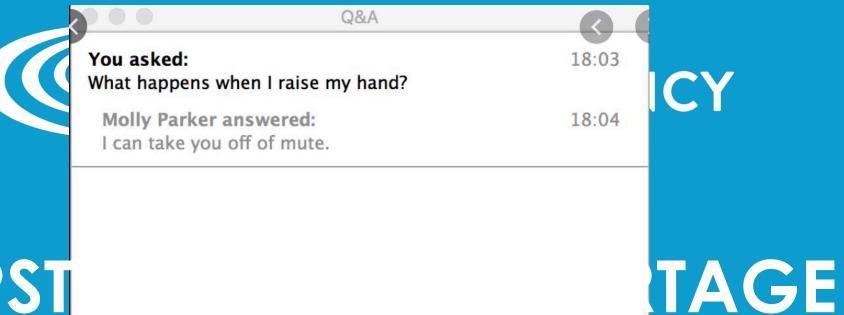


## JUMPSTART WATER SHORTAGE TOOL KIT UPDATE #1: WATER SHORTAGE CONTINGENCY PLANNING

CALIFORNIA WATER EFFICIENCY PARTNERSHIP



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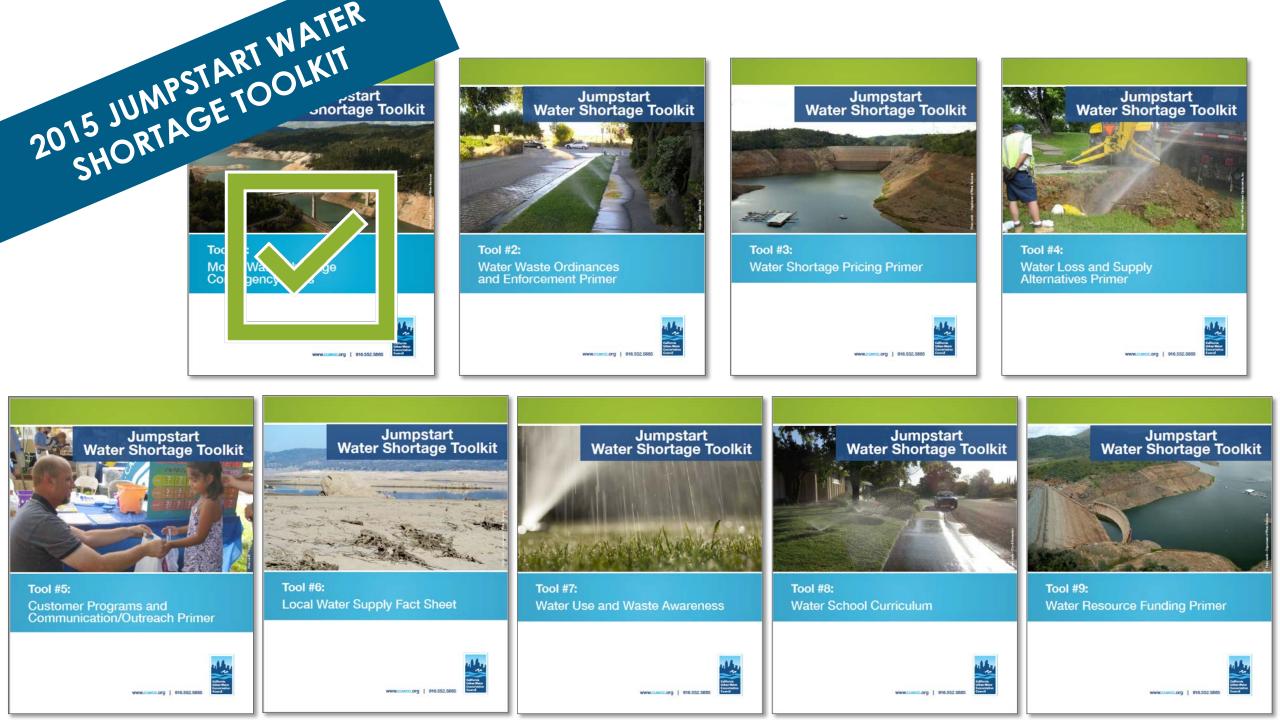
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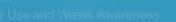
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## WHAT WE'LL COVER







