# Water Supply Update

Board of Public Utilities Meeting

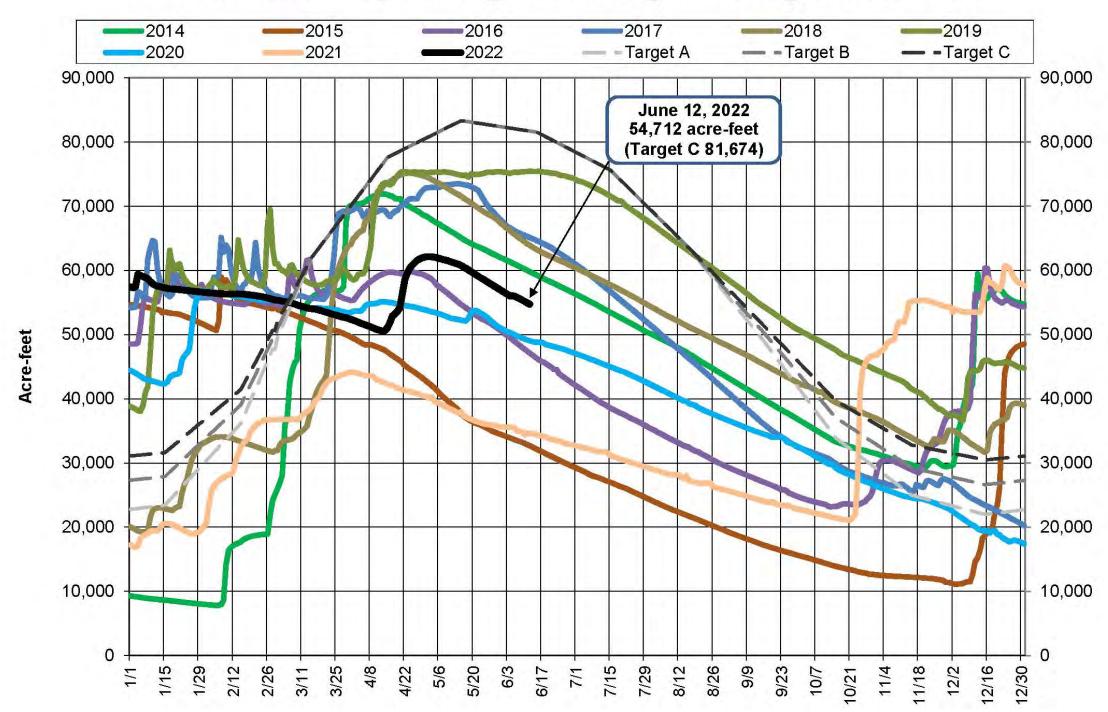
June 16, 2022

Peter Martin – Deputy Director Water Resources

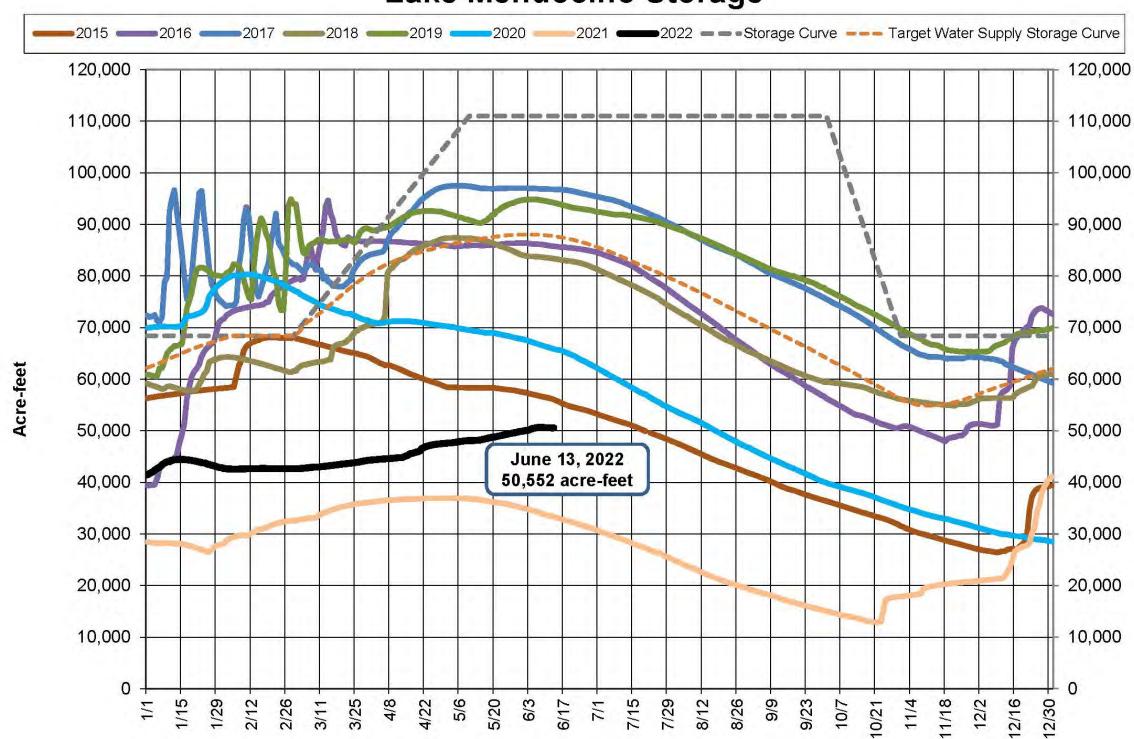
Colin Close - Senior Water Resources Planner



