

2024 Annual Water Supply and Demand Assessment Summary Report

**A Report to the State Water Resources Control Board
pursuant to California Water Code Section 10644(c)(1)(B)**

September 2024



California Department of Water Resources
Water Use Efficiency Branch

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Definitions and Acronyms

Annual Assessment – Annual Water Supply and Demand Assessment to be conducted by urban water suppliers every year as required by California Water Code Section 10632(a)

Annual Shortage Report – Annual Water Shortage Assessment Report to be submitted annually by urban water suppliers on or before July 1 as required by California Water Code Section 10632.1. The Annual Shortage Report consists of information including anticipated shortages and triggered water shortage response actions determined by the Annual Assessment.

CVP – Central Valley Project

CWC – California Water Code

Dry Year – Characteristic of a dry year is at the discretion of the Supplier, but it should be adequately defined and ideally align with one of the WSCP water shortage levels. The assumed Dry Year conditions are often based on a previous historic dry year, such as the driest year on record. Suppliers presented their defined historic Dry Year in their UWMP Table 7-1.

DWR – California Department of Water Resources

Guidance – Annual Water Supply and Demand Assessment Guidance

Guidance Addendum – Addendum to the Annual Water Supply and Demand Assessment Guidance provides additional clarifications to the Guidance document and the submittal portal. The addendum helps to alleviate potential confusion and to avoid mistakes discovered in the prior years' submittals.

State Water Board – State Water Resources Control Board

Summary Report – Annual Water Supply and Demand Assessment Summary Report, this report

SWP – State Water Project

USBR – United States Bureau of Reclamation

UWMP – Urban Water Management Plan

Unconstrained Demand – The water demand absent any water supply and demand restrictions (see Chapter 8, UWMP Guidebook 2020)

Urban Retail Water Supplier – A water supplier, either publicly or privately owned, that directly provides potable municipal water to more than 3,000 customers or that supplies more than 3,000 acre-feet of potable water annually at retail for municipal purposes

Urban Water Supplier – An Urban Retail Water Supplier or an Urban Wholesale Water Supplier

Urban Wholesale Water Supplier – A water supplier, either publicly or privately owned, that provides more than 3,000 acre-feet of water annually at wholesale for potable municipal purposes

Water Shortage Response Actions – A measure taken to reduce the gap between available water supplies and unconstrained demand and includes demand reduction actions, supply augmentation actions, operational changes, mandatory prohibitions, and other actions

WSCP – Water Shortage Contingency Plan

WUEdata Portal – DWR’s online submittal tool allows urban water suppliers or local land use agencies to submit electronic data and reports: wuedata.water.ca.gov

Executive Summary

This report summarizes the Department of Water Resources' (DWR's) review of Urban Water Suppliers' Annual Water Shortage Assessment Reports (Annual Shortage Reports) for the State Water Resources Control Board (State Water Board). As directed by the California Water Code (CWC) §10644(c)(1)(B), this summary report includes water shortage information at the supplier level, as well as regional and statewide analyses of water supply conditions.

The Annual Shortage Reports are the result of suppliers' Annual Water Supply and Demand Assessments (Annual Assessments) and are due to DWR every year on or before July 1st (see Figure ES-1 for timeline) and provide a mechanism for suppliers to demonstrate to the State that they have adequately developed and are following their locally adopted Water Shortage Contingency Plans (WSCP). As required by CWC §10632(a)(4) and to address potential near-term shortage, urban water suppliers are required to develop and implement, as part of their WSCP, appropriate shortage response actions that align with various shortage levels. When implemented correctly, this plan provides the supplier with the know-how to respond to varying degrees of anticipated shortage and to rebalance supply and demand to prevent the anticipated shortage from becoming a reality. During a state of drought emergency, CWC §10632.3 directs the State Water Board to defer to the implementation of the locally adopted WSCPs, to the extent practicable. Urban water suppliers who did not submit Annual Shortage Reports to demonstrate that they are taking appropriate local actions to prevent actual shortage, by following their WSCP, may require State Water Board intervention.

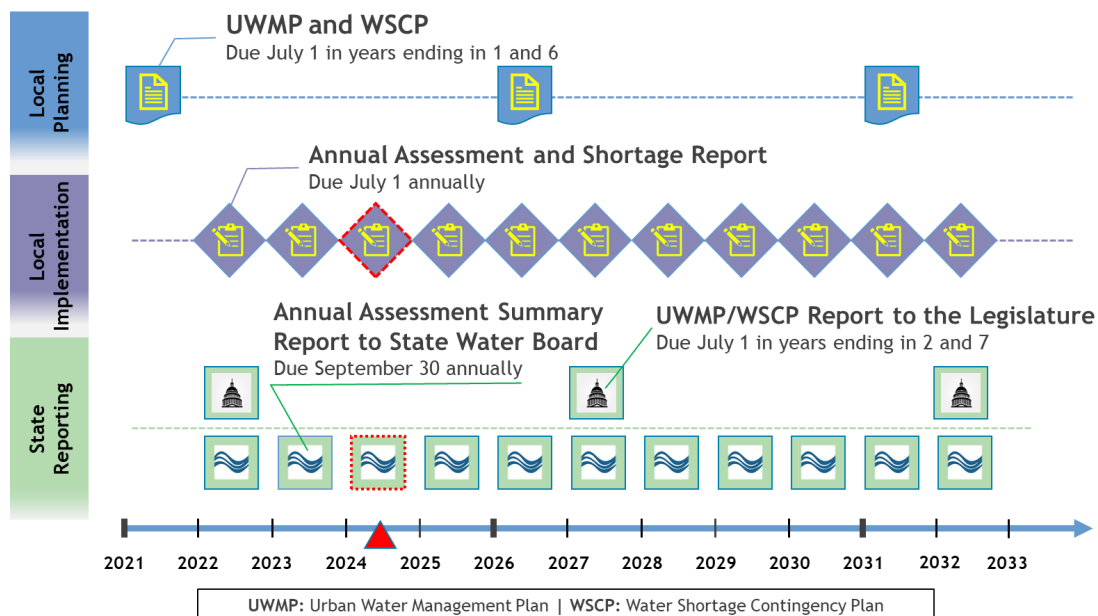


Figure ES-1. Water Shortage Contingency Planning and Implementation Timeline

Each urban water supplier conducts an Annual Assessment for the purpose of (i) evaluating its water supply reliability for the current year and one dry year and (ii) generating and submitting an Annual Shortage Report. To support suppliers' Annual Assessments, DWR has provided resources and technical assistance including: a guidance document, calculation worksheets and reporting tables, an online submittal portal, and a dedicated email address for technical assistance.

In April 2024, DWR conducted an online informational meeting to assist urban water suppliers with conducting their 2024-2025 Annual Assessments. Based on lessons learned from the previous two annual reports, DWR developed an addendum to the guidance with additional information on updates to the submittal portal in support of suppliers' compliance. Updates to the submittal portal included data validation checks to improve accuracy and completeness of submitted Annual Shortage Reports. Additionally, the submittal portal was updated to allow agencies that are both a wholesaler and a retailer to either enter data into one set of tables, or to enter data into two separate sets of tables: wholesale and retail.

For those suppliers who have submitted reports, DWR has provided technical feedback and suggested improvements to reports that were noted to have data or process errors or that did not use the appropriate level of response action. DWR has sent email reminders and made phone calls to provide information and support to suppliers that were late with submitting their required Annual Shortage Reports.

Reporting Compliance

This year, there are 445 urban water suppliers (wholesale and retail) that are required to conduct Annual Assessments and submit Annual Shortage Reports. An urban water supplier is defined as a supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre-feet annually. Last year there were only 438 suppliers classified as urban water suppliers. The increase in the number of urban suppliers is a result of several suppliers increasing their deliveries and or customers. As of September 25, 2024, DWR received a total of 449 Annual Shortage Reports from 447 suppliers. The submitted Annual Shortage Reports included 445 individual urban supplier reports, 2 separate urban wholesale reports in addition to their retail reports, and 2 voluntary reports submitted by small water suppliers (suppliers serving less than 3,000 customers and supplying less than 3,000 acre-feet annually). This year, a 100% reporting compliance rate was achieved, and all 445 urban water suppliers that are required to submit Annual Shortage Reports have done so (Table ES-1).

Table ES-1. Water Shortage Assessment Report Submittals

Total Number of Urban Water Suppliers:	445
- Suppliers that Submitted Reports	445
- Suppliers that Did Not Submit Reports	0
Compliance Rate	100%
Voluntary Submittals by Small Water Suppliers	2
Total Number of Suppliers that Submitted Reports (Required + Voluntary)	447

Urban Water Suppliers' Projected Shortages and Planned Actions

DWR's review of the submitted Annual Shortage Reports found (summary in Table ES-2):

- All water suppliers who reported, including the voluntary suppliers, either did not anticipate any shortage in the upcoming year (assumed to be dry) or they found that any anticipated shortage could be handled by implementing locally adopted water shortage response actions.
- About 97% of urban water suppliers (431 out of 445 suppliers) reported no anticipated shortage and estimated that projected supplies in the coming year would meet or exceed the projected demand.
- About 3% of urban suppliers who submitted reports (14 out of 445) projected an anticipated level of shortage that can be fully addressed by implementing appropriate response actions from their WSCPs, even if the next 12 months are dry.
- No suppliers project shortages that cannot be addressed by Water Shortage Contingency Plan actions.

Table ES-2. Urban Water Suppliers' Anticipated Shortage Based on Annual Aggregate Projections

Reported Projected Shortage Status	# of Suppliers	%
No shortage ¹	431	97%
Shortage can be fully addressed by suppliers' actions	14	3%
Shortage is not fully addressed by suppliers' reports; additional actions or report corrections are needed	0	0%
Total number of submitted, required shortage assessment reports	445	100%

¹ Although projecting an annual aggregate surplus, some suppliers may still have shortages when assessed on a monthly timescale. If so, they may be taking some actions during certain periods of the year to balance their supplies and demands.

The two small water suppliers who voluntarily submitted reports anticipated no shortage in the coming year.

1.0 Introduction

This Annual Water Supply and Demand Assessment Summary Report (Summary Report) contains projected water shortage information at the urban water supplier level as well as regional and statewide analyses of water supply conditions and is intended to inform the State Water Resources Control Board (State Water Board). Additionally, the report includes information on water shortage response actions taken by urban water suppliers as a result of their Annual Water Supply and Demand Assessments (Annual Assessments), and urban water suppliers' compliance statistics with respect to their Annual Water Shortage Assessment Report (Annual Shortage Report) submittals.

1.1 Purpose of the Report

The purpose of the Summary Report is to fulfill the California Water Code (CWC) §10644(c)(1)(B) requirements and it is due on or before September 30th of every year. The full text of the CWC section regarding the Department of Water Resources' (DWR) Summary Report to the State Water Board is presented below for reference.

CWC §10644(c)(1)(B)

The department shall prepare and submit to the board, on or before September 30 of each year, a report summarizing the submitted water supply and demand assessment results along with appropriate reported water shortage conditions and the regional and statewide analysis of water supply conditions developed by the department. As part of the report, the department shall provide a summary and, as appropriate, urban water supplier specific information regarding various shortage response actions implemented as a result of annual supplier-specific water supply and demand assessments performed pursuant to Section 10632.1.

1.2 Report Organization

This Summary Report is organized into five sections:

Section 1 – Introduction: presents a high-level description of the report contents and purpose.

Section 2 – Background: (1) presents information on conducting and preparing Annual Assessments and Annual Shortage Reports and (2) describes how these items relate to

urban water suppliers' Water Shortage Contingency Plans within the overarching urban water management planning.

Section 3 – Summary of Submitted Annual Water Shortage Assessment Reports: presents the compliance statistics, anticipated shortage statistics, and implemented and planned water shortage response actions.

Section 4 – Regional and Statewide Water Supply Conditions: presents an overview of hydrological water supply conditions and information on State Water Project (SWP) and United States Bureau of Reclamation (USBR) allocations.

Section 5 – Findings Summary: identifies issues and potential improvements to the process and highlights the benefits of the Annual Assessment process for improving drought preparedness.

This report includes two appendices:

Appendix A – Summary of Urban Water Suppliers' Reported Shortage Assessments: lists the water suppliers, their Annual Shortage Report submittal status, and projected water shortage status.

Appendix B – Annual Water Shortage Assessment Reporting Tables: includes templates for the reporting tables.

