

# University of California Cooperative Extension Sacramento County: 100 Years & Counting!



Problem-solvers, catalysts, collaborators, stewards and educators.  
Since 1914, UCCE scientists and academics, along with community partners, have been helping make California the nation's leading agricultural state.

# University of California Cooperative Extension

- a National/Local Publicly Funded Educational System
- Links Education and Research through  
Land Grant Universities with County Residents
- Specialists @ UC Berkeley, Davis, Riverside, Merced,  
Santa Cruz - Statewide Scope
- Advisors - County Based/Regionally-Focused
- Use SCIENTIFIC Research to Meet Community Needs

## UCANR Strategic Initiatives



## Endemic/Invasive Pests & Diseases



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## Healthy Families & Communities



## **Sustainable Food Systems**



## **Sustainable Natural Ecosystems**



## **Water Quality, Quantity and Security**

# UCCE Sacramento County



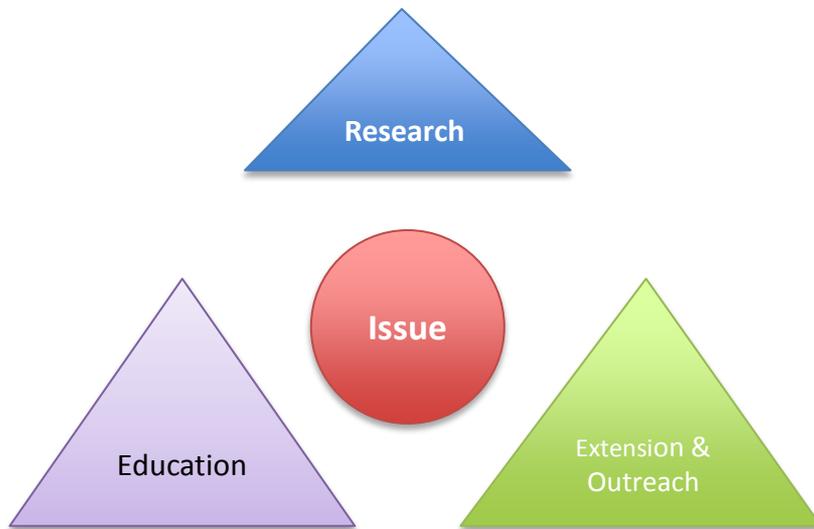
Goal: Work As a Team To:

- Collaborate with Local Communities
- Identify Critical Emerging Community Needs in Agricultural, Natural Resources & Family Sciences
- Develop Research & Educational Programs to Help Solve Local Problems



# Our Approach to Outreach, Action and Involvement

1. Identify Issue
2. Conduct Research
3. Measure/Monitor Potential Impact
4. Select Educational Approach
5. Conduct Outreach & Program  
**Assess & Evaluate;**  
**ID Further Needs.**  
**...100 Years & Counting!**



# 100 Years of Cooperative Extension

## Practical. Connected. Trusted.

UC Agriculture & Natural Resources is celebrating the centennial of the passage of the Smith-Lever Act and the beginning of Cooperative Extension in California.

- Local Programs:
  - Master Gardeners
  - 4-H
  - Viticulture
  - Weed Science
  - IPM
  - Livestock/Rangeland & Natural Resources Mgmt
  - Watershed Management
  - Urban Ag
  - Food Systems

# People we Serve

- ✓ Low-income Families
- ✓ Grandparents
- ✓ Senior Citizens
- ✓ Low-income mothers with young children
- ✓ Schools serving low-income children
- ✓ Teens
- ✓ Community Based Organizations
- ✓ Park and Recreation Department
- ✓ Youth Development Professionals.
- ✓ Community Health/Human Services Providers
- ✓ Professional Organizations
- ✓ School and Public Ground Services Agencies
- ✓ General Public





# UC Cooperative Extension

Serving the People of  
Sacramento County



**Supported by County Agriculture Departments Everywhere in California!**



# **Urban Agriculture – Urban Poultry Risk Management Workshop!!**

**Rob Bennaton**

**Bay Area Urban Agriculture Advisor**

# **What Growers can do: Risk Management Tips for Urban Chicken Keepers....**

# 10. Use Clean Soil

- For New Chicken Runs
- Have Soil Tested  
by a Certified  
Soil Lab



# 9. Add Clean Cover



**If You Have Already Existing Runs:**

- **Clean/Tested Soils**
- **Clean Mulch/Straw**
- **Clean Compost –  
Feed Stock**

# 8. Use a Feeder Instead of Scattering Feed



**Helps Reduce the Soil  
Amounts Chickens  
Ingest**

- Consider Food Scraps Feeding**
  - Produce Scraps vs. Protein Scraps**
- Store Bought or DIY Works**

# 7. Be Aware of/Look for Possible Contaminant Sources

- Site History

Heavy Metals/Lead/Perc?