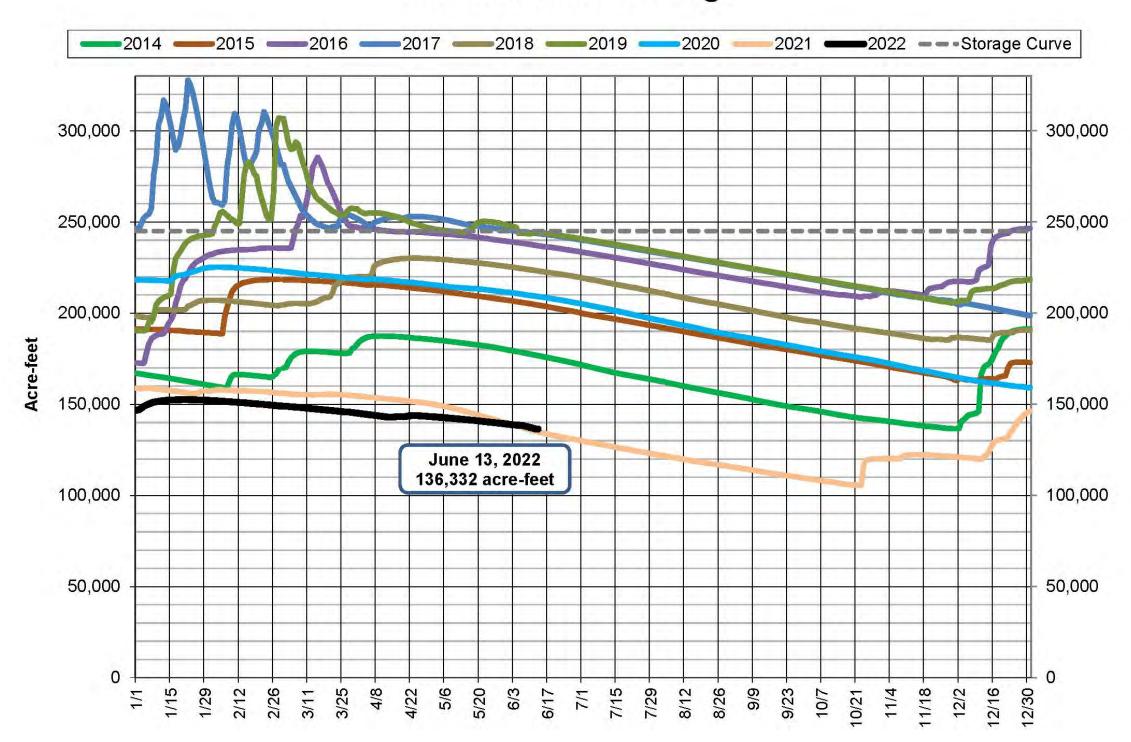
### Lake Pillsbury Storage and Target Storage Scenarios