2.0 Background

2.1 Annual Water Supply and Demand Assessments

Urban water suppliers develop and adopt two local planning documents: (1) an Urban Water Management Plan (UWMP) for mid- and long-term planning and (2) a Water Shortage Contingency Plan (WSCP) to prepare and plan for near-term drought and water shortage events. The UWMP and WSCP are both submitted on a 5-year cycle in years ending 1 and 6. DWR is then responsible to report to the legislature on the status of submitted UWMPs and WSCPs every 5 years in years ending 2 and 7.

In the WSCP, urban water suppliers provide a description of the procedures they will employ each year to conduct their Annual Assessment. Those procedures include a written decision-making process, as well as the key data inputs and the assessment methodology used to evaluate the near-term water supply reliability (CWC §10632(a)(2)).

Using the WSCP procedures, each urban water supplier conducts an Annual Assessment for the purpose of (1) evaluating its water supply reliability for the current year and one dry year and (2) generating and submitting an Annual Shortage Report by July 1 every year. After performing the Annual Assessment, each urban water supplier submits to DWR its assessment results regarding any anticipated shortages and appropriate water shortage response actions in its Annual Shortage Report.

DWR summarizes the submitted Annual Shortage Reports and submits this Summary Report to the State Water Board. The following Figure 1 presents the timeline showing the respective milestones for the above-mentioned local planning, local implementation, and state reporting.

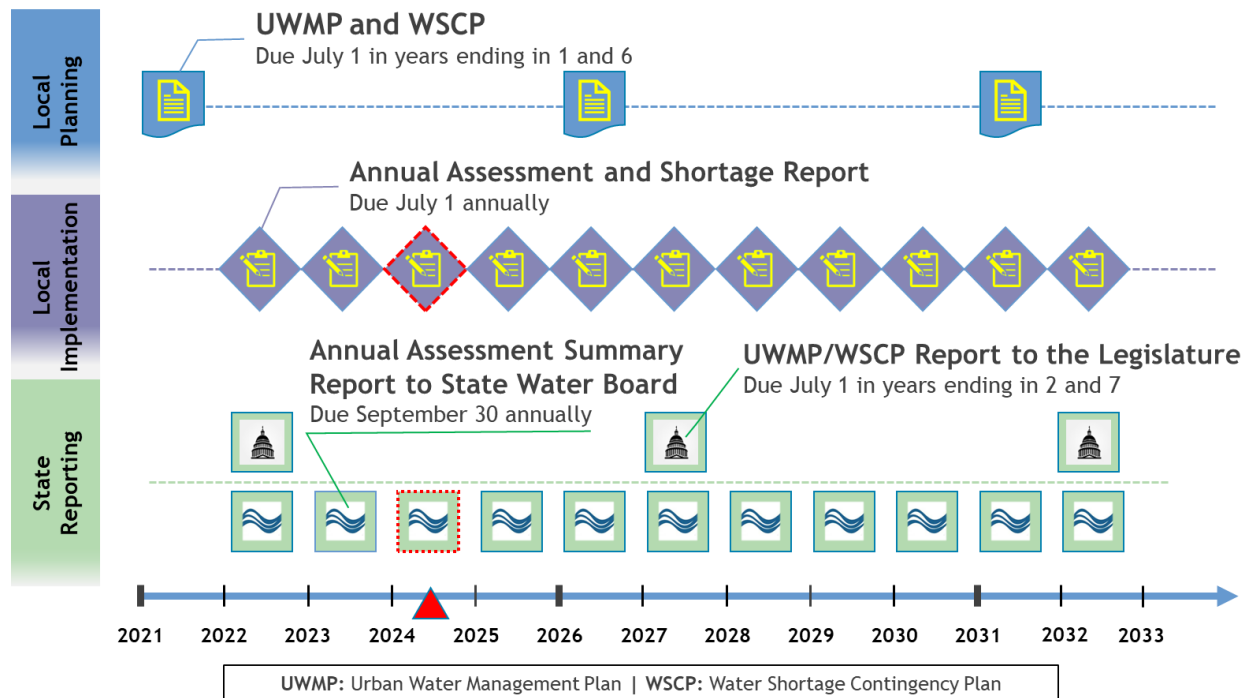


Figure 1. Water Shortage Contingency Planning and Implementation Timeline

2.2 DWR Guidance and Technical Assistance

To support suppliers’ Annual Assessments, DWR has provided resources and technical assistance including: a guidance document and addendum, calculation worksheets and reporting tables, an online submittal portal, and a dedicated email address for technical assistance. These resources can be found on DWR’s Annual Water Supply and Demand Assessment webpage: <https://water.ca.gov/Programs/Water-Use-And-Efficiency/Water-Supply-and-Demand-Assessment>.

The Annual Water Supply and Demand Assessment Guidance (Guidance) document was developed by DWR in April 2022 to help urban water suppliers prepare their Annual Assessment and submit their Annual Shortage Report to DWR in a way that is consistent with CWC §10632.1 requirements. The Guidance recommends that urban water suppliers use actual current year’s conditions, as well as can be known prior to the July 1st due date, and project forward into one year using assumed dry year conditions. By following the Guidance recommendations, the one-year projection would then start on July 1st (which is also the due date of the Annual Shortage Report) and continue through June 30th of the next calendar year.

Based on lessons learned from previous reporting cycles, DWR continued to make improvements to the process and continued to provide additional targeted guidance and technical assistance. This year’s improvements included: an update to the addendum to the Guidance, updates to the WUEdata Portal, updates to the Excel Workbook and

calculation worksheets, and an option to allow dual suppliers to submit either separate wholesale and retail reports, or one combined report in their WUEdata account.

Additional outreach efforts included: an online public informational meeting in April 2024, email reminders and phone calls to suppliers that were late in order to offer them additional reminders, and targeted technical assistance to suppliers needing help.

DWR performed these activities in support of suppliers' compliance with the CWC requirements. The full text of CWC §10632.1 is presented below for reference.

CWC §10632.1

An urban water supplier shall conduct an annual water supply and demand assessment pursuant to subdivision (a) of Section 10632 and, on or before July 1 of each year, submit an annual water shortage assessment report to the department with information for anticipated shortage, triggered shortage response actions, compliance and enforcement actions, and communication actions consistent with the supplier's water shortage contingency plan. An urban water supplier that relies on imported water from the State Water Project or the Bureau of Reclamation shall submit its annual water supply and demand assessment within 14 days of receiving its final allocations, or by July 1 of each year, whichever is later.

The general procedures to conduct an Annual Assessment are outlined in the CWC §10632(a)(2) and are listed below for reference. The specifics of each urban water supplier's Annual Assessment procedures can be found in the supplier's respective WSCP accessed through the electronic submittal tool (WUEdata Portal at wuedata.water.ca.gov).

CWC §10632(a)(2)

The procedures used in conducting an annual water supply and demand assessment that include, at a minimum, both of the following:

(A) The written decision-making process that an urban water supplier will use each year to determine its water supply reliability.

(B) The key data inputs and assessment methodology used to evaluate the urban water supplier's water supply reliability for the current year and one dry year, including all of the following:

(i) Current year unconstrained demand, considering weather, growth, and other influencing factors, such as policies to manage current supplies to meet demand objectives in future years, as applicable.

(ii) Current year available supply, considering hydrological and regulatory conditions in the current year and one dry year. The annual supply and demand assessment may consider more than one dry year solely at the discretion of the urban water supplier.

(iii) Existing infrastructure capabilities and plausible constraints.

(iv) A defined set of locally applicable evaluation criteria that are consistently relied upon for each annual water supply and demand assessment.

(v) A description and quantification of each source of water supply.

2.3 Annual Water Shortage Assessment Reports

This year's Annual Shortage Reports, due July 1, 2024, cover projections for the 12-month period from July 1, 2024 to June 30, 2025. Note that for an urban water supplier relying on imported water allocations from the State Water Project or USBR, its report is due the latter of either July 1st or within 14 days of receiving its final allocations.

The Annual Shortage Report consists of five standard tables. An urban water supplier's reporting requirement is satisfied by submitting a completed set of these tables through the WUEdata Portal. In the tables, urban water suppliers estimate demands and supplies on either an annual (minimum requirement) or monthly (recommended) basis for an assumed dry year, as well as calculate projected shortage levels, and identify potential actions triggered by those shortage levels. The actions are to include water shortage response actions, compliance and enforcement actions, and communication actions consistent with the urban water supplier's WSCP. Copies of these required tables are displayed in Appendix B, and are described below:

- Table B-1. Annual Water Supply and Demand Assessment Information: the table contains:
 - Annual Assessment Information (Required): required information to include supplier type (wholesaler, retailer), planning cycle, volume unit, reporting interval, as well as urban water supplier's contact information.
 - Other Assessment Related Activities (Optional): optional information and may document the assessment methodology, procedures, decision-making process, key data inputs, etc.

- Table B-2. Water Demands: the table contains estimated unconstrained water demand from July to June of next year.
- Table B-3. Water Supplies: the table contains estimated available water supplies from July to June of next year projecting assumed dry year conditions.
- Table B-4. Water Shortage Assessment: the table shows a summary of supply/demand balances as well as anticipated shortages and results of planned water shortage response actions. Table 4 contains two parts:
 - Table B-4(P) – Potable Water Shortage Assessment
 - Table B-4(NP) – Non-Potable Water Shortage Assessment (Optional)
- Table B-5. Planned Water Shortage Response Actions: the table contains information on current and planned water shortage response actions (if any).

In addition to the above required tables, urban water suppliers may upload additional documentation related to their Annual Shortage Report into the WUEdata Portal.

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3.0 Summary of Submitted Annual Water Shortage Assessment Reports

This section presents summarized information gleaned from urban water suppliers' 2024 Annual Shortage Reports submitted in the WUEdata Portal. For consistency, and because not all suppliers have reported monthly projections, the statistics presented in this Summary Report for all suppliers are based on annual aggregate projections. However, for those suppliers which reported monthly data and projected some level of shortage, we also present limited statistics on the level of projected monthly shortages and the time of their occurrence throughout the year. This section also includes some statistics on non-urban water suppliers that voluntarily submitted Annual Shortage Reports. For specific details, the public can access individual reports and data tables through the WUEdata Portal, DWR's electronic submittal tool.

3.1 Reporting Compliance

There are 445 urban water suppliers (wholesale and retail) that are required to conduct water supply and demand assessments and submit Annual Shortage Reports.

An urban water supplier is a supplier providing water for municipal purposes to more than 3,000 customers or supplying more than 3,000 acre-feet annually. As of September 25, 2024, DWR received a total of 449 Annual Shortage Reports from 447 suppliers. The submitted Annual Shortage Reports included 445 individual urban supplier reports, 2 separate urban wholesale reports in addition to their retail reports, and 2 voluntary reports submitted by small water suppliers (suppliers serving less than 3,000 customers and supplying less than 3,000 acre-feet annually) – Table 1. A reporting compliance rate of 100% was achieved, and all 445 urban water suppliers that are required to submit Annual Shortage Reports have done so.

Table 1. 2024 Annual Shortage Report Submittals as of September 25, 2024

Total Number of Urban Water Suppliers	445
Suppliers that Submitted Reports	445
Suppliers that Did Not Submit Reports	0
Compliance Percentage	100%
Voluntary Submittals by Small Water Suppliers	2
Total Number of Suppliers that Submitted Reports (Required + Voluntary)	447

Submitting Annual Shortage Reports is required by the Urban Water Management Planning Act and is a condition for eligibility to receive State grants or loans.

3.2 Projected Shortage Status

Table 2 summarizes the number of urban water suppliers' and their projected annual shortage status from the submitted reports. Among the 445 urban water suppliers which submitted a 2024 Annual Shortage Report, 431 (97%) did not project water supply shortages in the next year (based on annual aggregate supply and demand projections) even assuming dry year conditions. Another 14 (3%) projected that they may have supply shortages prior to implementing response actions, but that they could eliminate the shortages through the implementation of appropriate water shortage response actions. No suppliers project shortages that cannot be addressed by Water Shortage Contingency Plan actions. Figure 2 displays the relative proportions of suppliers in these three shortage categories.

