

Water Supply Update

Board of Directors

March 15, 2022

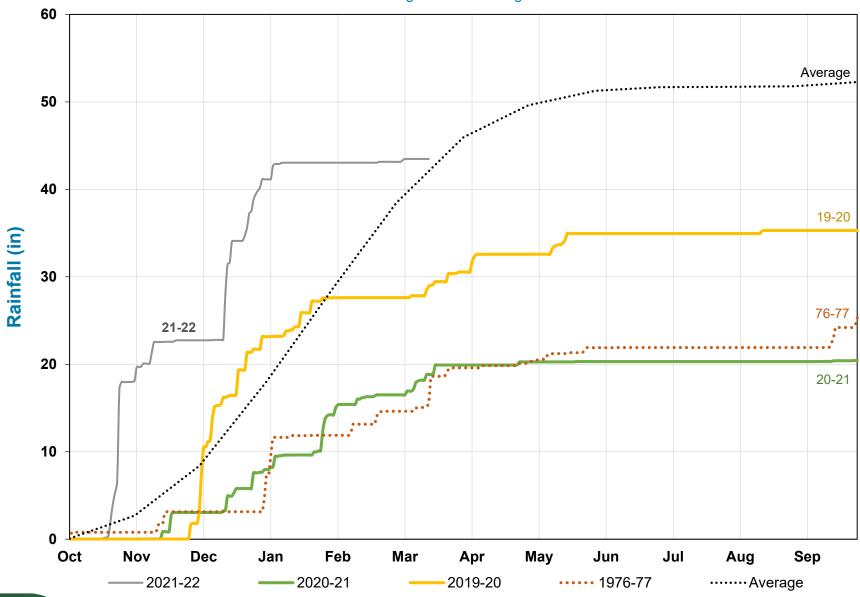


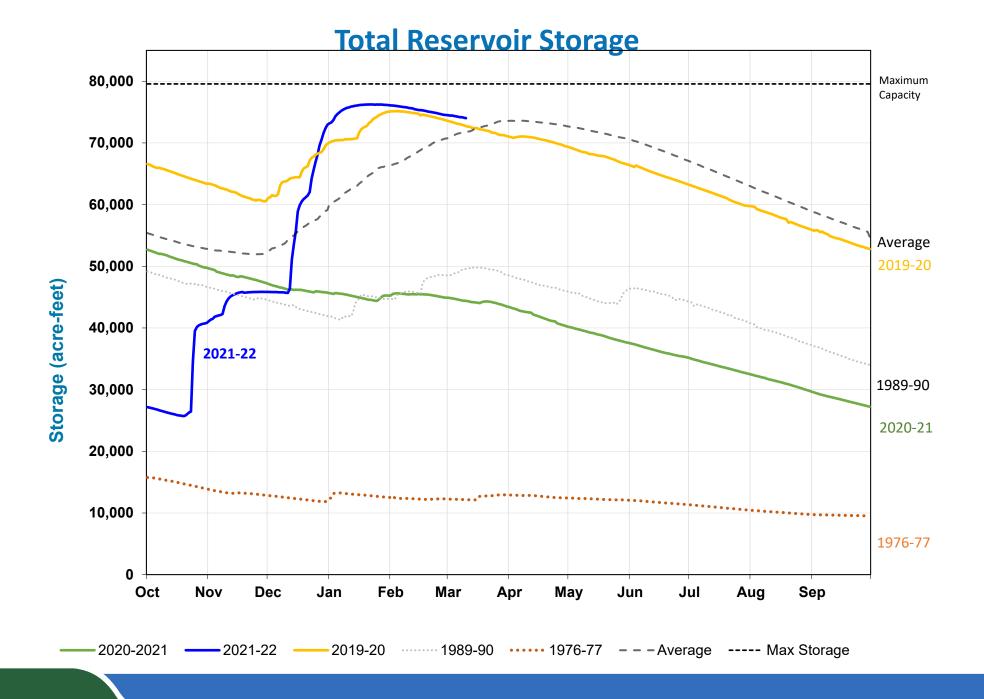
Overview

- Current Water Supply
- Bay Area Agencies Current Storage Comparison
- Water Supply Projection
- Water Supply Assessment Update
 - Overall Process
 - Strategy and Goals
- Summary

