

Agriculture and Drought: Implications for Food Security

Wednesday, July 21, 2015

12 pm - 1 pm

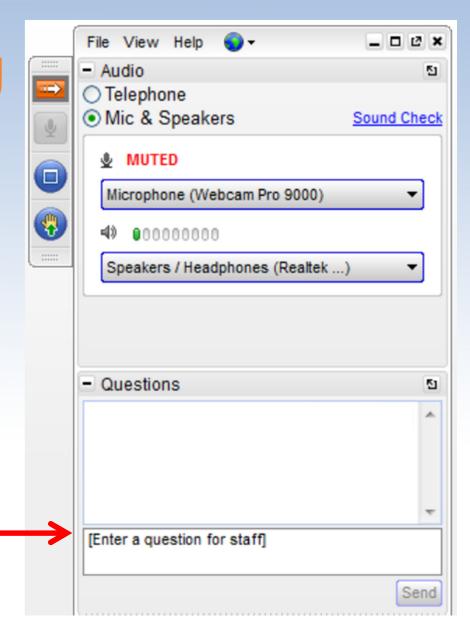
Technical difficulties? Call (855) 352-9002

Housekeeping

Recording and slides will be available at:

http://phasocal.org/waterinitiative/webinar-seriespublic-health-leadership/

If you have a question for the panelists or staff (including technical difficulties), please enter it via the **Q&A Panel.** —

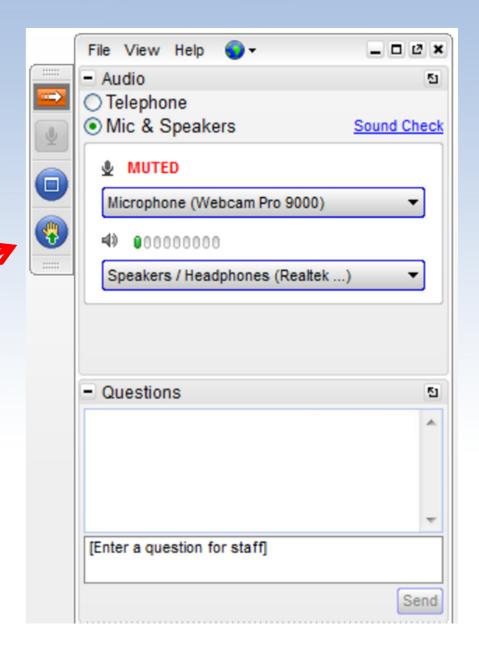


Raise Hand Feature

We want to hear from you!

Join the discussion by using the Raise Hand Feature

To contact GoTo Webinar with technical difficulties, call: (855) 352-9002



Public Health Alliance Vision

All Southern California communities are healthy, vibrant and sustainable places to live, work and play.

9 Local Health Departments:

- Orange
- Long Beach (City)
- Los Angeles
- Pasadena (City)
- Riverside
- Santa Barbara
- San Bernardino
- San Diego
- Ventura

Nearly
60%
of CA Population



http://phasocal.org/

Today's Speakers:

The Public Health Alliance of Southern California would like to thank our presenters for participating in this webinar and sharing their expertise.



