



**Assessing High Opportunity Next Steps:
Reconvening Leadership, Environmental
Health and Nutrition**

Wednesday, November 18, 2015

12 pm – 1 pm

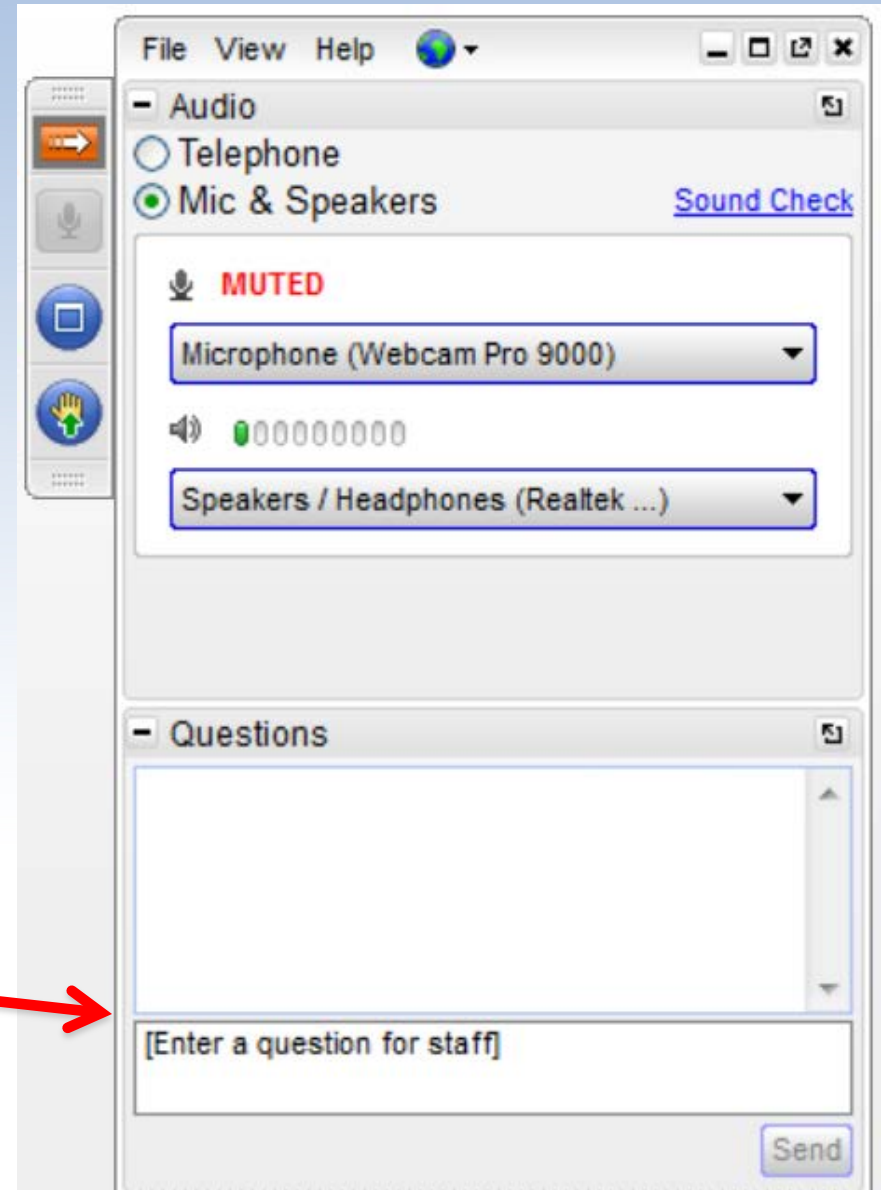
Technical difficulties? Call **(855) 352-9002**

Housekeeping

We want to hear from you!

Join the discussion by using the **Raise Hand Feature**

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



Recording and Slides

Completed Webinars

Click on each webinar title for recordings, presentations, speaker bios, and additional resources.

Webinar 2—Agriculture and Drought: Implications for Food Security

July 22, 2015, 12-1 pm

Healthy regional food systems are a foundation of healthy communities, but how can we preserve local agriculture in the face of threatened water supplies? This question forms the central theme of our webinar on agriculture and water. We will hear more about the changing face of agriculture, future threats, and the host of possible health risks of drought-related agricultural changes. We will address some concrete ways health departments can support healthy agriculture in Southern California.

