

# Drought Planning Task Force Meeting 2

Burbank Water & Power Drought Contingency Plan



August 17, 2023





- 01 Welcome & Introductions
- 02 Drought Contingency Plan in Review
- 03 Review of Detailed Workplan
- 04 Planning Oversight
- 05 Six Elements of the Drought Contingency Plan
- 06 Next Steps and Closing

# **01 Welcome & Introductions**

# Drought Planning Task Force Members

Burbank Water and Power

Metropolitan Water District of Southern California

Hollywood Burbank Airport

Providence St. Joseph Hospital

City of Burbank

- Parks and Recreation
- Public Works
- Fire Department
- Community Development

Warner Brothers

Nickelodeon

Burbank Chamber of Commerce

Sustainable Burbank Commission

Burbank Unified School District

Any first-time attendees?

# **02 Drought Contingency Plan in Review**



BURBANK  
WATER  
AND  
POWER

*We are committed to safely providing reliable, affordable and sustainable utility services for our community.*

# BWP's History of Water Resource Management

## BWP makes plans for the community's future

- Develop Urban Water Management Plans every 5 years
- Develop Water Shortage Contingency Plan according to State requirements
- Create proactive Water Use Restrictions and Conditional Use Provisions codified in ordinances

## BWP supports regional water management through MWD's regional programs, including:

- Drought Management
- Climate Integration
- Drought Monitoring

# Water Supply Planning

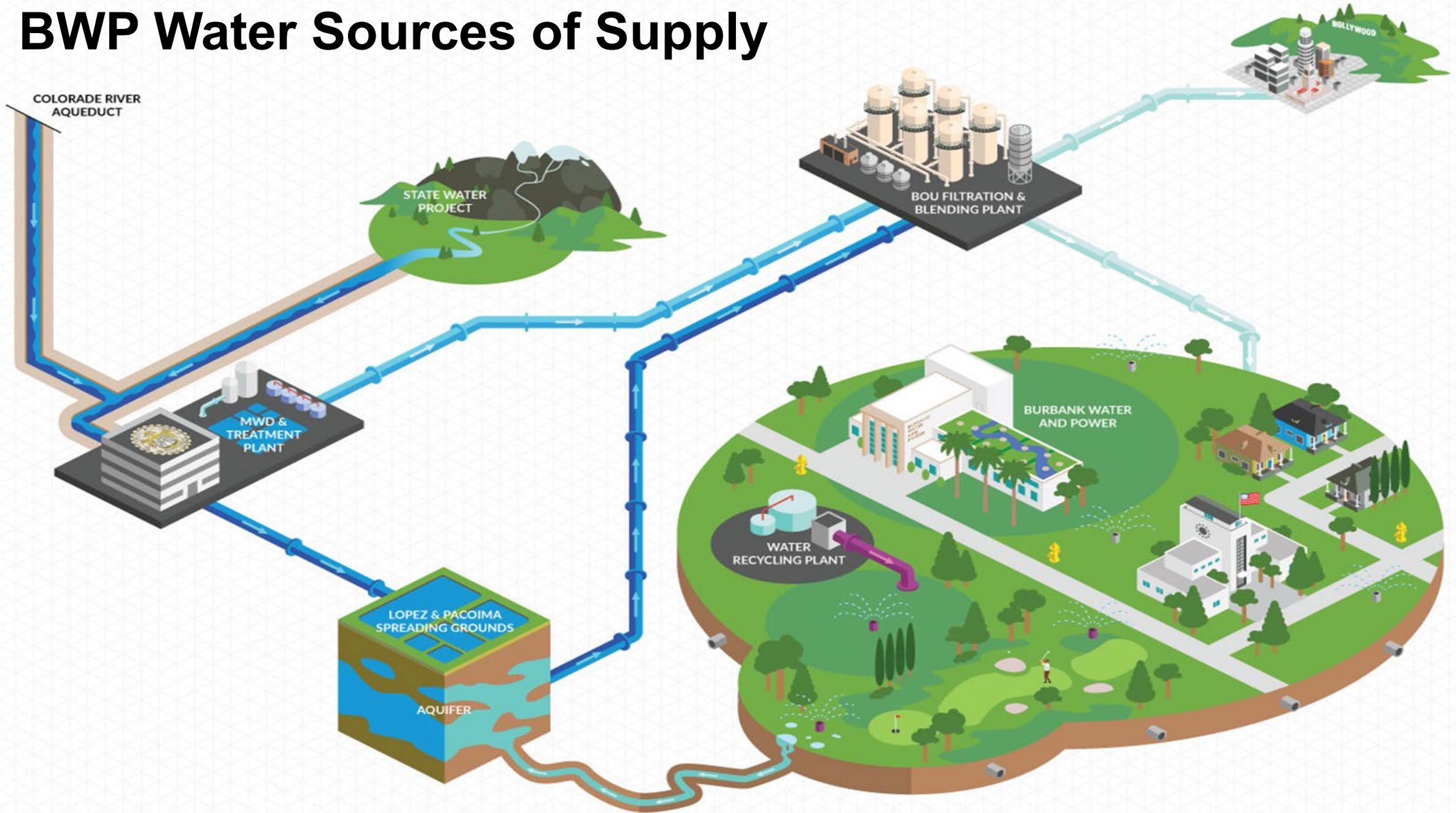


Supply Measures



Drought Response

# BWP Water Sources of Supply



# **Task Force Comments & Feedback**

# Drought Contingency Plan (DCP)

- Partnered with Bureau of Reclamation using WaterSMART grant funds
- Goal to ensure we have adequate supply of water to serve the community
- Major Plan elements:



# Required Elements of the Drought Contingency Plan

		2023				2024		
		Q1	Q2	Q3	Q4	Q1	Q2	Q3
Project Communication & Planning	Task Force Meetings							
	Develop Detailed Work Plan							
Evaluations & Assessments	Update Water Supply/Demand Information							
	Develop Drought Monitoring Program							
	Conduct Vulnerability Assessment							
Mitigation & Response Planning	Develop Mitigation Action Plan							
	Develop Response Action Plan							
	Identify Administrative Implementation Framework							
