

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

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University of California
Agriculture and Natural Resources

## 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 FoodScraps Feeding-Produce Scrapsvs. Protein Scraps

-Store Bought or DIY Works

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## 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.)



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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,</li>
   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-</li>
   ~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...

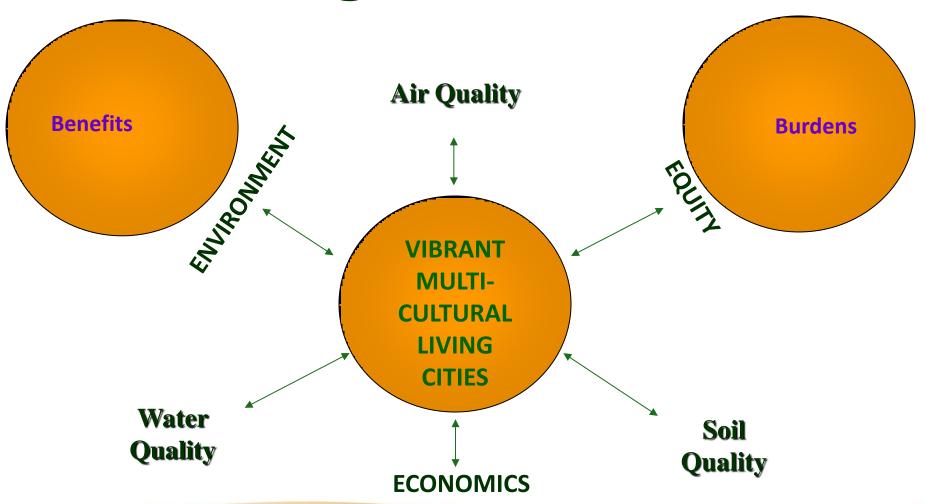
#### **Chicken Eggs**

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



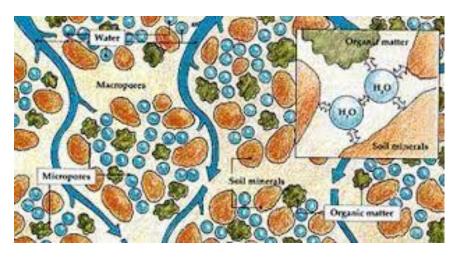


# Let's Grow Together!

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

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# Happy & Safe **Growing!** From



UC Cooperative

Extension!





## **University of California Cooperative Extension**

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

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Learn more about our UC Cooperative Extension

**County-Based Programs at:** 

On Urban Ag

**UCCE Alameda County:** 

**UCCE Contra Costa County:** 

http://ucanr.edu/sites/UrbanAg/

http://cealameda.ucanr.edu/

http://cecontracosta.ucanr.edu/

