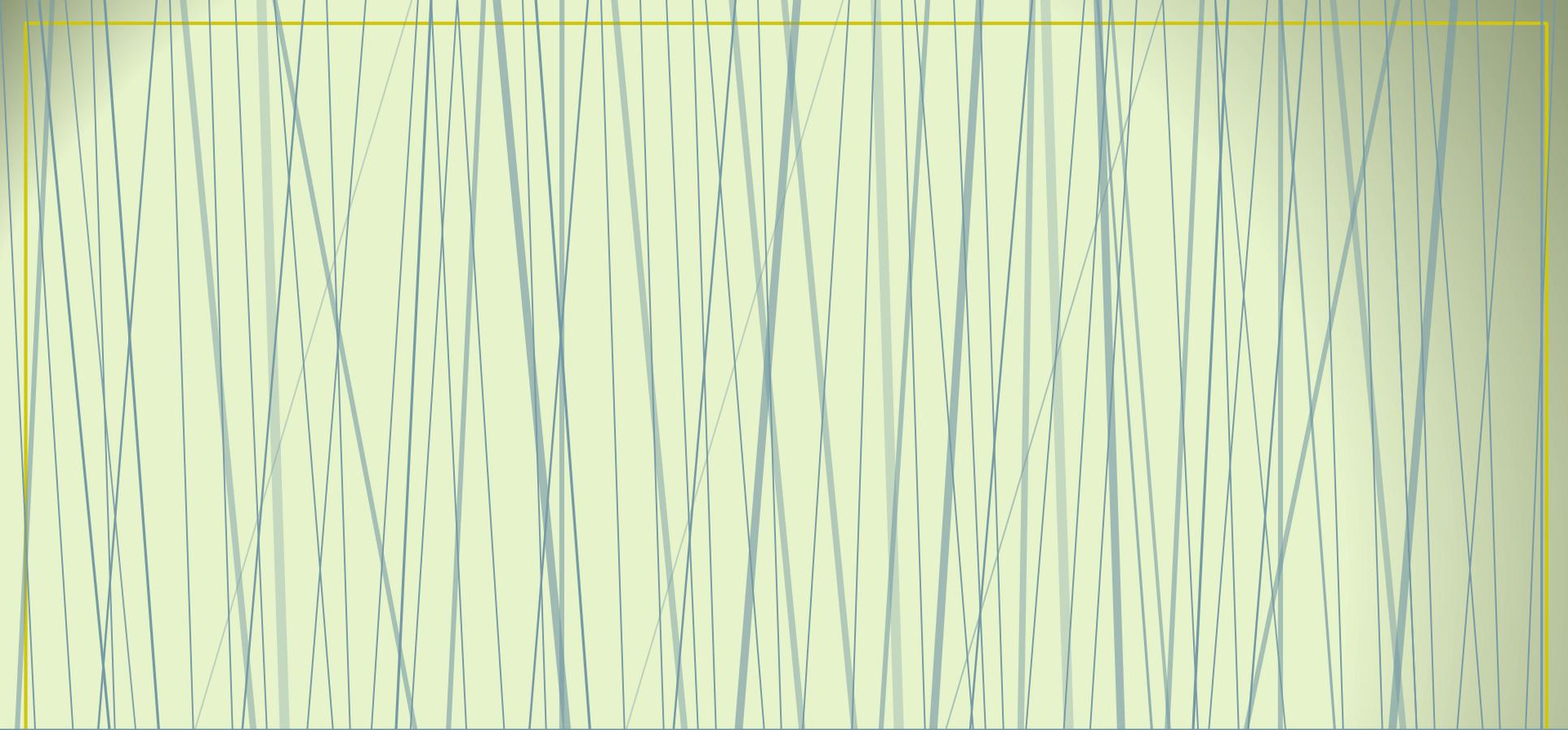


**Climate Change
Impacts, and Mitigation
& Adaptation Strategies
for Disadvantaged
Communities**

September 29, 2016

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DWR Climate Change Program*



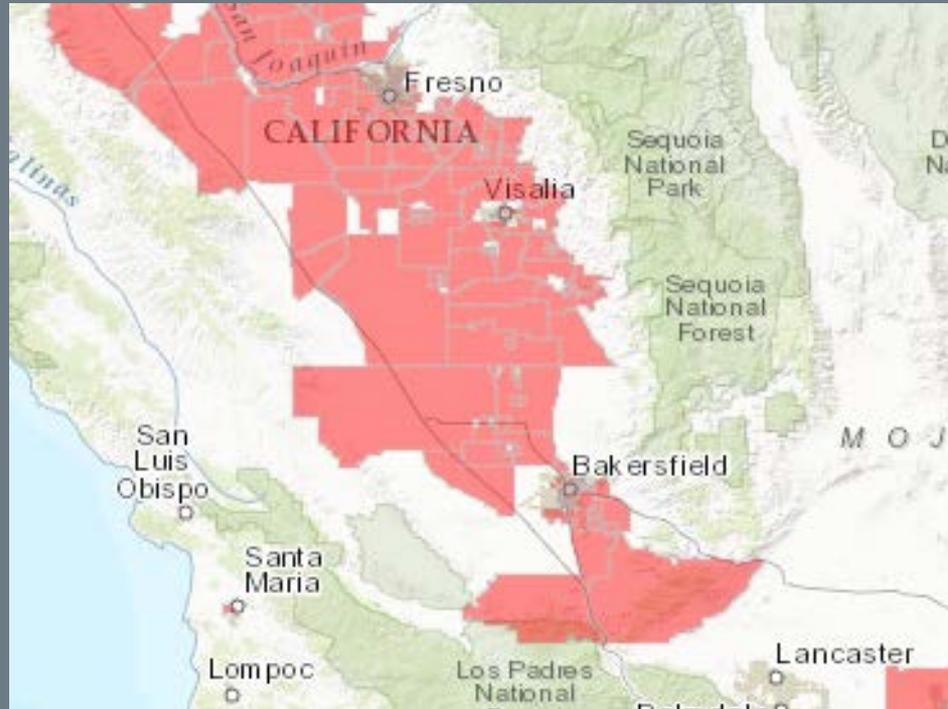
Climate Change Impacts - DACs

Disadvantaged Communities...

