

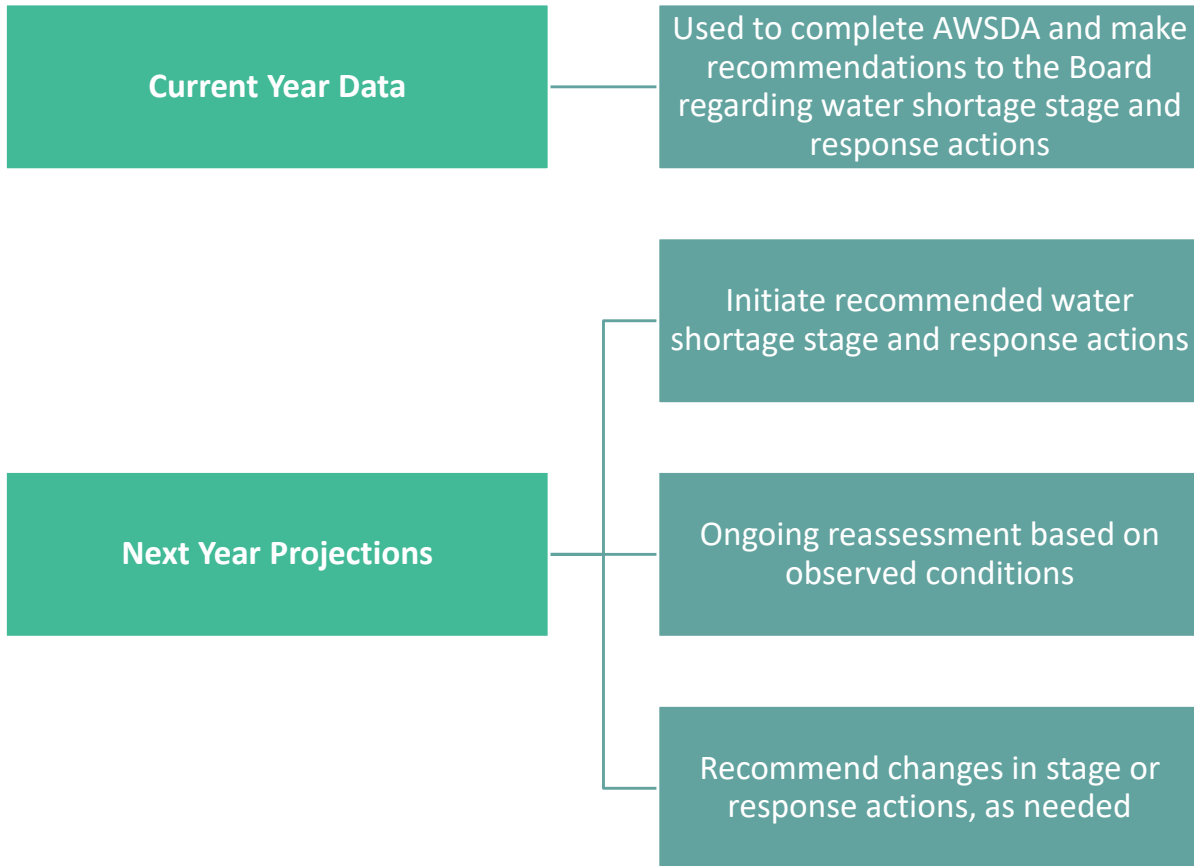


2022 Annual Water Shortage Assessment

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Manager/District Engineer

ANNUAL WATER
SUPPLY AND
DEMAND
ASSESSMENT
(AWSDA)

The AWSDA serves as a tool to help identify potential water supply shortages and to implement water shortage response actions to mitigate possible supply gaps.



A Dynamic Approach to Water Supply Planning

Potable Water Shortage Assessment ¹													
Start Year: 2022							Volumetric Unit Used: AF						
	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
Anticipated Unconstrained Demand	52	52	48	48	44	44	39	39	39	39	49	49	542.21
Anticipated Total Water Supply	45	45	42	42	37	35	34	37	37	37	40	42	473.00
Surplus/Shortage w/o WSCP Action	-7.0	-7.0	-5.9	-5.9	-6.9	-8.9	-5.4	-2.4	-1.8	-1.8	-9.1	-7.1	-69.2
% Surplus/Shortage w/o WSCP Action	-14%	-14%	-12%	-12%	-16%	-20%	-14%	-6%	-5%	-5%	-19%	-15%	-13%
State Standard Shortage Level	2	2	2	2	2	3	2	1	1	1	2	2	2
Planned WSCP Actions													
Benefit from WSCP: Supply Augmentation	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Benefit from WSCP: Demand Reduction	10.4	10.4	9.6	9.6	8.8	8.8	7.9	3.9	3.9	3.9	9.8	9.8	96.8
Revised Surplus/Shortage with WSCP	3.4	3.4	3.7	3.7	1.9	-0.1	2.5	1.6	2.1	2.1	0.7	2.7	27.5
% Revised Surplus/Shortage with WSCP	6%	6%	8%	8%	4%	0%	6%	4%	5%	5%	1%	5%	5%
¹ Assessments are based on best available data at time of submitting the report and actual volumes could be different due to many factors.													

Potable Water Shortage Assessment

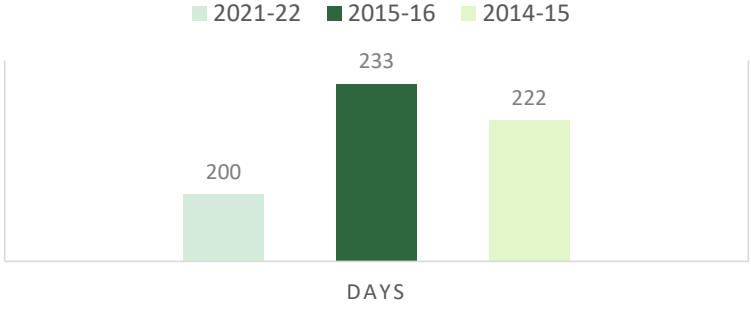
Suppliers are required to plan for a dry year ahead. Actual diversion rates from 2015-2016 (a comparable dry period) were used to estimate available supplies in the next year.

