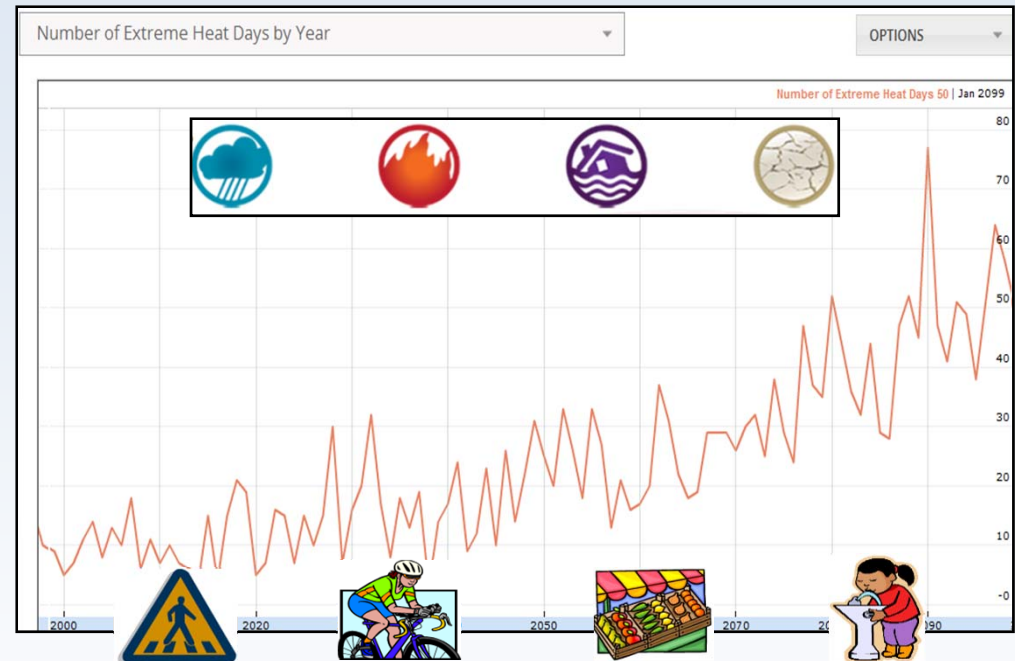


Public Health Adaptation Chapter Update 2012

Public Health Work Group
July 9, 2012

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California Department of Public Health

Introduction (Evolution of Adaptation)

- Goals
- Public Health Chapter of 2009 Statewide Adaptation Strategy
- State resources and tools
 - Governor's Conference
 - Cal Adapt (mapping local climate effects), SLR study
 - Local Climate Adaptation Policy Guide
- More cross-sector coordination
- Regional planning efforts



Highlights of 2009 Public Health Adaptation Strategies






- Maintain surveillance capabilities
- Increase community resilience
- Educational outreach and community partnership
- Improve preparedness and response
- Identify/promote strategies with health co-benefits
- Conduct research
- Promote policy changes

2009 CALIFORNIA CLIMATE ADAPTATION STRATEGY

A Report to the Governor of the State of California
in Response to Executive Order S-13-2008

Summary of Progress/Accomplishments

- *Climate Action for Health: Integrating Public Health into Climate Action Planning* published
- Extreme Heat Guidance for state and local govt. (forthcoming this summer)
- Training, education, technical assistance for local health departments, health advocates and planners
- Pilot vulnerability assessments (Fresno, LA)
- Planning for Governor's Extreme Weather Conference and complementary events
- Research of mosquito-borne diseases (CDPH/UCD)
- Adding 2 staff

