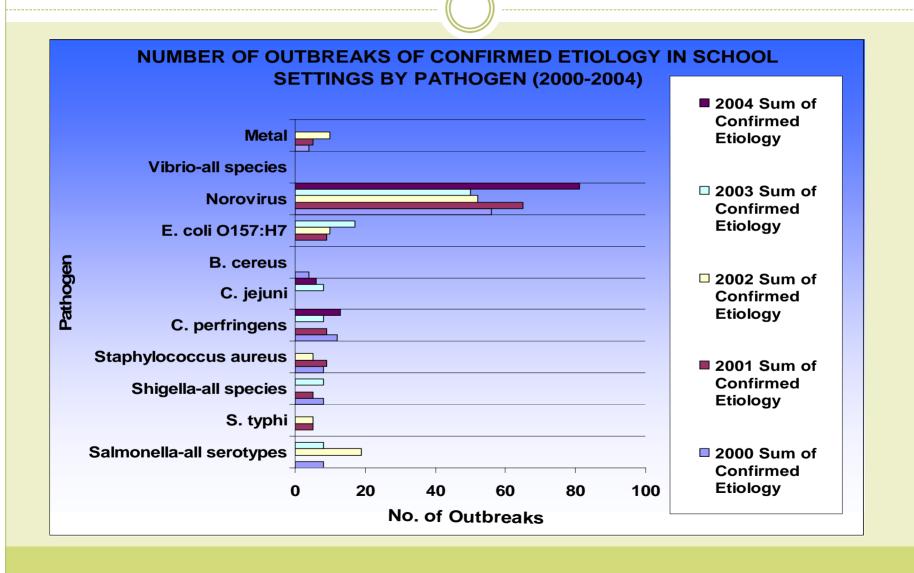
ECOS commodity complaint data

 CDC Electronic Foodborne Outbreak Reporting System (eFORS)

Data Analysis: Findings

- School foodborne illness reported in eFORS)
 - > Tells where problems are
 - Provides direction for educational approaches to correct problems
 - > Findings: Norovirus is the leading cause of foodborne illness in schools

Data Analysis Findings



Data Inform Projects

 Article on norovirus submitted to Journal of School Health

 Working with FDA on an approach to address norovirus

Food Defense Activities

Intentional contamination of the food supply

Federal initiatives

FNS Activities

Contamination Happens Intentional vs. Unintentional

- Unintentional = Food Safety
 - o e.g., spinach, Topps ground beef
- Intentional = Food Defense
- Department of Homeland Security:
 - Groups are interested in chemical or biological agents that could use food as a vehicle
 - No credible nor imminent threat of terrorist food contamination
 - Sector and the Homeland should remain vigilant (DHS)

Food Defense

Concerned with:

- Illnesses and/or deaths
- Financial losses
- Disruption of the industry or reputation
- Disruption of food availability
- National impact

White House Directives: Homeland Security Presidential Directives (HSPD) 7 & 9

HSPD 7:

- Vulnerability Assessments on Specific USDA
 Commodities ground beef & chicken nuggets
- Strategic Partnership Program on Agroterrorism (SPPA) – central kitchen in NC

HSPD 9:

- Surveillance and Communication -- checklist
- Food Defense Training and Tools -- TTX

Central Kitchens: Vulnerability Assessment Findings

- Central kitchens have most, if not all, of the characteristics of a vulnerable target
 - Large Batches
 - Thorough Mixing
 - Short Shelf-Life
 - Wide Distribution

How to Protect Central Kitchens*

- High-risk areas in CK:
 - Transport
 - Ingredients
 - **Measuring liquid and dry**
 - Mixing and Cooking
 – large batch
 - Storage
 - × Dry
 - × Cooler
 - × Freezer

^{*} SPPA Initiative

NC Central Kitchen SPPA Best Practices*

Highlights:

- Dual control 2 people always present
- Retrofit open systems (kettles, mixers)
- Monitor temp fluctuation
- Restrict access in critical areas; secure when not in use
- Color-coded smocks/uniforms for work areas
- Employee background investigations and <u>re</u>investigations
- Employee education and training on Food Defense
- Develop Policies and Procedures
- Note Changes in Staff Health Condition

HSPD-9 Requirement: Surveillance

- **Surveillance** -- through constant monitoring of food safety complaints in ECOS
- Complaints alert the FSS to potential threats to commodity foods
- In 2006: Complaint of possible tampering in chicken fajita meat
 - FSS alerted other agencies to the problem
 - Resulted in a full investigation by FSIS and OIG
 - Removal of the product from service to students

FSS Food Defense Training

- FSS speaking engagements for program operators.
- In 2006, in cooperation with NFSMI, developed and distributed a Food Defense Resource Kit containing a video and an interactive CD-ROM to more than 20,000 school districts
- http://foodbiosecurity.nfsmi.org/

Table Top Exercises

- Pilot in Des Moines, IA September 21, 2007
- Scenario: food in NSLP in multiple sites in State
- Communication:
 - Local agencies
 - Emergency managers
 - State partners
 - Federal partners
- Need to conduct 2 more in different states
- Ultimately a packaged program for different sizes of school systems
- Grants from Department of Homeland Security

Food Safety Education and Training

- National Food Service
 Management Institute
- www.nfsmi.org



- FSIS Food Safety Education Staff
- Other partners NCFSS, PFSE

Food-Safe Schools Action Guide



Brought to you by the Centers for Disease Control and Prevention and the National Coalition for Food-Safe Schools

Web link: http://foodsafeschools.org/

Assemble a Team Everyone Has a Role in Food Safety



FNS Resources

- http://www.fns.usda.gov/fns/food_safety.htm
 - Updated FNS Food Safety information
 - Links to other Federal resources (FSIS, FDA)

- Foodsafety@fns.usda.gov
 - Mail box
 - Additional information on complaints
 - Questions
 - Comments

Other USDA Resources

- Meat and Poultry Hotline
 - 1-888-MPHOTLINE
 - Mphotline.fsis@usda.gov
- Be Food Safe
- Thermy
- FightBAC!
- Is It Done Yet?
- http://www.fsis.usda.gov/Food_Safety_Education

On The Horizon ...

- Revise "Responding to a Food Recall," originally released in 2002
- Work with program operators to develop a tracking system for commodities
- Make adjustments to the Rapid Alert System based on lessons learned
- Continue development of educational messages and initiatives based on feedback and data

THANK YOU!



QUESTIONS?

http://www.fns.usda.gov/fns/safety/annualreport06072007.pdf

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