

Water Shortage Contingency Plan

RWSA AAC Meeting | April 23, 2025

Purpose

This plan identifies actions to reduce water demand equitability to help ensure all community members stay safe, healthy and resilient during disasters or disruptions to the water supply.



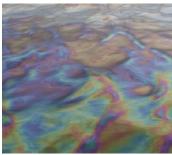
Potential Water Supply Disruptions...



Infrastructure failure



Wildfire



Supply contamination



Earthquake



Drought





Whit Bundy, WCWCD Engineer

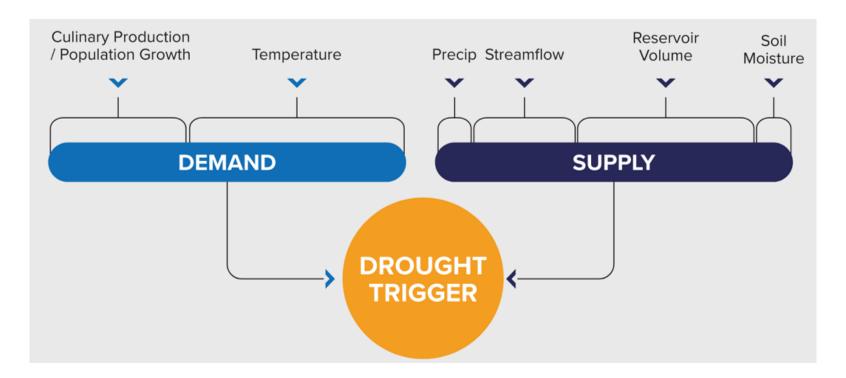


Reduction at Each Stage

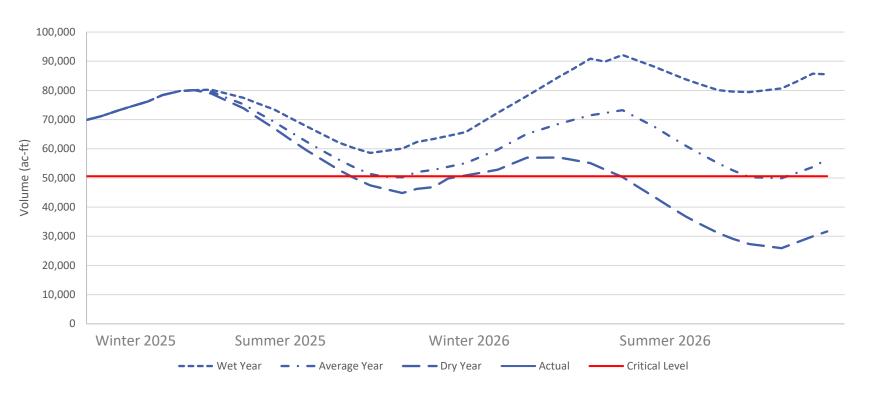




Model Inputs



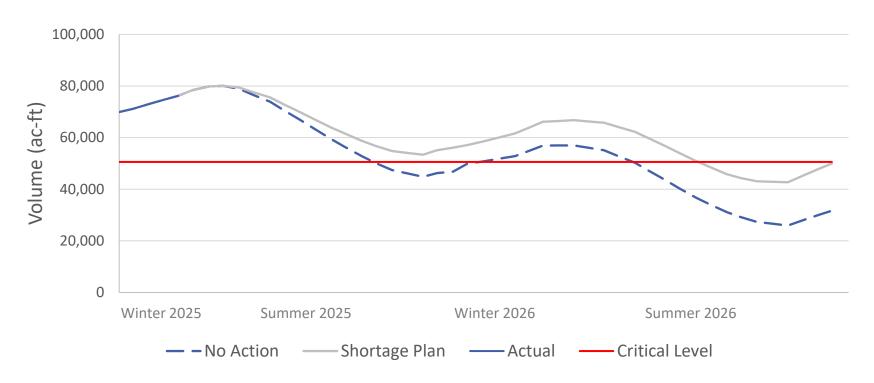






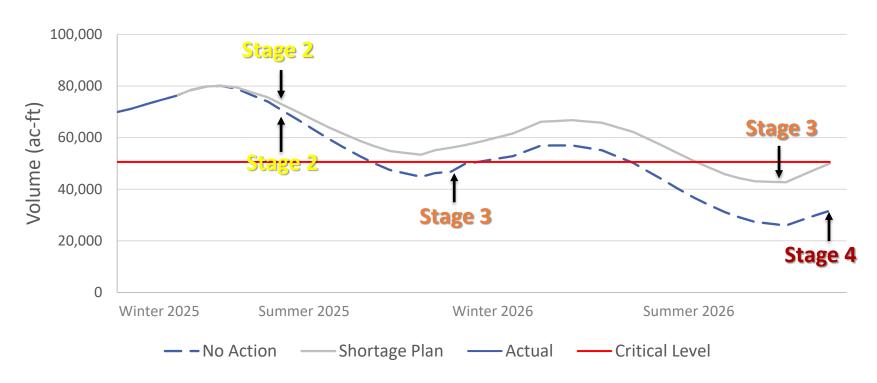


