Today’s Discussions

• Past Incident Rates
• Past Control of Salmonella
• Present Control of Salmonella
• Centrum Valley Farms Experience
• Future Control of Salmonella
Past Incident Rates

Salmonella Enteritidis Incident Rates
• Prior to the 1980’s 0.55 per 100,000 people
• Incidents in 1980’s 2.4 per 100,000 people
• Incidents in 1990’s 3.9 per 100,000 people
• Incidents in 2000’s 2.0 per 100,000 people

All Salmonella Incident Rates
• 10.7 Incidents per 100,000 in 1976
• 24.3 Incidents per 100,000 people in 1985
• 12.0 Incidents per 100,000 people in 1999

Source: CDC Emerging Infection Disease journal volume 10, No. 1 - January 2004
In the later 80’s and early 90’s industry started to take SE serious:

- Started Trace Back Programs
- On-Farm Testing
- Quality Assurance Programs/HAACP
- Regulation Regarding Refrigeration in 1990
- Safe Handling Instructions for Eggs
- Enhanced Surveillance

Source: CDC Emerging Infection Disease journal volume 10, No. 1- January 2004
Salmonella: Past Control

1992: 38% of Flocks SE + 76 Farms

Source: Paul Patterson, Pennsylvania State University, Introduction to Food Safety, Salmonella Enteritidis (SE) and PEQAP
Past Control: Pennsylvania

1994: Pennsylvania Egg Quality Assurance Program (PEQAP)

- Chick Testing
- Pullet Testing
- Layer Testing
- Egg Testing
- Critical Control Points
  - SE Free Chicks/Breeding Stock
  - SE Clean Environments
  - Rodent & Fly Control
  - Egg Refrigeration
- On Site Facility and Documentation Inspections
  - Monitored by Pennsylvania Department of AG

Source: Paul Patterson, Pennsylvania State University, Introduction to Food Safety, Salmonella Enteritidis (SE) and PEQAP
December 1999 the President Council on Food Safety announced an Egg Safety Action Plan

Goal:
• Reduce Salmonella incidents by half before 2005
• Elimination of Salmonella by 2010
Salmonella: Past Control

2010 1.9% of Flocks SE + 180 Farms

Source: Paul Patterson, Pennsylvania State University, Introduction to Food Safety, Salmonella Enteritidis (SE) and PEQAP
Salmonella: Current Control

July 2010 FDA Egg Safety Rule
- Bio-Security Program
- SE Prevention Plan
- Environmental Testing
- Egg Testing
- Record Keeping
Where do we start?

- Breeder
- Hatchery
- Pullets
- Layers
- Feed
Salmonella: The Future

- Food Safety Modernization Act 2010
- FDA/ Mapping Strains
- Level Playing Field?
- Testing
- Pro Active approach
- Communication