Plan Roll-Out	Documentation & Update Process							
	Draft & Final Plan Approval							

# **03 Review of Detailed Workplan**

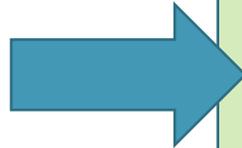
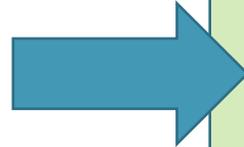
# DCP Detailed Workplan

- Early action item of Grant requirements
- Purpose is to provide structure to plan formation and integrate:
  - BoR grant scope of work,
  - Anticipated workflow and,
  - Communication Plan
- Garner BoR approval for full DCP development (now under review)

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# Planning Approach Primary Elements

- Communication and awareness
  - Next Steps: Complete Outreach Plan
- Technical DCP content
  - Next Steps: Develop Detailed DCP Table of Contents



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# **Task Force Comments & Feedback**

# 04 Planning Oversight

# Drought Planning Task Force

*Core component of the DCP is to foster regional coordination to protect water resources*

Drought Planning Task Force  
with members from diverse  
perspectives

Task Force will provide feedback  
on future water needs and  
advise on the strategic initiatives  
proposed by BWP

# Drought Planning Task Force Responsibilities

## Member Responsibilities

- Have the overall interests of the region in mind
- Fill in the gaps of the BWP's knowledge throughout the region
- Provide feedback on strategic initiatives
- Be used as a sounding board for decisions
- Support the DCP to their audiences and advise on whether the DCP will be actionable by interest group they represent
- Be able to commit the necessary amount of time to make the DCP a success
- Remain on the Task Force for the duration of the DCP development process or recommend a replacement

# Communication and Outreach (C&O) Plan

## Key Highlights

- **Hold quarterly C&O** to keep the Task Force informed, solicit information from outside stakeholders, and provide an applicable opportunity to solicit input on the DCP direction.
- **C&O Plan is prepared as a “living document”** and may be revised as circumstances and information change. Additional stakeholders might be formally or informally added to the Task Force.
- C&O will commence with BWP establishing a **dedicated website for the DCP efforts**
  - Additional content and website information coming soon