Low Projection





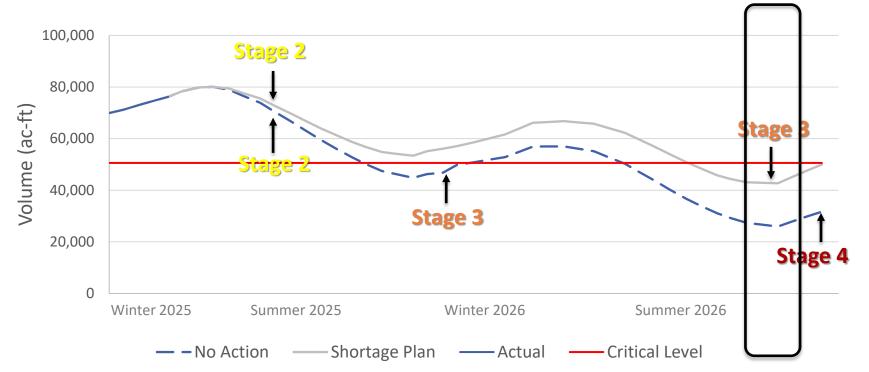
Low Projection





Low Projection

Let's compare



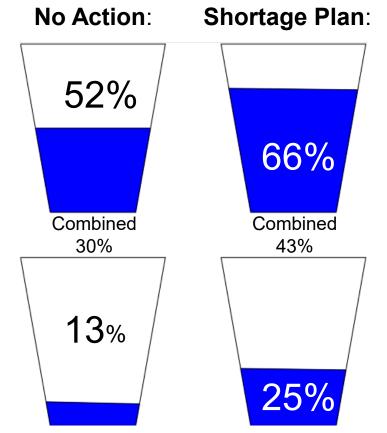


Low Projection

October 2026

Quail Creek

Sand Hollow





Low Projection October 2026





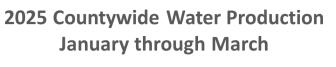


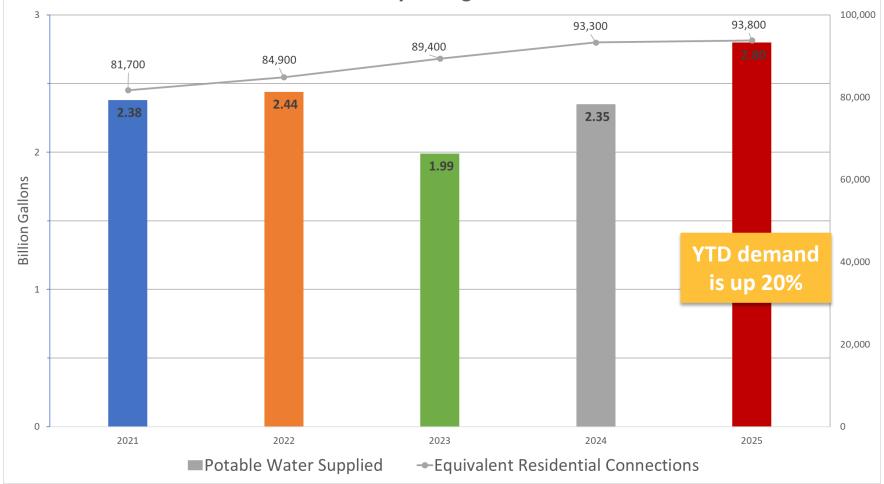




Plan Principles, Measures and Processes

Doug Bennett, WCWCD Conservation Manager



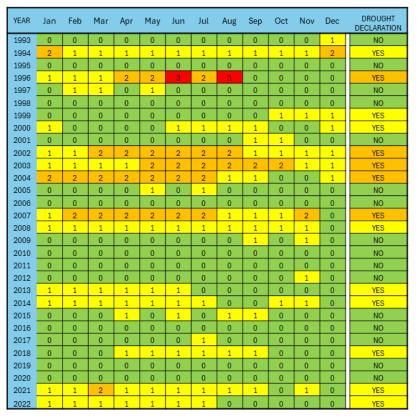


The Planning Process

- Consultant-guided process
- 17-member task force, including representatives from each RWSA partner
- Consensus survey of more than 60 municipal officials



