California Climate Action Team Public Health Workgroup (CAT-PHWG)

Preparing for the Health Effects of Drought
A Workshop for Public Health Professionals and Partners

February 4, 2019 | 10:00 am – 4:00 pm PST
CalEPA Headquarters, Sierra Hearing Room, 2nd Floor, 1001 I Street, Sacramento, California
Webinar link here | Live Webcast link here

Sponsored & Organized by:
California Department of Public Health (CDPH); Centers for Disease Control and Prevention’s (CDC) National Center for Environmental Health, Division of Environmental Hazards and Health Effects; National Drought Mitigation Center (NDMC); National Integrated Drought Information System (NIDIS)

*The CAT-PHWG is co-hosted by the California Air Resources Board and the California Dept. of Public Health

AGENDA

10:00 – 10:30 AM Welcome & Introductions
  • Welcome: Solange Gould, Chief, Health Equity Policy and Planning Unit, Office of Health Equity, CDPH
  • Facilitator: Linda Helland, Team Lead, Climate Change & Health Equity Program (CCHEP), CDPH

10:30 – 10:45 AM An Overview of Drought and California
  • Mike Anderson, State Climatologist, California Department of Water Resources (DWR)

10:45 – 11:00 AM Drought and Health Impacts
  • Jesse Bell, Claire M. Hubbard Professor of Health & Environment, Univ. of Nebraska Med. Center (UNMC)

11:00 – 11:15 AM Assessing Drought Impacts Using Community Assessment for Public Health Emergency Response (CASPER)
  • Jason Wilken, Career Epidemiology Field Officer, Centers for Disease Control and Prevention (CDC) / CDPH

11:15 – 12:30 PM Drought and Health Panel
  • Drought Impacts on Water Supplies - Jeanine Jones, Interstate Resources Manager, DWR
  • Water Quality Changes During Drought Conditions - Betsy Lichti, Chief, Quality Assurance Section, Division of Drinking Water, State Water Resources Control Board
  • Health and Economic Impacts of the 2012-2016 California Drought: Lessons Learned - Josué Medellín-Azuara, Associate Director, UC Agricultural Issues Center, UC Merced
  • Impacts of Extreme Weather Events and Water Policy on Birthweights and Psychological Distress in CA - Kurt Schwabe, Associate Dean and Professor of Environmental Economics and Policy, UC Riverside, and Maithili Ramanchandran, Postdoctoral Researcher in Health & Public Policy, UC Riverside
  • Impact of Climate Change on Vector-Borne Diseases - Robbie Snyder, Epidemiologist, Vector-Borne Disease Section, CDPH

12:30 – 1:15 PM Working Lunch: Drought, Climate and Health Data & Tools Demonstration
  • Cal-Adapt: Linking Climate Science with Practitioner Need - Nancy Thomas, Executive Director, Geospatial Innovation Facility, UC Berkeley / Cal-Adapt Project Lead
  • Climate Change and Health Vulnerability Indicators for California - Jason Vargo, Lead Research Scientist, Climate Change and Health Equity Program, CDPH

1:15 – 1:30 PM Break
AGENDA (continued)

1:30 – 1:35 PM Working Session Overview and Agenda
• Nicole Wall, Research and Outreach Specialist, National Drought Mitigation Center (NDMC)

1:35 – 1:50 PM Mariposa County Drought Response and Recovery Overview
• Eric Sergienko, County Health Officer, Mariposa County Health & Human Services Agency
• Mike Anderson, DWR
• Jason Wilken, CDC / CDPH

1:50 – 2:05 PM Tulare County Drought Response and Recovery Overview
• Tulare County Drought Response - Andrew Lockman, Emergency Services Manager, County of Tulare
• Tooleville Community Vulnerability Assessment - Pedro Hernández, Policy Advocate, Leadership Counsel for Justice and Accountability

2:05 -2:10 PM CDC Data Resources Guide Overview
• Tesfaye Bayleyegn, Senior Service Fellow, Disaster Epidemiology and Response Team Lead / Physician, National Center for Environmental Health (NCEH), CDC

2:10 – 2:20 PM CDC Resources Guide Module 1 – Basics of a Hazard & Vulnerability Assessment
• Tesfaye Bayleyegn, NCEH, CDC

2:20 – 2:45 PM CDC Resources Guide Module 1 – Facilitated Discussion
• Facilitator: Nicole Wall, NDMC
• Jesse Bell, UNMC