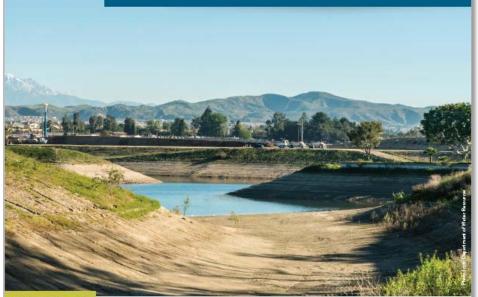






#### JUMPSTART WATER SHORTAGE TOOLKIT

#### TOOL #1: Model Water Shortage Contingency Plans



2021 UPDATE



PARTNERS FOR A WATER-EFFICIENT CALIFORNIA

### **Jumpstart Water Shortage Tool #1**

#### TOOL #1: Model Water Shortage Contingency Plans

#### Contents

Introduction	Sample Water Shortage Contingency Plans
New WSCP Requirements	Retail Examples
Water Shortage Contingency Plan Development Overview4	Marin Municipal Water District City of Clovis
Water Shortage Percentage Levels5	Wholesale Examples.
Water Shortage Stages6	San Diego County Water Authority
Examples of Stages and Goals6 Existing Stages & Corresponding Levels7	Valley Water (formerly Santa Clara Valley Water District)
Water Shortage Stage Triggers	Regional Examples
Demand Reduction Goals	Regional Water Authority 2020 Urban Water Management Plan
Water Waste Prohibitions/Restrictions	American River Region 2019 Water Shortage Contingency Plans
City of Sacramento Case Study Takeaways	Resources
Sample Drought Contingency Plan	Water Use Restriction

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### Tool #1 was updated and released on January 28, 2021

NOW AVAILABLE ON CALWEP.ORG

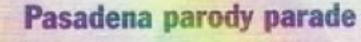
#### **Figures and Tables**

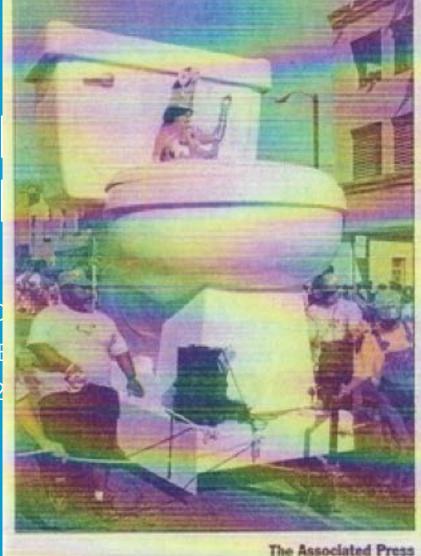
Table 1: Water Shortage Contingency Plan Requirements4	Table 9: WSCP Stages and Restrictions for the City of Clovis
Figure 1: Water Shortage Contingency Plan Development and Implementation Process5	Table 10: WSCP Stages and Restrictions for San Diego County Water Authority
Table 2: Example of Six Stages	Table 11: WSCP Stages and Restrictions for Valley Water
Table 4: Declaring a Water Shortage Emergency	Table 12: Water Shortage Stage Template from RWA's 2020 Urban Water Management Plan 17
Table 5: City of Sacramento Case Study  9    Table 6: California Water Code Key Sections for  10    Water Destrictions  10	Table 13: Water Shortage Tables from ARR's 2019 Water Shortage Contingency Plan
Water Restrictions	Table 14: Sample Water Use Restrictions and Earliest Implementation Stages shows some water use
Table 8: WSCP Stages and Restrictions for Marin Municipal Water District	restrictions and the associated stages from several utilities

CaIWEP Jumpstart Water Shortage Toolkit

### UPDAT CONTI

KIM O'CAIN, C MAUREEN ERBE JANUARY 11, 2





The "World's Largest Toilet," a display from the Department of Water and Power in Los Angeles, makes its way down the street during the 22nd annual Doo Dah Parade in Pasadena on Sunday. Hundreds of participants displayed their flair for the absurd during the parody of the Rose Bowl Parade. - A3



#### CALIFORNIA WATER EFFICIENCY PARTNERSHIP



The JumpStart Toolkit is a guide to provide examples and resources to support CalWEP members as they develop Water Shortage Contingency Plans. **Please refer to DWR for all requirements.** 

### **DWR RESOURCES:**

**Videos** about developing and submitting UWMP including WSCP: <a href="https://www.youtube.com/user/calwater/videos">https://www.youtube.com/user/calwater/videos</a>

WUE Portal "Resources:" <u>https://wuedata.water.ca.gov/manage\_resources.asp?reportType=urban</u>

**Checklist:** <u>https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Water-Use-And-Efficiency/Urban-Water-Use-Efficiency/Urban-Water-Management-Plans/UWMP-2020-GB-Appendices-F-H-Draft-082620\_508.pdf?la=en&hash=18BC18666C431B2A3AE313616F4BA810CE8633DA</u>