**Table 2. Urban Water Suppliers' Projected Shortage Status
Based on Annual Aggregate Projections (as of September 25, 2024)**

Reported Projected Shortage Status	Number of Suppliers	%
No shortage ¹	431	97%
Shortage can be fully addressed by suppliers' actions	14	3%
Shortage is not fully addressed by suppliers' actions; Report corrections or additional actions may be needed	0	0%
Total number of urban suppliers who submitted shortage assessment reports	445	100%

¹ Although projecting an annual aggregate surplus, some suppliers may still have shortages when assessed on a monthly timescale (see Figure 3 below). If so, they may be taking some actions during certain periods of the year to balance their supplies and demands.

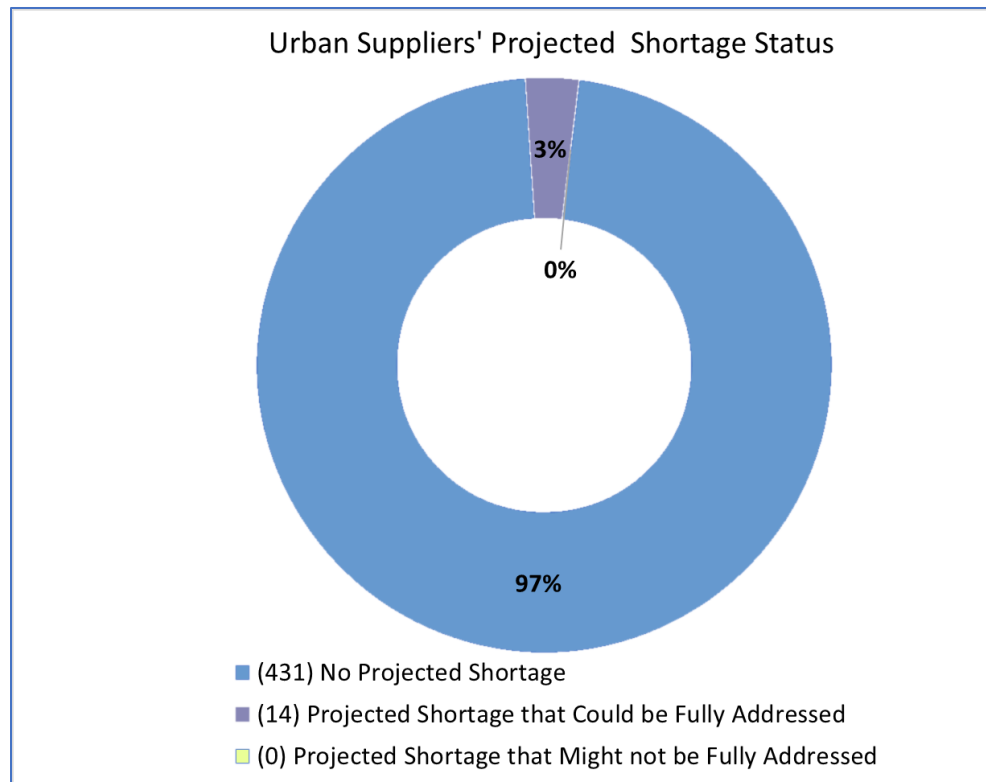


Figure 2. Urban Water Suppliers' Projected Annual Shortage Status
(As of September 24, 2024)

Appendix A includes Tables A-1 through Table A-4 that list the urban water suppliers in the following categories: suppliers anticipating surplus or no shortage, suppliers anticipating shortage that can be fully addressed by implementing water shortage response actions, suppliers anticipating shortage that may not be fully addressed by implementing water shortage response actions, and suppliers that did not submit an Annual Shortage Report.

There were about 343 urban water suppliers that reported monthly data. Among those, there were only 34 suppliers that projected some level of shortage during certain months of the coming year that could be addressed by implementing shortage response actions. Figure 3 displays the distribution of projected monthly shortages in the coming year along with the number of short suppliers and their corresponding projected shortage levels. The figure shows that there is no apparent seasonal pattern in shortage occurrences and the shortages are evenly distributed across all the months. There are relatively few suppliers that project a shortage in any one month. All these suppliers project they will be able to implement actions sufficient to address their projected shortages. Suppliers projecting monthly shortages plan to address them by implementing a combination of demand reduction actions and supply augmentation actions including transfers, purchases, and reliance on reserve supplies, mainly local groundwater.

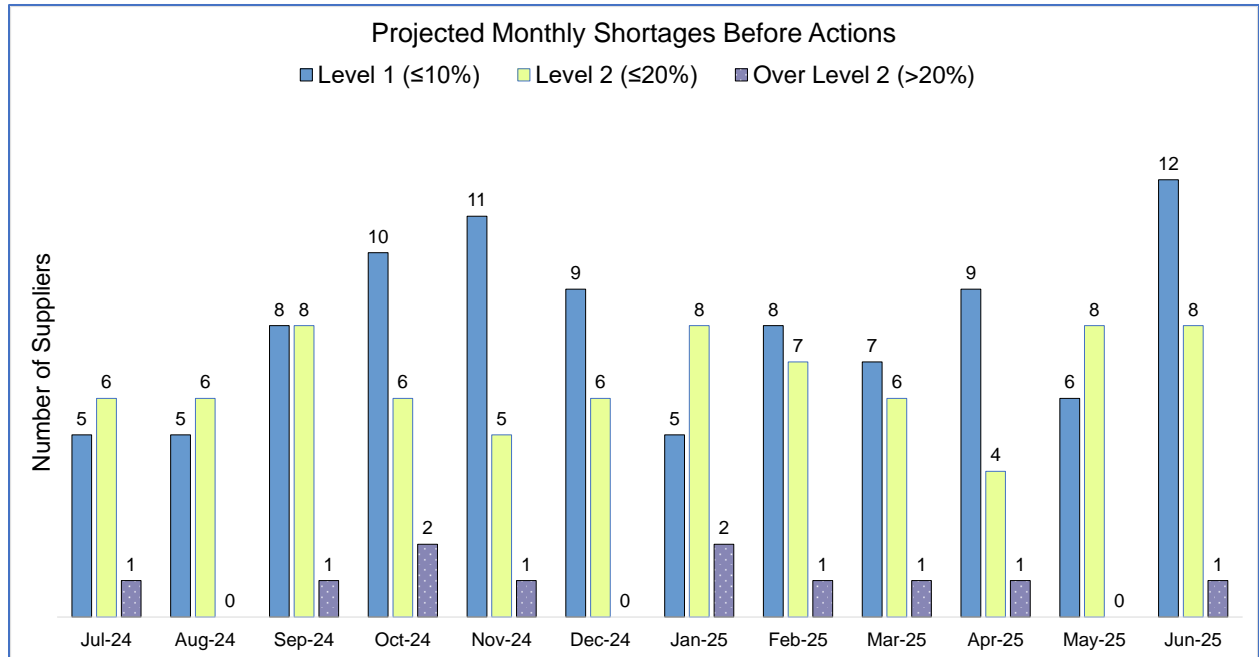


Figure 3. Distribution of Projected Shortages for Suppliers Reporting Monthly

There are an additional 2 non-urban small water suppliers that voluntarily submitted Annual Shortage Reports. Both small water suppliers who voluntarily submitted reports anticipated no shortage in the coming year. Figure 4 displays the relative proportions of the shortage status for the voluntary submitters.

Appendix A Table A-5 lists small water suppliers that voluntarily submitted Annual Shortage Reports.

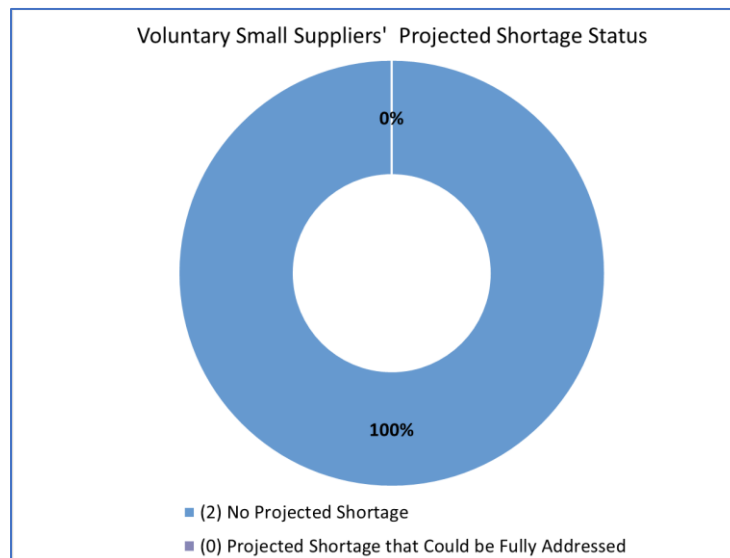


Figure 4. Voluntarily Reporting Small Water Suppliers' Projected Annual Shortage Status (as of September 25, 2024)

3.3 Water Shortage Response Actions

DWR staff compiled and analyzed the water shortage response actions currently implemented or planned to be implemented, as reported in the received Annual Shortage Reports. The usage frequency of the top 15 water shortage response actions is shown in Figure 5. Currently, the most widely implemented actions by urban water suppliers include:

- Fixing leaks and breaks by customers
- Prohibiting runoff from landscape irrigation
- Prohibiting use of potable water for washing hard surfaces
- Limiting landscape irrigation to specific days and times
- Expanding public outreach campaigns
- Restricting certain commercial, industrial, and institutional (CII) water uses.

Submitted reports show the most frequently selected water shortage response actions focus predominantly on fixing water leaks, and outdoor and CII water use restrictions.

It is important to highlight that ongoing implementation of some demand reduction actions is becoming the norm for many California urban water suppliers through continuous water conservation efforts. This is clearly demonstrated by the higher number of suppliers implementing or planning to implement demand reduction actions, beyond the small number of suppliers which project shortages, as shown in Figure 5.

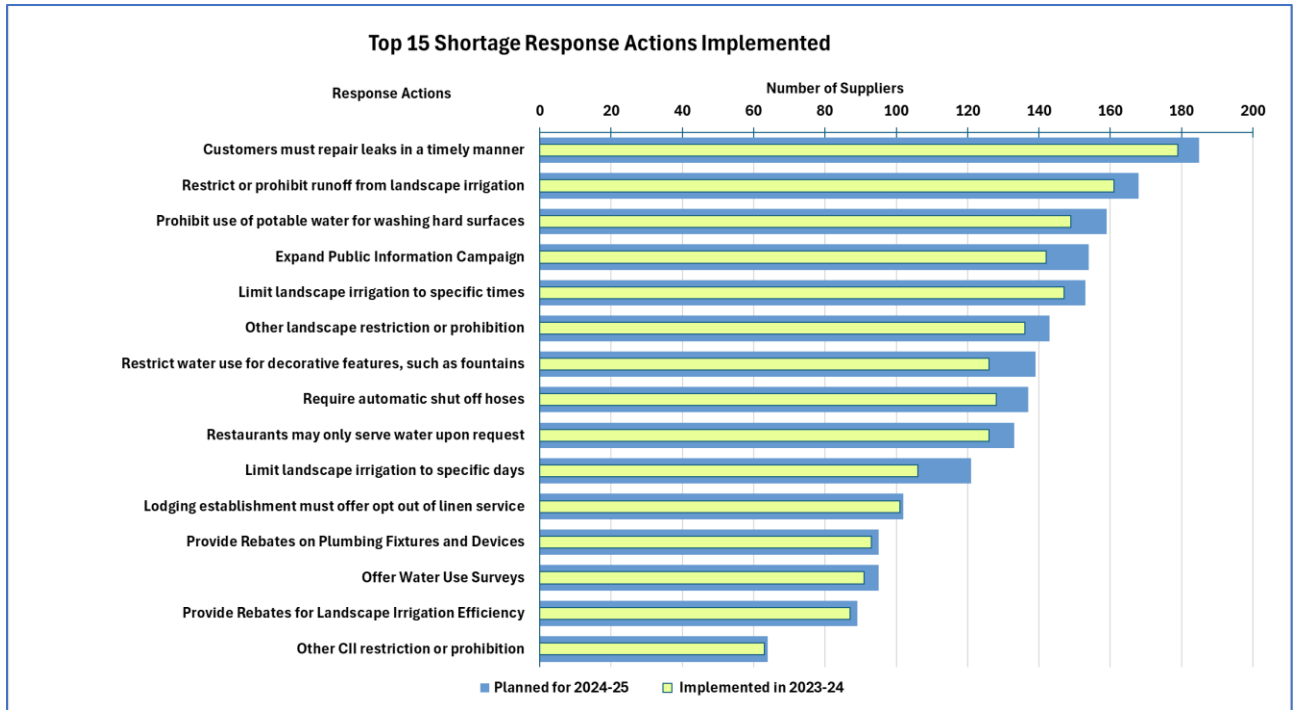


Figure 5. Top 15 Implemented and Planned Water Shortage Response Actions

4.0 Regional and Statewide Water Supply Conditions

4.1 Hydrologic Water Supply Conditions

California’s regional and statewide analyses of water supply conditions is summarized from current hydrological information including precipitation (rain and snow), water storage levels (river, reservoir, and groundwater), and State and Federal water allocations. After a wet year in 2023, this year California experienced an average water year.