Webinar 1—Drought Impacts on Disadvantaged Communities: Mitigation Strategies

June 24, 2015, 12-1 pm

This webinar will survey the effects of the drought on disadvantaged communities, including the affordability of water for basic needs, populations without access to water and/or clean drinking water, and the economic and food security impacts in drought-stricken agricultural areas among other issues. Special attention will be paid to the multiplier effects of multiple risk factors. The webinar will address strategies and actions to mitigate the most severe public health impacts.

INTRODUCTORY WEBINAR--Water and Health 101

May 27, 2015, 12-1 pm

This webinar will provide an overview of Southern California water sources, distribution, and use, as well as projections of what climate-related water changes we can anticipate in the future. It will provide a framework to understand the public health impacts of climate-related changes in the water cycle and discuss the role of health leaders in this rapidly changing physical and political landscape.

<http://phasocal.org/water-next-steps>



Introducing our Moderator:



Dr. Tracy Delaney

Executive Director

Public Health Alliance of Southern California



public health alliance of southern california *A Partnership for Healthy Places*

Introducing our Speakers:



Rob Blake, MPH, REHS
Branch Chief
Environmental Health Services, CDC



Colleen Martin, MSPH
Epidemiologist
CDC

When Every Drop Counts: Protecting Public Health During Drought Conditions – A Guide for Public Health Professionals

Rob Blake

Public Health Alliance of Southern California
November 18, 2015



Need for Guidance

- ❑ Recent high profile droughts in the U.S.
- ❑ CDC need for water and continuity of operations
- ❑ Lack of information and guidance on public health and drought
- ❑ Health departments in the U.S. operating on lack of information and guidance



Courtesy of CDC

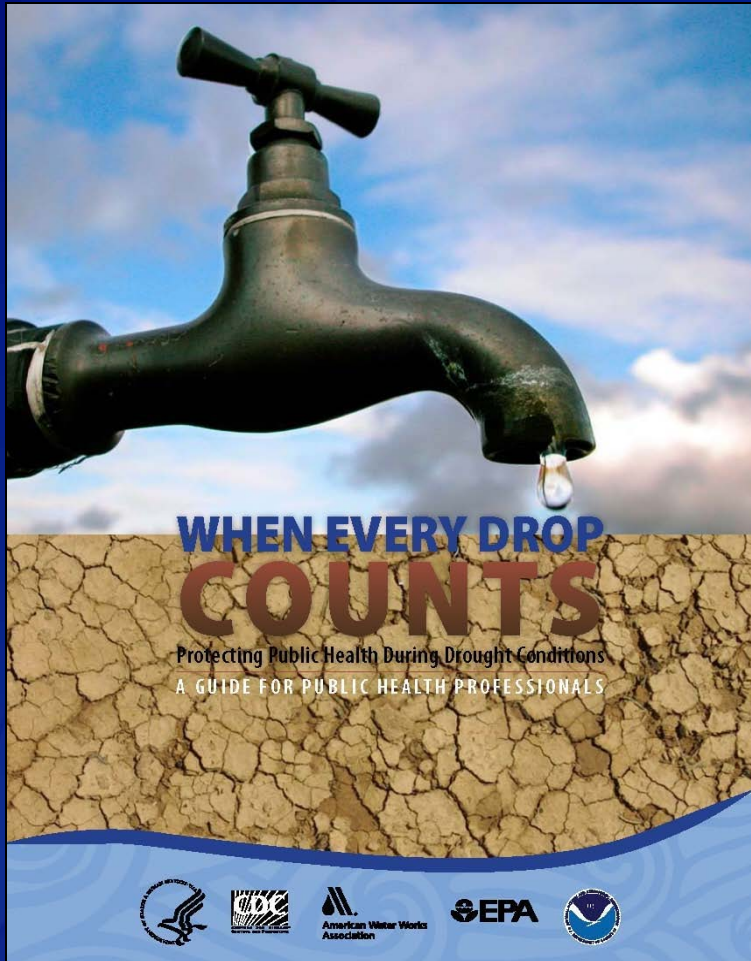
Development Process



- ❑ Search and review of existing guidance/literature
- ❑ Collaboration with internal and external partners and stakeholders
- ❑ Drought workshop
 - Held September 2008
 - Over 50 participating agencies and organizations
- ❑ Draft document development and reviews
- ❑ Final document released