Paula Daniels **Executive Director** California Central



John Krist **Executive Officer** Farm Bureau of **Ventura County**

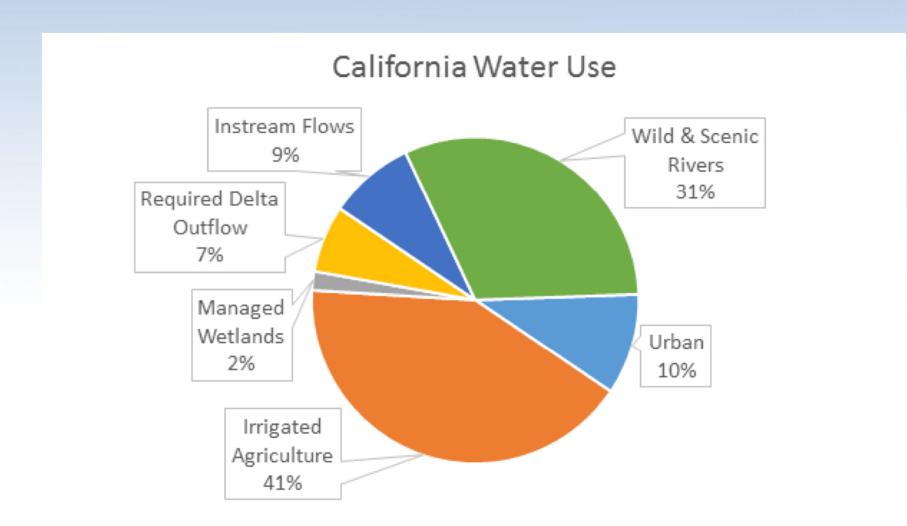


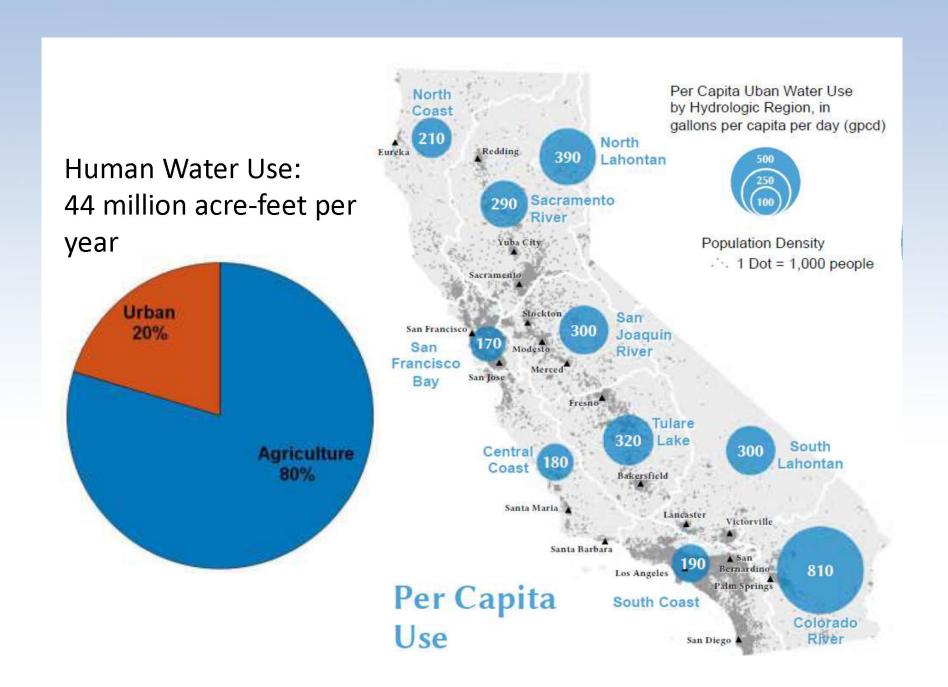
Christy Porter Founder and Executive Director Hidden Harvest

