



Sonoma Water

Clean. Reliable. Essential. Every Day.

2025 Urban Water Management Plan

Public Hearing

May 12, 2026

    sonomawater.org

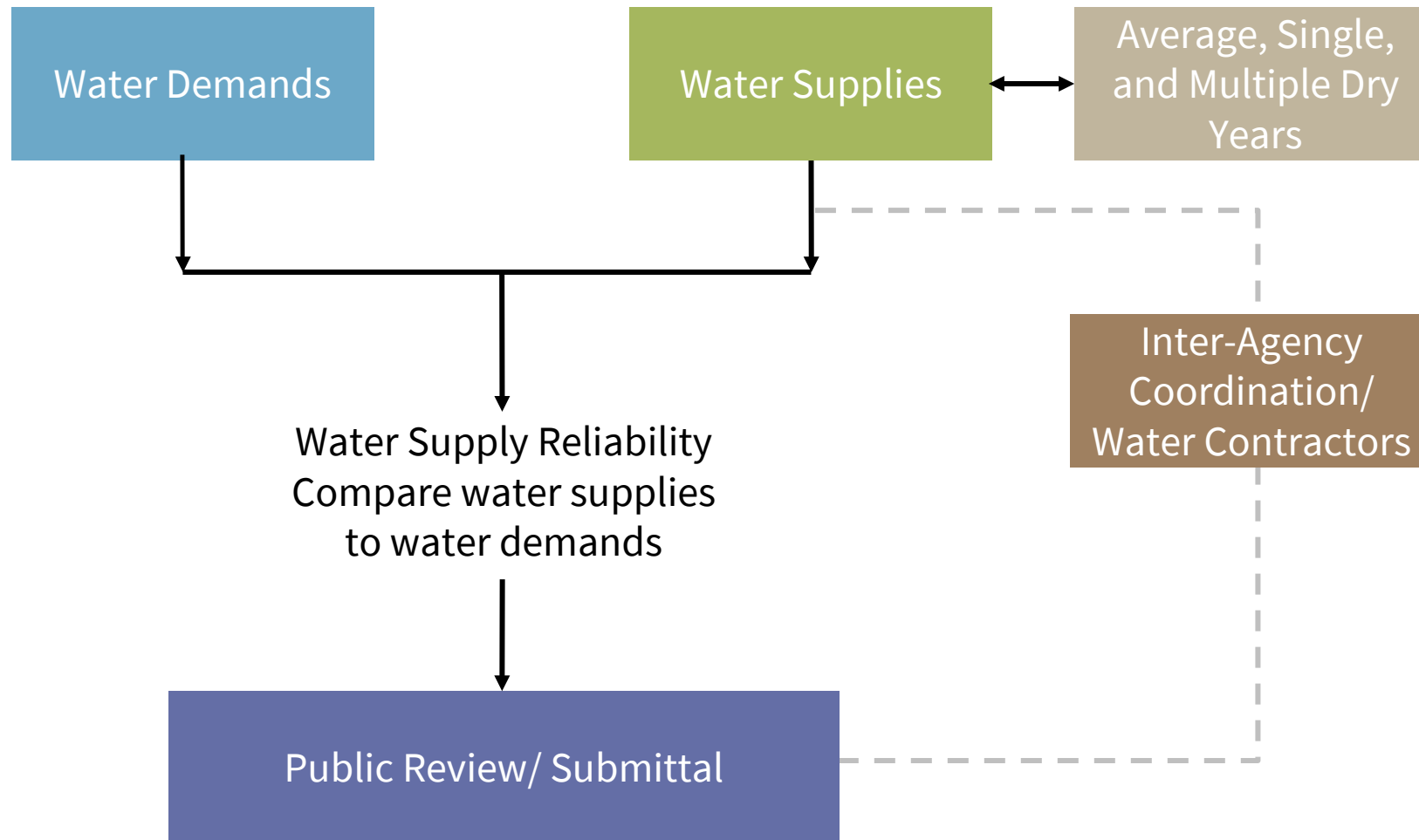


Purpose of the Urban Water Management Plan (UWMP)

