

Layer Biosecurity

USAHA Transmissible Diseases of Poultry - Oct 2015



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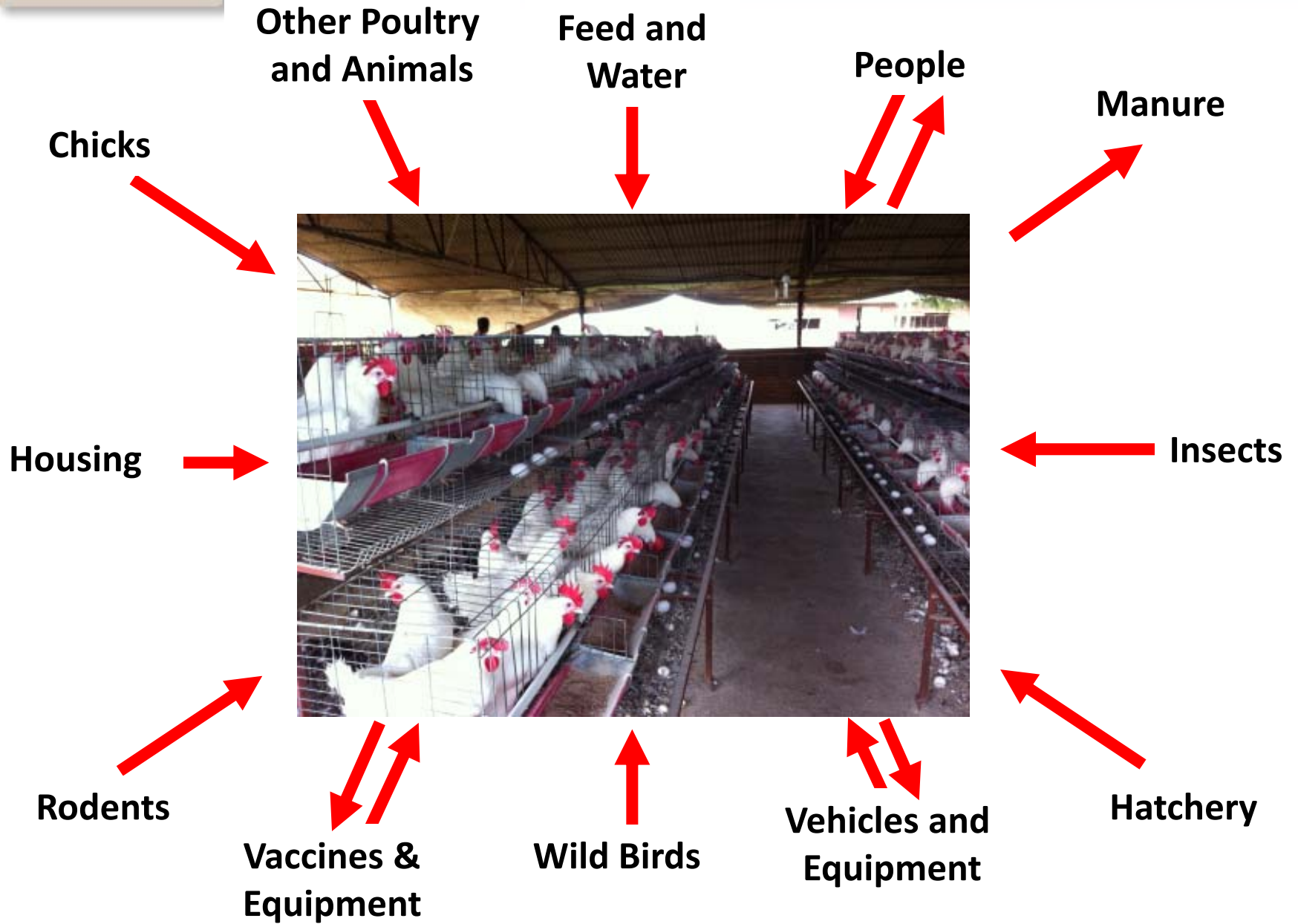


Historical Disease Control by Vaccination

▀ Adequate immunization:

▀ Marek's, infectious bursal disease, *E. coli*, avian encephalomyelitis, *Mycoplasma gallisepticum*, fowl pox, infectious laryngotracheitis, infectious bronchitis, and Newcastle disease

▀ *Mycoplasma synoviae* as challenge model...



Layer Complex Daily Inputs/Outputs

- ▲ Contract crews
- ▲ Farm personnel
- ▲ Lunches
- ▲ Tools
- ▲ Personal vehicles
- ▲ Feed ingredient trucks (Hundreds!)
- ▲ Feed trucks
- ▲ Pullet trucks/carts
- ▲ MAK carts/CO2 tanks
- ▲ Package deliveries - UPS, USPS, FedEx
- ▲ Office supplies
- ▲ Egg packing materials
- ▲ Eggs
- ▲ Manure handling trucks
- ▲ Manure
- ▲ Tractors
- ▲ Liquid egg trucks
- ▲ Dead birds







All are potentially shared
and difficult and
expensive to clean
(\$\$\$ and time)

Manure Handling



- **Belted style houses produce dry manure**
- **“Local” land application may be 50+ miles**
- **Neighbors spreading manure/litter on windy days**
 - Contaminate equipment/personnel
- **Difficult to wash trucks/tractors**
 - A dirty job!
 - Many trips to move manure

Contract Crews in Layer Facilities

Contract crew activities:

-  Vaccination
-  Beak treatment
-  Pullet moving
-  Trucking
-  Flock depletion
-  Farm staffing?

Downtime difficult to enforce

-  How to get an honest answer?
-  Want full time work

Considerations for Contract Crews and Employees

- ▮ Personal vehicles
- ▮ Clothing and shoes
- ▮ Lunches
- ▮ Where they live, who they live with?
 - ▮ Cross traffic in small towns

Geographic Biosecurity

- **Infected layer complexes produced insane amounts of HPAI virus**
- **Wouldn't want to be downwind!**
- **Filters are not economical...**

Biosecurity Limitations

Communication

-  Mandating rather than discussing

Understanding all farm inputs and out-puts

-  Shower in-shower out sounds so nice!

-  Is all equipment “showering in”?

-  Truck sanitation

Management and farm staff buy-in

-  What “pencils out”

-  Practices followed everyday, every time

Deviations from protocol

-  How and who handles?

Employee Buy-In

- ▮ Describing why procedures are important
- ▮ Provide choices:
 - Footwear and clothing – comfort and safety
 - Minimize inconvenience (not for the pathogens!)
- ▮ Feedback on reality vs written protocol
 - Anonymous? Regular meetings
- ▮ All visitors, contractors, maintenance, management must follow same procedures
- ▮ Incentives
 - Example: build in shower time for hourly
- ▮ Short-cuts cause problems

Conclusions

- ▮ **Cultural biosecurity takes time and repetition**
- ▮ **Top down, bottom up involvement**
- ▮ **Practical and effective > complicated**
- ▮ **Education at every opportunity**
- ▮ **Continual improvement**

“Biosecurity is inconvenient.”
- Dr. John Glisson



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