# 12 Elements for a 2020 WSCP

#### **Table 1: Water Shortage Contingency Plan Requirements**

#### WSCP Requirements

Annual Water Supply Reliability (10632 (a) (1)) Reference Section 10635

Annual Water Supply and Demand Assessment Procedures (10632 (a) (2))

- A. Provide written decision-making process to determine annual water supply reliability
- B. Provide data inputs and methodology to evaluate the annual and one dry year supply reliability
  - 1. Current year unconstrained demand
  - 2. Current year available supply
  - Existing infrastructure capabilities and plausible constraints
  - 4. Evaluation criteria
  - Description and quantification of each water supply source

#### Water Shortage Percentage Levels (10632 (a) (3))

- A. Define six water shortage levels: 10, 20, 30, 40, 50, and greater than 50 percent
- B. Or for existing WSCP, cross reference stages to the six water shortage levels

#### Water Shortage Response Actions (10632 (a) (4))

- A. Specify supply augmentation
- B. Specify demand reductions
- C. Specify operational changes
- D. Specify local water waste prohibitions
- E. Specify shortage reduction for each action

#### Communication Protocols and Procedures (10632 (a) (5))

- A. Description of communicating current or predicted shortages
- B. Description of communicating shortage response actions triggered or anticipated
- C. Description of communicating other relevant communications

Customer Compliance and Enforcement (10632 (a) (6)) Pursuant to Section 10632.2

#### Supplier Enforcement Authority (10632 (a) (7))

- A. Describe the legal authority to enforce water shortage response actions
- B. Statement to declare a water shortage emergency
- C. Statement to coordinate with service area cities and/ or counties

#### Drought Financial Consequences (10632 (a) (8))

- A. Description of potential revenue impacts for each shortage response action
- B. Description of financial mitigation actions for each shortage response action
- C. Description of cost to comply with Chapter 3.3 (commencing with Section 365) of Division 1

#### Supplier Monitoring and Reporting Procedures (10632 (a) (9))

 Description of monitoring and reporting customer compliance

#### Re-evaluation and Improvement Procedures (10632 (a) (10))

A. Description for evaluating and improving WSCP

#### Definitions (10632 (b))

 A. Define water supplied features including ponds, lakes, waterfalls and fountains

#### Seismic Risk Assessment and Mitigation Plan (10632.5

- Update and include the supplier seismic risk assessment and mitigation plan
- B. Or include a copy of the most recently adopted local hazard mitigation plan or multihazard mitigation plan

Note: Wholesalers do not need to comply with Compliance and Enforcement (10632(a)(6)) and Monitoring and Reporting (10632 (a)(9))

## Lessons Learned from Last Drought

- Consistent outreach and enforcement of mandatory conservation measures were effective at reducing demand 18-30%:
  - Drought surcharges
  - 2 day-per-week irrigation restrictions
  - Financial incentives and resources
  - WSCP roadmap not just a checklist
  - Get a member's only copy

Use and Effectiveness of Municipal Irrigation Restrictions During Drought Study Report





### Lessons Learned from Last Drought

#### Inland Empire Utilities Agency– Key Takeaways

- Majority of savings through mandatory restrictions
- 2020 Regional Drought Contingency Plan with 5 stages:
  - Robust communication plan to help customers respond earlier in a drought
  - Mitigation actions
  - Vulnerability Assessment (similar to risk assessment)





## Water Agency Examples

Tool #1 focuses on Water Shortage Response Actions/Demand Reduction examples at various stages for:

- Retailers
- Wholesalers
- Regional

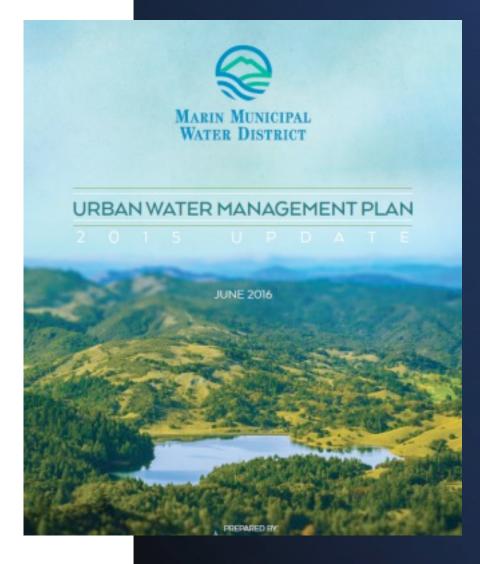
### **Retailer Examples**

#### Marin Municipal Water District – Key Takeaways

- Shortages based on reservoir levels
- Customer/Sector specific restrictions and targets