California Agriculture

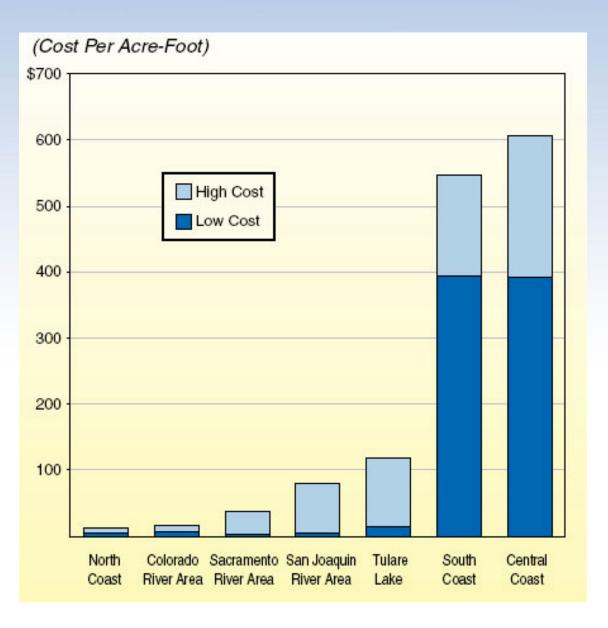
- 400+ agricultural commodities
 - Half of all US-grown fruits, vegetables, nuts
- California's top-ten valued commodities (2013)
 - Milk \$7.6 billion
 - Almonds \$5.8 billion
 - Grapes \$5.6 billion
 - Cattle, Calves \$3.05 billion
 - Strawberries \$2.2 billion
 - Walnuts \$1.8 billion
 - Lettuce \$1.7 billion
 - Hay \$1.6 billion
 - Tomatoes \$1.2 billion
 - Nursery plants— \$1.2 billion
- Agricultural exports: \$21.24 billion (2013)
 - Almonds
 - Dairy and dairy products
 - Wine