RAINFALL TOTALS COMPARISON							
		2013-2014		2014-2015		2021-2022	
	Average (in)	Totals (in)	% of Average	Totals (in)	% of Average	Totals (in)	% of Average
Santa Rosa	22	7.01	32%	12.68	58%	14.65	67%
Rocky Butte	40	11.85	30%	26.81	67%	30.02	75%

Water Shortage Evaluation Criteria

- Start of Dry Season
- Precipitation data
- Current and recent historic demand trends
- Basin Management Protocols

LENGTH OF DRY SEASON COMPARISON



Anticipated Shortage Level	ACTIONS: Demand Reduction, Supply Augmentation, and Other Actions.	Is Action Already Being Implemented? (Y/N)
1	Offer Water Use Surveys	Yes
1	Landscape - Restrict or prohibit runoff from landscape irrigation	Yes
1	Landscape - Other landscape restriction or prohibition	Yes
1	CII - Lodging establishment must offer opt out of linen service	Yes
1	CII - Restaurants may only serve water upon request	Yes
1	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	Yes
1	Other - Prohibit use of potable water for construction and dust control	Yes
1	Other - Prohibit use of potable water for washing hard surfaces	Yes
1	Pools and Spas - Require covers for pools and spas	Yes
1	Other water feature or swimming pool restriction	Yes
2	Increase Water Waste Patrols	No
2	Expand Public Information Campaign	Yes
2	Provide Rebates on Plumbing Fixtures and Devices	Yes
2	Landscape - Limit landscape irrigation to specific days	No
2	Landscape - Prohibit certain types of landscape irrigation	No
2	Provide Rebates for Landscape Irrigation Efficiency	No
3	Increase Water Waste Patrols	No
3	Expand Public Information Campaign	No
3	Landscape - Limit landscape irrigation to specific days	No
3	Decrease Line Flushing	No
3	Reduce System Water Loss	No

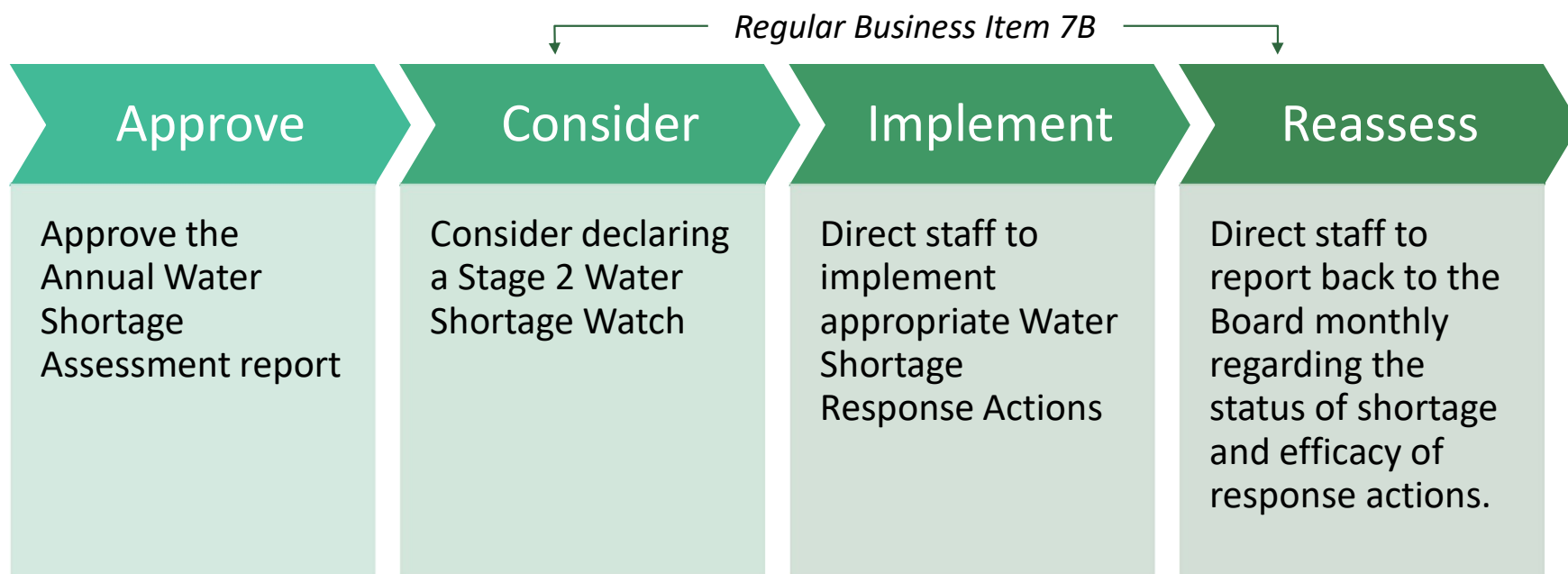
Planned Shortage Response Actions

Variances from the CCSD Water Shortage Contingency Plan include adding increased water waste patrols at each stage, providing water use surveys at all times, and providing rebates for plumbing fixtures and efficient irrigation at Stage 2.

Staff will also be recommending a ban on refilling cisterns with potable water from the CCSD. This will be discussed in detail under today's Regular Business Item 7B.



Next Steps





Questions?