 <p>Health Co-Benefits and Transportation-Related Reductions in Greenhouse Gas Emissions in the Bay Area: Technical Report</p>	 <p>The Governor's Conference on EXTREME CLIMATE RISKS AND CALIFORNIA'S FUTURE December 15, 2011 California Academy of Sciences San Francisco, California</p>	<p>2009 CALIFORNIA CLIMATE ADAPTATION STRATEGY A Report to the Governor of the State of California in Response to Executive Order S-13-2008</p>	<p>Health Impact Assessment of a Cap-and-Trade Framework</p>	 <p>Public Health Impacts of Climate Change in California: Community Vulnerability Assessments and Adaptation Strategies</p>
<p>Climate Action for Health: Integrating Public Health into Climate Action Plans</p>			 	
<p>Environmental Health Indicators of Climate Change for the United States: Findings from the State Environmental Health Indicator Collaborative Paul B. English,¹ Amber H. Sinclair,² Zev Ross,³ Henry Anderson,⁴ Vicki Boothe,⁵ Christine Davis,⁶ Kristie Ebi,⁷ Betsy Kagey,⁸ Kristen Malecki,⁴ Rebecca Shultz,⁹ and Erin Simms¹⁰</p>			<p>Climate Action Team Public Health Work Group The 2006 California Heat Wave: Impacts on Hospitalizations and Emergency Department Visits Kim Knowlton,^{1,2} Miriam Rotkin-Ellman,² Galatea King,⁴ Helene G. Margolis,^{4,5} Daniel Smith,⁴ Gina Solomon,^{3,6,7} Roger Trent,⁸ and Paul English⁹</p>	
<p>ASTHO Climate Change Population Vulnerability Screening Tool Prepared by the California Environmental Health Tracking Program (CEHTP)</p>				



Key Adaptation Strategies for Update*

1. Prepare and build resilience for rising temperatures and extreme heat
2. Expand vulnerability assessments
3. Build capacity of local health departments and health sector
4. Educate public and communicate climate change as important public health issue
5. Enhance public health surveillance
6. Coordinate with other CAT members and other stakeholders

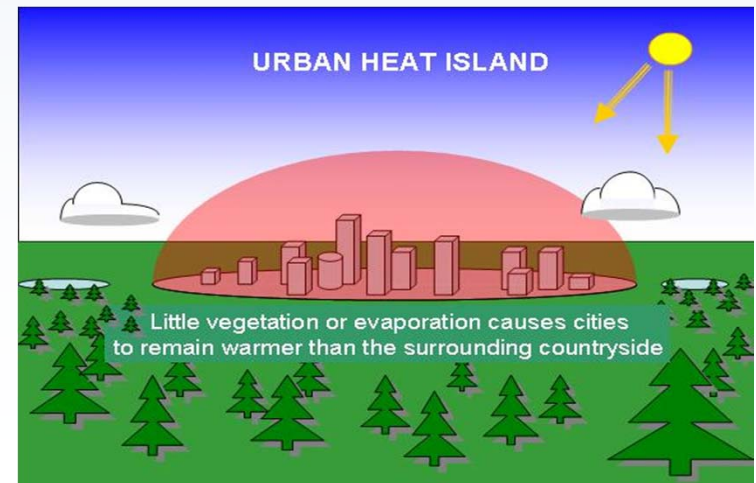
* Many previewed in recent PHWG meetings

Questions

- How to prioritize key efforts in time of scarce resources?
- How to identify and achieve health co-benefits?
- Have we missed important issues and partners?
- Are there areas that should get more or less emphasis?
- Are there resources that we are not plugged into or could be working with?

Prepare and build resilience for rising temperatures and extreme heat

- Extreme Heat Guidance document (multi-agency effort aimed at state and local government)
 - Summary of heat health effects
 - Downscaled temperature and extreme heat projections from <http://cal-adapt.org/>
 - Recommendations (preparedness and strategies for urban heat island mitigation and cooler built environment)
- Disseminate guidance
- Develop time table for addressing recommendations



What's different about climate change?