BILLING CODES	20% RATIONING	25% RATIONING	10% RATIONING	40% RATIONING	SOS RATIONING
Billing Code 1-5 (Residential)	25%	32%	32%	46%	55%
Billing Code 6 (Institutional)	20%	25%	30%	40%	50%
Billing Code 7 (Business)	15%	20%	25%	35%	45%
Billing Code 8 (Irrigation)	45%	50%	60%	75%	90%

- Clearly defines pools and water features
- Enforcement of all on-going and mandatory rationing stages



## **Retailer Examples**

### **City of Clovis– Key Takeaways**

- Shortages based on groundwater and surface water supplies
- Customer-wide restrictions and targets

City of Clovis WSCP Stages

STAGE	CONDITIONS	PERCENTAGE
1 Minor (Voluntary)	Groundwater in overdraft or available production within 10% of peak hour demands	10%
2 Moderate (Mandatory)	Groundwater in overdraft in second consecutive year or available water production is 10% less than the peak hour demands	10% to 20%
3 Severe (Mandatory)	Available water production is 20% less than peak hour demands	20% to 35%
Critical (Mandatory) Available water production is 35% less than peak hour demands or surface water supply is 50% of required.		35% to 50%

- No refilling of pools (stage 3 and 4)
- Customer allotments/rate changes (stage 3 and 4)
- New connections with offsets (stage 3)
- No new connections (stage 4)
- Enforces prohibitions



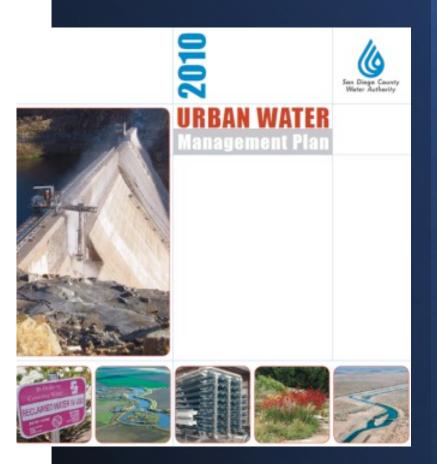
City of Clevis

2015 URBAN WATER MANAGEMENT PLAN

## Wholesaler Examples

### San Diego County – Key Takeaways

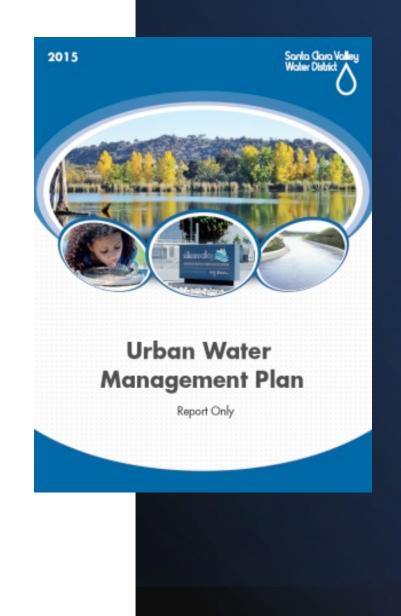
- 2010 UWMP but relevant
- 4 stages/levels from voluntary to mandatory
- Provides ordinance for conservation measures



## Wholesaler Examples

Valley Water (formerly Santa Clara Valley Water District)– Key Takeaways

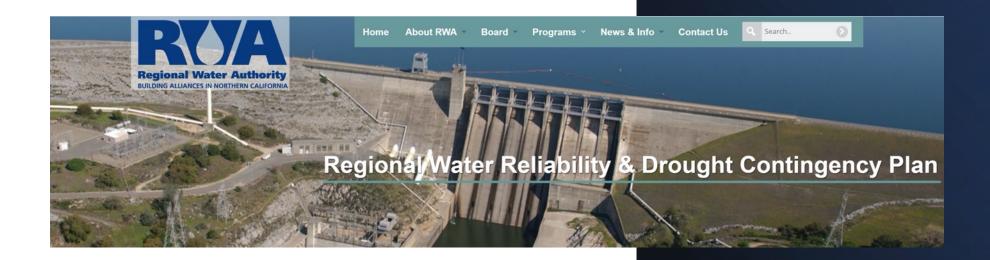
- 5 stages
- Combination of education, communication and potential supplemental funding
- Stage 4 (20-40% reduction) encourages retailers to enforce their WSCP
- Stage 5 is immediate crisis, and Emergency Operations Center would be activated



