

2023-2024 ANNUAL WATER SUPPLY AND DEMAND ASSESSMENT

Riverside Public Utilities

Board of Public Utilities

May 22, 2023

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BACKGROUND

1. The California Water Code Section 10632.1 requires an Annual Assessment and Annual Shortage Report to the California Department of Water Resources (DWR) by July 1 of each year.
2. The Board of Public Utilities approved, and the City Council adopted on May 23, 2022, and on June 14, 2022, respectively.
3. The assessment and report are based on the procedures and recommendations provided by the DWR.
4. Final guidance documents were published in April 2022.



BACKGROUND

The purpose of the Annual Assessment is to:

1. Evaluate Water Agencies on their water supply reliability for the current year and including one dry year.
2. Generate and submit an Annual Shortage Report on the Annual Assessment and results regarding their anticipated shortages to DWR by July 1 every year starting July 1, 2022.



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DISCUSSION

Riverside's Available Water Supply Projection in 2023-2024:

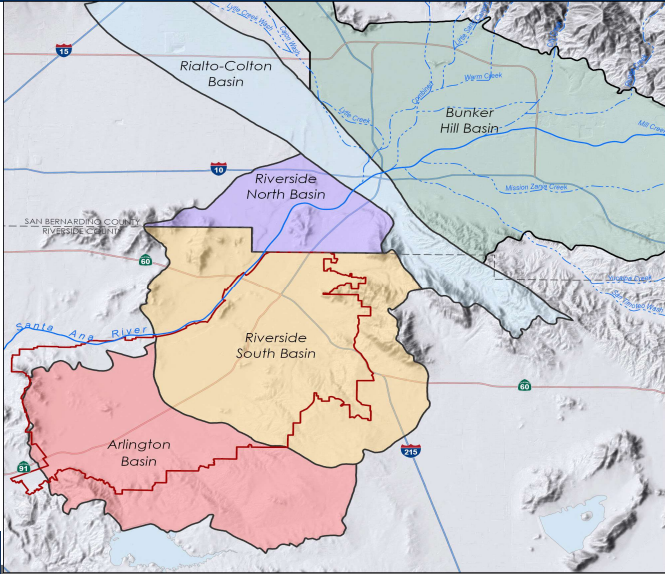
1. The Annual Assessment reflects the available water supply from groundwater extraction rights, as shown on the next slide.
2. Considers the available capacity from groundwater supply wells during high demand and conveyance capability.
3. An agreement with Western Municipal Water District (WMWD) provides access to 21,700 acre feet per year (AFY) of imported water.
4. Recycled water for non-potable uses meets the need of up to 800 AFY



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CURRENT WATER SUPPLIES



Extraction/Export Rights

- Bunker Hill
 - 55,263 AFY Export
- Colton
 - 2,728 AFY Export
- Riverside North
 - 10,902 AFY Export
- Riverside South
 - 16,880 AFY Extraction

85,773 AFY Total



Riverside's Water Supply Projections

23/24		
Water supply	Additional Detail on Water Supply	Reasonably Available Volume
Groundwater	Bunker Hill	55,263
Groundwater	Riverside North	10,902
Groundwater	Riverside South	16,880
Groundwater	Rialto- Colton	2,728
Recycledwater	RWQCP	800
Purchased or imported water	From WMWD	21,700
	Total:	108,273



ACTUAL CUSTOMER WATER USE

Units in Acre-Feet	2018	2019	2020	2021	2022
Potable and Non-Potable	80,816	73,127	81,197	81,045	80,489
Recycled Water	187	143	141	174	206
Total Water Use	81,003	73,270	81,338	81,219	80,695



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RIVERSIDE'S WATER DEMAND PROJECTIONS

Estimation of the total potable and non-potable monthly water demand projections from July 2023 to June 2024 :

1. By adding all the next year's projected water needs for all demand categories and a 15% reduction per RPU WSCP stage 2 as requested by DWR.
2. Considering the monthly projected weather and growth.

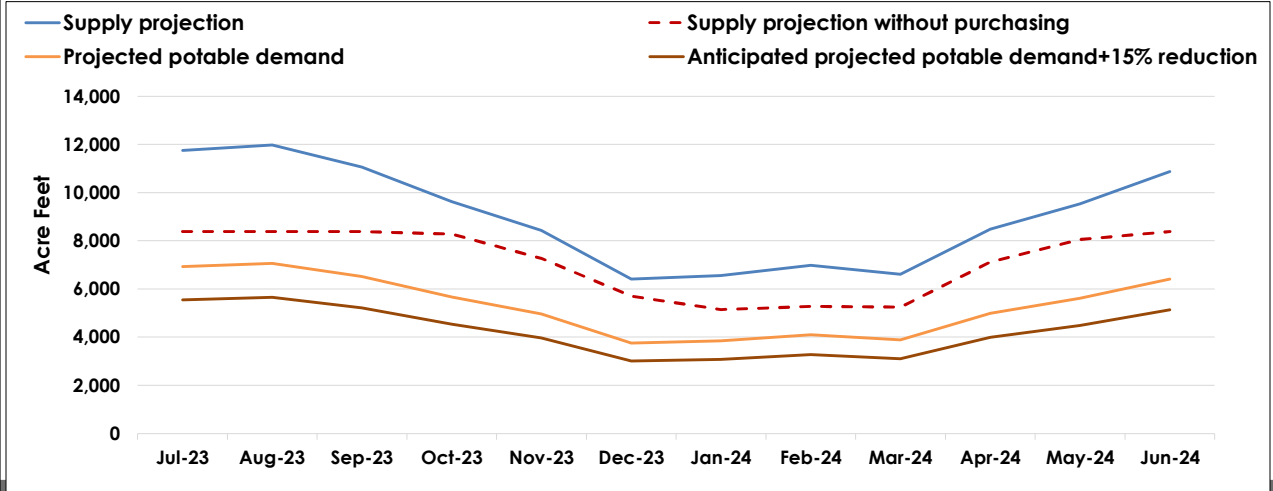


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PROJECTED WATER SUPPLY VS. WATER DEMAND

As of 2023, RPU can meet all current demands with local groundwater supplies and with available groundwater capacity during the high demand season.



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REQUIRED SUBMITTALS TO DWR FOR THE AWSDA

Status Completion of RPU's AWSDA Required Submittal

	The Annual Water Supply and Demand Assessment Report Topic	
Table 1	Annual Assessment Information	Completed
Table 2	Key Data - Demands, containing estimated unconstrained demand from July – June of next year	Completed
Table 3	Key Data - Supplies, containing estimated available supplies from July – June of next year	Completed
Table 4	Annual Water Shortage Assessment, showing a summary of monthly supply/demand balances as well as shortages and results of planned actions.	Completed
Table 5	Planned Water Shortage Response Actions, containing information on planned water shortage response actions (if any)	Completed
RPU Methodology	Optional attachments to include details on the implementation of the procedures that took place this year. Information may include descriptions of the steps followed, data sources considered, methodologies used, and the decision-making process	Completed

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STRATEGIC PLAN ALIGNMENT



Strategic Priority 4 - Environmental Stewardship

Goal 4.2 – Sustainably manage local water resources to maximize reliability and advance water reuse to ensure safe, reliable, and affordable water to our community.

Cross-Cutting Threads



Community Trust



Fiscal Responsibility



Sustainability &
Resiliency



Equity



Innovation



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RECOMMENDATIONS

That the Board of Public Utilities:

1. Approve the Riverside 2023-2024 Annual Water Supply and Demand Assessment; and
2. Recommend that the City Council adopt the Riverside 2023-2024 Annual water Supply and Demand Assessment.



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