#### **Lake Mendocino Storage**



#### **Lake Sonoma Storage**



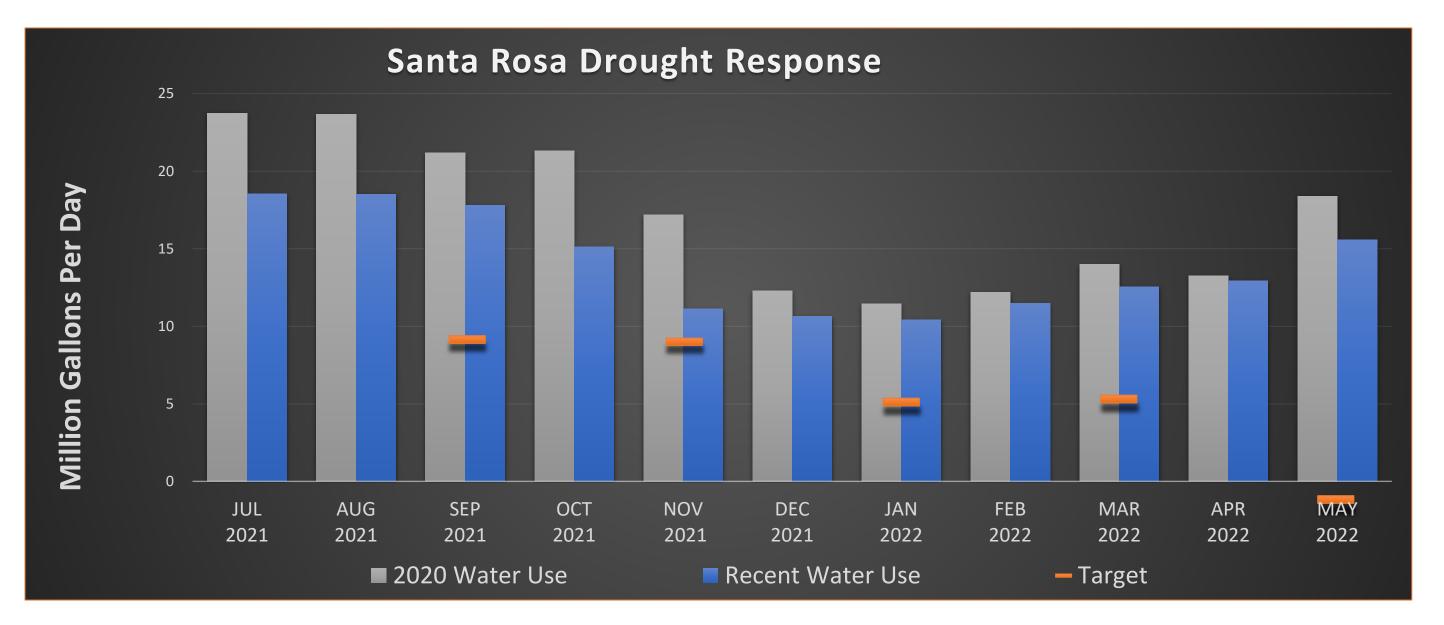
## Sonoma Water TUCP

- Filed on May 25, 2022
- Existing TUCO expires June 8, 2022
- Extends establishment of "critical" water supply conditions
  - 25 CFS Upper / 35 CFS Lower
- Commits to a 20% reduction in diversions
  - July 1 to October 31, when compared to 2020

# **PG&E Flow Variance – FERC Filing**

- May 15 FERC mandated flow schedule for East Branch of Upper Russian River is 75 CFS
- PG&E requests a variance to bypass 5 CFS (minus PVID contract obligations) beginning in June
- Target 30,000 Acre feet in Lake Pillsbury by Sept 15
  - Cold water pool necessity for Eel River species
  - Last year's target: 12,000 acre-feet by September

## Santa Rosa Cumulative Drought Reductions



- In May 2022, Santa Rosa residents reduced water use by 15% in compared to 2020
- From July 2021 May 2022, water use has been reduced by 18% compared to 2020

## State Water Resources Control Board Emergency Conservation Regulations adopted May 24th

- Effective June 16<sup>th</sup>, commercial, industrial and institutional (CII) "non-functional turf" is no longer allowed to be irrigated.
  - Some limited exceptions
  - Enforcement authority resides with SWRCB
  - Direct Outreach to CII by Santa Rosa Water ongoing
- <u>Preliminary</u> Annual Water Supply and Demand Assessment was required to be submitted by June 1
- Urban water suppliers to implement all conservation actions in their locally adopted plans meant to address at least a water shortage level of 10 to 20 percent (Level 2) by June 16, 2022.