- Satisfy UWMP Act requirements
- Submit UWMP every 5 years to the Department of Water Resources (DWR)
 - 2025 UWMP due July 1, 2026
- Prepare UWMP to DWR 2026 UWMP Guidebook requirements for wholesale water suppliers
- Provide a 25-year comparison of water supplies and demands (to 2050)
- Foundation for Water Contractor's UWMPs
- Informs water availability for Water Supply Assessments (SB 610/221)



UWMP Flow Chart



Key Results

- Projected water demands have decreased since the 2020 UWMP projection
- Contractor's projected reliance on local supplies has increased
- Adequate water supply to meet forecasted water demands through 2050 for all planning scenarios
- Although not triggered in modeling simulations, if water demands exceeded water supplies, demand reductions and other conservation measures would be enacted



Key Elements of the 2025 UWMP

- UWMP Preparation and Coordination*
- System Description
- System Water Use*
- System Supplies*
- Water Supply Reliability Assessment*
 - Normal, single dry, and five consecutive dry years
- Drought Risk Assessment (lasting 5 years)*
 - Starting after assessment for years 2026-2030
- Climate Change
- Energy Intensity



* For items in blue, more details are included in subsequent slides

Key Elements Continued

- Water Shortage Contingency Plan*
 - Six standard water shortage levels
 - Methodology for annual water supply and demand assessment
 - Seismic risk assessment (existing local hazard mitigation plan complies)
- Demand Management Measures
- Adoption and Submittal



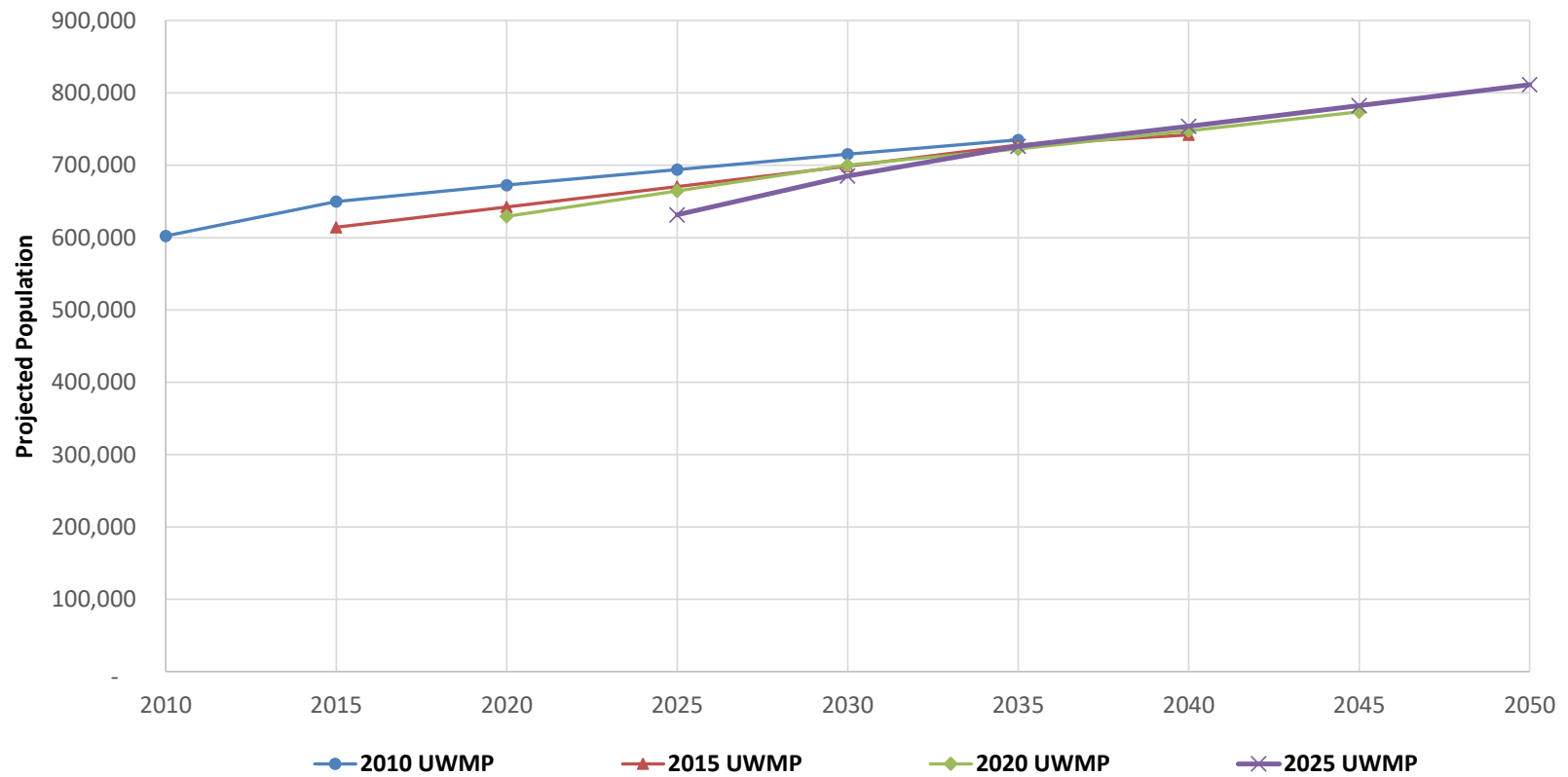
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Coordination with Water Contractors