## **Regional Examples**

### **Regional Water Authority– Key Takeaways**

- 2020 UWMP
- 6 stages with *suggested* actions voluntary and mandatory
  - Suggestions for warm/dry season and cool/wet season watering
  - Pool permit and filling restrictions

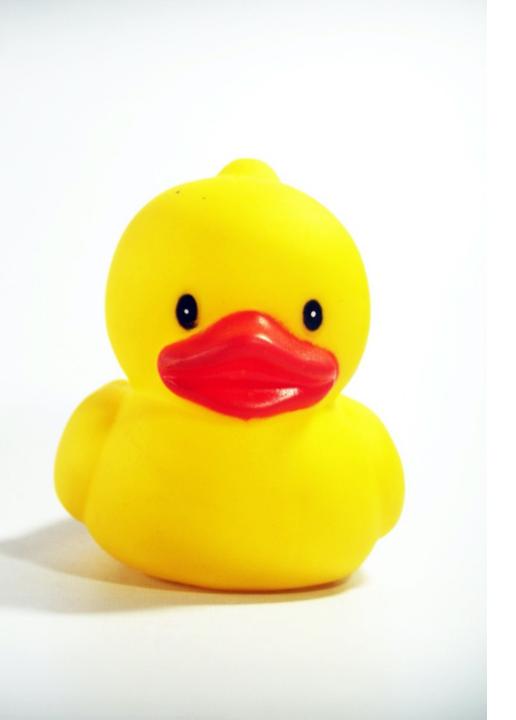


## **Regional Examples**

### **American River Region – Key Takeaways**

- 2019 WSCP
- Breakdown of 14 agencies
  - Shortage levels
  - Restrictions/Prohibitions by stage the majority doing the following:
    - Outdoor water limit (e.g. 3 days/wk; 2 days/week, 1 day/week)
    - No filling of pools or water features
    - Drought surcharge
    - No new landscaping
    - No watering public spaces except trees and shrubs
    - No outdoor irrigation
    - No new connections





## Suggestions

- Check out Tool #1 samples and resources
- Use the **required tables 8.1, 8.2, and 8.3** found in the WUE portal resources (wait for the final versions)
- Consider **creating 6 stages** or providing a graphic that shows the crosswalk to existing stages
- Consider attaching the WSCP as an **appendix** to the UWMP

### ARE YOU ODD OR EVEN?

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Water Sense

2020 PARTNER

the Water sacramento

Learn your watering days

www.SpareSacWater.org

SACRAMENTO Department of Utilities SACRAMENTO'S WATER SHORTAGE RESPONSE: THEN AND NOW

CALIFORNIA WATER EFFICIENCY PARTNERSHIP'S JUMPSTART WATER SHORTAGE TOOLKIT (2021) WEBINAR

FEBRUARY 11, 2021

WILLIAM GRANGER WATER CONSERVATION COORDINATOR

CITY OF SACRAMENTO



### STAGE 2 DROUGHT DECLARATION

- January 14<sup>th</sup>, 2014: City of Sacramento declared a stage 2 Water Shortage with a mandatory 20% reduction city-wide.
- January 17<sup>th</sup>, 2014: California declares a Drought.
- April 1, 2015: Governor issues mandates a statewide 25% reduction



Folsom Reservoir, January, 2014





### CITY OF SACRAMENTO: CHANGES SINCE THE 2014-2017 DROUGHT

2014-2017 Drought	Now/Next Drought
Fines doubled, Homeowners workshops	
Watering days decreased: 2 days per week March to November	2 day/week watering permanent, March 1-October 31
Increased enforcement- dawn patrols Outreach budget developed to promote watering schedule, rebates	Budgeted outreach
56% metered (in 2015), but accelerated installations	99% metered, all AMI- can see the watering
City Parks, Streetscapes leads by example	Lead by example
Water Use target tied to 2013	Ś



### 2015 OUTREACH CAMPAIGN-MAY







### OUTREACH: MARCH 2015 BILL INSERT & SOLID WASTE TRUCK SIGNS







### ENFORCEMENT DURING THE DROUGHT

- 8-15 staff patrolling 1-2 days per week between spring of 2014- April 2017, some "marked" vehicles
- Night patrolling and weekend patrolling by consultants
- Many reports of water misuse through 311, but most NOVs were issued when patrolling