### Annual Water Supply and Demand Assessment

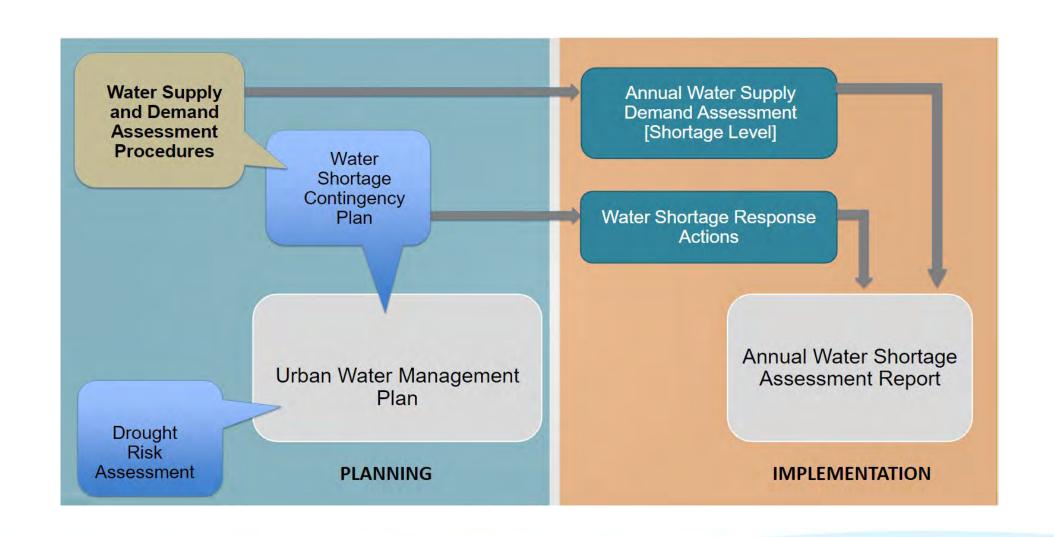
CA Water Code Section 10632.1

Urban water suppliers must:

- Assess supply versus "unconstrained" (ordinary) demand for upcoming year (Jul 1 – June 30).
- Assume the upcoming year will be dry.
- If shortage anticipated, list triggered shortage response actions.
- Submit Annual Water Shortage Assessment Report (tables) to DWR.
- Due by July 1 each year, beginning in 2022.



# Compliance began with updates to 2020 Urban Water Management Plan and Water Shortage Contingency Plan



## - NEW – Preliminary report due June 1, 2022

#### **Preliminary Report due June 1, 2022**

- Proposed in Gov's Exec Order N-7-22 (May 8, 2022).
- Adopted by State Water Board (May 24, 2022).

#### **Urban Water Suppliers must:**

- Conduct AWSDA using best available info.
- Identify potential shortage level.
- List response actions considered.
- At minimum, consider activating State Level 2 actions (20% shortage response actions).



### Santa Rosa Water

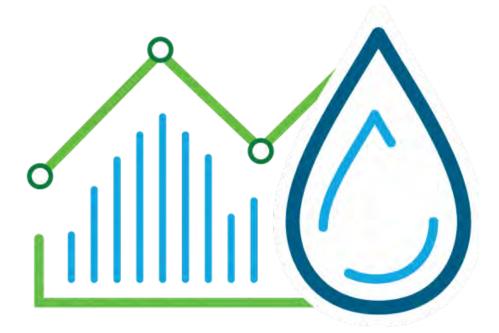
## Supply and Demand Estimates

#### **Supply Projection**

- Sonoma Water: Supply adequate to meet unconstrained demand if winter 2022-23 is dry (about 93% of Santa Rosa's supply).
- City wells: Reliably produce about 7% of supply (dry & wet years).
- City recycled water: Reliably provides about 1% (dry & wet years).

#### "Unconstrained" Demand Estimate

- Based on 2021-2025 Drought Risk Assessment unconstrained demand estimates (in 2020 Water Shortage Contingency Plan).
- Includes growth projections (population, housing, CII).
- DRA calendar year estimates for 2022 and 2023 prorated to estimate FY 2022-2023 demands.



### Santa Rosa Water

## Preliminary Assessment

#### **Analysis shows:**

 Adequate supply to meet unconstrained demands for July 2022 - June 2023 (supply equals demand).