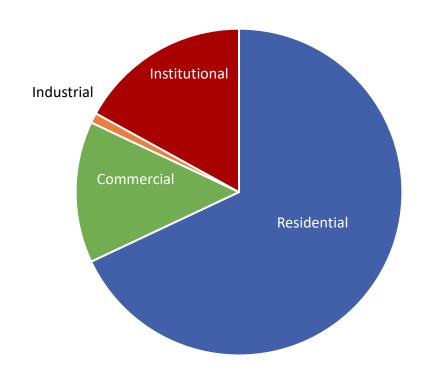
Historical Drought Performance



- Stage 1 conditions would have occurred in nine years (30%)
- Stage 2 conditions would have occurred in five years (17%)
- Stage 3 and 4 conditions would not have been declared



- Address shortage conditions
- Cities may opt out but will receive reduced deliveries; shortages need to be shared equitably
- All customer sectors contribute



Use by Sector









PROTECT JOBS



PRESERVE HIGH-VALUE LANDSCAPE, SUCH AS TREES



APPLY INCREMENTAL, ESCALATING MEASURES



OPTIMIZE POST SHORTAGE RESILIENCY



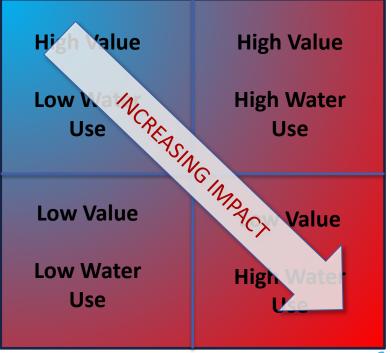
High value uses with low conservation potential will be most protected

High value uses with high water use contribute through modified operations

Low value uses (including some with low water use) may be prohibited

Low value uses with high water use will be most affected

WATER USE INTENSITY



COMMUNITY VALUE



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High value uses with high water use contribute through modified operations

Low value uses, including some with low water use, may be prohibited

Low value uses with high water use will be most affected

WATER USE INTENSITY

Health and sanitation Fire	Parks and fields
protection	Golf courses
Mist cooling Water features	Decorative lawns

COMMUNITY VALUE



Incremental Measures

Decrease the amount or frequency of water use without eliminating the function

- Car washing
- Development
- Golf courses
- Water play



Landscapes

Use more than half of the community supply Lawns are estimated to comprise 75% of all landscape water demand

Type of Landscape	Estimated Annual Water Use	Percent total water supply (2023)
All landscape types	9.4 billion gallons	54 percent
All lawn grass	7.0 billion gallons	40 percent
Functional lawn grass	4.2 billion gallons	24 percent
Ornamental lawn grass	2.8 billion gallons	16 percent
Tree & shrub	2.4 billion gallons	14 percent



Stage 1 Measures – 10% Reduction



LANDSCAPE

Defer lawn planting, May-August



DEVELOPMENT

Limit SFR pools to 600 SF

Refuse new connections for non-essential facilities
>9MGY (top 1 percent user)



OTHER

Strengthen enforcement of existing water use codes

Stage 1 golf water budget (90%)

Stage 1 rate structure (as determined by agencies)



Stage 2 Measures – 20% Reduction



LANDSCAPE

Drip irrigated plant installs only

Ornamental lawn irrigation prohibited

Fountain & mist system operation prohibited

Water Efficient Landscapes
Program increase



DEVELOPMENT

Community pools only

Lawn planting suspended on permitted projects, prohibited for new permits

Defer new connections for nonessential facilities >3MGY (top 5%)



OTHER

Car washing 1x per week maximum

Stage 2 golf water budget (80%)

Stage 2 rate structure (as determined by agencies)



Stage 3 Measures – 40% Reduction



LANDSCAPE

Outdoor irrigation by hose or drip system 1x per week

Lawn conversion to drip irrigated plants allowed



DEVELOPMENT

Defer all new connections except critical facilities & low water use projects



OTHER

Evaporation barriers required on pools. Make up water only

Splash pads and water park operations suspended

Car washing 1x/month maximum

Stage 3 golf water budget (60%)

Stage 3 rate structure (as determined by agencies)



Stage 4 Measures – 60% Reduction



LANDSCAPE

All outdoor irrigation prohibited



DEVELOPMENT

Continue Stage 3 strategies

All non-essential

facilities prohibited



OTHER

Use limited to:

- Human health
- Sanitation
- Fire protection



Not Impacted Stages 1-3









Impacted in Stage 2







Process Steps

AAC recommendation to WCWCD Board

Adoption of plan by WCWCD Board

Adoption of regional plan by municipalities

Development of municipal policy and code



Recommendation

Move to recommend adoption of the Water Shortage Contingency Plan by the WCWCD Board

