

# Once FMD is diagnosed in NC

- Exports to other states stops
- Slaughter facilities are closed
- No Movement Restrictions placed
- Feed will move by permit with bio-security measures required
- Milk will move by permit from non-restricted areas

# If FMD occurs in another State

- Stop Movement Restrictions  
(USDA) minimum 3 days
- State Vets will determine Interstate restrictions for movements
- Chaos/panic will rule if a strategy is not already in place

# Regional Plans

- States combine strategies to form the best response plan
- Develop communication networks to help share information before and during outbreaks
- Discuss issues to decrease “panic decisions”

# Bio-terrorism...

- Intentional attempt to due maximum damage
- Difficult to prevent
- May be hard to recognize that it has occurred
- Look for unusual pattern of illness (disease vs. toxin)

# How to Prevent Bioterrorism?

- Knowledge of potential agents
- Common Sense!!!!
- Educate your neighbors
- Teamwork

# Bio-terrorism Agents

- Viruses: FMD, Swine influenza, Avian Influenza
- Bacteria: Anthrax,
- Toxins: Botulism, Staph Endotoxin B, Ricin
- Other: BSE (CWD)

# Common Sense Approach

- Develop a Farm Bio-security Program:
  - Locks, gates, and barriers to prevent entrance
  - Secure Feedstuffs, bulk tank room
  - If possible, pasture animals off the road
  - Place new farm paths, if possible, next to areas that you/neighbors can watch
  - Consider additional security measures (ie. lighting, motion detectors, alarm systs.)

# Common Sense continued

- Place No Trespass Signs-screen visitors
- Id a “isolation area” for new stock and use it
  - 2 week observation
- Develop a decontamination routine:
  - farm clothes verses street clothes
  - power wash any equipment before it re-enters the farm at farm entrance or at “wash site”
  - Use wash facilities at markets/slaughter facilities-if they don't have them complain

# Educate anyone who will listen!!

- Once an outbreak has occurred, panic will prevent the truth from being heard
- Convince public that protecting farms is a part of protecting America
- Develop a plan to protect the part of Animal Industry not affected and educate public that if an outbreak occurs, America will still have a safe food supply

# Team work-a Community Effort

- Educate neighbors of threat
- Recruit their help-every additional set of eyes and ears means more security!
- Describe to your neighbors some of the precautions you are taking.
- Work with CARTs and other organizations promoting animal care

# Dairy Industry-to do list

- Use every opportunity to promote Bio-security.
- Develop Industry recommendations for safe movement of animals and products should an outbreak occur.
- Consider changes in routine business practices that will increase safety (handling raw milk, sales, animal movements, etc.)

# Sources of help and information

- NCDA & CS State Vet's Office
- N C College of Vet. Medicine
- N C Extension
- USDA
- Emergency Management (State and County)
- SART
- CART

# FMD and MILK

- FMD virus can be shed in milk days before signs are apparent
- Trucks often visit more than one premise to collect
- Virus can contaminate plant, personnel, trucks, and waste handling systems
- OIE recommends double High Temp. Short Time treatments (HTST) (161F for 15 seconds) for Pasteurization

# Milk safe for Animal Consumption per OIE

- Two HTST (161 f x 15) treatments
- HTST + maintaining pH < 6 for 1 hr.
- UHT + maint pH < 6
- cheese from single HTST milk aged at temp. > 32 F for 30 days with pH < 6
- cheese made from raw milk, aged at temp > 35 F for 120 days with pH < 6