Agricultural Water Use in California

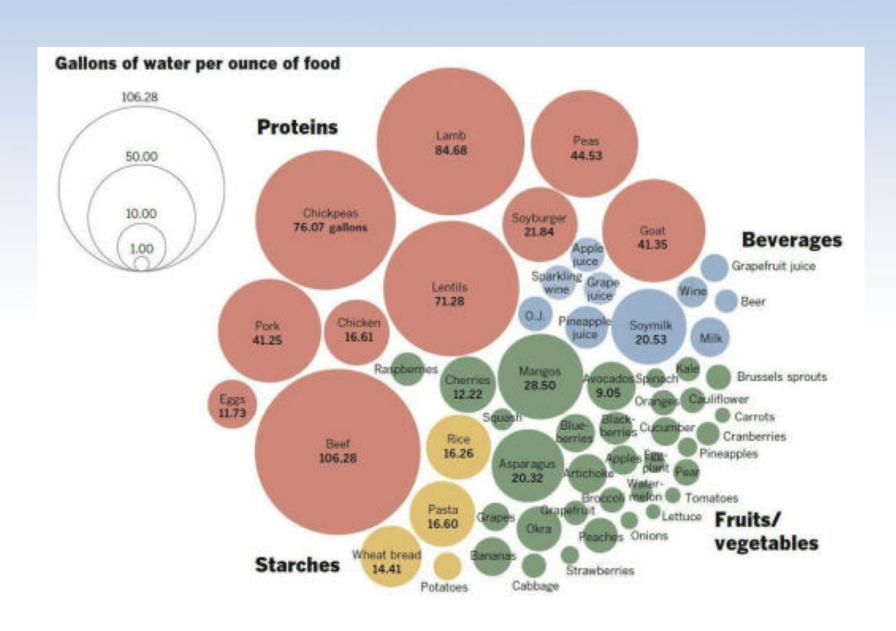




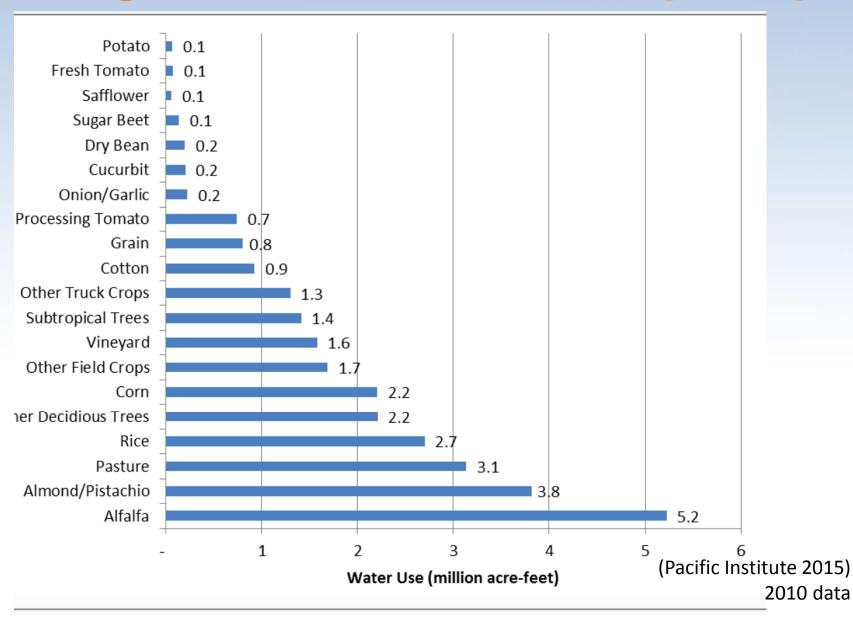
Agricultural Price of Surface Water



Relative Water Footprint of Foods



Total Agricultural Water Use by Crop



Impacts of 2014 Drought on CA Agriculture

- Direct costs to agriculture total \$1.5 billion (3% total ag value)
 - Revenue losses of \$1 billion
 - \$0.5 billion in additional pumping costs
- Loss of 17,100 seasonal and part-time jobs related to agriculture, 3.8% of farm unemployment
- 428,000 acres (5%) of irrigated cropland is going out of production in the Central Valley, Central Coast and Southern California due to the drought
- The Central Valley is hardest hit, particularly the Tulare Basin
- Central Coast and in Southern California agriculture less affected, with about 19,150 acres fallowed, \$10 million in lost crop revenue and \$6.3 million in additional pumping costs.

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Hidden Harvest "rescued" tomatoes



