



---

# **A Wing and a Prayer**

## **Introduction and Instructions**

Rosemary Speers, Ph.D.  
Research Analyst, CNA

2 October 2007

# Overview of the exercise

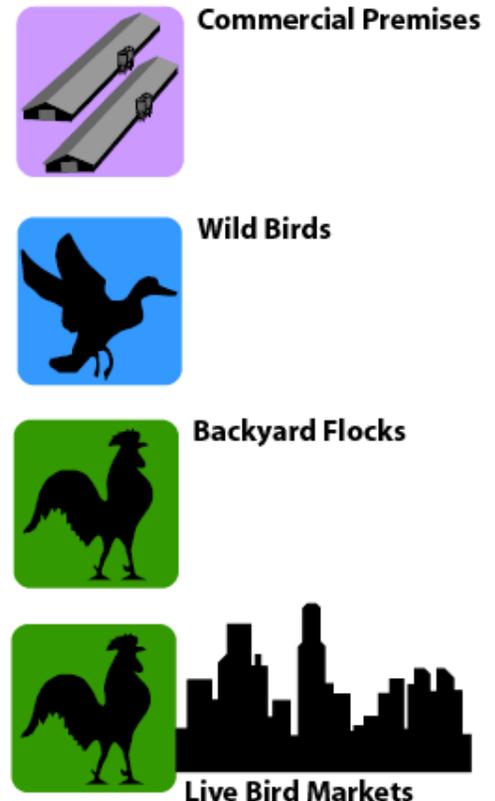
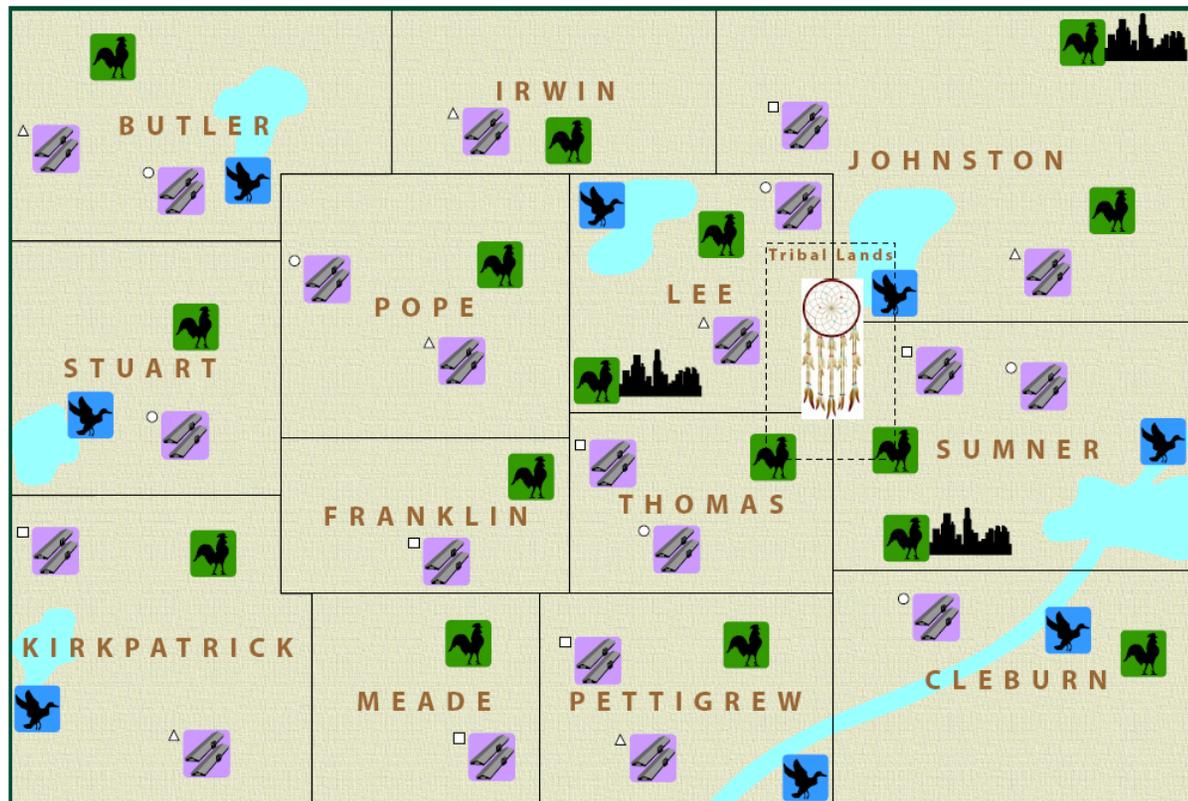


- Objectives are to test, train, and enhance resources and readiness to deal with an HPAI H5N1 outbreak
- Also intended to address specific action items in the Implementation Plan of the *National Strategy for Pandemic Influenza*
- Hybrid exercise/game allows participants to choose from a set of limited resources to deploy as events change during an HPAI outbreak.
- Players gain enhanced awareness of the variety of roles and responsibilities during an HPAI outbreak, as well as specific worker safety issues they may encounter.