--> **Manage Risk**

→ Create Coop Away from Known Potential or Historical Contaminants



# 6. Limit Foraging Activity if Known Risk (Soil Quality, Food Safety, Avian Exposure, Other)



# 5. Remove Small Loose Objects

## Ingestion Risks:

- Physical/Veterinary
- Soils Contaminants
- Flock Food Safety



# 4. Don't Feed Chickens Unwashed Plant Material

- Especially from Contaminated Garden/Farm/Yard Areas
- Consider Your Plant Sources (your lawn, urban gardens & farms, kitchen scraps, etc.)



# 3. Provide a Calcium Supplement

- Important for Laying Hens
- Research Suggests May Reduce Lead (Pb) Uptake into Eggs



# 2. Clean Coop=Healthy Flock



# 1. Clean the Coop Often



# Understanding Your Test Results for Chicken Run Soils/Eggs

- **Egg Lead Levels ~→ FDA's Recommendation:  
[Pb] in CANDY not > 0.1 ppm**
- **European Guidelines - > 0.10 - 0.3  
for solid foods, none specific to eggs**

**Think: Relevant Frames of Reference to Reduce  
Potential Exposures**

# Chicken Run Soils

- IF Soil Lead Test Result < 80ppm,  
no specific practices recommended
- IF Soil Lead Test Result > 80ppm,  
add clean soil/clean cover material
- IF Soil Lead Test Result was higher than  
Guidance Value > 80ppm/400ppm...  
try the following practices:

# Discourage Flock from Eating Soil

- **Avoid Feed Scattering of**
- a. scratch grains and**
  - b. foodscraps**

**Provide Flock regular feed, grit, and calcium supplements in feeders.**

# Chicken Eggs

- IF Eggs-[Pb] <0.02ppm-  
~Similar Levels of [Pb] as Store bought Eggs
- IF >0.02 - 0.1ppm  
→ low risk at Egg Consumption of 2-3/week.
- If Eggs-[Pb] is between 0.1 - 0.30ppm  
→ High Potential Risk for (Esp. for Children)  
at 1 Egg/day over Time...