- Are characterized by:
 - Exposure and environmental effects
 - Pollutants and other hazards that can lead to public health effects
 - Environmental degradation
 - Sensitive populations
 - Socioeconomic factors
 - Low income, high unemployment, low levels of home ownership

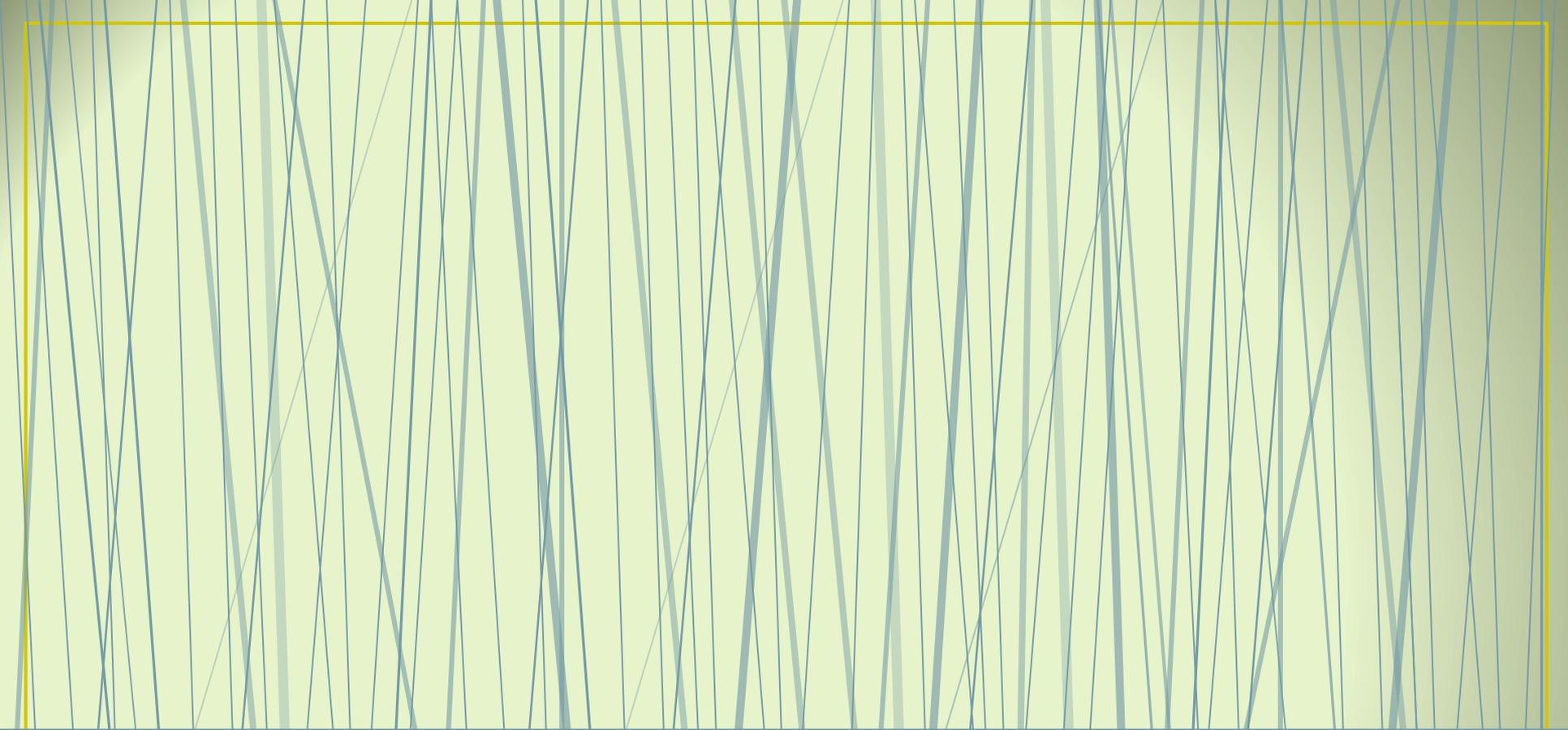
Disadvantaged Communities...