2:45 – 3:00 PM CDC Resources Guide Module 5 – Current and Future Resources
• CDC Resources Guide Module 5 Overview: Resources - Tesfaye Bayleyegn, NCEH, CDC
• Building Resilience to Drought Through California Climate Investment grants & California Office of Emergency Services Resources - Linda Helland, CCHEP, CDPH
• Additional Resources

3:00– 3:10 PM CDC Resources Guide Modules 2 & 3 – Basics of Communication Related to Drought Preparedness and Response Strategies
• Tesfaye Bayleyegn, NCEH, CDC

3:10 – 3:30 PM CDC Resources Guide Modules 2 & 3 – Facilitated Discussion
• Facilitator: Nicole Wall, NDMC

3:30 – 4:00 PM Workshop Closing / Wrap Up
• Continued Collaboration - Tesfaye Bayleyegn, NCEH, CDC
• Facilitator: Nicole Wall, NDMC
• Closing Remarks / Post-Workshop Evaluation

Thank you for your participation!
Useful Links and Resources

Workshop Information:
- California Climate Action Team – Public Health Workgroup Meetings (including archived materials and recordings of past meetings): https://www.arb.ca.gov/cc/ab32publichealth/meetings/meetings.htm

Centers for Disease Control and Prevention (CDC):
- Drought & Health: https://www.cdc.gov/nceh/drought/default.htm
- Drought Communication Toolkit: https://www.cdc.gov/nceh/drought/toolkit/default.htm
- National Environmental Public Health Tracking Network: https://ephtracking.cdc.gov/DataExplorer/#/ (select Drought under Content Area in the Data Explorer)


National Drought Mitigation Center: https://drought.unl.edu/

California Department of Public Health:
- Climate Change and Health Equity Program (CCHEP): https://www.cdph.ca.gov/Programs/OHE/Pages/CCHEP.aspx
- Community Assessment for Public Health Emergency Response (CASPER) Reports: https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/Pages/Emergency-Preparedness-Team.aspx
  - Mariposa County 2016 CASPER Report (PDF, 6MB) - CDC, together with Mariposa County and CDPH Division of Environmental and Occupational Disease Control’s (DEODC) Emergency Preparedness Team (EPT), conducted rapid community assessment in Mariposa County.
  - Tulare County CASPER Report (PDF, 6MB) – CDPH DEODC EPT conducted two rapid community assessments concerning the public health impacts of drought.