Hidden Harvest crew harvesting lettuce

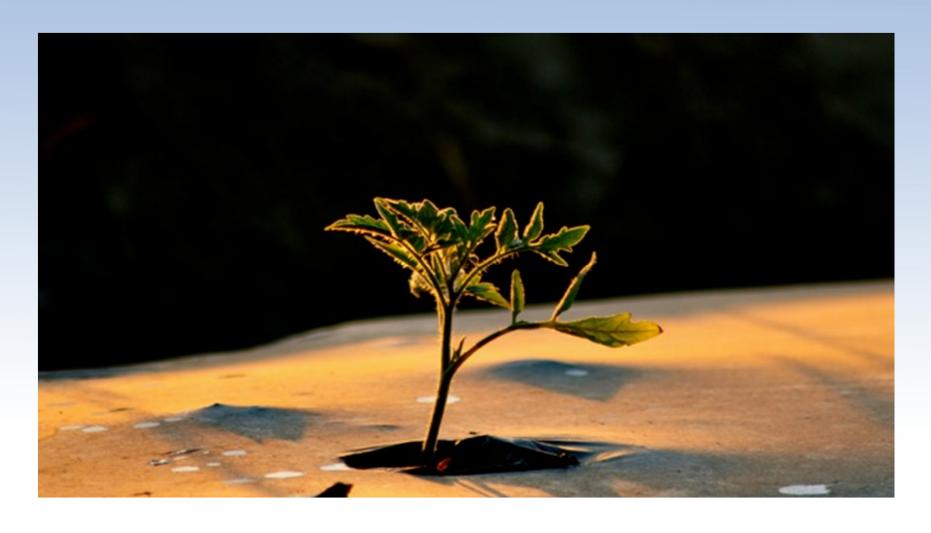


Carrot harvest





Hidden Harvest crew harvesting peppers



Tomato plant



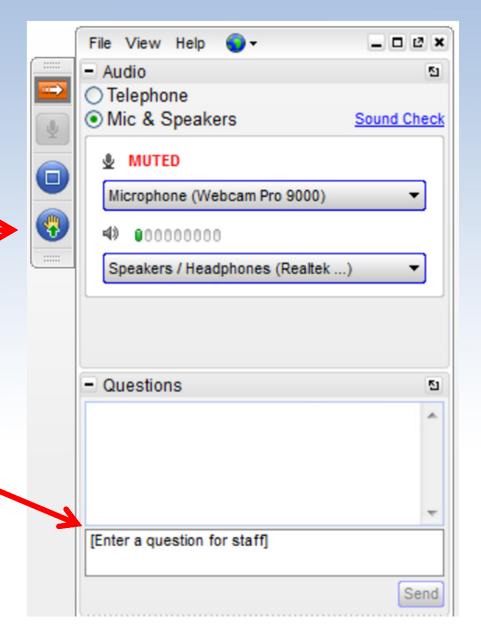
Sprinklers in Coachella Valley field

Group Discussion

Join the discussion by using the Raise Hand Feature —

OR

Ask questions by using the **Q&A Feature**



Group Discussion

- What actions can local health departments take to encourage long-term production of diverse healthy foods in the region?
- Allow use of recycled/grey water eliminate inconsistencies and more stringent rules at the municipal level
- Water security as food security issue increase supply by reusing water for agriculture use
- Procurement policies to give growers more latitude
- Minimize obstacles for recycled water use
- Understanding how food is grown people realize value of food and the water to produce it
- Ecosystem approach affordable housing including food production as health benefit (including aquaponics)

Group Discussion

- Composting facilities are difficult to place
- Incentivize farmers to provide ecosystem services?
 - Prop. 1 incentives
 - AB 32 cap and trade funding for sustainable communities and ag.
 lands
 - · Determining benefits to individual growers
 - Well managed soil
 - Food safety drives much of what growers do

Thank you to our speakers!



Paula Daniels



John Krist



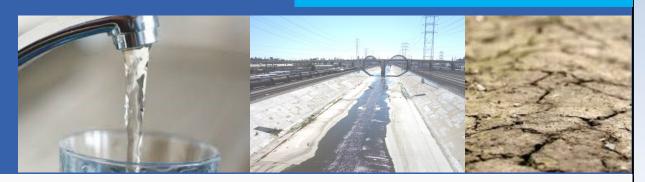
Christy Porter

The Public Health Alliance of Southern California presents:

WATER:

ACitical Rubic Health Issue

What is our role?



May 27 (12-1 pm): The Water Crisis and Health 101: An Introductory Webinar

June 24 (12-1 pm): Drought Impacts on Disadvantaged Communitie: rM itigatio &ra tegies

July 22 (12-1 pm): Agriculture and Drought: Implicatios for Food Security

August 26 (12-1 pm): Water and Emergency Prepaædness: Innovativ @p ortunitie

September 23 (12-1 pm): Thinking Local- The Role of Health Leadership in Water Recapture

October 28 (12-1 pm): Local Government Toolbox: Taking Actio on Water

November 18 (12-1pm): High Opportunity Levers for Water and Health: Resources, Policy and Next

Who should attend? Public Health Directors; County and City Health Officers; Chronic Disease Directors and lead staff; key water and health partners.

Learn more at: :http://www.phasocal.org/water-initentiv/ or contact Katy Mamen at mamen@PHASoCal.org

Water and Health Webinar Series

Drought, Climate and the Food We Eat (Nutrition)

July 22 (12-1 pm): Agriculture and Drought: Implications for Food Security

August 18 (2-3 pm): Our Diets and the Water Footprint of Regional Agriculture

September 15 (2-3 pm): Water Security for Community and Household Gardens: The Promise of Greywater

October 20 (2-3 pm): Emerging Water-Friendly Production Methods and Foods

November 18 (12-1 pm): High Opportunity Levers for Water and Health: Resources, Policy and Next Steps

http://phasocal.org/water-initiative-nutrition

Water and Health Webinar Series

Water Crisis
Strategies for
Public Health
Leaders

Water, Drought and Environmental Health

Drought, Climate and the Food We Eat (Nutrition)

http://phasocal.org/water-initiative

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Thank you for joining the conversation!

The **recording** and **slides** will be available shortly at http://phasocal.org/water-initiative/webinar-series-public-health-leadership/



Questions?
Contact Katy Mamen
Water Initiative Coordinator
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(707) 239-8879