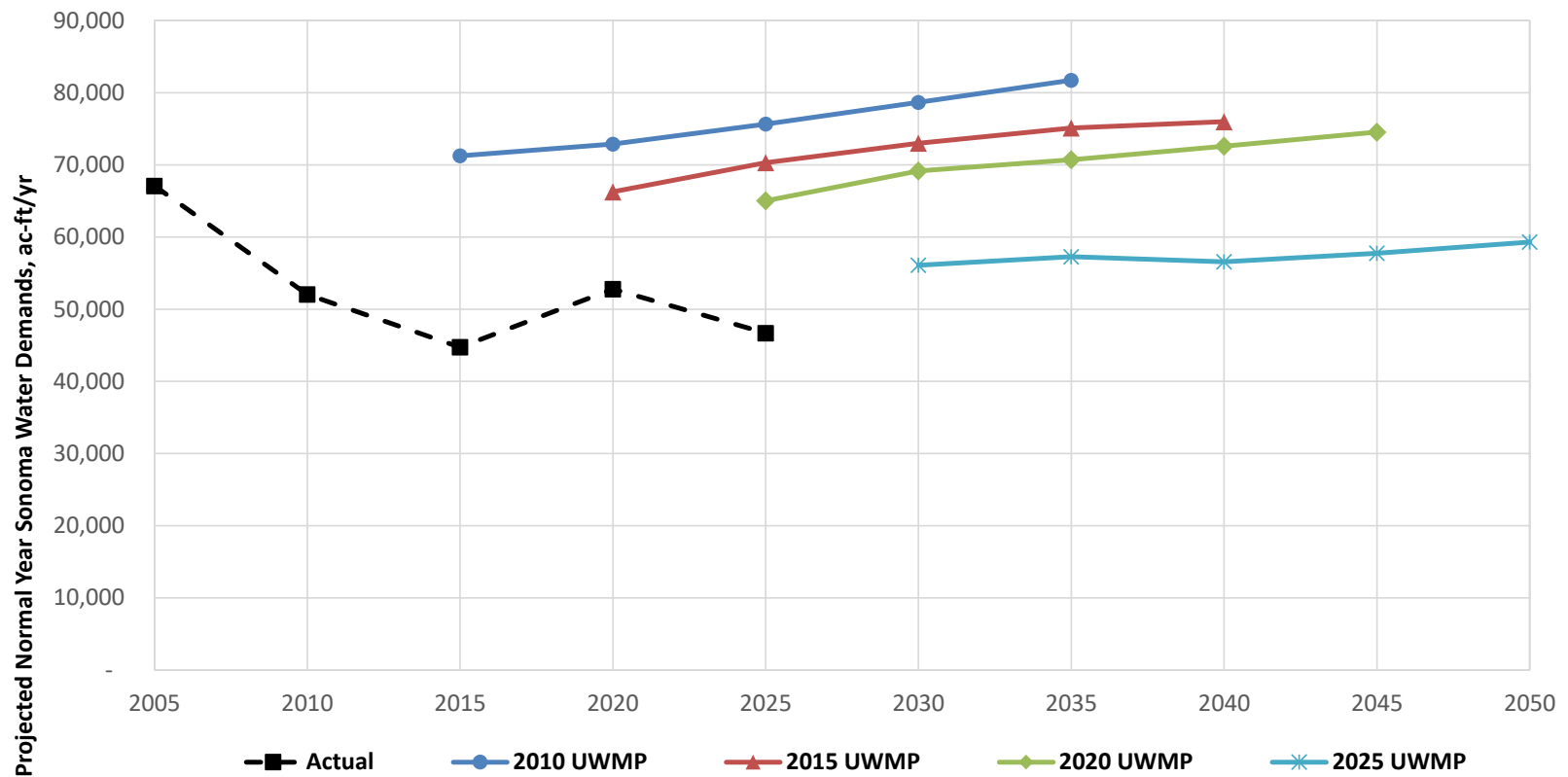
- Projected population (ABAG, DOF, Other)
- Projected demands for wholesale water
 - Contractor demands minus local supply, conservation, and recycled water = net wholesale demands
- Contractors and Marin Water use consistent methodology to develop their projected demands
 - Prepared by EKI Water & Environment
- Projected wholesale water supply amounts
 - Average years, single dry years, multiple dry years (5)