# Communication and Outreach Plan

## Key Engagement Roles for Stakeholders and Public Involvement

Group	DCP Role			
	Inform/ Educate	Gather Perceptions/ Opinions	Advise	Decide
General Public	✓	✓		
Drought Task Force	✓	✓	✓	
USBR Technical Grant Contract			✓	
City of Burbank Council				✓

# Communication and Outreach Plan

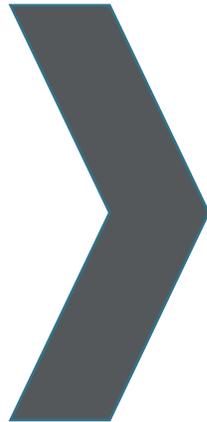
## Public Engagement Timeline

Workshop or Meeting Group	Name	Planned Date
<b>Drought Task Force Workshops</b>	Kickoff/ Workshop 1	June 27, 2023   12 – 1:30pm
	Workshop 2	August 17, 2023
	Workshop 3	January/February 2024 (TBD)
	Workshop 4	April 2024 (TBD)
<b>Sustainable Burbank Commission Coordination</b>	Quarterly Check-In 1	October 2023 (TBD)
	Quarterly Check-In 2	January 2024 (TBD)
	Quarterly Check-In 3	April 2024 (TBD)
	Quarterly Check-In 4	August 2024 (TBD)
<b>City of Burbank City Council</b>	Council Meeting	September 24, 2024

# **05 Six Elements of the Drought Contingency Plan**

# Elements of the DCP

Water Supply &  
Demand Planning



Drought Monitoring



Vulnerability Assessment



Mitigation Actions



Response Actions



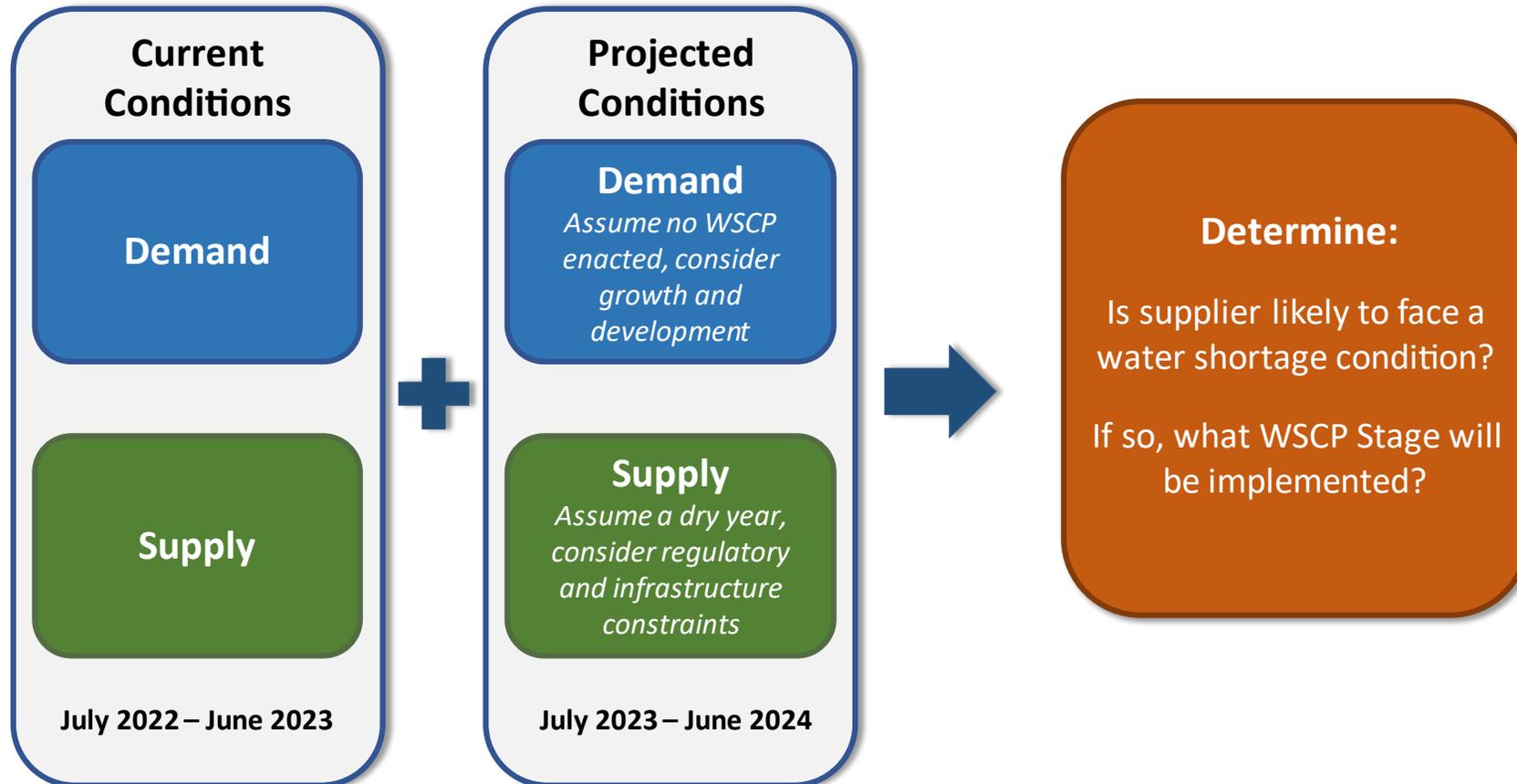
Operational and Administrative Framework