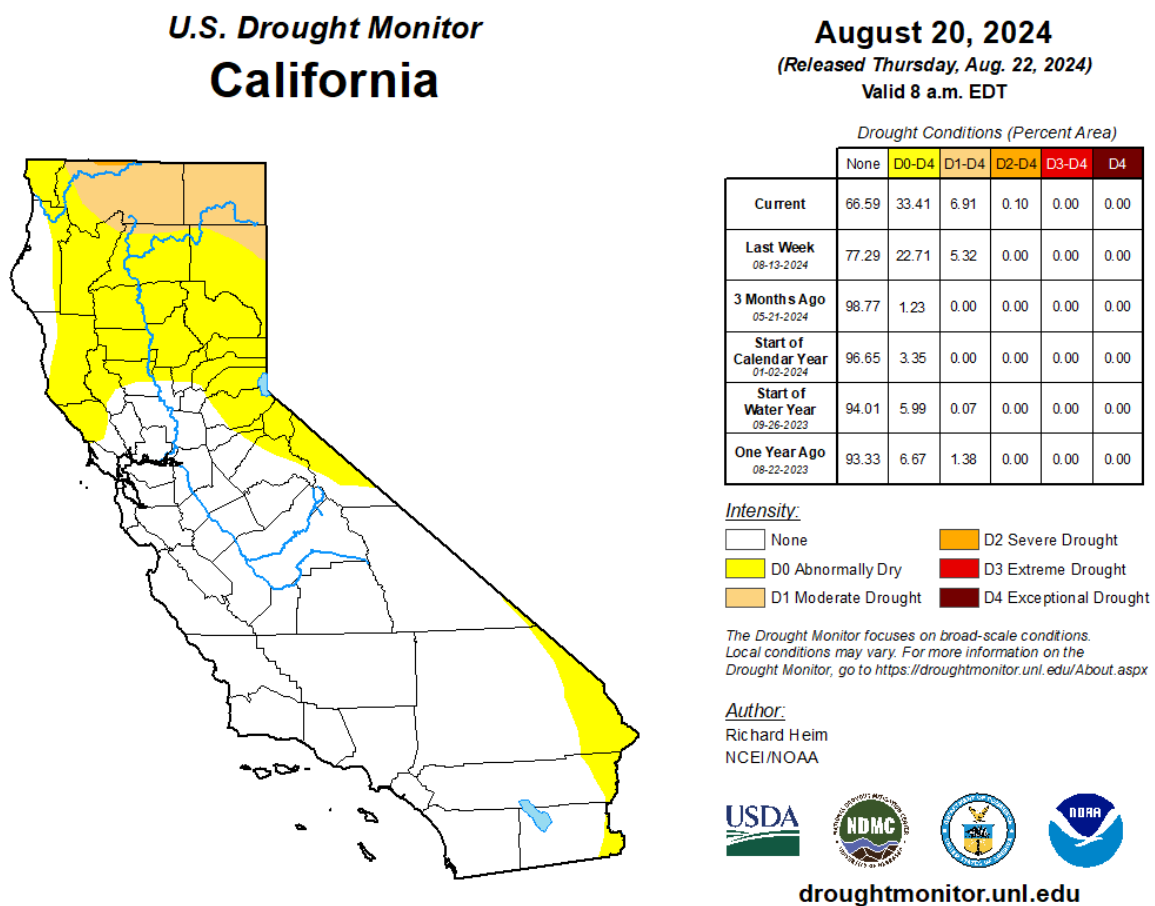


Figure 6. California Drought Conditions on August 20, 2024¹

¹ The U.S. Drought Monitor is jointly produced by the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture, and the National Oceanic and Atmospheric Administration. Map courtesy of NDMC.

Figure 6 shows that on August 20, 2024, the U.S. Drought Monitor indicated that approximately 67 % of the State is not under drought conditions (NDMC 2024). (It is important to note that the U.S. Drought Monitor focuses on broad-scale conditions, and that local conditions may vary.) The areas of the state under abnormally dry or moderate drought conditions are about 33% and 7%, respectively. The Moderate Drought area covers the entire county of Modoc, most of Siskiyou, and small parts of Trinity, Shasta and Lassen counties in the northeastern part of the state. The Abnormally Dry areas exist in most of the northern portion of the state, north of Yolo and Sacramento counties, extending down to parts of Sonoma County to the west and Mono County to the east. Additionally, Abnormally Dry areas exist in a narrow strip along the state’s eastern border in the southeastern counties of San Bernardino, Riverside, and Imperial.

Figure 7 displays California’s 14-year historical record for several hydrological indicators including precipitation, snowpack, runoff, and reservoir storage, as measured on April 1st every year (DWR 2024a). The data is displayed as Percent of Average. Values below 100 are below average and values above 100 are above average.

California has the largest year-to-year variability in hydrologic outcomes of anywhere in the United States, however this year has been average. Note that all four hydrological indicators (snowpack, precipitation, stream runoff, and reservoir storage) hovered above 100% of the historical average on April 1, 2024.

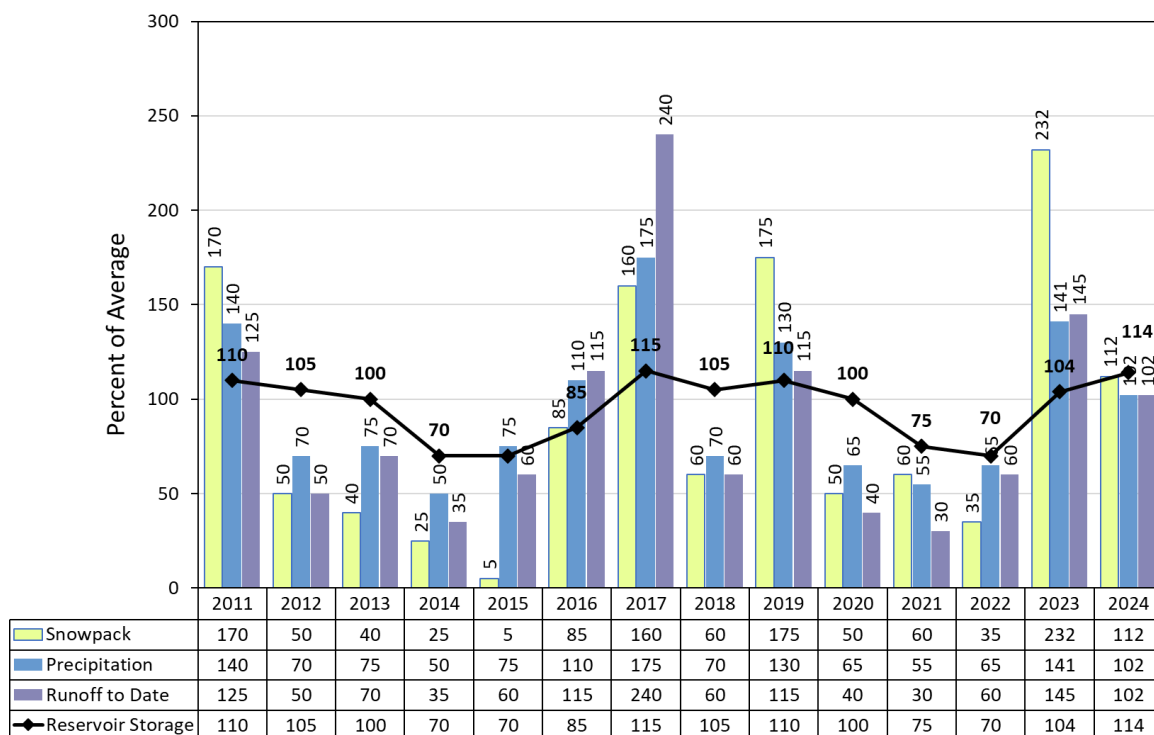


Figure 7. Historical Statewide Water Supply Conditions on April 1st

As of the beginning of September, nearly all areas of the state have had near average precipitation accumulation except for select areas in Southern California, Southern Sierra Nevada, Eastern Sierra Nevada and the Mojave Desert regions which have below average accumulated precipitation (Figure 8). As of September 3, 2024, California has received a statewide average of 23.67 inches of precipitation, which is 101% of average to date (California Water Watch Website, DWR 2024b).

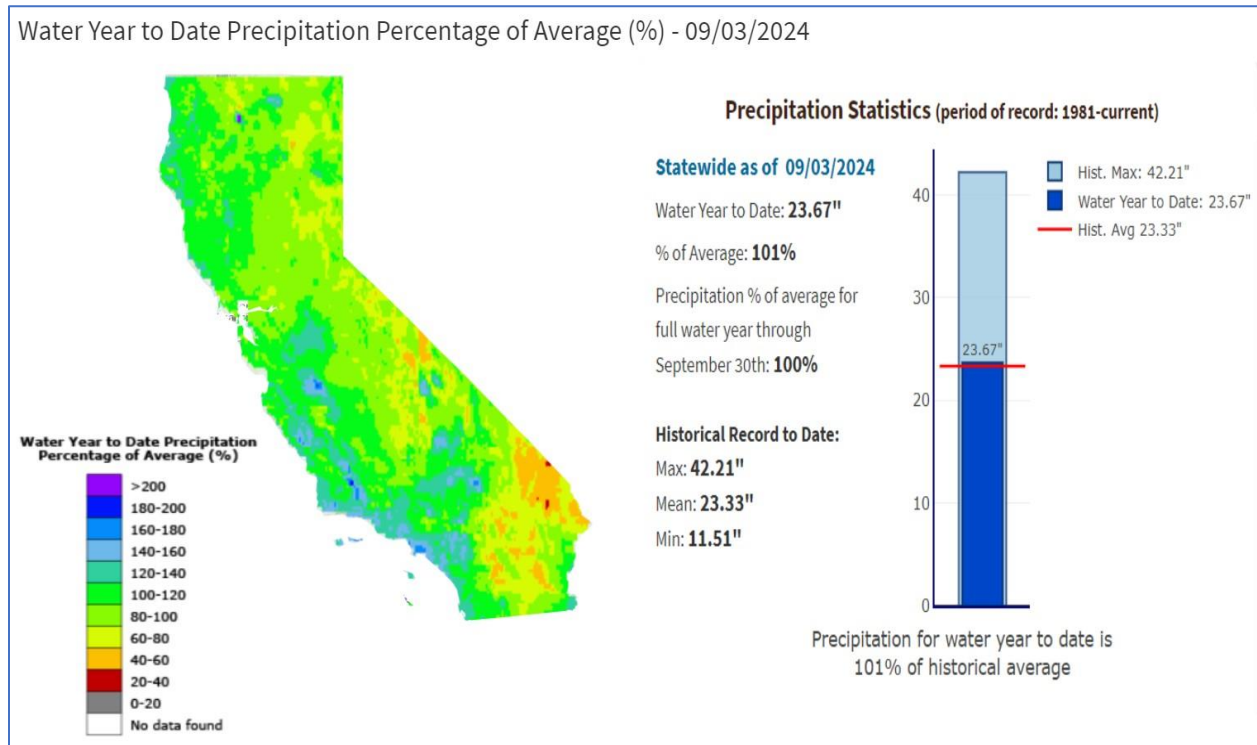


Figure 8. Statewide Precipitation as Percent of Average for the Water Year to Date (as of September 3, 2024)

Figure 9 shows that as of July 31, 2024, total precipitation in regions across the state ranged from 60% to 141% of these regions' average precipitation. The figure shows that the percents of average precipitation by hydrologic region are as follows: North Lahontan-NL (80%), San Francisco-SF (104%), Sacramento-SAC (88%), North Coast-NC (106%), San Joaquin-SJQ (92%), Central Coast-CC (124%), South Coast-SC (141%), South Lahontan-SL (109%), Tulare-TL (85%), and Colorado River-CR (60%) (DWR 2024a).