Projected Population



Projected Wholesale Demands



Water Supply Modeling

- Assumptions (Potter Valley Project, New Eel-Russian Facility, 2025 Biological Opinion, Forecast Informed Reservoir Operations, and Climate)
- Performed using Water Agency's Russian River Operations Model
- Uses 114 years of estimated unimpaired flow hydrology (1911-2024)
- Reservoir storage levels determined by previous end of the year storage (Conservative)
- Supply equals demand if Lake Sonoma end of year storage is adequate



Supply to Demand Comparison

Average Year, ac-ft/ year					
	2030	2035	2040	2045	2050
Supply	56,100	57,276	56,568	57,754	59,308
Demand	56,100	57,276	56,568	57,754	59,308
Difference	0	0	0	0	0

Single Dry Year, ac-ft/ year					
	2030	2035	2040	2045	2050
Supply	56,100	57,276	56,568	57,754	59,308
Demand	56,100	57,276	56,568	57,754	59,308
Difference	0	0	0	0	0



Supply to Demand Comparison Continued

Multiple (5) Dry Years, ac-ft/ year					
	2030	2035	2040	2045	2050
Supply	56,100	57,276	56,568	57,754	59,308
Demand	56,100	57,276	56,568	57,754	59,308
Difference	0	0	0	0	0



Minimum Lake Mendocino Storage, ac-ft

- Single dry year modeling results indicate Lake Mendocino does not have adequate supply from 2035 to 2050
- Would not impact Sonoma Water's ability to deliver water to its retail customers but impairs ability to maintain minimum instream flow requirements
- Sonoma Water would work with the SWRCB and Upper Russian River water users to implement actions to reduce demands on Lake Mendocino

Year	Average Year	Single Dry Year	Multiple Dry Years
2030	47,535	9,057	39,701
2035	38,209	2,000*	35,089
2040	37,518	2,000*	34,440
2045	39,860	2,000*	35,862
2050	39,113	2,000*	35,521

**Lake Mendocino storage 2,000 ac-ft and below is considered a depleted reservoir.*



Minimum Lake Sonoma Storage, ac-ft

- The water stored in Lake Sonoma is greater than the supply needed to meet Sonoma Water's customer demands across all hydrologic scenarios
- If a projected Sonoma Water demand can be met while maintaining adequate storage in Lake Sonoma, then the supply is equivalent to the demand for that scenario
- Due to implementation of FIRO at Lake Sonoma and lower customer demands, model results do not indicate storage levels declining below 100,000 ac-ft prior to July through 2050, an improvement from the 2020 UWMP model results for the single dry year

