Veterinary Leadership
Path to National Preparedness
Dr. Tom McGinn

Managers vs. Leaders

<table>
<thead>
<tr>
<th>Managers</th>
<th>Leaders</th>
</tr>
</thead>
<tbody>
<tr>
<td>Administers</td>
<td>Innovates</td>
</tr>
<tr>
<td>Status quo</td>
<td>Motivates</td>
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<tr>
<td>Controls</td>
<td>Inspires</td>
</tr>
<tr>
<td>Imitates</td>
<td>Originates</td>
</tr>
<tr>
<td>Maintains</td>
<td>Develops</td>
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Why We are the Leaders?
- Public Trust
- More Pets than Children
- Bio-terrorism Threat Reduced Through Education
- Veterinary Medicine Sentinels Within the Population
- Interface Between the Urban And Rural World
- Oath To Promote Public Health

Chaos, Confusion & Crisis
Cooperation, Coordination & Communication
**Distribution of Poultry and Cloven-Hoofed Livestock**

**Why Agro-Bioterrorism...**
- Easy to Obtain, Conceal and Spread
- Easy to Create Fear: Kill One Scare 10,000
- Easy to Create Collateral Damage
  - Zoonotic Diseases, Toxins, Chemicals
- Destroy Enemies Food Supply:
  - Weapon of Choice Well Before Anthrax in Mail
- Destroy Nation and/or Way of Life
- No Injuries to Themselves

**Agriculture as a Target**

“One Sixth of the U.S. Gross National Product and One Eighth of All American Jobs Are Connected to Agriculture.”

U.S. Agriculture Is the Largest Single Sector of the U.S. Economy
- $1 Trillion in Economy Activity
- +$12 Billion to Balance of Trade
- $58 Billion to NC

Information Discovered in Afghanistan Illustrates Al Qaeda’s Interest in Biological Weapons
Potential FMD Disease Spread
After a Simulated Terrorist Attack at 5 Locations

Day: 30
States Infected: 40
Day 5 Disease First Detected

Potential Impact: If a National "Stop Movement" of all susceptible animals is ordered on Day 8, by the time the disease is eradicated the Nation would still lose 23.6 million animals!

An Improved National Surveillance & Detection System would reduce disease spread!

FMD Agricultural Bioterrorism Outcome
These Numbers Represent the Estimated Maximum Daily Manpower Requirement to Control the Disease Outbreak Predicted in This Model:

<table>
<thead>
<tr>
<th>Category</th>
<th>Requirement</th>
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<tbody>
<tr>
<td>Primary Outbreaks (5):</td>
<td>32,105</td>
</tr>
<tr>
<td>Secondary Outbreaks (32):</td>
<td>178,847</td>
</tr>
<tr>
<td>Tertiary Outbreaks (106):</td>
<td>499,800</td>
</tr>
<tr>
<td>Disaster Federal Assistance Staff Offices (44):</td>
<td>17,200</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td><strong>723,952</strong></td>
</tr>
</tbody>
</table>

The Nation is Not Prepared to Resource a Response at This Level and Our State Response Plans Are Not Integrated With Other States or With the Current Federal Response Plans!

Battle Lines
Linear Battle Lines
- Limited Protection of Supply Lines (Food)
- Ease of Enemy Infiltration
- Vast Supply Channels
- No Reserves = "Just in Time"
- Disease Not Battle Injury = DNB

Non-Linear Battle Lines
- Ease of Enemy Infiltration
- Vast Supply Channels
- No Reserves = "Just in Time"
- Disease Not Battle Injury = DNB

Food Contamination Scenario
BIO Terrorist Attack Trace Out

Food contamination scenario:
- DEC 30
- Toxicity: Low
- # Sick: 2384
- # ICU: 391
- # Dead: 102

Worried Well Effect
Symptoms Produced If Infected:
- Gastro
- Respiratory
- Neurological

Allergy, Flu or Common Gastrointestinal Patients Will Assume They Are a Victim. The Public Health System Will Be Quickly Overloaded!

Terrorist Corruption of the Integrity of Food Quality Control Process
The Intentional Introduction of a Contaminated Tissue or Food Sample Into the Quality Control or Laboratory System Would:
- Trigger a Similar National Response
- Confidence in the Food Chain Would Be Undermined
- Entire 'Farm to Fork' Food System Processes Would Be Shut Down
- Enormous, Long Term Economic Consequences!
1973 Energy Crisis

- Began October 1973
- Lifted March 1974

Credentialing

Standards for Deployment

- Independent Study [www.fema.gov](http://www.fema.gov)
- ICS, EOC, Livestock, Animals in Disaster, etc.
- Hazmat
- First Aid
- Train the Trainer
- Biological Risk Management
- Etc.

Now what is a zoonosis??

SARS Mapping
Defense of US Agriculture and Food -- (HSPD 9)

- DHS, USDA, HHS, EPA, FDA
- Develop Robust, Comprehensive and Fully Coordinated Surveillance and Monitoring Systems
- Early Detection; Adequate, Quick and Effective Response to Food and Agriculture Infrastructure
- National Veterinary Stock Pile / National Plant Disease Recovery System

The National Plan

- Integrated Surveillance, Labs & Response Data Systems
- Decentralized Detection & Diagnostics
- State Food Security Programs (All Hazards)
- Robust Modeling for Training, Mitigation & Response
- Targeted Funding to Food & Agriculture
The National Plan

- Level of Federal Indemnity, to Include Production Losses, Based on Evidence of Best Management Practices
- Integrated Local, State National AG Response
  - 1000's, 10,000's, 100,000's
- Expand Current Stockpile
- Get Centers Operational
  - Enhanced Detection & Diagnostics
  - New Vaccines etc.
  - Shorten Vaccine and Drug Development Time
- Team Work, Reduce Turf Issues

States: *Prioritizing Infrastructure*

- Agriculture On State Emergency Response Commissions
- Ag In Responder Community; Equipment, Communications Etc.
- ‘Farm To Fork’ Food Chain In State Homeland Security Programs
- Emergency Management (Homeland Security) Taking Lead In Statewide Agriculture Training And Exercises
- State Homeland Security Reviews Of Lack Of Funding In Agriculture Sector - Not Like CDC

G 8 Summit Leadership

- Governor
- Food Protection
- Emergency Management
- State Dept. Agenda
- Medical Coverage
- WMD