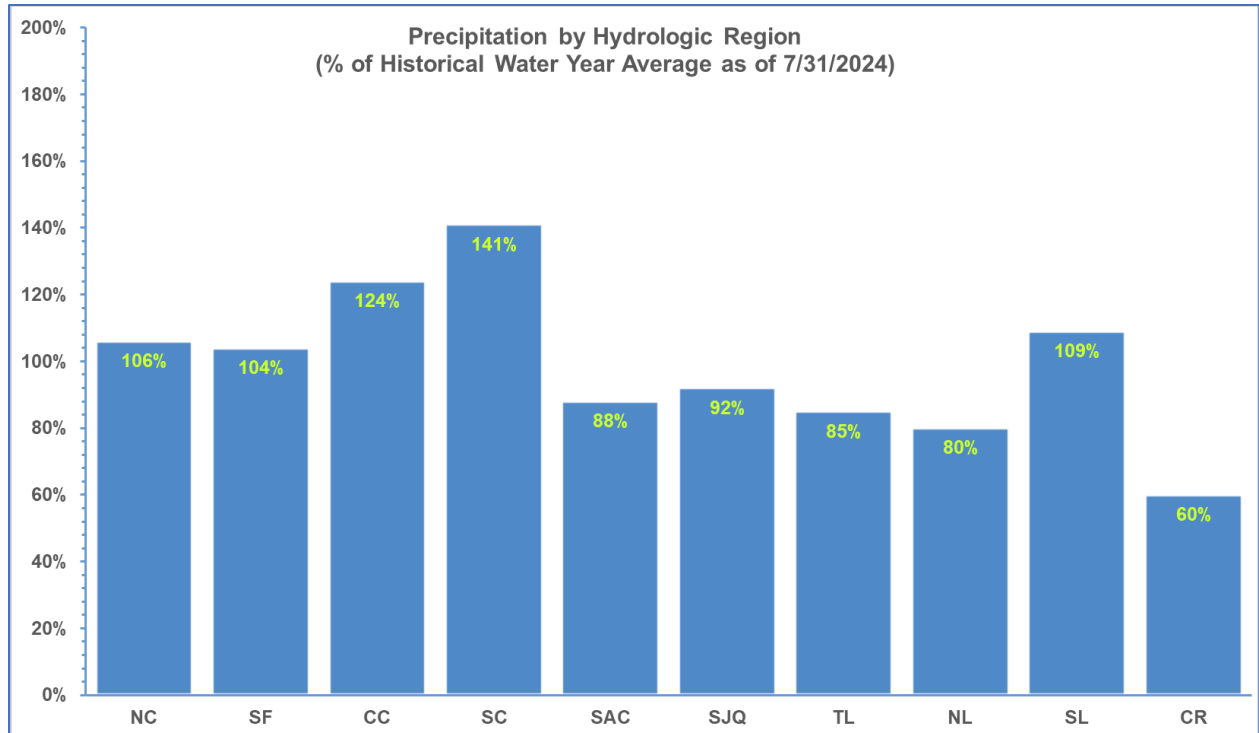


Figure 9. Precipitation by Hydrologic Region as Percent of Historical Average for the Water Year as of July 31, 2024

Figure 10 shows that average levels of snow were recorded this year (DWR 2024b). The peak of the statewide snowpack as measured by the automated sensors occurring around April 8 with 29.1 inches of snow water equivalent, which is about 116% of normal to date.

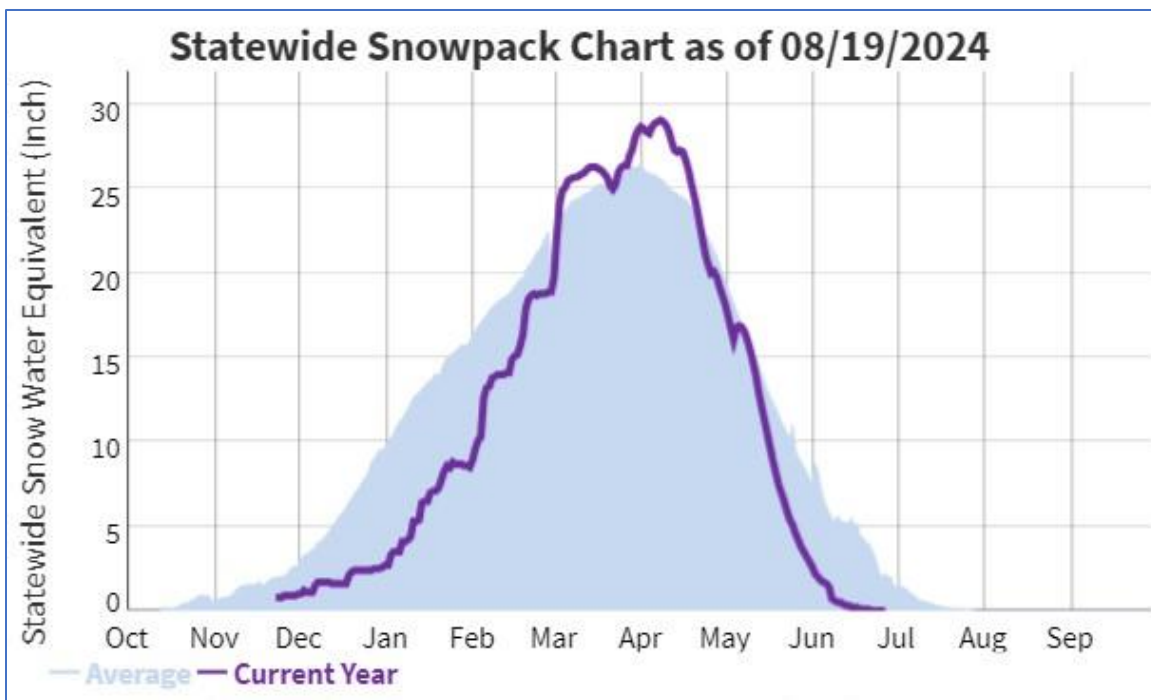


Figure 10. Statewide Snowpack Chart

Figure 11 shows that statewide reservoir storage at the beginning of September 2024 was 114% of historical average and that most of California's major reservoirs were above 100% of historical average (DWR 2024a).

Streamflow for about 49% of locations across California was at a normal flow rate for the end of June according to United States Geologic Survey (USGS) stream gage locations. About 36% of streamflow locations recorded flow rates greater than average for this time of year, while about 15% of streamflow locations recorded flow rates below normal for this time of the year. Scattered showers and thunderstorms (around July 14 and July 25) caused minor rises in flow rates for select rivers in Central and Southern Sierra Nevada. Otherwise, flow for major rivers continued to decline towards base flow, what is typically observed during summer (DWR 2024a).

While the state's surface water reservoirs were replenished from the storms and runoff in the previous wet year, groundwater basins are much slower to respond and are still recovering from past decades of drought and significant pumping. In 2024, groundwater levels, especially in shallow aquifers, continue to show improvement this year. As of September 1, 2024, measured groundwater levels are below normal level in 29% of monitoring wells, are at normal level in 35% of monitoring wells, and are above normal in 36% of monitoring wells across California².

² <https://sgma.water.ca.gov/CalGWLlive/>

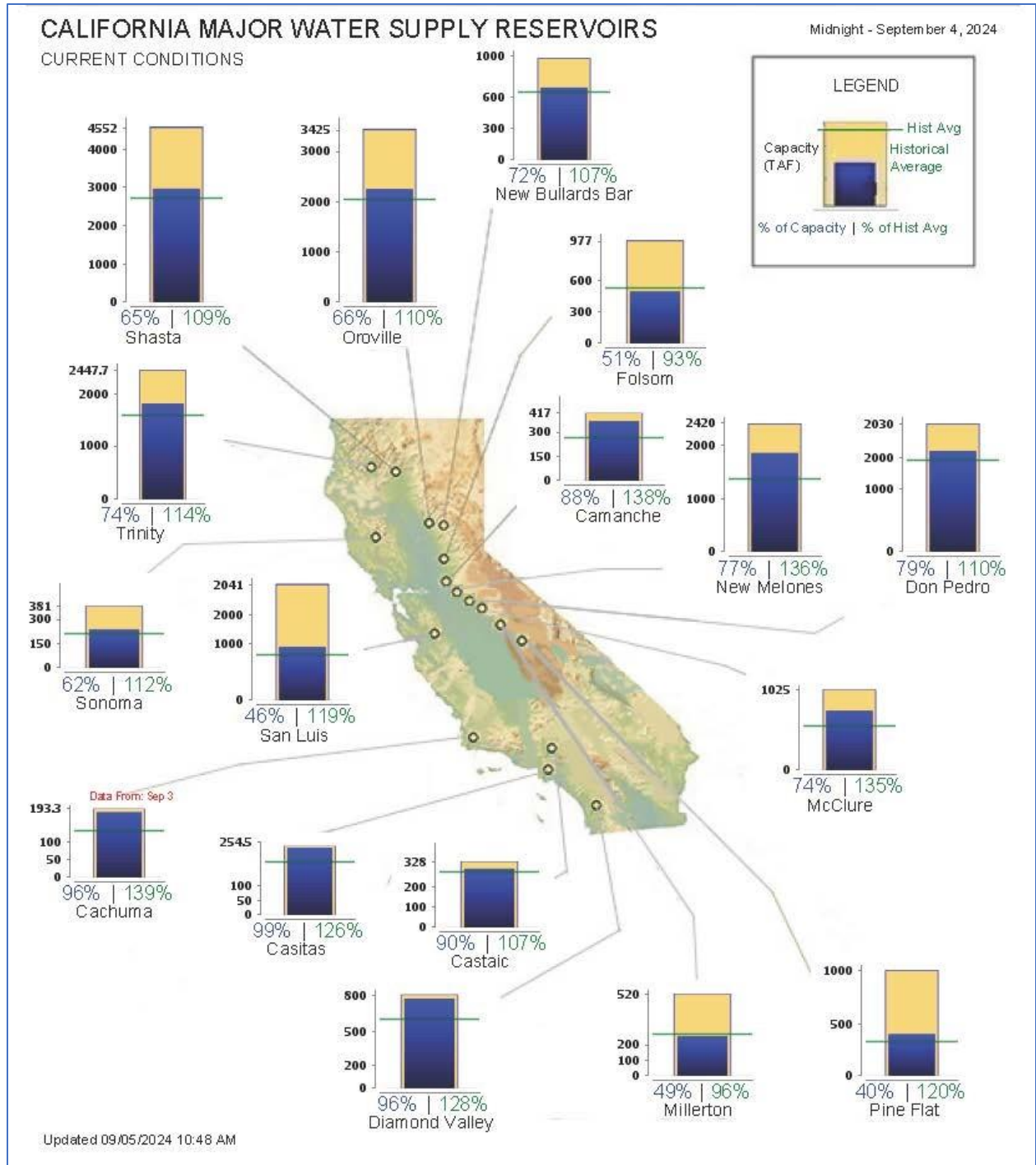


Figure 11. California Major Reservoir Conditions as of September 4, 2024³

³ <https://cdec.water.ca.gov/reportapp/javareports?name=rescond.pdf>

4.2 State Water Project Allocations

The State Water Project (SWP) is a multi-purpose water storage and delivery system that helps to manage California's water supply and provides hydroelectric power for the State's power grid. While the SWP was being constructed in the 1960s, public agencies and local water districts signed long-term water supply contracts with DWR. Today, the 29 public agencies and local water districts are collectively known as the SWP long-term water contractors or simply, SWP water contractors. The water supply contracts set forth the maximum amount of SWP water a contractor may request annually. DWR makes final SWP allocations that are consistent with long-term water supply contracts, legal requirements, and public policy. Additionally, DWR considers several factors including SWP water contractors' current year demands, existing storage in SWP conservation reservoirs, estimates of future runoff under very dry conditions, water rights obligations under the State Water Board's authority, and SWP operational and regulatory constraints such as those required by the federal Endangered Species Act and California Endangered Species Act.

On April 23, 2024, DWR announced a 40 percent allocation⁴ of requested supplies from the SWP, which delivers water to the 29 SWP water contractors that serve 27 million Californians and 750,000 acres of farmland (DWR 2024c).

4.3 Federal Water Allocations

The Central Valley Project (CVP) is a federal power and water project in California managed by USBR. It provides water for agricultural irrigation and municipal uses to most of California's Central Valley.