# Exercise components



- **Map** is a simplified depiction of a 13-county area of a state or region



# Exercise components



- **Timeline** is used to track the turns and events

Declarations, Requests and Events			HPAI (H5N1) Confirmed					
<b>Timeline</b>	Day <b>0</b>	Day <b>1</b>	Day <b>4</b>	Day <b>7</b>	Day <b>10</b>	Day <b>13</b>	Day <b>16</b>	Day <b>19</b>
Arriving State Resources	 <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/>			
New Teams	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>							
Resource Management								
Reassigned or Retrained Teams								

Declarations, Requests and Events

**Timeline**

Arriving State Resources

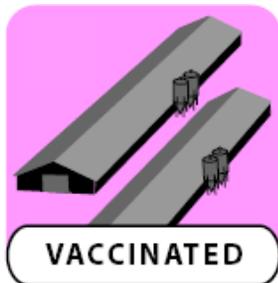
New Teams

Resource Management

Reassigned or Retrained Teams

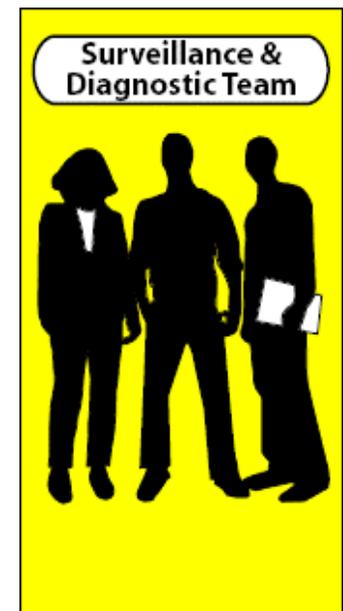
# Exercise components

- **Status markers** indicate whether a premises has birds with Clinical Signs, or has been Quarantined, Diagnosed, Appraised, Depopulated/Decontaminated, or Vaccinated
  - Live Bird Markets can also have a status of Closed



# Exercise components

- **Team markers** indicate field teams that take action to eradicate the disease
  - **Quarantine & Tracing**  
Represents the personnel and resources required to quarantine and begin trace-outs at an infected location.
  - **Surveillance & Diagnostics**  
Represents personnel and resources to conduct diagnostic sampling and testing for birds at an infected or susceptible location



*Once a location has been quarantined, it remains quarantined while other operations (Diagnostics, Appraisal, Decontamination) take place.*

# Exercise components

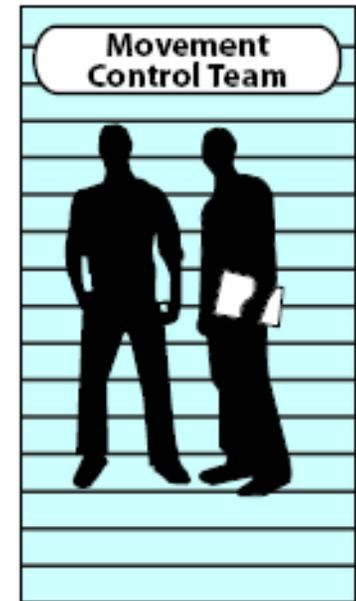
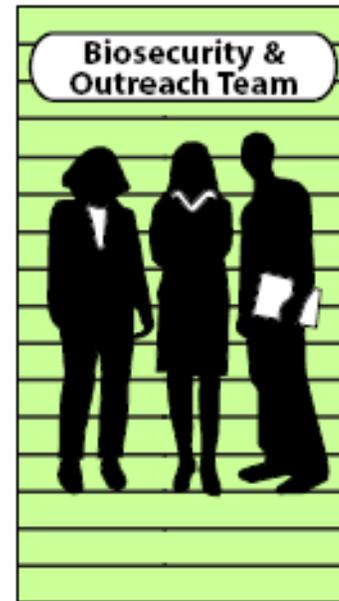
- **Team markers** indicate field teams that take action to eradicate the disease
  - **Appraisal**  
Represents the personnel required to appraise birds
  - **Depopulation, Disposal, and Disinfection (3D)**  
Represents personnel and resources to depopulate, dispose, and then to clean and disinfect, an infected or susceptible location



*More than one team can take action during the same turn, as long as the order of Quarantine, Diagnose, Appraise, and 3D is followed.*

# Exercise components

- Other **Team markers** indicate field teams that take action to mitigate disease spread
  - **Biosecurity & Outreach**  
Represents an ongoing program of increased observation of susceptible species combined with education and outreach to the community to report possible infections.
  - **Movement Control**  
Represents the actions of enforcement officers to restrict the movement of infected and susceptible birds (no control over wild birds).