- Will be disproportionately impacted by climate change



DACs will Experience Disproportionate Impacts from...

- *Extreme heat days (those without AC will suffer)*
- *Changing hydrology that will likely mean more frequent, and more intense droughts, and more extreme precipitation events*
 - *Safe drinking water more scarce*
 - *Impacts to agriculture will affect DACs in the SJV*
- *Public health impacts such as the spread of vector-borne diseases*



Mitigation and Adaptation Strategies for DACs

AB 32 and SB 535

- AB 32- California's climate change and clean energy law
 - Funds must be used to reduce greenhouse gas impacts
- SB 535
 - 25% of the money raised by sales of carbon permits under California's cap-and-trade program must go to projects that benefit highly polluted and economically challenged communities.
 - In 2014/2015 = \$472 million for priorities such as clean energy, energy efficiency, clean transportation, urban forestry and affordable housing near public transit.
- [December 2014] <http://greenlining.org/issues/2014/new-campaign-shows-ca-climate-change-laws-help-disadvantaged-communities/>

AB 1550

- Clean Investments for California's Communities Act
- **Description:** This bill requires the investment plan to allocate a minimum of 25% of the available moneys in the fund to projects located within, and benefitting individuals living in, disadvantaged communities and a separate and a minimum of 20% to projects that benefit low-income households*

On the Governor's desk as of September 2016

*<http://www.arccacalifornia.org/initiatives/legislative-tracking/>

Climate Change Adaptation

How can DACs increase resilience (ability to cope)?

- Be informed about climate change impact, and how they will exacerbate existing challenges
 - Talk about it with friends, family, community leaders
- Speak up to elected officials and express concern about the issue
 - Cooling centers – need reliable access
 - Plant trees – now!
 - Vote for officials who understand the urgency to take actions now (low-regrets strategies)
- Don't allow yourself to be paralyzed by fear

