

UC CE



Maurice Pitesky, DVM, MPVM, Dipl. ACVPM Assistant Specialist in Cooperative Extension, University of California Poultry Health and Food Safety Epidemiology, School of Veterinary Medicine June 8th, 2017

Questions?





What is Extension?





* Extension specialists, researchers and Farm Advisors Mission Statement: Using UC Research capabilities to help deliver healthy food systems, environments and communities

- 200 locally based CE advisors and specialists
- 57 local offices
- 130 campus based CE specialists
- 9 research and extension
- centers
- 700 academic researchers

http://ucanr.edu/

New UCCE Poultry Website

Show all



UC CE Poultry

Resources

Husbandry. Production Type

Food Safety

Disease Prevention

Additional Resources

Backvard Poultry

In the Incubator

Kids Coop

Need a Veterinarian Who Works with Poultry???



Currently we have over 20 veterinarians in 15 California counties

What is the UC Davis Pastured Poultry Farm?

Innovation, Research and Outreach hub for:

- Pastured poultry and free-range commercial poultry producers
- Researchers/educators
- Auditors and other stakeholders



Our focus in on pastured and freerange systems

Our goal is to improve these systems using <u>practical technology</u>, <u>research and outreach</u>



Why do we need a pastured poultry farm?

Farmers want to know about:

Food safety Regulations Production Physiology (molting etc) Welfare Genetics Coop design Equipment Diseases Sustainability



<u>Retailers</u> want to make sure that the small farms they contract with are producing healthy food in a sustainable fashion

Disease Transmission



Biosecurity: A set of management practices designed to help reduce the introduction and spread of disease-causing organisms onto and between farms.

2001-2011 Frequencies and Percentages of Diagnoses by Etiological Types



TOTAL = 3178 DIAGNOSES

Senties, (2012)

2001-2011 Top Backyard Poultry Diseases



Senties, (2012)

So How Do We Prevent Exposure to Those Diseases? There Is No Silver Bullet...

- Need to use a combination of management practices to maximize efforts.
- But keep in mind that it is impossible to eliminate risk completely.



Most poultry diseases do not have a cure making prevention key!

- Our clothes, glasses and shoes can carry disease-causing agents so wear some type of PPE to reduce the probability of bringing in disease onto and out of the farm.
- PPE include:
 - Hairnets.
 - Coveralls and disposable coveralls for visitors.
 - Rain boots and disposable plastic boots.
- Applied hand sanitizer to our hands before entering the coop area too.





Wildlife

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Knowing what you are up against can help you determine what tools and strategies to use and therefore maximize your efforts.

What About At Night?

- •We used motion sensor cameras to monitor wildlife during the day and at night.
- •Good to keep nocturnal wildlife in mind (ie. opposums, raccoons).





Shade/Shelter Structures





- Birds can go underneath for shade.
- Offers protection from predators.
- For instructions on how to build, visit:

http://ucanr.edu/sites/poultry/files/236853.pdf

- We used Google Forms to capture data on husbandry, production, disease status, wildlife etc.
- Detailed instructions on how to set one up available on our website at: <u>http://ucanr.edu/sites/poultry/files/229442.pdf</u>



Predator Repellent Tape



- Relatively inexpensive from \$7 (150ft) to \$27 (100ft).
- Easy to use/install.
- Attach to 6-8in. string and hang around farm.
- Hang strategically in trees, at eye level for ground predators and around enclosures.
- Can potentially scare your birds so they should placed farther away from flock.
- Humane; flashes in all directions in the sun and makes a noise as it flaps in the wind.
- Need to move it to different locations regularly so wildlife wont get acclimated.
- Reviews vary.

Coyote/Fox Decoy





Also, remember fencing!

- \$30-\$67.
- Also, easy to use/install.
- Humane.
- Must be moved around to be effective (consider changing position daily); birds can start to catch on.
- May be why some reviews are poor, not being used properly.
- Need about one decoy per 1/4 acre.

Restrict Access to Feed

- If rodents and other wildlife can't access feed, they will go somewhere else.
- Bungee cord makes the lid hard to take off.
- Make sure to clean up spilled
- No waste feeder: Didn't see waste but birds may have a hard time adjusting to the design if you start with this design mid-flock.



(Facebook pic, 2016)



(My Pet Chicken Blog, 2016)



Important Differences

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Mice

- Mainly vegetarian
- Shy; tend to avoid contact with humans
- Not adequate swimmers
- Can drink water less frequently
- Nest site ~10ft. to 30ft. from food source
- Conservative behavior; tend to follow the same tendencies (ie. same feeding routes)

Rats

- Eat a wider range of foods, such as eggs, birds, small animals
- Curious, less shy
- Good swimmers; willing to swim in order to reach food or harborage
- Require water daily
- Nest site ~50ft. to 100ft. from food source
- Will change behavior if find better food or shelter





Traps

- Place along the high-traffic spots and along potential runways (ie. walls, beams).
- Should move them around since rats can change routes regularly.
- Rats tend to avoid traps with another rat inside so need to clean them out after one capture.
- Mouse traps can be checked every two-weeks; mice will still go into the trap even if there's mice inside.
- Check them regularly and keep good records of how many rodents have been captured to make sure they are working and to assess how severe the infestation is.
- Rat infestation trickier to asses since they are harder to trap.
- So need to actively look for signs of them (ie. feces, chewing marks, burrows, fur, tracks).





Electric Fence

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- Portable electric fence help with husbandry and predator control
- •Will have to make sure it has good charge and that it is working regularly.
- Walk along the fence once a week.
- •Keep the pasture low around the fence to keep the fence circulation going.





Quarantine Pen

-CI

- Quarantine new birds for at least 30 days.
- Isolate sick appearing (ie. lethargic, droopy eyes) birds away from the flock.
- Instructions on how to build this specific sick pen available at:

http://ucanr.edu/sites/poultry/files/236853.pdf







Buffer Zone Around Pasture Fence

- Buffer zone between fencing and pasture can help make weak spots/signs of entries more visible and tell you about nearby wildlife.
- Good habit to walk along the perimeter of the fence.







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