**May 1 to Oct 1 in Selected California Cities
2050 and 2099 (Cal Adapt) ***
Baseline: 1960-1994 4 heat waves/year

Extreme Heat incident	Deaths
European heat wave, 2003	70,000
Russian heat wave, 2010	55,000
California heat wave, 2006	650
Chicago heat wave, 1995	739
Philadelphia heat wave, 1993	118

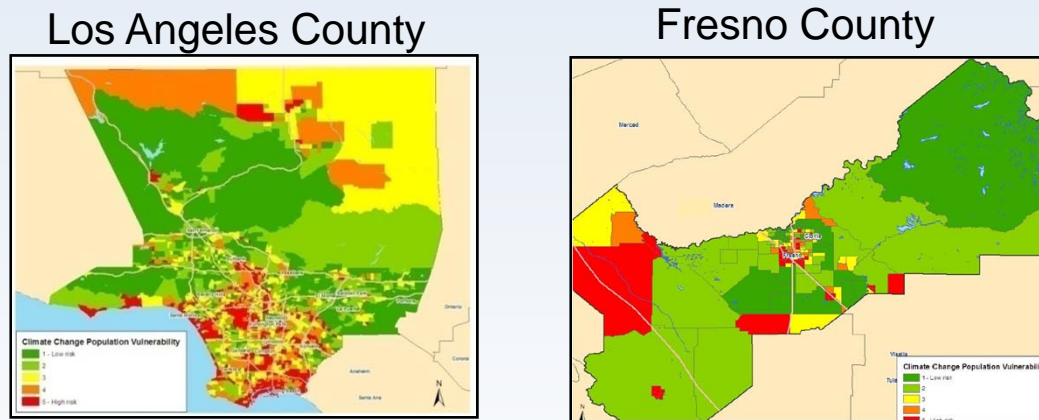
City	2050	2099
Bakersfield	48	93
El Centro	60	101
Fresno	46	90
Los Angeles	78	110
San Francisco	39	126
Redding	35	75
Sacramento	44	85
San Diego	76	129
San Jose	71	111
Truckee	41	83



* Based on emissions scenario A2

Develop and conduct vulnerability assessments

- Exposure, adaptive capacity, and sensitivity of populations to heat, sea level rise, and wild fire at refined geographic detail (census tracts)



- Work with other agencies to disseminate assessments
- Seek/leverage funding (include vulnerable pop. and their participation)
- Enhance community engagement, especially of the vulnerable, and address disproportionate impacts and equity

Build capacity of local health departments and health sector

- Identify funding to support:
 - Local participation in planning
 - Development of health sector adaptation plans
- Outreach to involve more health sector and social service partners in adaptation efforts
- CDC BRACE Grant (*Building Resiliency Against Climate Effects*)
 - If awarded will provide CDPH 4-year support to work with state and local agencies and conduct in-reach among many CDPH programs (Sept. 2012 start date)



Educate public and communicate public health as an key dimension of climate change

- Participate in new CAT communication workgroup
- Work with other sectors to develop and disseminate messages on climate change and public health
 - Dept. of Fish & Game's "Climate Plate and Recipes for Action"
- Develop climate and health frames and sample messages for use by others
- Develop models of public and community engagement and participation



Conveying the Human Implications of Climate Change

A Climate Change Communication Primer for Public Health Professionals

Enhance public health surveillance

- Surveillance is ongoing, systematic collection, analysis, and dissemination of information on health status and exposures that inform action
 - Vulnerability assessments support to surveillance efforts
 - Work with state programs to prioritize surveillance needs (vector-water-, and food-borne disease, drinking water quality, heat illness, asthma, respiratory illness)
 - Evaluate adequacy of policy and regulatory authority to support health surveillance

Coordinate with other CAT members and other stakeholders

- Coordinate and communicate the work of the CAT Public Health Work Group
 - Gather stakeholder input
 - Review emerging public health and cross sector issues
 - Disseminate information (solutions-oriented strategies)

Adaptation Research Needs for Public Health Sector

- Improve sensitivity of National Weather Service heat warnings (work with CDC, NWS)
- Modeling population health risks to wild fire
- Economic and nutrition impacts from decreased crop yields/price increases on different populations (interdisciplinary forecasting/assessment with agricultural economists, nutritionists, etc.)
- Evaluation of health impacts of “indirect” effects of climate change (may be cumulatively greater than direct effects, which are now focus)

Questions

- How to prioritize key efforts in time of scarce resources?
- How to identify and achieve health co-benefits?
- Have we missed important issues and partners?
- Are there areas that should get more or less emphasis?
- Are there resources that we are not plugged into or could be working with?