Plan Update Process

# 2023 Annual Water Supply and Demand Assessment

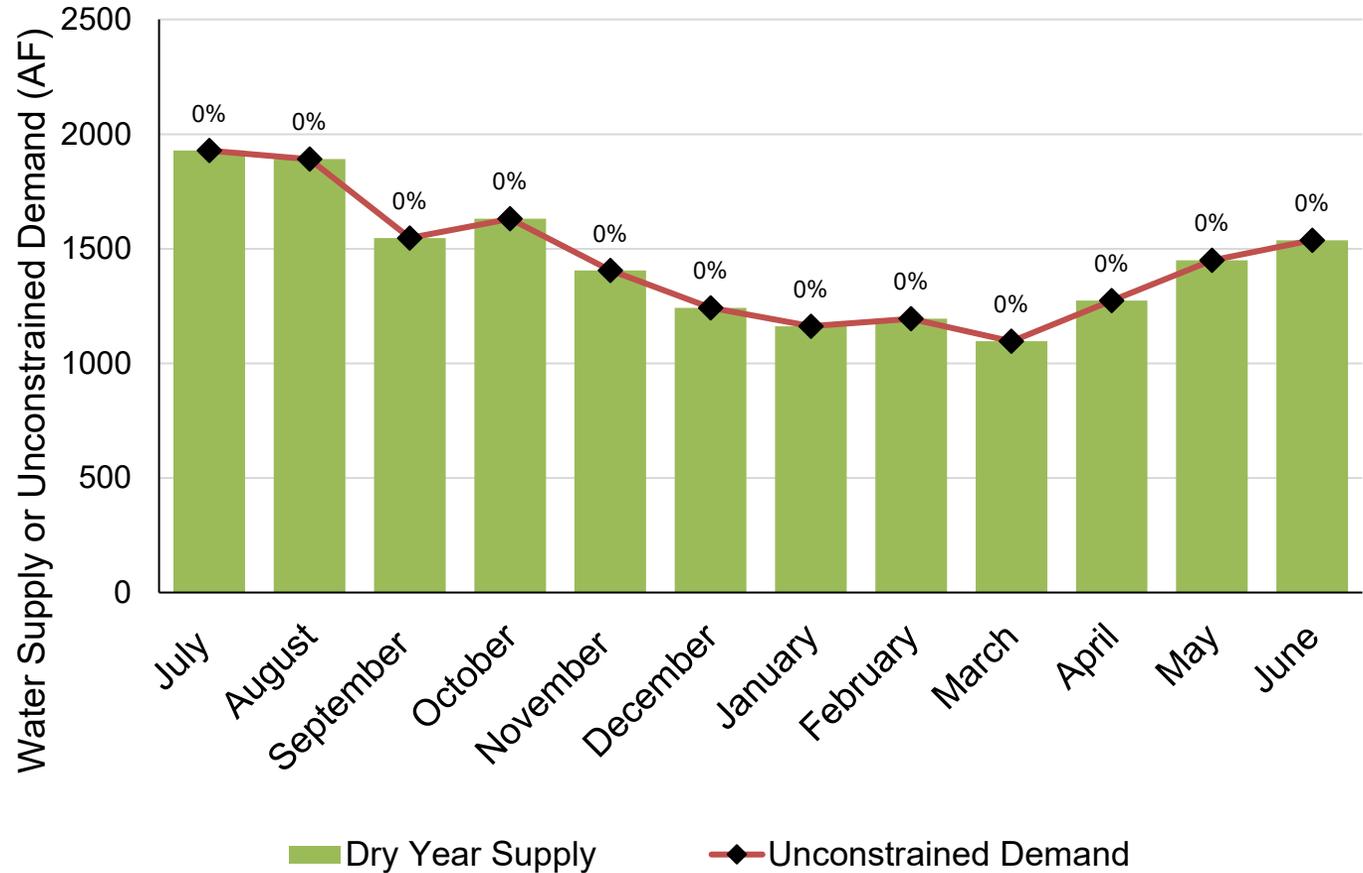
## Annual Water Supply and Demand Assessments (AWSDAs)