Courtesy of CDC

Target Audience and Scope



- **Who should use it?**
 - Public health professionals, partners, and stakeholders

- **When should it be used?**
 - Before, during, and after drought

Purpose

- ❑ **Assists users in understanding and preparing for drought in their communities**
- ❑ **Provides information about how drought may affect public health**
- ❑ **Recommends steps to help mitigate public health effects of drought**
- ❑ **Identifies future needs for research and other drought-related activities**
- ❑ **Provides additional resources and tools**

This Document is Not...

- ❑ A comprehensive “how-to” manual**
- ❑ A substitute for drought preparedness activities**
- ❑ Intended to replace existing drought plans, procedures, or guidelines**
- ❑ Strict protocols for drought emergency preparedness and response**
- ❑ Intended to make users “subject-matter-experts” on public health and drought**

Content

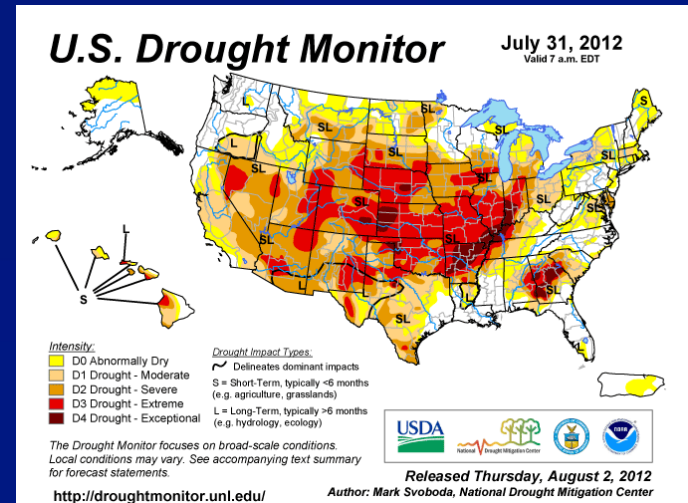
□ Drought basics

- Defining drought
- Past, present, and future trends
- Drought and climate change

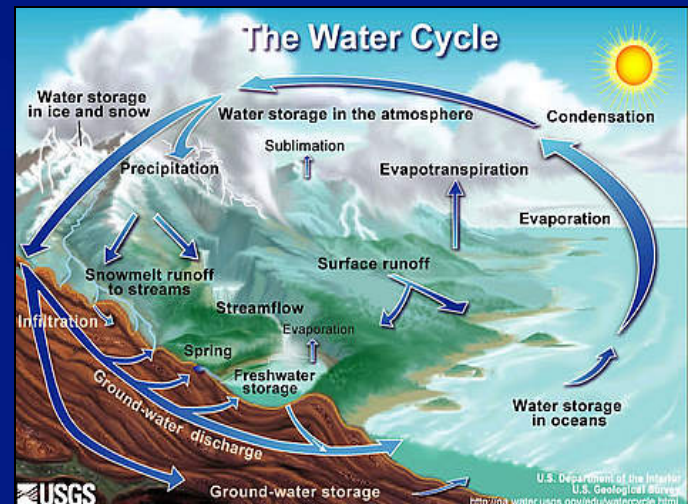
□ Water basics

- Understanding natural cycles in water distribution
- Water resources
- The need for water
- Processes that make ground & surface water drinkable
- Water classifications
- Water recycling and reuse

□ Water-related policy



Courtesy of NOAA



Courtesy of USGS

Preparing for and Responding to Drought

- ❑ **Preparedness (Pre- and Early-stage Drought Conditions)**
 - Conduct internal capacity assessment
 - Participate in a jurisdiction-wide HVA
 - Conduct a public health vulnerability assessment
 - Identify and coordinate with key partners and stakeholders
 - Communicate drought strategies and recommendations
 - Educate and train key partners
 - Develop target mitigation strategies
 - Document and evaluate drought preparedness activities