On June 25, 2024⁵, USBR announced a 50 percent allocation for south-of-Delta contractors. All north-of-Delta CVP contractors were allocated 100% of their supplies. On April 18, USBR announced a 100 percent allocation for the Friant Division Class 1 and a 5 percent allocation for Class 2 (USBR 2024).

The USBR also manages the Colorado River, which serves seven western U.S. states, two Mexican states, and Native American Tribal nations with water supply, hydropower, recreation, fish and wildlife habitat, and other benefits. The state of California's normal allocation of Colorado River water amounts to 4.4 MAF.

⁴ <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/State-Water-Project/Management/SWP-Water-Contractors/Files/24-04-2024-allocation-increase--40-percent-042304.pdf>

⁵ <https://www.usbr.gov/newsroom/news-release/4886>

On March 6, 2024⁶, the Lower Basin States in the Colorado River Basin jointly submitted to USBR a proposed alternative for long-term Colorado River operations that would help ensure the river system’s health and sustainability after 2026, when the historic agreement signed in 2023 is due to expire. In May of 2023, California, Nevada and Arizona reached an agreement they would cut together their water use by at least 3 million acre-feet through the end of 2026 in exchange for compensation for farmers and other water users.

4.4 Regional Summary of Urban Water Suppliers’ Shortage Projections

Despite the hydrologic information on the regional and statewide water supply conditions (presented above), supply availability to individual water suppliers is more complicated. Many urban water suppliers rely and depend on, in addition to local supplies, purchases, allocations, and transfers of imported supplies from other regions.

Regional summaries of water shortage conditions are presented below. Table 3 and Figure 12 show suppliers’ shortage status by hydrologic region based on information from the suppliers’ Annual Shortage Reports. Note that “shortage” in this context is based on unconstrained demand as the baseline.

Table 3. Regional Distribution of Urban Water Suppliers by Projected Shortage
(As of September 25, 2024)

Hydrologic Region (Total # of Suppliers)	No Shortage	Shortage Fully Addressed by Actions	Shortage Not Fully Addressed by Actions	Did Not Report
1. Central Coast (34)	33	1	0	0
2. Colorado River (16)	16	0	0	0
3. North Coast (18)	17	1	0	0
4. North Lahontan (9)	9	0	0	0
5. Sacramento River (43)	43	0	0	0
6. San Francisco Bay (50)	49	1	0	0
7. San Joaquin River (34)	33	1	0	0
8. South Coast (188)	182	6	0	0
9. South Lahontan (20)	19	1	0	0
10. Tulare Lake (33)	30	3	0	0
Statewide (445)	431	14	0	0

⁶ <https://crb.ca.gov/2024/03/arizona-california-nevada-propose-new-approach-for-post-2026-colorado-river-operations/>

Figure 12 shows the percentages of urban suppliers by hydrologic region in each shortage category. In the following three hydrologic regions: North Lahontan, Sacramento River, and Colorado River, suppliers reported sufficient water supplies and projected no shortages in the coming year. In the remaining seven hydrologic regions, some suppliers projected shortages as follows: six suppliers project Level 1, or less than 10% shortage, and eight suppliers project Level 2, or less than 20% shortage. However, those suppliers showed that they could fully address the shortages by implementing water shortage response actions.

This regional summary pertaining to urban water suppliers' projected shortage statistics is based on reported data in their Annual Shortage Reports.

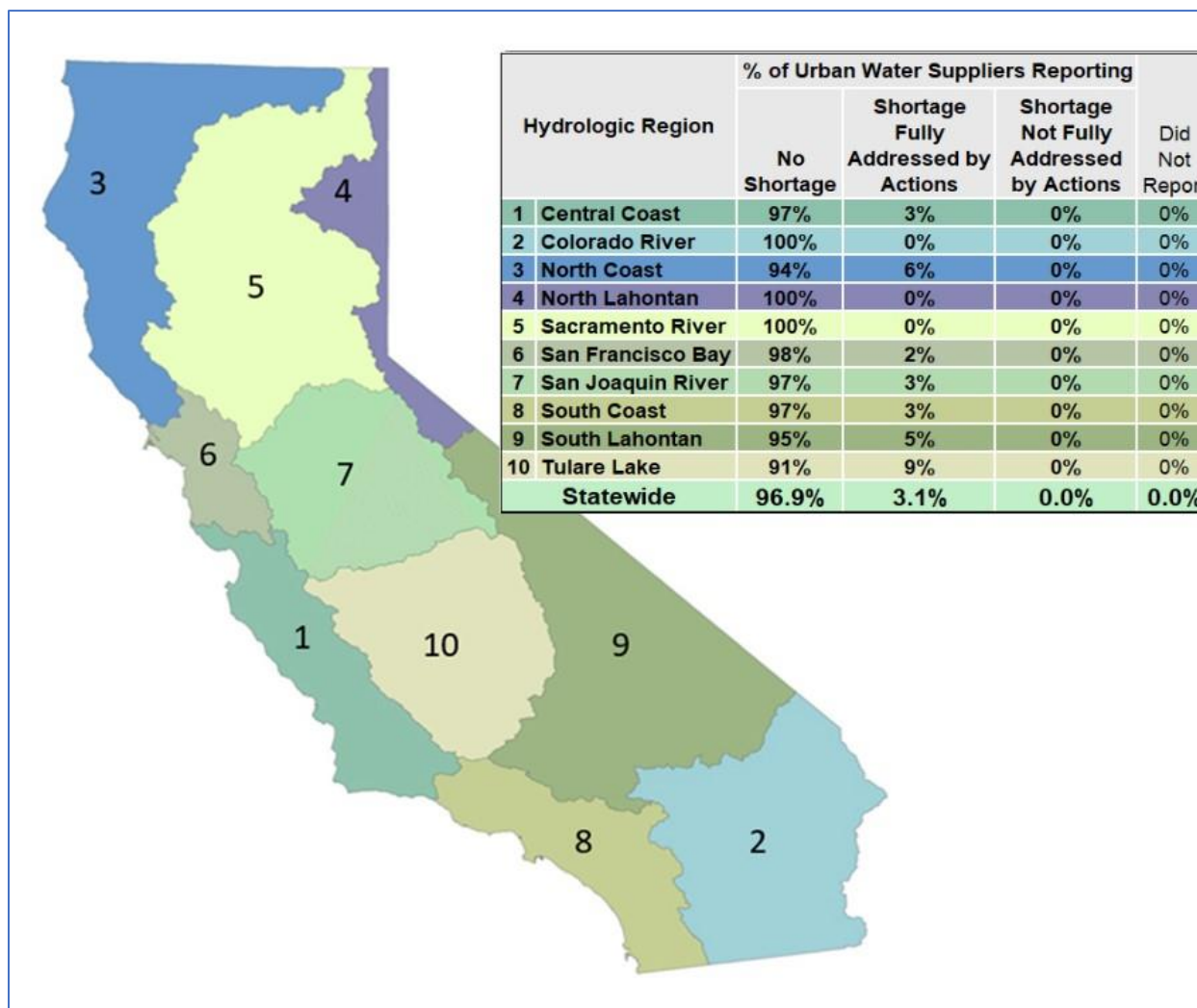


Figure 12. Urban Water Suppliers' Projected Shortage Status by Hydrologic Region (as of September 25, 2024)

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5.0 Findings Summary

California urban water suppliers continue to maintain preparedness and contingency planning for potential local water shortages. Urban water suppliers have conducted analysis and evaluated whether, or not, they will need to take water shortage response actions in the next 12 months to balance their supplies and demands if the next year is dry.

The Annual Shortage Report is an important tool for successful and effective local water shortage contingency planning to ensure water supply reliability and drought resiliency. It is worth noting that suppliers' assessments are projections that are based on locally defined assumptions. There is an inherent variability in the way suppliers do their assessments because each urban water supplier uses their own discretion on the following topics: determination of unconstrained demand, selection of dry year and calculations of its impact on supplies and demands, selection of water shortage response actions, calculation of benefits from water shortage response actions, and selection of time-step used in the assessment. However, even though these Annual Assessments are based on assumptions, they serve the important purpose of enabling suppliers to be prepared to minimize the impact of any potential shortages in the event of a dry year or other conditions.

During this year, suppliers' reports reflect the average water supply conditions statewide, and this is shown in the high number of suppliers that have assessed they will have adequate supplies and no potential shortages. The few suppliers projecting some shortages demonstrated that they would be able to resolve the shortages with planned actions.

For the 2024 reporting, all 445 urban water suppliers have successfully conducted their supply and demand assessments and complied with the requirement.

Based on the completed Annual Shortage Reports, DWR classified the urban water suppliers in the following water shortage status categories:

- No projected shortage: 97% of urban water suppliers (431 out of 445) who submitted reports have assessed that they will have ample supplies to meet projected demand in the coming year, even if it is dry.
- Fully addressed shortage: 3% of urban water suppliers (14 out of 445) who projected some level of shortage identified locally appropriate water shortage response actions to address and mitigate the potential shortage.
- Not fully addressed shortage: 0% of the urban water suppliers (0 out of 445) that submitted reports still show remaining projected shortages.

- Unknown shortage status – unsubmitted reports: 0% as all urban water suppliers (445 out of 445) have submitted their reports.

In addition, urban water suppliers reported on planned actions based on the projected shortage levels as a result of their Annual Assessments. A tally of the water shortage response actions currently implemented and planned to be implemented shows that urban water suppliers more frequently selected fixing customer water leaks as well as implementing outdoor and CII water use restrictions.

As a result of improved statewide water supply conditions, urban water suppliers have predominantly assessed that they will have adequate supplies to meet demand in the coming year. About 3% of suppliers projected that they may need to implement some shortage response actions (Level 1 actions corresponding to less than 10% shortage, or Level 2 actions corresponding to less than 20% shortage) in the event of a dry year.

The Annual Shortage Reports inform the State about local water supply conditions. More importantly, the Annual Assessments and the resulting Annual Shortage Reports help urban water suppliers to proactively prepare for potential water shortages in the next year. However, to effectively and efficiently implement appropriate water shortage response actions based on actual conditions, urban water suppliers should perform ongoing re-assessments of their water supply and demand conditions throughout the year. To be proactive, water supply and demand assessments may need to be revisited more than once per year. This type of continuous effort will help urban water suppliers to ensure water supply reliability for their customers.

6.0 References and Useful Links

6.1 References

DWR (California Department of Water Resources). 2024a. “California Data Exchange Center.” CDEC. <https://cdec.water.ca.gov/>.

_____. 2024b. “Track California Water Conditions.” California Water Watch. <https://cww.water.ca.gov/>. September 5.

_____. 2024c. Notice to State Water Project Contractors. April 23, 2024. <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/State-Water-Project/Management/SWP-Water-Contractors/Files/24-04-2024-allocation-increase--40-percent-042304.pdf>. April 24.

NDMC (National Drought Mitigation Center). 2024. “U.S. Drought Monitor, California, August 20, 2024.” U.S. Drought Monitor. <https://droughtmonitor.unl.edu/Maps/MapArchive.aspx>. August 20.

USBR (United States Bureau of Reclamation). 2024. “Reclamation again increases 2024 Central Valley Project water supply allocation.” News Release. <https://www.usbr.gov/newsroom/news-release/4886>. June 25.

6.2 Useful Links

DWR’s Annual Water Supply and Demand Assessment Guidance (Guidance): https://wuedata.water.ca.gov/public/public_resources/3517484366/AWSDA-Final-Guidance-4-2022.pdf.

DWR’s 2023 Annual Water Supply and Demand Assessment Summary Report: <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Water-Use-And-Efficiency/Files/2023-Summary-Report.pdf>.

DWR’s 2022 Annual Water Supply and Demand Assessment Summary Report: https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Water-Use-And-Efficiency/Urban-Water-Use-Efficiency/Annual-Water-Supply-and-Demand-Assessment/FINAL-DWR-2022-AWSDA-Report-to-SWB_11-22-22.pdf.

DWR’s Annual Water Supply and Demand Assessment webpage: <https://water.ca.gov/Programs/Water-Use-And-Efficiency/Water-Supply-and-Demand-Assessment>.

DWR’s California Data Exchange Center (CDEC) webpage: <https://cdec.water.ca.gov/>.

DWR’s California Water Watch website: <https://cww.water.ca.gov/>.