Other State of California Resources:
- California Department of Water Resources (DWR)
  - DWR Drought Homepage: https://water.ca.gov/Water-Basics/Drought
- California Office of Emergency Services (CalOES)
    - Section 9.1.5 covers droughts and water shortages. See tables 9.I and 9.J on drought disaster assistance programs and drought grant programs
  - Hazard Mitigation Grant Program (HMGP): https://www.caloes.ca.gov/cal-oes-divisions/recovery/public-assistance/404-hazard-mitigation-grant-program
  - Pre-Disaster Mitigation (PDM) and Flood Mitigation Assistance (FMA): https://www.caloes.ca.gov/cal-oes-divisions/hazard-mitigation/pre-disaster-flood-mitigation
<table>
<thead>
<tr>
<th>First</th>
<th>Last</th>
<th>Title / Organization</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amanda</td>
<td>Sheffield</td>
<td>Regional Drought Information Coordinator / NOAA National Integrated Drought Information System</td>
<td><a href="mailto:Amanda.sheffield@noaa.gov">Amanda.sheffield@noaa.gov</a></td>
</tr>
<tr>
<td>Andrew</td>
<td>Lockman</td>
<td>Emergency Services Manager / County of Tulare</td>
<td><a href="mailto:alockman@tularehhsa.org">alockman@tularehhsa.org</a></td>
</tr>
<tr>
<td>Betsy</td>
<td>Lichti</td>
<td>Chief, Quality Assurance Section / Division of Drinking Water, State Water Resources Control Board</td>
<td><a href="mailto:Betsy.Lichti@waterboards.ca.gov">Betsy.Lichti@waterboards.ca.gov</a></td>
</tr>
<tr>
<td>Dan</td>
<td>Woo</td>
<td>Health Program &amp; Policy Specialist / Climate Change &amp; Health Equity Program, California Department of Public Health</td>
<td><a href="mailto:daniel.woo@cdph.ca.gov">daniel.woo@cdph.ca.gov</a></td>
</tr>
<tr>
<td>Eric</td>
<td>Sergienko</td>
<td>County Health Officer / Mariposa County Health and Human Services Agency</td>
<td><a href="mailto:esergienko@mariposacounty.org">esergienko@mariposacounty.org</a></td>
</tr>
<tr>
<td>Jason</td>
<td>Wilken</td>
<td>CDC Career Epidemiology Field Officer / Centers for Disease Control and Prevention (CDC) / CDPH</td>
<td><a href="mailto:Jason.Wilken@cdph.ca.gov">Jason.Wilken@cdph.ca.gov</a></td>
</tr>
<tr>
<td>Jason</td>
<td>Vargo</td>
<td>Lead Research Scientist / Climate Change &amp; Health Equity Program, CDPH</td>
<td><a href="mailto:jason.vargo@cdph.ca.gov">jason.vargo@cdph.ca.gov</a></td>
</tr>
<tr>
<td>Jeanine</td>
<td>Jones</td>
<td>Interstate Resources Manager / California Department of Water Resources</td>
<td><a href="mailto:Jeanine.Jones@water.ca.gov">Jeanine.Jones@water.ca.gov</a></td>
</tr>
<tr>
<td>Jesse</td>
<td>Bell</td>
<td>Claire M. Hubbard Professor of Health and Environment / University of Nebraska Medical Center</td>
<td><a href="mailto:jesse.bell@unmc.edu">jesse.bell@unmc.edu</a></td>
</tr>
<tr>
<td>Josué</td>
<td>Medellin-Azuara</td>
<td>Associate Director, UC Agricultural Issues Center / University of California Merced</td>
<td><a href="mailto:jmedellin-azuara@ucmerced.edu">jmedellin-azuara@ucmerced.edu</a></td>
</tr>
<tr>
<td>Kurt</td>
<td>Schwabe</td>
<td>Associate Dean and Professor of Environmental Economics and Policy / School of Public Policy, University of California Riverside</td>
<td><a href="mailto:kurt.schwabe@ucr.edu">kurt.schwabe@ucr.edu</a></td>
</tr>
<tr>
<td>Linda</td>
<td>Helland</td>
<td>Team Lead / Climate Change &amp; Health Equity Program, CDPH</td>
<td><a href="mailto:linda.helland@cdph.ca.gov">linda.helland@cdph.ca.gov</a></td>
</tr>
<tr>
<td>Maithili</td>
<td>Ramachandran</td>
<td>Postdoctoral Researcher in Health &amp; Public Policy / School of Public Policy, University of California Riverside</td>
<td><a href="mailto:mrama001@ucr.edu">mrama001@ucr.edu</a></td>
</tr>
<tr>
<td>Michael</td>
<td>Anderson</td>
<td>State Climatologist / California Department of Water Resources</td>
<td><a href="mailto:Michael.L.Anderson@water.ca.gov">Michael.L.Anderson@water.ca.gov</a></td>
</tr>
<tr>
<td>Nancy</td>
<td>Thomas</td>
<td>Cal-Adapt Project Lead and Executive Director / Geospatial Innovation Facility, University of California Berkeley</td>
<td><a href="mailto:nethomas@berkeley.edu">nethomas@berkeley.edu</a></td>
</tr>
<tr>
<td>Nicole</td>
<td>Wall</td>
<td>Research and Outreach Specialist / National Drought Mitigation Center</td>
<td><a href="mailto:nwall2@unl.edu">nwall2@unl.edu</a></td>
</tr>
<tr>
<td>Pedro</td>
<td>Hernández</td>
<td>Policy Advocate / Leadership Counsel for Justice and Accountability</td>
<td><a href="mailto:phernandez@leadershipcounsel.org">phernandez@leadershipcounsel.org</a></td>
</tr>
<tr>
<td>Robert</td>
<td>Snyder</td>
<td>Epidemiologist / Vector-Borne Diseases Section, CDPH</td>
<td><a href="mailto:Robert.Snyder@cdph.ca.gov">Robert.Snyder@cdph.ca.gov</a></td>
</tr>
<tr>
<td>Solange</td>
<td>Gould</td>
<td>Chief, Health Equity Policy &amp; Planning Unit, Office of Health Equity, CDPH</td>
<td><a href="mailto:Solange.Gould@cdph.ca.gov">Solange.Gould@cdph.ca.gov</a></td>
</tr>
<tr>
<td>Tesfaye</td>
<td>Bayleyegn</td>
<td>Senior Service Fellow, Disaster Epidemiology and Response Team Lead &amp; Physician / National Center for Environmental Health, CDC</td>
<td><a href="mailto:bvy7@cdc.gov">bvy7@cdc.gov</a></td>
</tr>
</tbody>
</table>