Preparing for and Responding to Drought

□ Response (Late-stage and Severe Drought Conditions)

- Evaluate drought-related impacts on public health
- Coordinate drought response activities with key partners and stakeholders
- Develop public health response objectives and an action plan, and communicate these to partners and stakeholders
- Assign and use resources to achieve drought response objectives
- Ensure public health participation in incident management systems and structures
- Address requests for information and assistance
- Document and evaluate drought response activities

Future Needs: Drought-related Research and Initiatives

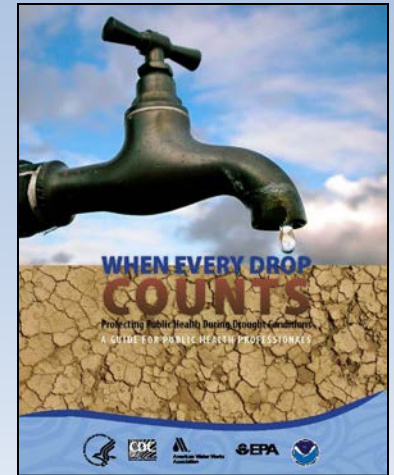
- ❑ **There is still much to be learned about drought and public health!**
- ❑ **Much research is needed in many different areas!**
 - Surveillance data analysis and improvement
 - Environmental monitoring
 - Priority of drought in public health departments
 - Economic impact of drought on public health
 - Lessons learned and best practices



New Drought Initiatives

NCEH EHHE

- Planned areas of focus:
 - Health effects of drought
 - Drought resources guide – planning/response
 - Online tool - location and estimated size of pops. most vulnerable
- Steps:
 - Literature review
 - Work group
 - Conduct assessment – LHDs
- Data Sources – building on existing tools