### WINTER WATERING SCHEDULE

SACRAMENTO Department of Utilities

Landscape watering limited to 1 day a week

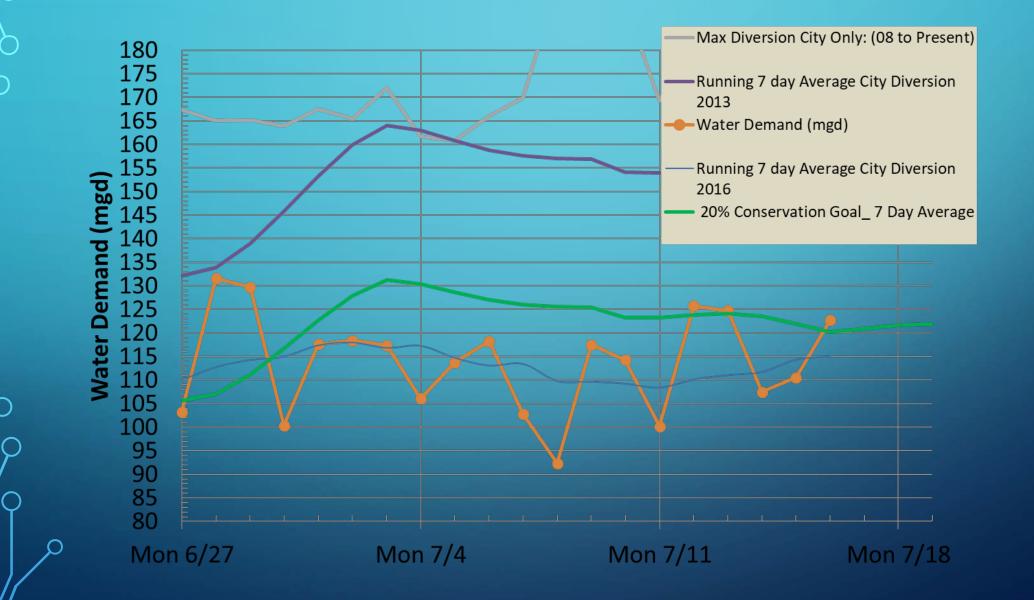
Spare the Water www.SpareSacWater.org



When daylight saving time ends:1 Day per week watering, either on Saturday or Sunday *if there are extended dry periods* •Watering times do not apply

### WINTER WATERING SCHEDULE

### TRACKING DAILY/WEEKLY WATER PRODUCTION



### QUESTIONS?

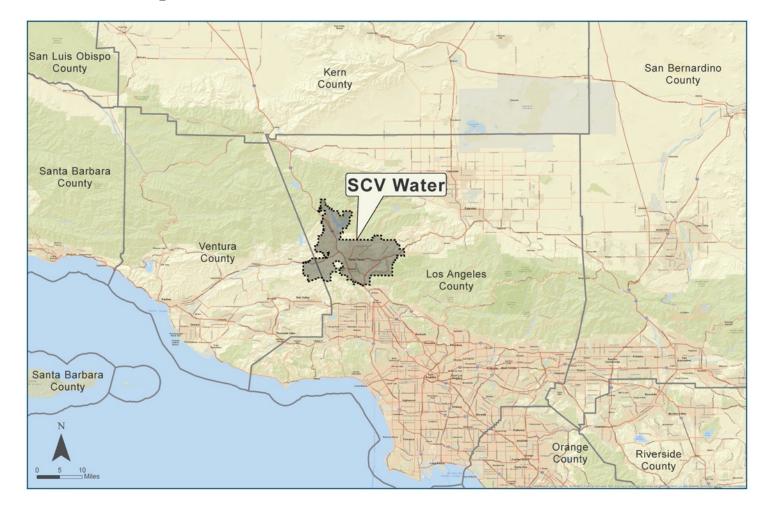
William Granger, Water Conservation Coordinator City of Sacramento, Department of Utilities wgranger@cityofsacramento.org

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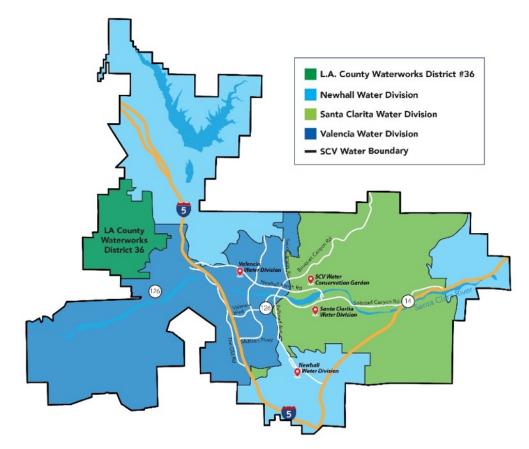


### SCV Water | Who We Are





## SCV Water | Who We Are



A full-service regional water agency located in the Santa Clarita Valley

- 195 square miles
- 74,000 retail customers
- 274,000 population served



Formed on January 1, 2018 by an act of the State Legislature (SB 634)