Cumulative Precipitation

Lake Lagunitas Rain Gauge

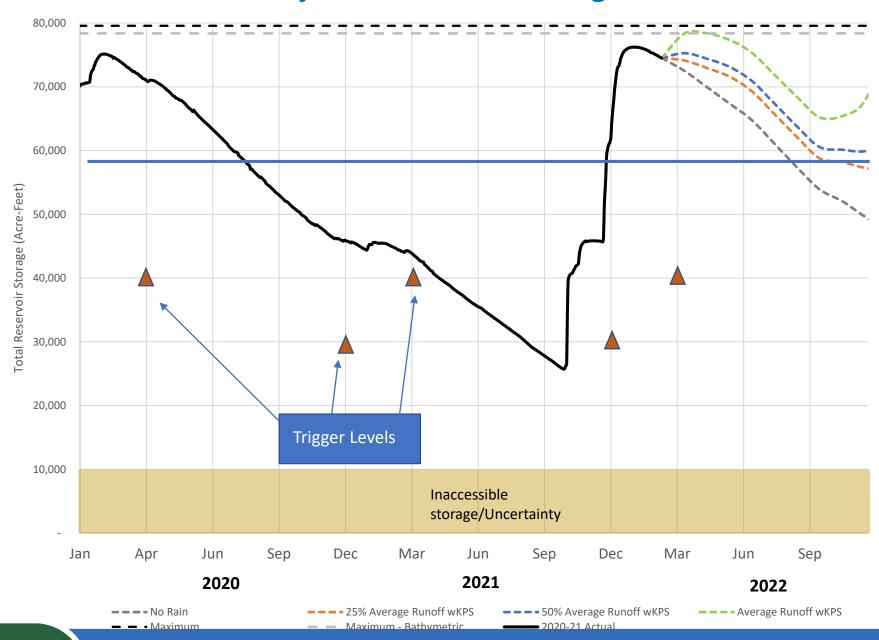




Bay Area Water Supply Levels

- Sonoma Water Lake Sonoma ~60% / Lake Mendocino ~59%
- East Bay Municipal Utilities District ~69%
- Valley Water ~26%
- San Francisco PUC ~73%
- Marin Water ~93%

Projected Reservoir Storage



Water Supply Assessment: Project Overview

The Assessment will address the following questions:

- 1. What is the current risk to MMWD's water delivery reliability under recent and projected future droughts?
- 2. How much additional water supply is needed under different future hydrologic drought and demand scenarios?
- 3. What are the range of water supply alternatives that could increase resiliency of MMWD's system? And what are their strengths and weaknesses?
- 4. What recommendations can be developed to support MMWD's near-term investment in drought resiliency?

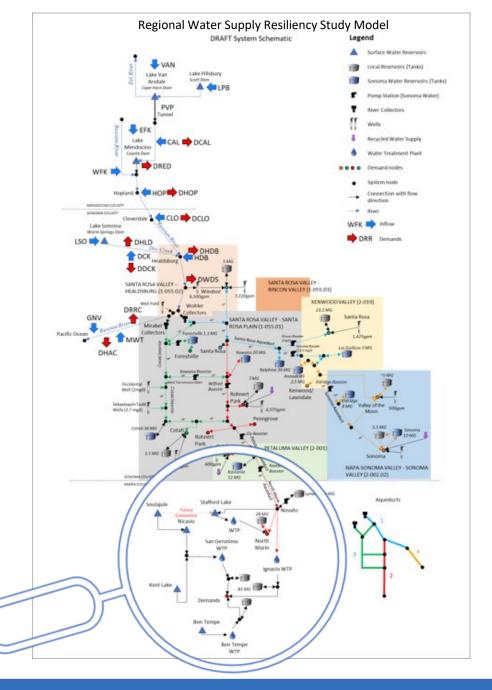
Water Supply Assessment: Key Project Scope Elements