Climate Change, Health, and Equity: Opportunities for Action



Center for
Climate Change & Health

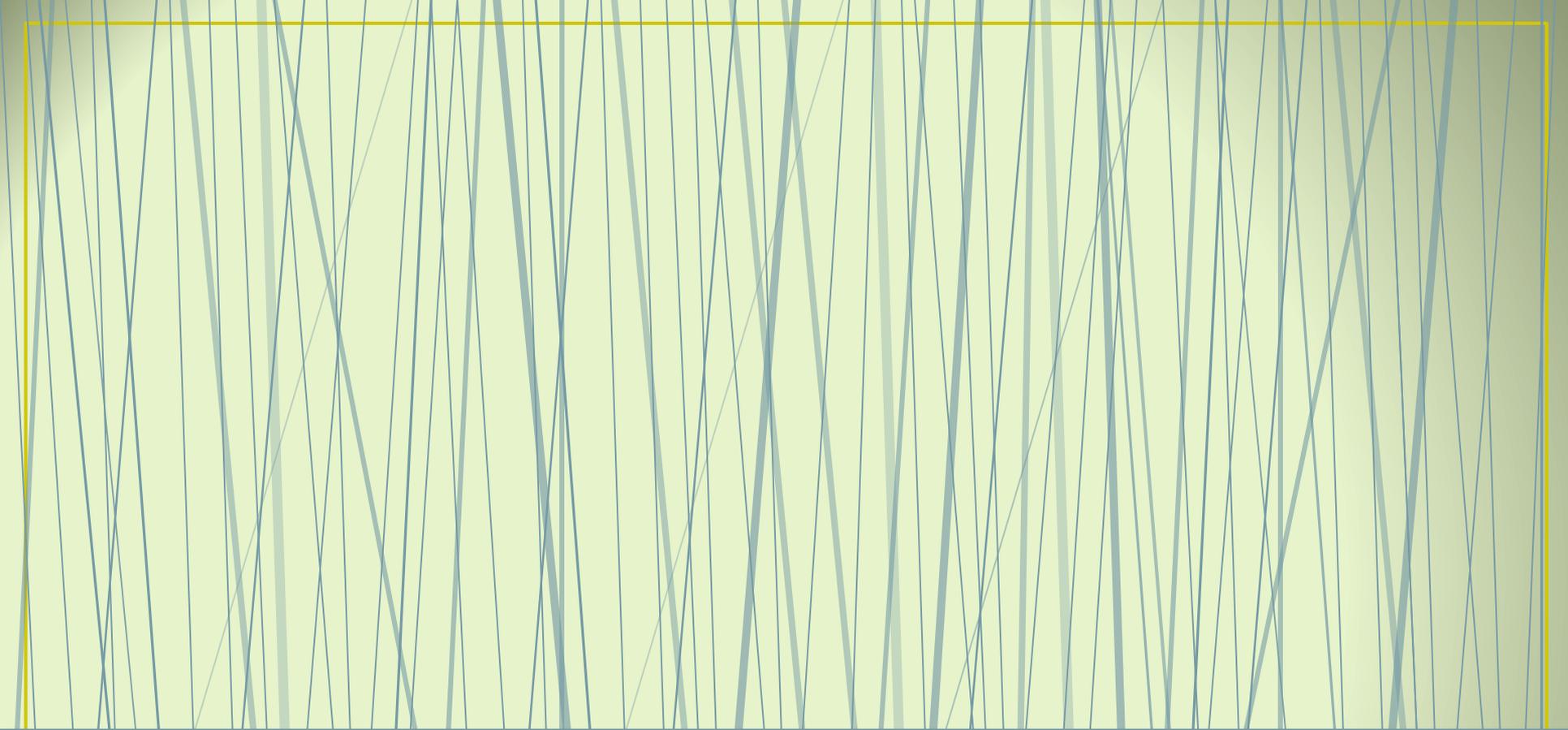
MARCH 2015

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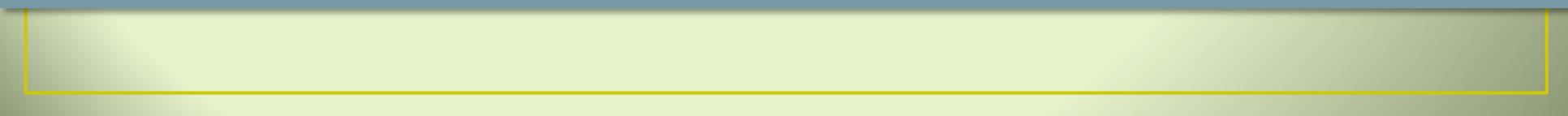
<https://www.phi.org/uploads/application/files/h7fjouo1i38v3tu427p9s9kcmhs3oxsi7tsg1fov3yesd5hxxu.pdf>

Climate Change, Health and Equity: Opportunities for Action

“Climate change, health, environmental health, health equity, social justice, environmental justice, sustainability are each hugely important and complex issues in their own right. But we can’t afford to address them separately. The stakes are too high, the need for action is too urgent, and *there are too many opportunities for synergy if we act together on climate, health, and equity.*”



Watershed Education



Healthy Watersheds are Key for Climate Resilience

- Climate change manifests itself primarily through changes in the water cycle. As climate changes, droughts, floods, melting glaciers, storms and sea-level rise intensify or alter, often with severe consequences.
- Climate resilience is strengthened through healthy ecosystem services that rely on well-functioning river basins.

AB 2480 Source Watersheds

- This bill would declare it to be state policy that **source watersheds are recognized and defined as integral components of California's water infrastructure.**

AB 2480 Source Watersheds

- The bill would state the particular importance to maintaining the reliability, quantity, timing, and quality of California's environmental, drinking, and agricultural water supply as climate change advances of **source watersheds** that supply the majority of the state's drinking and irrigated agricultural water.

AB 2480 Source Watersheds

- The bill would state that the maintenance and repair of source watersheds is **eligible for the same forms of financing as other water collection and treatment infrastructure** and would specify that the maintenance and repair activities that are eligible are limited to specified forest ecosystem restoration and conservation activities.

TULARE BASIN

Watershed 
Connections



The [Tulare Basin Watershed Connections Workgroup](#) (TB WCW) is a collaborative of natural resource managers working together to advance whole watershed planning and resource management in the Tulare Basin based on sound science and mutually identified needs for regional economic and ecological sustainability.

To participate:

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