Year	Average Year	Single Dry Year	Multiple Dry Years
2030	219,922	92,081	179,593
2035	217,102	86,559	181,991
2040	215,964	85,865	181,643
2045	215,295	88,870	181,684
2050	213,496	80,539	175,727



Transmission System Modeling

- Helps assess timing and need for new projects
- Performed using Sonoma Water's hydraulic transmission system model
- Peaking factors developed based on historical water demand
- Timing for new projects based on storage tank levels declining below 50 percent full during a 5-day peak demand period
- Projected increased water demand developed over the planning horizon assigned to specific aqueducts where land use planning information was available



Future Water Supply Projects

- Based on the transmission system modeling, one additional water supply project will be needed to meet these projected demands
- The South Transmission Section 1 project will be needed to increase flow capacity during periods of peak demand in the southern portion of the Petaluma Aqueduct
- Note the project improves system capacity and does not represent an additional water supply

Project Name	Projected Implementation Year
South Transmission Section 1 (Cotati to Ely)	2033

Note: Projected implementation year is based on estimated water demands. This date is subject to change if demands increase at a slower rate than what is currently projected.



Drought Risk Assessment – Methodology

- Assesses reliability under a hypothetical five-year drought (2026-2030)
 - Starts with October 1, 2025 actual storage levels and simulates five driest consecutive years on record (1987-1991)
 - Utilizes 2030 customer demand projections each year to be conservative (2026-2029 demands are expected to be lower)



Drought Risk Assessment - Results

- Sonoma Water has sufficient supplies to meet demands in all Drought Risk Assessment years

Drought Risk Assessment Totals, ac-ft/ year					
	2026	2027	2028	2029	2030
Supply	56,100	57,276	56,568	57,754	59,308
Demand	56,100	57,276	56,568	57,754	59,308
Difference	0	0	0	0	0



Water Shortage Contingency Plan

Shortage Levels and Response Actions			
Shortage Level	Percent Shortage Range	Demand Reduction Actions	Supply Augmentation Actions
1	Up to 10%	<ul style="list-style-type: none"> Notification of potential water shortage Encourage voluntary demand reduction 	
2	10 – 20%	<ul style="list-style-type: none"> Encourage enhanced voluntary demand reduction measures 	<ul style="list-style-type: none"> Encourage wholesale customers to maximize use of local supplies Maximize use of Sonoma Water’s groundwater wells
3	20 – 30%	<ul style="list-style-type: none"> Imposition of supply allocations in Section 3.5 of Restructured Agreement 	
4	30 – 40%	<ul style="list-style-type: none"> Petition SWRCB for temporary relief from minimum in-stream flow requirements Implement measures identified in Section 3.5e of Restructured Agreement 	
5	40 – 50%	<ul style="list-style-type: none"> Implement measures identified in Section 3.5e of Restructured Agreement 	
6	>50%	<ul style="list-style-type: none"> Implement measures identified in Section 3.5e of Restructured Agreement 	



Annual Supply and Demand Assessment

- To be prepared and submitted to DWR annually by July 1
- 2025 UWMP includes revised procedures for conducting the annual assessment
- Key data inputs include:
 - Unconstrained customer demand
 - Russian River operations
 - Hydrology and watershed conditions
 - Potter Valley Project inflows
 - Weather forecasts, and
 - Historical hydrological records



Public Outreach and UWMP Adoption

- City and County 60-day notification
- Email notice
- E-News, Social Media, Website
- TAC Ad Hoc Meetings
- Coordination with GSAs
- Public Hearing
- Adoption by governing body
- Submittal to DWR, State library, and cities/counties plus public availability



Next Steps

- Public Hearing for the Water Shortage Contingency Plan (WSCP) and Urban Water Management Plan (UWMP)
- Board to consider:
 - Adoption of resolution adopting WSCP
 - Adoption of resolution adopting 2025 UWMP





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