DWR's State Water Project (SWP) webpage: <https://water.ca.gov/Programs/State-Water-Project>.

DWR's California Groundwater Live webpage: <https://sgma.water.ca.gov/CalGWLIVE/>.

DWR's WUEdata Portal: <https://wuedata.water.ca.gov>.

DWR's Urban Water Management Plan Guidebook 2020: <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/Water-Use-And-Efficiency/Urban-Water-Use-Efficiency/Urban-Water-Management-Plans/Final-2020-UWMP-Guidebook/UWMP-Guidebook-2020---Final-032921.pdf>.

USBR's Central Valley Project (CVP) webpage: <https://www.usbr.gov/mp/cvp/about-cvp.html>.

Appendix A - Summary of Urban Water Suppliers’ Reported Shortage Assessments

Table A-1 Urban Water Suppliers Anticipating No Shortage

(Shown is the projected annual % surplus before actions. Although projecting an annual aggregate surplus, some suppliers may still have shortages when assessed on a monthly timescale. If so, they may be taking some actions during certain periods of the year to balance their supplies and demands)

Urban Water Suppliers Projecting Annual Surplus	%
Adelanto City of	1.4
Alameda County Flood Control District Zone 7	0.0
Alco Water Service	0.0
Alhambra City of	13.5
Amador Water Agency	182.2
American Canyon City of	65.3
Anaheim City of	0.0
Anderson City of	20.2
Antelope Valley - East Kern Water Agency	2.0
Antioch City of	5.7
Apple Valley Ranchos Water Company	0.0
Arcadia City of	14.2
Arcata City of	85.0
Arroyo Grande City of	39.7
Atascadero Mutual Water Company	59.7
Atwater City of	0.0
Azusa Light and Water	11.5
Bakersfield City of (Wholesale)	0.0
Bakman Water Company	115.8
Banning City of	20.9
Beaumont - Cherry Valley Water District	58.5
Bella Vista Water District	190.5
Bellflower - Somerset Mutual Water Company	30.1
Benicia City of	0.0
Beverly Hills City of	0.0
Big Bear Community Services District	20.7
Big Bear Lake City of	63.7
Blythe City of	127.3
Brawley City of	138.5
Brea City of	0.0
Brentwood City of	46.5
Buena Park City of	0.0

Urban Water Suppliers Projecting Annual Surplus	%
Burbank City of	0.0
Burlingame City of	0.0
Calaveras County Water District	0.0
Calexico City of	52.8
California American Water Company - Los Angeles Division	0.0
California American Water Company - Monterey District	34.3
California American Water Company - Sacramento District	183.9
California American Water Company - San Diego District	20.4
California American Water Company - Ventura District	0.0
California City	12.3
California Domestic Water Company	0.0
California Water Service Company Antelope Valley	0.0
California Water Service Company Bakersfield	0.0
California Water Service Company Bear Gulch	0.0
California Water Service Company Chico District	0.0
California Water Service Company Dixon, City of	0.0
California Water Service Company Dominguez	0.0
California Water Service Company East Los Angeles	0.0
California Water Service Company Hermosa/Redondo	0.0
California Water Service Company Kern River Valley	0.0
California Water Service Company King City	0.0
California Water Service Company Livermore	0.0
California Water Service Company Los Altos/Suburban	0.0
California Water Service Company Marysville	0.0
California Water Service Company Mid Peninsula	0.0

Urban Water Suppliers Projecting Annual Surplus	%
California Water Service Company Oroville	0.0
California Water Service Company Palos Verdes	0.0
California Water Service Company Redwood Valley	0.0
California Water Service Company Salinas District	0.0
California Water Service Company Selma	0.0
California Water Service Company South San Francisco	0.0
California Water Service Company Stockton	0.0
California Water Service Company Visalia	0.0
California Water Service Company Westlake	0.0
California Water Service Company Willows	0.0
Calleguas Municipal Water District	0.0
Camarillo City of	0.0
Cambria Community Service District	0.8
Camrosa Water District	0.9
Carlsbad Municipal Water District	0.0
Carmichael Water District	292.6
Carpinteria Valley Water District	20.9
Casitas Municipal Water District	3.3
Central Basin Municipal Water District	9.6
Central Coast Water Authority	0.0
Ceres City of	0.0
Cerritos City of	0.0
Chino City of	0.0
Chino Basin Desalter Authority	13.6
Chino Hills City of	28.1
Chowchilla, City of Water Department	294.3
Citrus Heights Water District	0.0
Clovis City of	60.4
Coachella City of	0.0
Coachella Valley Water District	0.0
Coalinga City of	95.2
Coastside County Water District	90.2
Colton City of	68.1
Compton City of	0.0
Contra Costa Water District	82.5
Corcoran City of	0.9
Corona City of	3.5

Urban Water Suppliers Projecting Annual Surplus	%
Covina City of	0.0
Covina Irrigating Company	0.0
Crescent City	0.0
Crescenta Valley Community Water District	9.6
Crestline Village Water District	14.8
Cucamonga Valley Water District	38.1
Daly City	0.0
Davis City of	111.2
Del Oro Water Company	58.2
Delano City of	0.0
Desert Water Agency	0.0
Diablo Water District	27.4
Dinuba City of	0.9
Discovery Bay Community Services District	41.3
Dixon City of	0.0
Downey City of	0.0
Dublin San Ramon Services District	0.0
East Bay Municipal Utility District	0.0
East Niles Community Services District	0.0
East Orange County Water District	0.0
East Palo Alto City of	0.0
East Valley Water District	95.2
Eastern Municipal Water District	0.0
El Centro City of	0.0
El Dorado Irrigation District	68.1
El Monte City of	10.0
El Segundo City of	9.4
El Toro Water District	4.5
Elk Grove Water District	97.7
Elsinore Valley Municipal Water District	17.1
Escondido City of	4.7
Estero Municipal Improvement District	0.0
Eureka City of	112.7
Exeter City of	122.5
Fair Oaks Water District	191.8
Fairfield City of	16.2
Fallbrook Public Utility District	0.1
Fillmore City of	11.6
Folsom City of	82.9
Foothill Municipal Water District	0.0
Fortuna City of	0.0

Urban Water Suppliers Projecting Annual Surplus	%
Fountain Valley City of	0.0
Fresno City of	30.5
Fullerton City of	0.0
Galt City of	0.0
Garden Grove City of	0.0
Georgetown Divide Public Utility District	180.8
Gilroy City of	0.0
Glendale City of	0.0
Glendora City of	0.0
Golden State Water Company - Artesia	0.0
Golden State Water Company - Barstow	0.0
Golden State Water Company - Bay Point	0.0
Golden State Water Company - Bell-Bell Gardens	0.0
Golden State Water Company - Claremont	0.0
Golden State Water Company - Cordova	0.0
Golden State Water Company - Culver City	0.0
Golden State Water Company - Florence Graham	0.0
Golden State Water Company - Norwalk	0.0
Golden State Water Company - Orcutt	0.0
Golden State Water Company - Placentia	0.0
Golden State Water Company - San Dimas	0.0
Golden State Water Company - Simi Valley	0.0
Golden State Water Company - South Arcadia	0.0
Golden State Water Company - South San Gabriel	0.0
Golden State Water Company - Southwest	0.0
Golden State Water Company - West Orange	0.0
Goleta Water District	4.1
Great Oaks Water Company Incorporated	218.1
Greenfield City of	8.3
Greenfield County Water District	264.9
Groveland Community Services District	25.3
Grover Beach City of	61.2
Hawthorne City of	0.0
Hayward City of	0.0
Healdsburg City of	164.4
Helix Water District	0.0

Urban Water Suppliers Projecting Annual Surplus	%
Hemet City of	0.0
Hesperia Water District	0.0
Hi Desert Water District	0.0
Hillsborough Town of	0.0
Hollister City of	0.0
Humboldt Bay Municipal Water District	873.4
Humboldt Community Services District	202.0
Huntington Beach City of	0.0
Huntington Park City of	8.3
Imperial City of	63.0
Indian Wells Valley Water District	150.5
Indio City of	0.0
Inglewood City of	2.2
Inland Empire Utilities Agency	20.5
Irvine Ranch Water District	44.7
Joshua Basin Water District	12.7
Jurupa Community Service District	10.3
Kerman City of	18.0
Kern County Water Agency Improvement District No 4	0.0
Kingsburg City of	13.7
La Habra City of	0.0
La Palma City of	0.0
La Verne City of	58.4
Laguna Beach County Water District	0.0
Lake Hemet Municipal Water District	10.1
Lakeside Water District	5.2
Lakewood City of	4.0
Lamont Public Utility District	0.0
Las Virgenes Municipal Water District	0.0
Lathrop City of	0.0
Lemoore City of	0.7
Liberty Utilities (Park Water) Corp	0.0
Lincoln City of	0.0
Lincoln Avenue Water Company	6.9
Linda County Water District	358.9
Lindsay City of	17.6
Livermore City of	0.0
Livingston City of	12.5
Lodi City of	51.2
Loma Linda City of	229.2
Lomita City of	54.1

Urban Water Suppliers Projecting Annual Surplus	%
Lompoc City of	0.0
Long Beach City of	0.0
Los Angeles County Waterworks District 29 - Malibu & Marina Del Rey	0.0
Los Angeles County Waterworks District 40 - Antelope Valley	0.0
Los Banos City of	23.6
Lynwood City of	5.0
Madera City of	22.2
Mammoth Community Water District	0.2
Manhattan Beach City of	0.0
Manteca City of	103.7
Marin Municipal Water District	0.0
Marina Coast Water District	172.9
Martinez City of	0.0
McKinleyville Community Services District	70.2
Menlo Park City of	0.0
Merced City of	0.0
Mesa Water District	76.3
Mid-Peninsula Water District	0.0
Millbrae City of	0.0
Milpitas City of	0.0
Mission Springs Water District	0.0
Modesto City of	13.3
Modesto Irrigation District	0.0
Monrovia City of	0.0
Monte Vista Water District	0.0
Montebello Land and Water Company	16.4
Montecito Water District	0.0
Monterey Park City of	0.0
Morro Bay City of	36.7
Moulton Niguel Water District	0.0
Mountain View City of	0.0
Municipal Water District Of Orange County (MWDOC)	0.0
Myoma Dunes Mutual Water Company	0.0
Napa City of	30.9
Nevada Irrigation District	10.0
Newman City of	19.6
Newport Beach City of	0.0
Nipomo Community Service District	0.0
Norco City of	116.1
North Coast County Water District	0.0

Urban Water Suppliers Projecting Annual Surplus	%
North Marin Water District	0.0
North Of The River Municipal Water District	42.5
North Tahoe Public Utilities District	85.4
Norwalk City of	51.2
Oakdale City of	14.6
Oceanside City of	0.0
Oildale Mutual Water Company	69.6
Olivehurst Public Utilities District	0.0
Olivenhain Municipal Water District	0.0
Ontario City of	0.0
Orange City of	0.0
Orangevale Water Company	113.1
Otay Water District	0.0
Oxnard City of	0.0
Padre Dam Municipal Water District	0.0
Palmdale Water District	4.6
Palo Alto City of	0.0
Paradise Irrigation District	104.4
Paramount City of	0.1
Pasadena City of	37.3
Paso Robles City of	113.9
Patterson City of	9.0
Petaluma City of	0.0
Phelan Pinon Hills Community Services District	0.3
Pico Rivera City of	5.3
Pico Water District	22.9
Pismo Beach City of	0.0
Pittsburg City of	7.1
Placer County Water Agency	51.4
Pleasanton City of	0.0
Pomona City of	0.0
Port Hueneme City of	108.0
Port Hueneme Water Agency	12.4
Porterville City of	7.2
Poway City of	0.0
Quartz Hill Water District	50.7
Rainbow Municipal Water District	0.0
Ramona Municipal Water District	2.7
Rancho California Water District	3.6
Red Bluff City of	0.0
Redding City of	44.5