# Chicken Eggs

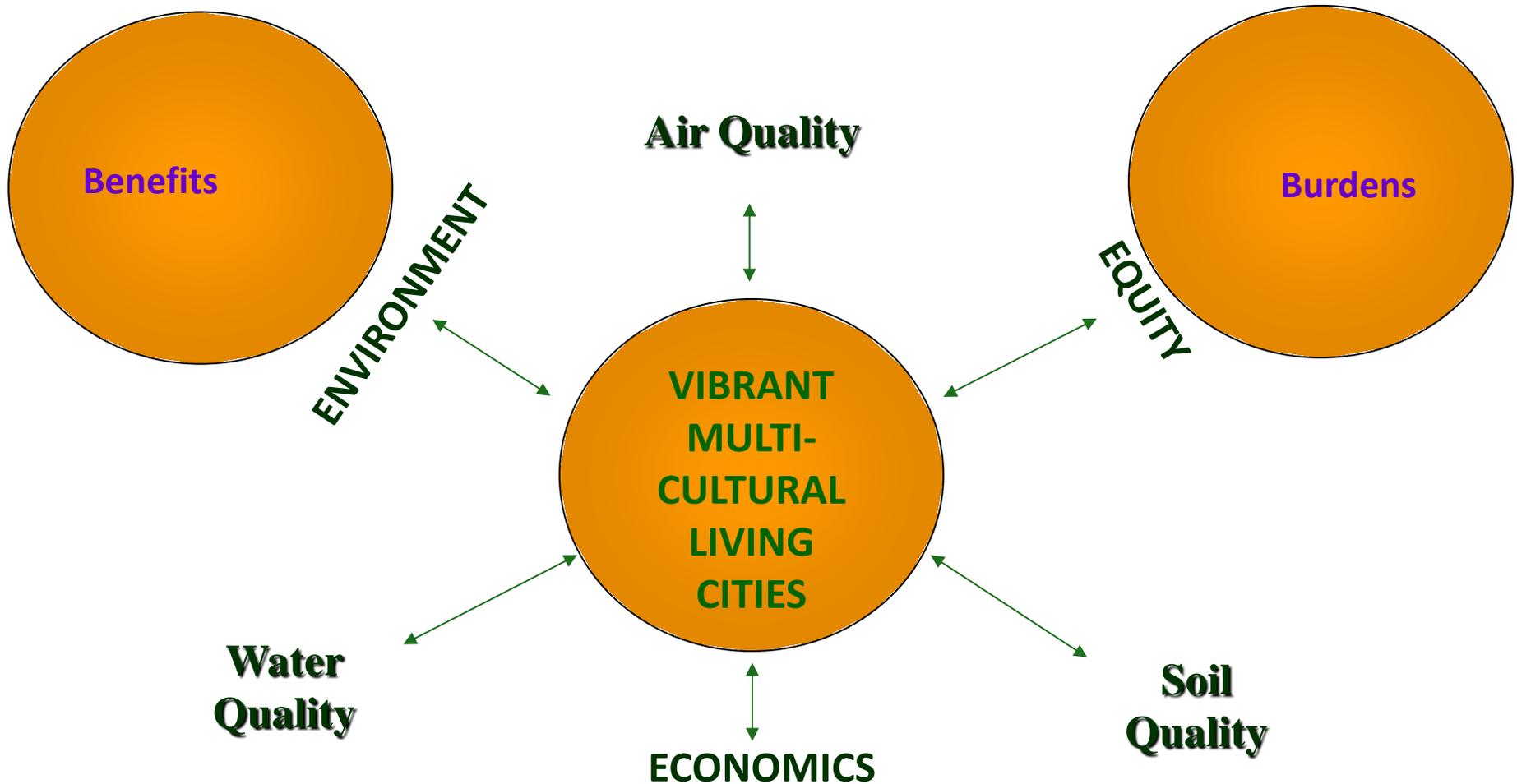
If Eggs-[Pb] > 0.1 and 0.30ppm-

**High Potential Risk for Children**

**at 1 Egg/Day over Time...**

- Remove Dust/Soil/Manure/Feathers from Eggshells
- Consider Serving Fewer Egg Yolks

# Urban Ag Contributes ...



# Urban Ag As it Grows...



# Credits

**Cornell Cooperative Extension:**

**Healthy Soils, Healthy Communities Project**

**Reyna Yagi, (current)**

**Urban Agriculture Prog. Coordinator, UCCE NorCal**

**Diego Ortiz, (former)**

**Urban Agriculture Prog. Coordtr., UCCE Alameda**

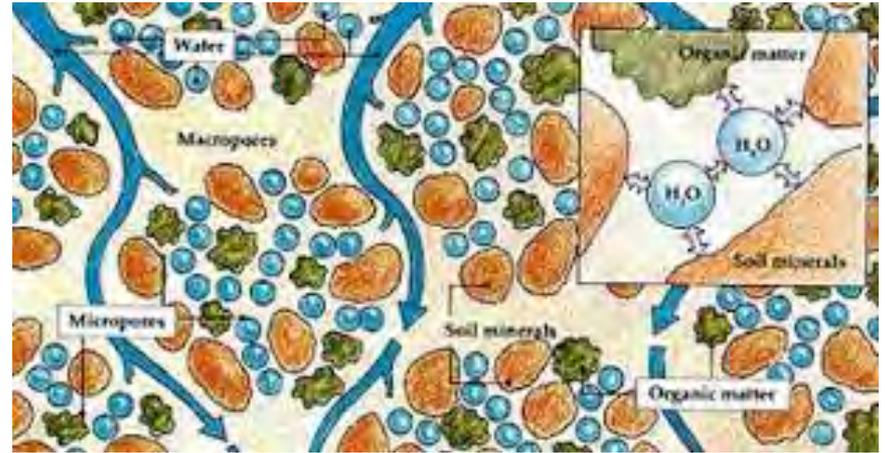
**Dr. Maurice Pitesky, UC Davis Vet. Medical School**



# Let's Grow Together!

*Future 4-Hers, Urban Farmers,  
Composters, Food Preservers And Gardeners!*

*Happy & Safe  
Growing!  
From  
UC Cooperative  
Extension!*





# University of California Cooperative Extension

**Sacramento County: 100 Years & Counting!**

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**Learn more about our UC Cooperative Extension  
County-Based Programs at:**

**On Urban Ag:** <http://ucanr.edu/sites/UrbanAg/>

**UCCE Sacramento County:**  
<http://http://cecapitolcorridor.ucanr.edu/>