# FY 2024 Dry Year Supply vs. Demand (Potable)

Assuming dry conditions and potable unconstrained demand, no shortfall is anticipated.

2024 Dry Year Supply vs. Unconstrained Demand



# Elements of the DCP



Drought Monitoring



Vulnerability Assessment 



Mitigation Actions 



Response Actions



Operational and Administrative Framework



Plan Update Process

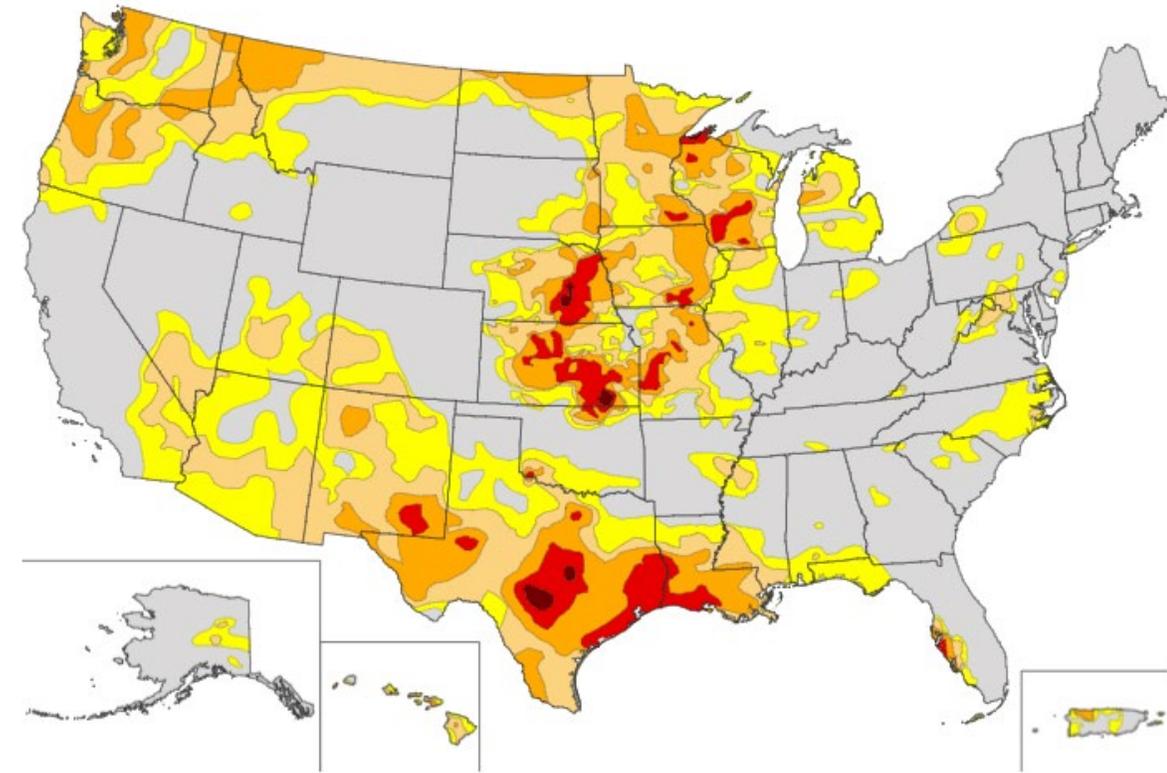
 Task Force Focus



# Drought Monitoring

## Purpose

*The Plan must establish a process for monitoring near and long-term water availability, and a framework for predicting the probability of future droughts or confirming an existing drought.*



U.S. Drought Monitor Category

	D0 - Abnormally Dry	18.1%
	D1 - Moderate Drought	15.1%
	D2 - Severe Drought	8.1%
	D3 - Extreme Drought	2.4%
	D4 - Exceptional Drought	0.2%
	Total Area in Drought (D1-D4)	25.8%

Source(s): NDMC, NOAA, USDA  
Updates Weekly: 08/15/23



# Drought Monitoring

## Workplan activities

- Review potential data sources that may serve as integral elements of BWP's Drought Monitoring Plan and meet with BWP staff to discuss the desired elements to be included in BWP's DMP.
- Inventory and assemble baseline data such as: stream flow, water diversions, reservoir contents, climate, irrigated land, and snow data.
- Develop Drought Monitoring Framework to document the monitoring data sources and their key attributes and establish an actionable purpose for each source.
- Develop Drought Monitoring Triggers to provide action information for BWP to advance its drought preparation and response.



# Drought Monitoring

## Potential Drought Monitoring Data Sources

Regional Climate Indicators	Water Supplier/ Agency Monitoring	Demand Indicators