Understanding Current Risks & Establishing Goals Identifying & Evaluating Alternatives Recommendations & Path Forward Confirm Develop Develop Conduct **Develop** Prepare Water Supply **Decision** Water Supply **Evaluation** of Water Supply Roadmap and Demand **Water Supply** Strategy and Support **Alternatives** and Report Model **Alternatives** Goals **Scenarios**

- Establish a Level of service
- How our system works
- Duration & severity of drought
 - Quantify supply & demand

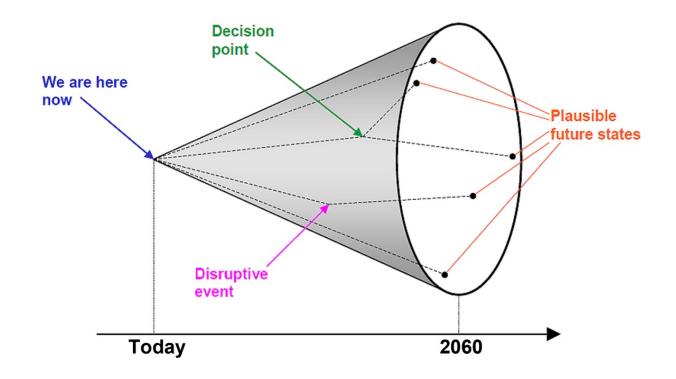
Decision Support Model

- Regional and local system model for evaluating water supply resiliency
 - System infrastructure, hydrology, demands, operations
- Updating decision support models
 - Sonoma Water and Marin Water models
- Adding detail necessary to support option evaluations
- Test system performance under various scenarios and water management alternatives
- Suggest system improvements to improve resiliency



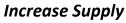
Water Supply and Demand Scenarios

- Recognizing that future is uncertain
 - Climate change
 - Drought variability
 - Demands
 - Policies and regulations
- Seeking robust solutions
- Scenarios allow us to explore plausible future conditions and identify promising solutions
 - Historical droughts
 - Climate projections
 - Paleo reconstructions
 - Stress tests



Water Supply Assessment Process

- Consider a broad range of water management alternatives
- Identify most promising alternatives
- Evaluate alternatives for performance and other economic, environmental, and social criteria
- Explore strategic combinations of alternatives
- Develop roadmap with specific project, pathways, and triggers to achieve resilient and sustainable solutions











Policy & Governance



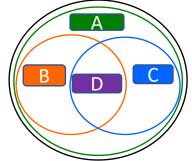




Performance and Economic, Environmental, Social Attributes of Options



Portfolio Development and Analysis



Resilient and Sustainable Water Management Solutions

Initial Water Management Strategies to Be Considered

- Baseline Existing water supply system with planned improvements
- Long Term Conservation Scenario
- Water Purchases with Conveyance through East Bay Intertie
- Desalination
- Sonoma Water Options
- Increase Local Surface Storage
- Expand Recycled Water

Schedule and Outreach Overview

- ✓ March Public Workshop #1
- April Board & Committee Meetings Goals/Targets
- May Public Workshop #2
- May Board & Committee Meetings Alternatives development
- June Public Workshop #3
- June Board & Committee Meetings Alternatives evaluation
- July Board & Committee Meetings Roadmap and report preparation

Summary

- Continue Water Supply Assessment:
 - Goals/Targets (April)
 - Alternatives (May & June)
 - Roadmap (July)
- Storage projection indicates near average reservoir levels for end of water year - even with no additional rain
- State is still in drought conditions
- Messaging to customers is to continue to use water wisely