

## IRWM Climate Change Update Handout

December 6, 2017

For more information, please contact

Mladen Bandov, County of San Luis Obispo Public Works Department

mbandov@co.slo.ca.us

(805) 781-5116

**NOTICE:** All IRWM notices will be emailed **only by the online mailing list service**. Please sign-up for the IRWM Stakeholder mailing list online at: <http://www.slocountywater.org/irwm>

### What dates to remember?

*A schedule of important dates related to the IRWMP Climate Change Update.*

Date	Event/Description	Details
Jan. 5 <sup>th*</sup>	Climate Change Vulnerability Survey sent out along with workshop agenda and WSC Vulnerability Assessment	Emailed to RWMG
Jan. 19 <sup>th</sup>	Climate Change Vulnerability Survey responses due	Complete online
Jan. 24 <sup>th</sup>	Summary of Climate Change Vulnerability Survey results shared with RWMG members	Emailed to RWMG
Jan. 31 <sup>st</sup>	IRWM Climate Change Workshop	SLO Library Community Room, 9 am to noon
Feb. 7 <sup>th</sup>	RWMG Meeting; Recommendations from workshop will be reviewed and presented for approval	SLO Library Community Room, 10 am to noon

\* Jan. 5<sup>th</sup> is the current anticipated date, but at the latest surveys will be sent out by Jan. 8<sup>th</sup>

### What to expect?

*An overview of the Climate Change Vulnerability Survey.*

The survey is intended to gather stakeholder input on vulnerabilities to climate change that fall into seven water-related categories. These categories (listed below) were obtained from the *Climate Change Handbook for Regional Water Planning* developed by DWR:

1. Water Demand
2. Water Supply
3. Water Quality
4. Sea Level Rise
5. Flooding
6. Ecosystem and Habitat Vulnerability
7. Hydropower

Survey participants will be asked about a series of vulnerabilities within each category. Responses to each vulnerability will consist of two parts. First, stakeholders will be asked whether the vulnerability applies to their region (this could be a city, CSD, the County, etc.). If the answer is yes, then stakeholders will be asked to evaluate the vulnerability using specific metrics outlined in the survey.

### Where to go for more information?

*Resources on climate change adaptation planning and implementation as well as studies and research on climate change impacts.*

#### Planning Guidelines

- [2016 Integrated Regional Water Management Grant Program Guidelines Volume 1.](#)  
DWR guidelines for IRWMP update, which includes new requirements for climate change vulnerability descriptions.  
[[http://abcrs.resources.ca.gov/guidelines/guideline\\_624.pdf](http://abcrs.resources.ca.gov/guidelines/guideline_624.pdf)]
- [Climate Change Handbook for Regional Water Planning.](#)

## IRWM Climate Change Update Handout

December 6, 2017

DWR and EPA handbook for incorporating climate change into IRWM. Outlines the planning process and suggests vulnerability indicators specific to water management.

[[http://www.water.ca.gov/climatechange/docs/Climate\\_Change\\_Handbook\\_Regional\\_Water\\_Planning.pdf](http://www.water.ca.gov/climatechange/docs/Climate_Change_Handbook_Regional_Water_Planning.pdf)]

➤ *Planning and Investing for a Resilient California.*

OPR guidebook for planning that integrates climate change considerations. Intended for California state agencies but includes information relevant to regional planning as well.

[[http://opr.ca.gov/docs/20171117-Building\\_a\\_Resilient\\_CA.pdf](http://opr.ca.gov/docs/20171117-Building_a_Resilient_CA.pdf)]

### International/National Climate Change Research

➤ *Climate Change and Water IPCC Technical Paper VI.*

Technical paper prepared by IPCC that discusses how climate change will affect water and related systems around the world. Topics addressed include agriculture, water supply, infrastructure, ecosystem health, and economics.

[<https://www.ipcc.ch/pdf/technical-papers/climate-change-water-en.pdf>]

➤ *Sea Level Rise Viewer version 3.0.0.*

Interactive online map created by NOAA. Shows local sea level rise scenarios, historical flood data, and mapping of vulnerable populations.

[<https://coast.noaa.gov/slr/#/layer/slr/0/-12012903.402277272/5429874.12836434/4/satellite/none/0.8/2050/interHigh/midAccretion>]

### California Climate Change Research

➤ *Cal-Adapt.*

California Energy Commission website with climate projection resources. Includes tools on temperature, precipitation, sea level rise, wildfires, snowpack, drought, and stream flow.

[<http://cal-adapt.org/>]

➤ *California Adaptation Planning Guide.*

California Natural Resources Agency, California EMA, and FEMA prepared this document outlining vulnerability assessments and adaptation planning in the context of California climate change projections.

[[http://resources.ca.gov/docs/climate/01APG\\_Planning\\_for\\_Adaptive\\_Communities.pdf](http://resources.ca.gov/docs/climate/01APG_Planning_for_Adaptive_Communities.pdf)]

➤ *State of California Multi-Hazard Mitigation Plan.*

Governor's Office of Emergency Services study assessing vulnerability and risk of flooding and wildfires in California.

[<http://www.caloes.ca.gov/HazardMitigationSite/Documents/006-SHMP%202013%20Chapter%205.pdf>]

### Local Climate Change Research

➤ *Climate Change and Health Profile Report San Luis Obispo County.*

CDPH report on how health in SLO County will be impacted by climate change. Considers the effects of droughts, sea level rise, wildfires, and more.

[[https://www.cdph.ca.gov/Programs/OHE/CDPH%20Document%20Library/CHPRs/CHPR079SanLuisObispo\\_County7-17-17.pdf](https://www.cdph.ca.gov/Programs/OHE/CDPH%20Document%20Library/CHPRs/CHPR079SanLuisObispo_County7-17-17.pdf)]

➤ *Integrated Climate Change Adaptation Planning in San Luis Obispo County.*

A 2010 report on the climate change vulnerabilities in SLO County. Includes sections on water resources and infrastructure, agriculture and tourism, and ecosystems.

[<http://www.lgc.org/wordpress/docs/adaptation/slo/SLOClimateWiseFinal.pdf>]

➤ *Projected Future Climatic and Ecological Conditions in San Luis Obispo County.*

A technical study of climate change projections for SLO County. Examines future temperature, precipitation, vegetation, wildfire risk, and sea level rise.

[[http://www.lgc.org/wordpress/docs/adaptation/slo/SLOModelReport\\_FINALsmall.pdf](http://www.lgc.org/wordpress/docs/adaptation/slo/SLOModelReport_FINALsmall.pdf)]