<ul style="list-style-type: none"><li>• <b>Streamflow:</b> US Geological Service stream gages</li><li>• <b>Precipitation, temperature:</b> Climate data from weather stations kept by NOAA</li><li>• <b>Precipitation and snowpack:</b> NRCS SNOTEL Stations</li></ul>	<ul style="list-style-type: none"><li>• NIDIS Drought Monitor Index</li><li>• MWD-Data (e.g. Inflow/Outflow Spreadsheets, flow measurements, weather station, low elevation snowpack, etc.)</li><li>• MWD- Monthly Updates to Water Surplus and Drought Management Plan</li><li>• BWP Monthly Groundwater level indicators</li><li>• Applicable State Water Project metrics and forecasts, if available.</li><li>• Applicable Reclamation Reservoir Operating Plan for Mead/Oroville, if applicable.</li></ul>	<ul style="list-style-type: none"><li>• BWP Monthly and Annual water supply and demand assessment</li><li>• MWD's Annual evaluation of regional supplies and demands</li></ul>



# Vulnerability Assessment

## Purpose

- Evaluate the risks and impacts of drought
- Identify risks associated with drought and the potential impacts to applicable BWP's customers.
- Drive the development of potential mitigation and response actions.

# Drought Preparedness and Response

Second Edition



American Water Works  
Association



# Vulnerability Assessment

## Description- Part 1

- Evaluate drought-related vulnerability to the system and then ascertain how BWP's customers or customer classes may be impacted under various drought conditions.
- Leverage BWP's prior Risk and Resilience Assessment work to provide a more detailed assessment of drought-related vulnerability to inform the development of actionable mitigation measures.



# Vulnerability Assessment

## Description- Part 2

Analyze and evaluate up to 3 future climate change scenarios to develop the magnitude and frequency estimates of potential future droughts



Translate these scenarios to the impact on the customer classes sectors selected for consideration in the DCP.