*These two teams have county-wide action.*

# Exercise components



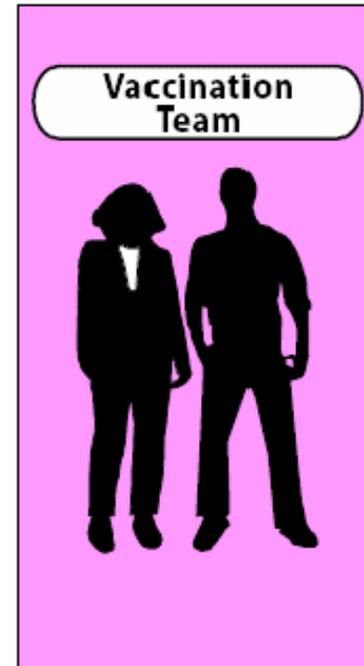
- **Resources management** function represents requests for additional resources
  - **Resource Management**  
Represents the people to staff the desks and offices that will handle the bureaucracy and paperwork to bring in resources from out-of-state.
  - Each Resource Management team allows an additional team to be brought in for each subsequent turn.



# Exercise components



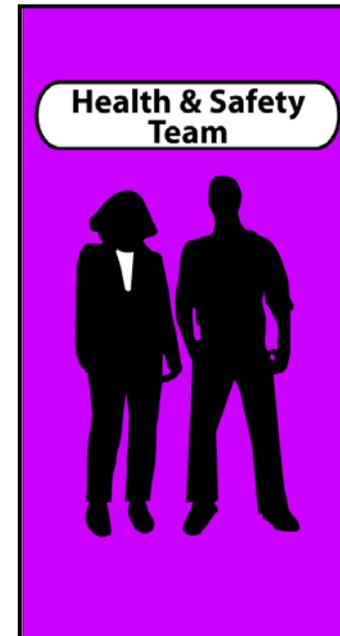
- **Vaccination Teams** provide the expertise and resources to vaccinate premises
  - **Resource Management** must be in place to receive the first vaccination team, since these are federal resources.
  - Vaccination can only take place in counties without an infected premises.



# Exercise components



- **Health and Safety Teams** provide the expertise and resources to mitigate worker safety issues that may arise during the game.
  - Health and Safety teams represent a wide spectrum of expertise, such as HAZMAT, on-site medical care, and/or the ability to investigate a hazard
  - Only 2 Health and Safety Teams are available. They can be deployed *in addition to* other teams (these teams are “free”).



# Exercise components



- **Disease-spread cards** tell how the infection spreads each turn
  - each infected premises gets a card
  - each card is different
  - cards should be drawn at random

*The following is potential disease spread over the last 3 days.*

<b>Spread From:</b>	<b>Spread To:</b>	<b>Mitigation Factors</b>			
Butler Triangle	Butler Backyards	Q		B	V
Cleburn Wildbirds	Johnston/tribal Wildbirds				
Lee LivebirdMkt	Lee Backyards	Q	M	B	V
Pettigrew Triangle	Kirkpatrick Triangle		M		V
Pettigrew Triangle	Lee Triangle				V
Pettigrew Triangle	Pope Triangle	Q			V

# Exercise components



- **Event cards** cover other requirements that may be placed on responders
  - Draw one Event card if only one infected county; draw two cards if two or more counties are infected
  - If the conditions described on the card do not apply to the current situation, players should disregard the card
  - If the conditions described on the card are consistent with the current situation, players must carry out the instructions on the card fully to the best of the capability, regardless of the cost.
  - Some event cards make additional resources available



# Exercise components



- **Health and Safety cards** represent specific worker safety issues that may arise
  - Draw one Safety card if only one infected county; draw two cards if two or more counties are infected
  - Players should discuss the situation that is described on each card (for up to 5 minutes per card)
  - **Players will then decide the effects of that issue on the game play.**
  - For example, players may choose to recall a team that is in an unsafe situation. Players may also decide to retrain teams, or to note that the situation exists but continue with team actions as planned.

## Operations Health and Safety Card

- The Quarantine & Tracing team at this location has been attacked by bees. A couple of them have had a nasty reaction. They didn't think it was a risk because they've seen bees at all the other premises they've been to and this was the first time they've been attacked.

# Initial scenario



- NAHLN laboratory reports positive lab test (PCR) result for samples from commercial poultry operation in Pettigrew County (Triangle Network)
- At this point, it is identified as an H5-type virus, and a response operation is anticipated to include federal, state, local, and industry personnel.
- Incident Commander has two teams available to initiate operations:
  - One quarantine and tracing team
  - One additional team of his/her choosing
- Players should assume the role of a Safety Officer who advises the Incident Commander

*Note: a Safety Officer has authority to stop field operations if a hazard exists. Players may need to assess whether to do so.*

# First turn of game play





# Questions?



- Next, we will break-out into smaller groups for playing the game
  - Each group will have a facilitator from CNA and a subject-matter expert from the conference planning committee
  - Each group should return at 4 pm with 3-5 points for a review /hot-wash discussion
- CNA facilitators
    - Rosemary Speers
    - Brad Dickey
    - Joel Silverman
    - Lauren Bell
    - Carnie Abajian
    - Bruce Borey
    - Alarik Fritz
    - Matt Grund
    - Ciro Lopez
    - Bob Morrow
    - Jessica Stewart
    - Eric Trabert