Outline → Draft Chapter → Final

- Timeline
 - Now
 - August 24
 - Revisions to chapters
- Volunteers for chapter review
 - 2 conference calls between now and 8/24
 - Looking for case examples and “solutions”
- Public review
 - Overview sections, sector chapters, whole report
 - Final release Dec, 2012



Local Climate Adaptation Policy Guide (APG) (due out in August)

- Cal EMA, Natural Resources Agency, Cal Poly San Luis Obispo
- FEMA \$ to include climate risks in local hazard mitigation plans
- Provides guidance on local adaptation planning for:
 - City planners
 - Emergency Planners
 - Natural Resources
 - Water
 - Coastal
 - Public Health



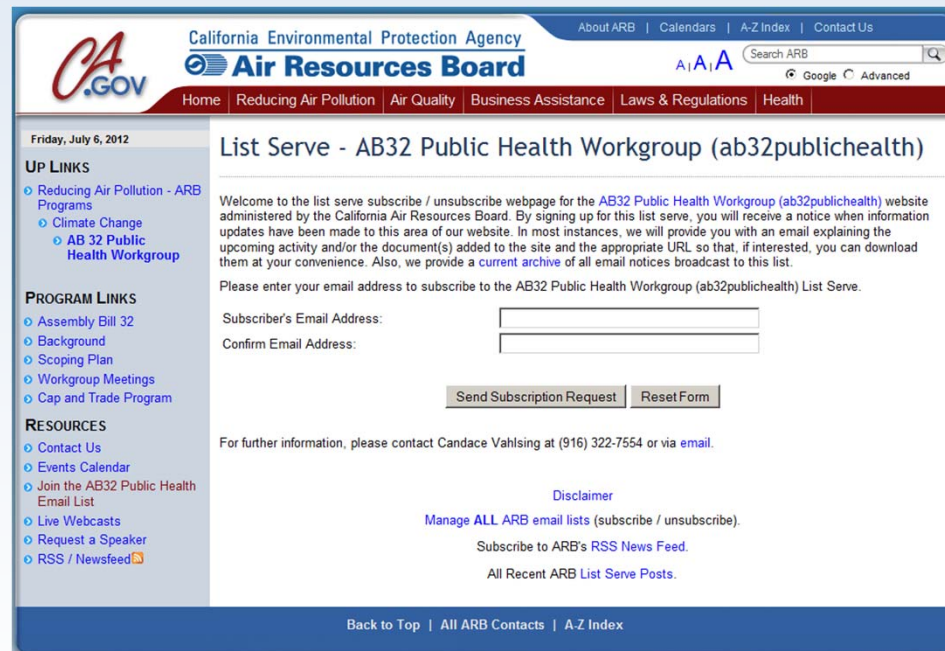
Updates

- Practical overview of adaptation planning for local health depts (out August-Sept)
- New Climate Change Studies for California
 - National Research Council Sea Level Rise Study of Coast of California, Oregon and Washington
 - <http://dels.nas.edu/Report/Level-Rise-Coasts/13389>
 - UCLA/City of Los Angeles Regional Heat Study
 - <http://C-Change.LA>

Staying in the Loop

- If not on, sign up at ARB PH Listserve

http://www.arb.ca.gov/listserv/listserv_ind.php?listname=ab32publichealth



The screenshot shows the California Environmental Protection Agency (ARB) website. The page title is "List Serve - AB32 Public Health Workgroup (ab32publichealth)". The page contains a welcome message, a sign-up form with fields for "Subscriber's Email Address" and "Confirm Email Address", and buttons for "Send Subscription Request" and "Reset Form". The page also includes a disclaimer and links to manage email lists, subscribe to ARB's RSS News Feed, and view all recent ARB List Serve Posts. The left sidebar contains navigation links for "UP LINKS", "PROGRAM LINKS", and "RESOURCES".

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