### **SCV WATER PLANNING EFFORTS & PROJECTS**

Water for Today & Tomorrow



Groundwater Sustainability Plan



Urban Water Management Plan



#### Water Shortage Contingency Plan



Recycled Water Planning



Rate Case Planning



To learn more visit: www.yourSCVwater.com/planning





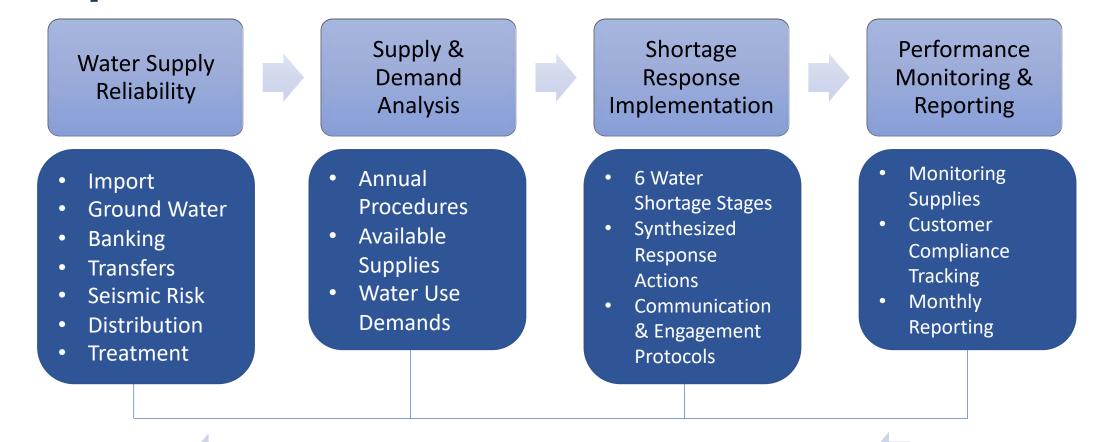
## Water Shortage Contingency Plan Overview



### WSCP Development & Engagement Process



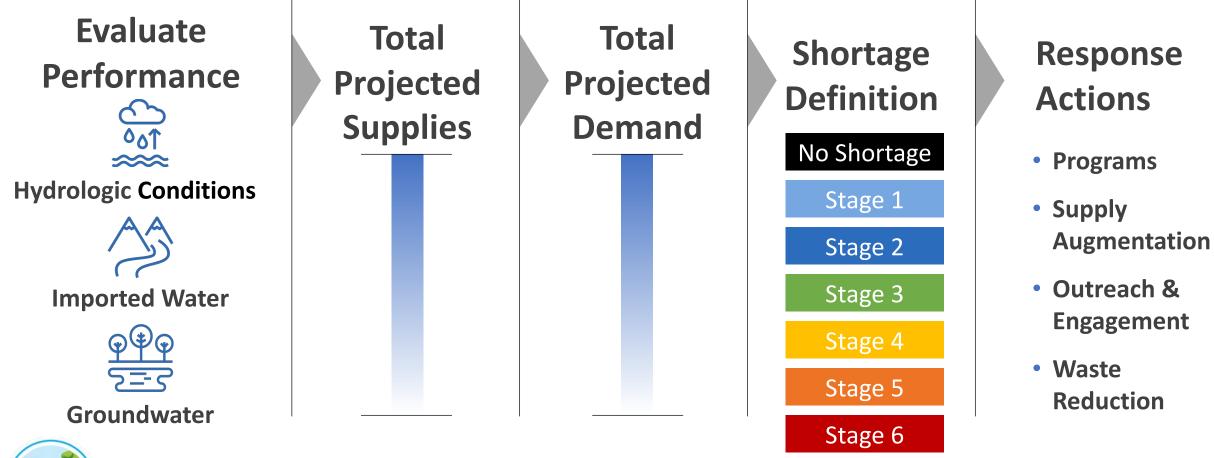
### Water Shortage Contingency Plan Components



Adaptive Management (Evaluation and Improvement Processes)



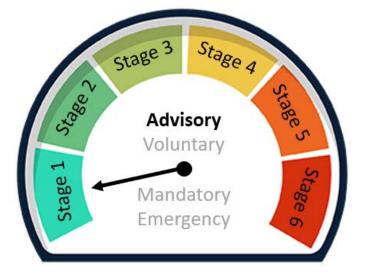
### Water Shortage Monitoring Framework





### Outcomes

- Water Shortage Contingency Plan
  - Evaluation, analysis, and response activities
- Demand Reduction Implementation Plan
  - Internal and external outputs
- Water Shortage Ordinance
  - Compliance, enforcement, and legal authorities
- Seismic Analysis