Selected scenarios are assumed to align with the requirements of California's Urban Water Management Plan drought or dry-year assessment scenarios:

- Three-year consecutive drought condition
- Single dry-year drought condition
- Five-year consecutive drought condition



# Mitigation Actions

## Purpose

*The Plan must identify, evaluate, and prioritize mitigation actions and activities that will build long-term resiliency to drought and that will mitigate the risks posed by drought.*



# Mitigation Actions

## Description

- Include both supply reliability and staged drought response demand management mitigation measures
- Anticipated mitigation actions include but not limited to:
  - Infrastructure improvements to maximize the efficiency of water systems
  - Reliability and resilience improvements of system pumping facilities
  - Applicable water system meter improvements for both the drinking water and recycled water systems.
- Utilize and build upon other recent and ongoing infrastructure assessments including the results, findings, and recommendations to leverage the use of existing information in the DCP



# Mitigation Actions

## Workplan Activities

- Identify possible mitigation measures
- Develop evaluation criteria for mitigation measures
- Prioritize mitigation measures

# **Task Force Comments & Feedback**



# Response Actions

## Purpose

*Identify, evaluate, and prioritize response actions and activities that can be implemented during a drought to mitigate the impacts.*

- ✓ Manage the limited supply
- ✓ Decrease immediate impacts
- ✓ Quick implementation
- ✓ Expeditious benefits



# Response Actions

## Description Part 1

- Identify a range of possible drought response actions for each vulnerability that cannot be eliminated by implementing the identified mitigation measures.
- Supplement the mitigation measures of provide a framework for timely action in response to drought conditions.
- Each response action includes:
  - A list of activities
  - Responsible parties and their roles
  - Timeline by individual activity and for the overall response action



# Response Actions

## Description Part 2

- Review existing response-related resources
- Assess the effectiveness of associated public outreach and engagement
- Identify areas of improvements and enhancements to be made
- Develop an MS Excel-based rolling action item list



# Operational and Administrative Framework

## Purpose

- Identify who is responsible for undertaking the actions necessary to implement each element of the Drought Contingency Plan.
- Identify roles, responsibilities, and procedures necessary to
  - Conduct drought monitoring
  - Initiate response actions
  - Initiate mitigation actions
  - Update the Drought Contingency Plan



# Operational and Administrative Framework

## Description

### Format

- A matrix format to organize the information and address the required elements
- MS Excel-based that follows organizational elements

### Key Elements

- Responsible Organization(s)
- Specific responsible staff
- Staffing backup (if known)
- A timeline for each objective
- Essential resources to complete each objective



# Plan Update Process

## Purpose

- Describe the process that was undertaken to develop the plan, including how the stakeholders were engaged and how input was considered.
- Include a process and schedule for monitoring, evaluating, and updating the Plan.



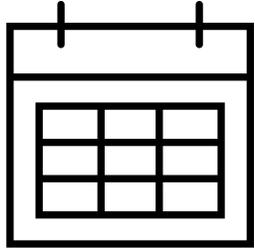
# Plan Update Process

## Anticipated Elements

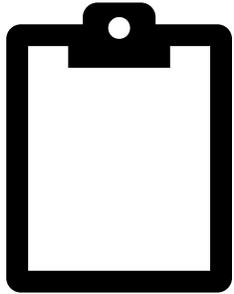
- Process to address:
  - changing climatic and environmental conditions and plan performance.
  - effectiveness of the identifies mitigation measures and the response actions.
- Establishment of a schedule for future DCP updates.
- Communication planning to distribute updates to internal and public stakeholders.
- Alignment with MWDs framework and planning update schedules.

# 06 Next Steps and Closing

# Opportunities for Engagement



- Task Force Meeting #3
  - Objective: Review Draft Content on Key DCP Sections 2 & 3 on Vulnerability and Mitigation Measures



- Engagement
  - Task Force submit comments on DCP Work Plan by September 7, 2023.
  - Gauge availability late January/ early February

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Bureau of Reclamation  
WaterSMART

**WaterSMART Grants**