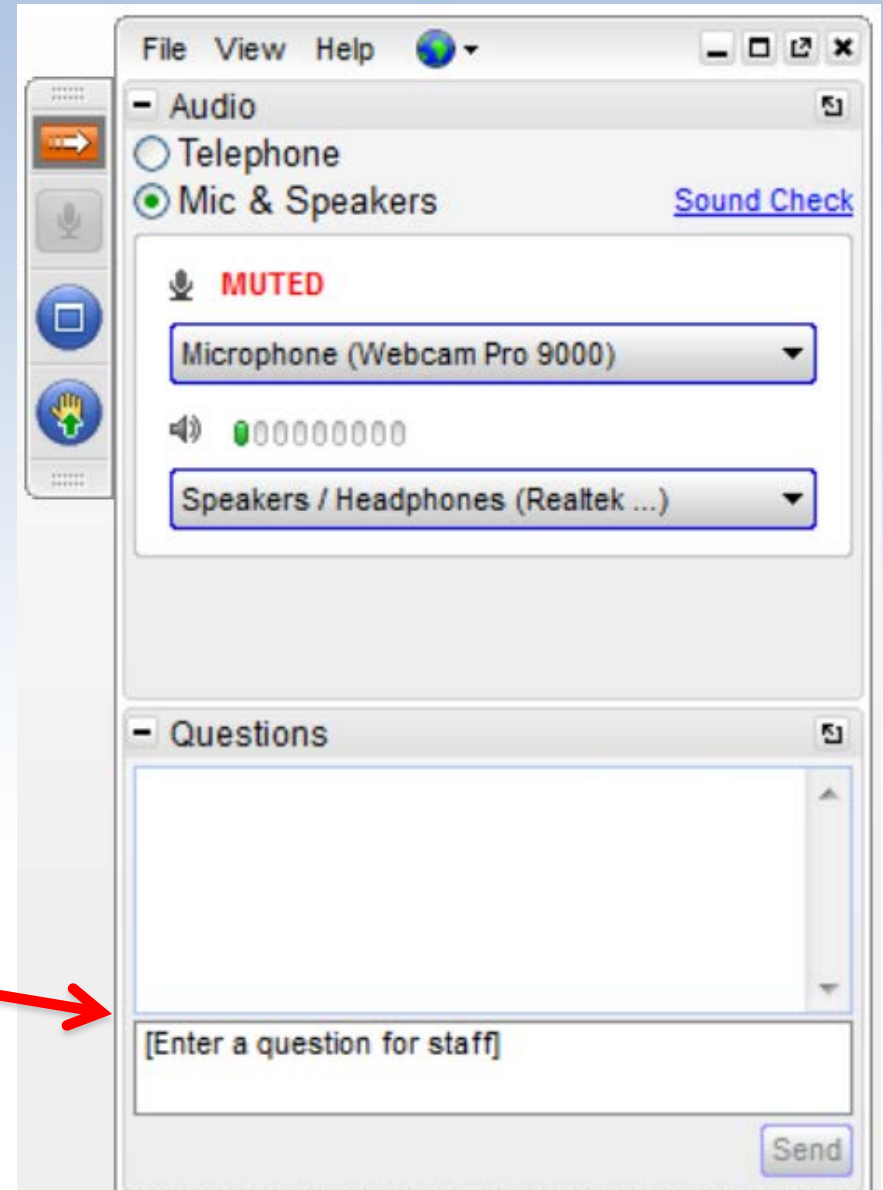
Q&A and Raise Hand Feature

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Join the discussion by using the **Raise Hand Feature**

Or

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



Questions?

Rob Blake,
rgblake@cdc.gov
770.488.4978

www.cdc.gov/nceh/ehs/Publications/Drought.htm

For more information please contact Centers for Disease Control and Prevention

1600 Clifton Road NE, Atlanta, GA 30333

Telephone: 1-800-CDC-INFO (232-4636)/TTY: 1-888-232-6348

E-mail: cdcinfo@cdc.gov Web: <http://www.cdc.gov>

The findings and conclusions in this report are those of the authors and do not necessarily represent the official position of the Centers for Disease Control and Prevention.

National Center for Environmental Health
Division of Emergency and Environmental Health Services



Water Crisis & Health Webinar Series

Water Crisis
Strategies For
Public Health
Leaders

Drought,
Climate and
the Food We
Eat:
Safeguarding
Nutrition and
Food Security
in Dry Times

Water,
Drought and
Environmental
Health:
Practical
Applications
for Mitigating
Public Health
Impacts

The Public Health Alliance of Southern California presents:

Water, Drought and Environmental Health

Practical Applications for Mitigating Public Health Impacts

May: Water and Health 101	Aug: Leading Approaches in Solid Waste Management Regulation
June: California's Water Crisis: Leadership Opportunities for Environmental Health	Sep: Water Reuse: Making the Most of What We Have While Protecting Public Health
July: Regulating Rainwater and Stormwater Capture for Multiple Public Health Outcomes	Oct: Regulation and California's Tightening Drinking Water Standards: Where Do We Draw the Line?



Public Health Alliance of Southern California
Healthy Food Systems Working Group Webinar Series

Drought, Climate and the Food We Eat:
Safeguarding Nutrition and Food Security in Dry Times

May: Water and Health 101

Aug: Our Diets and the Water Footprint of Regional Agriculture

June: ReThink Your Drink: Getting Safe Tap and Drinking Water into Schools and Community Places

Sep: Water Security for Community and Household Gardens and Farms

July: Agriculture and Drought: Implications for Food Security

Oct: Emerging Water-Friendly Production Methods and Foods



The Public Health Alliance of Southern California presents:

WATER:

A Critical Public Health Issue

What is our role?

May: Water and Health 101	Aug: Water and Emergency Preparedness: Innovative Opportunities
June: Drought Impacts on Disadvantaged Communities: Mitigation Strategies	Sep: Thinking Local: The Role of Health Leadership in Water Recapture
July: Agriculture and Drought: Implications for Food Security	Oct: Tapping new opportunities for water and health: Greening jobs and water infrastructure for multiple health outcomes



Thank you to our Speakers!



Rob Blake, MPH, REHS
Branch Chief
Environmental Health Services, CDC



Colleen Martin, MSPH
Epidemiologist
CDC

Thank You to Our Supporters!



public health alliance of southern california *A Partnership for Healthy Places*

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Thank you for joining the conversation!

The **recording** and **slides** will be available shortly at:

<http://phasocal.org/water-next-steps>



Questions?

Contact Katy Mamen

Water Initiative Coordinator

kmamen@phasocal.org

(707) 239-8879