### Schedule



Planning, Analysis & Public Involvement (August 2020-July 2021)

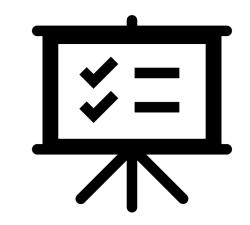


## WSCP Public Workshop



# **Public Workshop Objectives**

- Inform Stakeholders
- Gather Public Feedback
- Solicit Community Input
- Provide Opportunity for Discussion





## Public Workshop Format

- Virtual Public Workshop Format (90 Minutes)
- Key Roles Facilitation & Technical (Kearns & West, A&N Technical)
- Presentation Format
  - Overview, purpose, objectives, schedule
  - Metrics and impacts
  - Response actions and outcomes





## **Public Workshop Outcomes**

- Increased Attendance
- Engaging Discussion
- Received Valuable Community Input
  - Clarity is key
  - Equity is critical
  - Engagement is essential

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# Matthew Dickens, MPA Sustainability Manager mdickens@scvwa.org







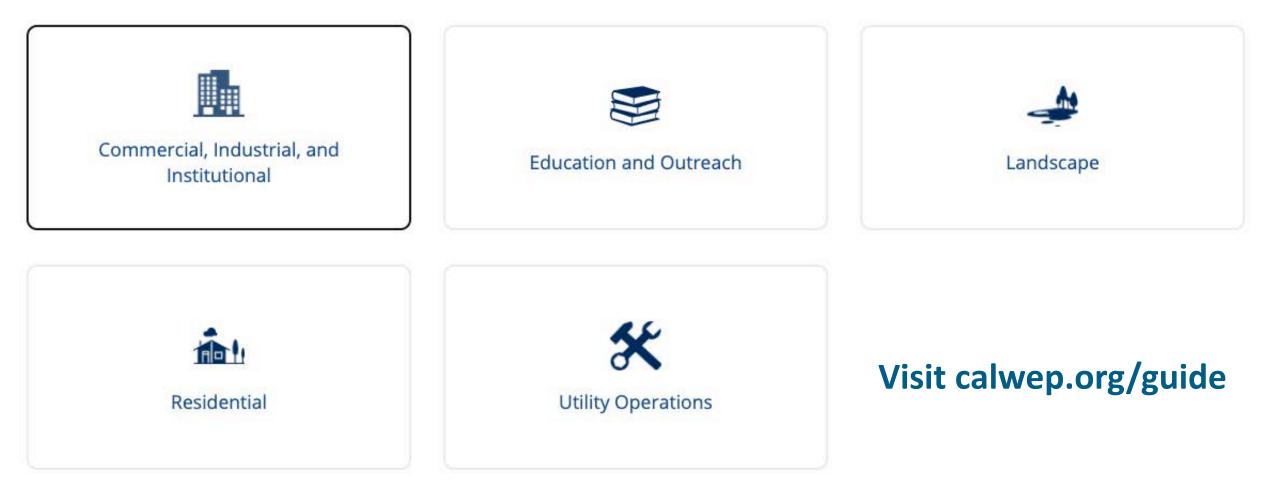
CALIFORNIA WATER EFFICIENCY PARTNERSHIP



# **CALVEP ANNOUNCEMENTS**

CALIFORNIA WATER EFFICIENCY PARTNERSHIP

# **Implementation Guides**



# **Implementation Guides**

#### COMMERCIAL, INDUSTRIAL, AND INSTITUTIONAL GUIDES

Search Commercial, Industrial, and Institutional Guides



**CII** Partnerships and Funding Sources CII Codes and Standards **CII Surveys** Complete Guide Complete Guide Complete Guide Current Codes and Standards (updated) Basic Steps for Developing a CII Water Partnerships as of November 2020) Survey Program Additional Non-Monetary Opportunities to the Commercial Historical Background on Codes and Lessons Learned Sector Standards Guidance Documents and Examples Lessons Learned Guidance and References Guidance and Documents

Examples from Members

# **Upcoming Webinars**

Implementation Guide Webinar: To Be Announced!

#### AWE Innovations in Efficiency Webinar Series Feb 25<sup>th</sup> | 11am PST Featuring Metrus Energy & Maddaus Water Management

CalWEP Spring Plenary March 10<sup>th</sup> | 10am-12pm Hosted by Coachella Valley Water District Featuring a (fun) session on UWMP!