Urban Water Suppliers Projecting Annual Surplus	%
Redlands City of	4.1
Redwood City	0.0
Reedley City of	0.0
Rialto City of	37.5
Rincon Del Diablo Municipal Water District	0.0
Rio Linda - Elverta Community Water District	315.6
Rio Vista City of	0.0
Ripon City of	209.7
Riverbank City of	130.1
Riverside City of	45.5
Riverside Highland Water Company	60.3
Rohnert Park City of	10.0
Rosamond Community Service District	0.0
Roseville City of	0.0
Rowland Water District	0.0
Rubidoux Community Service District	12.6
Rubio Canyon Land and Water Association	0.0
Running Springs Water District	8.0
Sacramento City of	149.6
Sacramento County Water Agency	0.0
Sacramento Suburban Water District	8.9
San Antonio Water Company	75.0
San Benito County Water District	0.0
San Bernardino City of	64.6
San Bernardino County Service Area 64 Spring Valley Lake	0.0
San Bernardino County Service Area 70 J Oak Hills	0.0
San Bernardino Valley Municipal Water District	22.7
San Bruno City of	0.0
San Buenaventura City of (Ventura)	24.9
San Clemente City of	0.0
San Diego City of	0.0
San Diego County Water Authority	0.0
San Dieguito Water District	0.0
San Fernando City of	1.6
San Francisco Public Utilities Commission	0.0
San Gabriel County Water District	0.0
San Gabriel Valley Municipal Water District	38.7
San Gabriel Valley Water Company	0.0

Urban Water Suppliers Projecting Annual Surplus	%
San Gabriel Valley Water Company Fontana Division	0.0
San Geronio Pass Water Agency	0.0
San Jacinto City of	0.0
San Jose City of	0.0
San Jose Water Company	0.1
San Juan Capistrano City of	12.1
San Juan Water District (Retail)	100.0
San Juan Water District (Wholesale)	244.2
San Lorenzo Valley Water District	0.0
San Luis Obispo City of	1.1
San Luis Obispo County Flood Control and Water Conservation	52.8
Sanger City of	14.8
Santa Ana City of	0.0
Santa Barbara City of	0.0
Santa Clara City of	11.2
Santa Clara Valley Water District	0.0
Santa Cruz City of	0.0
Santa Fe Springs City of	0.0
Santa Margarita Water District	0.0
Santa Maria City of	66.0
Santa Monica City of	9.0
Santa Paula City of	0.1
Santa Rosa City of	0.0
Scotts Valley Water District	27.9
Seal Beach City of	0.0
Shafter City of	0.0
Shasta Lake City of	31.4
Sierra Madre City of	0.0
Signal Hill City of	154.0
Soledad City of	7.2
Sonoma City of	0.0
Sonoma County Water Agency	0.0
Soquel Creek Water District	0.0
South Coast Water District	0.0
South Feather Water and Power	143.8
South Gate City of	0.0
South Mesa Water Company	15.0
South Pasadena City of	24.6
South San Joaquin Irrigation District	0.0
South Tahoe Public Utility District	485.5
Stockton City of	48.7

Urban Water Suppliers Projecting Annual Surplus	%
Stockton East Water District	93.5
Suburban Water Systems - San Jose Hills	40.3
Suburban Water Systems - Whittier/La Mirada	33.7
Suisun - Solano Water Authority	0.0
Sunny Slope Water Company	0.0
Sunnyslope County Water District	0.0
Sunnyvale City of	0.0
Susanville City of	0.0
Sweetwater Authority	0.0
Sweetwater Springs Water District	36.4
Tahoe City Public Utilities District	58.5
Tehachapi City of	45.2
Temescal Valley Water District	197.3
Thermalito Water and Sewer District	370.4
Thousand Oaks City of	0.0
Three Valleys Municipal Water District	0.0
Torrance City of	139.8
Trabuco Canyon Water District	0.0
Tracy City of	0.0
Triunfo Sanitation District/Oak Park Water Service	0.0
Truckee - Donner Public Utilities District	236.3
Tulare City of	0.0
Tuolumne Utilities District	14.1
Turlock City of	0.0
Tustin City of	0.0
Twentynine Palms Water District	12.4
Ukiah City of	0.0
United Water Conservation District	0.0
Upland City of	3.0
Upper San Gabriel Valley Municipal Water	0.0

Urban Water Suppliers Projecting Annual Surplus	%
Vacaville City of	76.9
Vallecitos Water District	7.8
Vallejo City of	0.0
Valley Center Municipal Water District	0.0
Valley County Water District	99.4
Valley of the Moon Water District	0.0
Valley Water Company	0.0
Vaughn Water Company	231.0
Ventura County Waterworks District No 01 - Moorpark	0.0
Ventura County Waterworks District No 08 - Simi Valley	0.0
Vernon City of	90.1
Victorville Water District	0.0
Vista Irrigation District	0.0
Walnut Valley Water District	99.8
Wasco City of	0.0
Water Facilities Authority	0.0
Watsonville City of	63.5
West Kern Water District	7.2
West Sacramento City of	0.0
West Valley Water District	98.2
Westborough Water District	0.0
Western Municipal Water District of Riverside	94.0
Westminster City of	0.0
Whittier City of	21.2
Windsor Town of	0.0
Woodland City of	57.4
Woodland-Davis Clean Water Agency	142.6
Yorba Linda Water District	0.0
Yreka City of	549.0
Yuba City	0.0
Yucaipa Valley Water District	102.4

Table A-2. Urban Water Suppliers Anticipating Shortage that can be Fully Addressed by Implementing Actions
(% Annual Shortage before actions)

Urban Water Suppliers Fully Addressing Projected Shortage*	% Before	Urban Water Suppliers Fully Addressing Projected Shortage*	% Before
Alameda County Water District	-11.5	Metropolitan Water District of Southern California	-18.9
Arvin Community Service District	-10.0	Morgan Hill City Of	-15.0
Bakersfield City Of (Retail)	-10.0	Mountain House Community Services District	-0.4
Cloverdale City of	-1.2	Orchard Dale Water District	-14.7
Hanford City Of	-16.3	Santa Clarita Valley Water Agency	-14.7
Lake Arrowhead Community Services District	-3.9	Santa Fe Irrigation District	-11.6
Los Angeles City Department of Water and Power	-19.4	West Basin Municipal Water District	-9.1

(*) Several wholesalers' reports projecting some shortages indicated that those shortages would be addressed in one of the following ways: (1) Their retail member agencies have no projected shortages because they have additional water supply sources; (2) Their retail member agencies have adequate water shortage response actions which address their projected shortages.

Table A-3. Urban Water Suppliers Anticipating Shortage that may not be Fully Addressed by Implementing Actions

Urban Water Suppliers with Some Remaining Shortage	Anticipated Annual Supply Shortage Before Actions (%)	Anticipated Annual Supply Shortage After Actions (%)
— None —		

Table A-4. Urban Water Suppliers that did not Submit Water Shortage Assessment Reports
(As of September 25, 2024)

Urban Water Suppliers that did not Submit Reports
— None —

Table A-5. Small Water Suppliers that Voluntarily Submitted Water Shortage Assessment Reports

Small Water Suppliers that Voluntarily Submitted Reports	Anticipated Annual Surplus / (Shortage) Before Actions (%)
Casitas Municipal Water District - Ojai	49.2
Mojave Water Agency	0.0

Appendix B - Annual Water Shortage Assessment Reporting Tables

Table B-1. Annual Assessment Information

Type of Supplier (REQUIRED TO CHECK ONE OR BOTH)	
Supplier is a wholesaler	<input type="checkbox"/>
Supplier is a retailer	<input type="checkbox"/>
Year Covered By This Shortage Report (REQUIRED)	
Start: July 1,	
End: June 30,	Two Separate Reports
Volume Unit for Reported Supply and Demand (must use same unit throughout)	Combined Report
Supplier's Annual Assessment Planning Cycle (REQUIRED)	
Start Month:	
End Month:	
Data Reporting Interval Used:	
Water Supplier's Contact Information (REQUIRED)	
Water Supplier Name:	Test Agency 5
Contact Name:	
Contact Title:	
Street Address:	
Zip Code:	XXXXX
Phone Number:	(XXX) XXX-XXXX
Email Address:	
Report Preparer's Contact Information (If different from above)	
Preparer's Organization Name:	
Preparer's Contact Name:	
Phone Number:	
Email Address:	
Supplier's Water Shortage Contingency Plan	
WSCP Title:	
WSCP Adoption Date:	
Other Annual Assessment Related Activities (optional)	
Activity	Timeline/Outcomes/Links/Notes
Annual Assessment/Shortage Report Title:	
Annual Assessment/Shortage Report Approval Date:	
Other Annual Assessment Related Activities:	

Table B-2. Water Demands

Use Type	Start Year: 2023	Volumetric Unit Used:	Projected Water Demands - Volume ²												Total by Water Demand Type
Drop down list May select each use multiple times. These are the only Use Types that will be recognized by the WUEdata online submittal tool. (Add additional rows as needed)	Additional Description (as needed)	Level of Treatment for Non-Potable Supplies Drop down list	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun ³	Total by Water Demand Type
			Demands Served by Potable Supplies												
All Demands															0
TOTAL BY MONTH (POTABLE)			0	0	0	0	0	0	0	0	0	0	0	0	0
Demands Served by Non-Potable Supplies															
Groundwater recharge															0
TOTAL BY MONTH (NON-POTABLE)			0	0	0	0	0	0	0	0	0	0	0	0	0
NOTES															
¹ Projections are based on best available data at time of submitting the report and actual demand volumes could be different due to many factors.															
² Units of measure (AF, CCF, MG) must remain consistent.															
³ When optional monthly volumes aren't provided, please enter yearly volumes in the June column (Jun ³).															

Table B-3. Water Supplies

Water Supply <small>Drop down list May select each use multiple times. These are the only Use Types that will be recognized by the WUEdata online submittal tool. (Add additional rows as needed)</small>	Start Year: 2023 Additional Detail on Water Supply	Volumetric Unit Used:												Total by Water Demand Type	Water Quality Drop Down List	Total Right or Safe Yield * (optional)		
		Projected Water Supplies - Volume ²																
		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun ³					
Potable Supplies																		
Purchased/Imported Water																0		
TOTAL BY MONTH (POTABLE)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
Non-Potable Supplies																		
Recycled Water																0		
TOTAL BY MONTH (NON-POTABLE)		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0
NOTES																		
¹ Projections are based on best available data at time of submitting the report and actual demand volumes could be different due to many factors. ² Units of measure (AF, CCF, MG) must remain consistent. ³ When optional monthly volumes aren't provided, please enter yearly volumes in the June column (Jun ³).																		

Table B-4. Water Shortage Assessment

Table 4(P): Potable Water Shortage Assessment ¹		Start Year: 2023					Volumetric Unit Used ² :								
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun ³	Total		
Potable Supplies															
Anticipated Unconstrained Demand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Anticipated Total Water Supply	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Surplus/Shortage w/o WSCP Action	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Surplus/Shortage w/o WSCP Action														0%	
State Standard Shortage Level	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Planned WSCP Actions															
Benefit from WSCP: Supply Augmentation														0	
Benefit from WSCP: Demand Reduction														0	
Revised Surplus/Shortage with WSCP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Revised Surplus/Shortage with WSCP															
Table 4(NP): Non-Potable Water Shortage Assessment¹															
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun ³	Total		
Non-Potable Supplies															
Anticipated Unconstrained Demand	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Anticipated Total Water Supply	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Surplus/Shortage w/o WSCP Action	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Surplus/Shortage w/o WSCP Action														0%	
Planned WSCP Actions															
Benefit from WSCP: Supply Augmentation														0	
Benefit from WSCP: Demand Reduction														0	
Revised Surplus/Shortage with WSCP	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
% Revised Surplus/Shortage with WSCP															
NOTES															
¹ Projections are based on best available data at time of submitting the report and actual demand volumes could be different due to many factors.															
² Units of measure (AF, CCF, MG) must remain consistent.															
³ When optional monthly volumes aren't provided, please enter yearly volumes in the June column (Jun ³).															

Table B-5. Planned Water Shortage Response Actions

Year Covered By This Shortage Report			July 1, 2023		to June 30, 2024	
Anticipated Shortage Level Drop Down List of State Standard Levels (1-6) and Level 0 (No Shortage)	ACTIONS: Demand Reduction, Supply Augmentation, and Other Actions. (Drop Down List) These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	Is Action Already Being Implemented? (Y/N)	How much is action going to reduce the shortage gap?		When is shortage response action anticipated to be implemented?	
			Enter Amount	(Drop Down List) Select % or Volume Unit	Start Month	End Month
Add additional rows as needed						
0 (No Shortage) ▾					January ▾	January ▾
Notes: (NOTES Section to be used only for clarifying details, and not for listing specific actions. Actions need to be entered into rows above.)						

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