#### **Drought response actions include:**

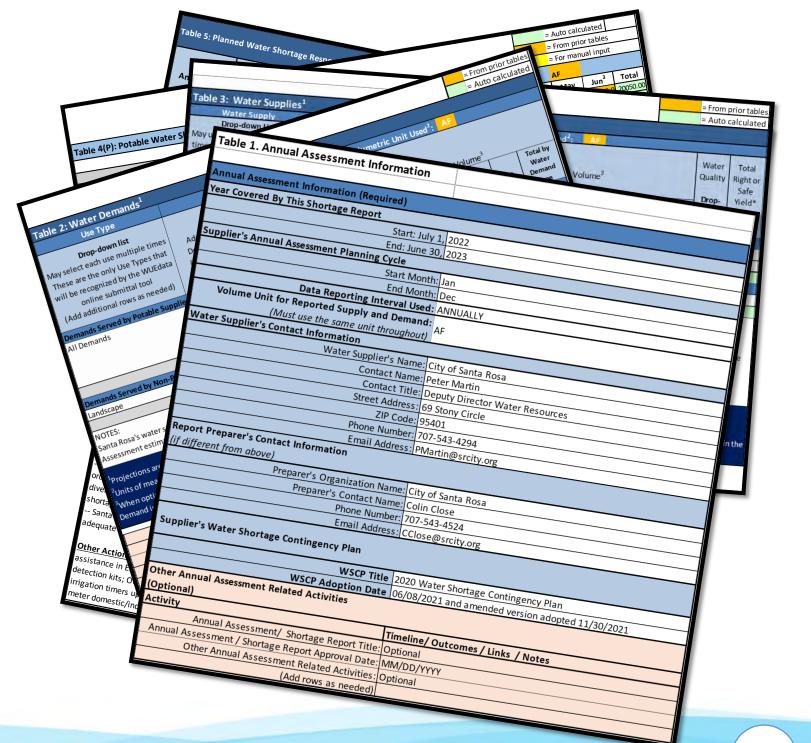
- City will remain in Stage 3 through 2022 (and beyond if winter is dry) to ensure adequate supply.
- City Stage 3 response actions will continue.
  - Continue implementing all current actions.
  - Do not anticipate initiating Water Shortage Charge (would add 7.5% to current water rates)



# Santa Rosa – Preliminary Annual Shortage Report

#### Required reporting tables

- Table 1. Supplier Information
- Table 2. Water Demands
- Table 3. Water Supplies
- Table 4. Water Shortage Assessment
- Table 5. Planned Shortage Response Actions



# Table 1: Supplier Info

Table 1. Annual Assessment Information	
Annual Assessment Information (Required)	
Year Covered By This Shortage Report	
Start: July 1,	2022
End: June 30,	2023
Supplier's Annual Assessment Planning Cycle	
Start Month:	Jan
End Month:	Dec
Data Reporting Interval Used:	ANNUALLY
Volume Unit for Reported Supply and Demand:	ΔΕ
(Must use the same unit throughout)	Al
Water Supplier's Contact Information	
Water Supplier's Name:	City of Santa Rosa
Contact Name:	Peter Martin
Contact Title:	Deputy Director Water Resources
Street Address:	69 Stony Circle
ZIP Code:	95401
Phone Number:	707-543-4294
Email Address:	PMartin@srcity.org
Report Preparer's Contact Information (if different from above)	
Preparer's Organization Name:	City of Santa Rosa
Preparer's Contact Name:	Colin Close
Phone Number:	707-543-4524
Email Address:	CClose@srcity.org
Supplier's Water Shortage Contingency Plan	
WSCP Title	2020 Water Shortage Contingency Plan
WSCP Adoption Date	06/08/2021 and amended version adopted 11/30/2021
Other Annual Assessment Related Activities (Optional)	
Activity	Timeline/ Outcomes / Links / Notes
Annual Accessment/ Shortage Report Title	Ontional

# Table 2: Water Demands (Jul 2022-Jun 2023)

														= From p	orior tables
														= Auto	calculated
Table 2: Water Demands <sup>1</sup>															
Use Type			Sta	art Ye	ear:	2022	Volu	umet	ric Uı	nit Us	ed <sup>2</sup> :	AF			
Drop-down list  May select each use multiple times  These are the only Use Types that  will be recognized by the WUEdata	Additional Description	Level of Treatment for Non- Potable				ſ	Projec	ted V	Vater	Dem	ands	- Volu	ume <sup>3</sup>		Total by
online submittal tool (Add additional rows as needed)	(as needed)	Supplies  Drop-down  list	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Water Demand Type
<b>Demands Served by Potable Supplie</b>	S														
All Demands	All Demands  All revenue and nonrevenue water uses, including system water loss  All revenue and nonrevenue water uses, including system water loss													20,050	
	Total by Month (Potable) 0 0 0 0 0 0 0 0 0 20,050 20,050													20.050	
Demands Served by Non-Potable Su		itii (i otabic)	U											20,030	20,030
Landscape Annual Data Tertiary 140 140													140		
	Total by Month (N	on-Potable)	0	0	0	0	0	0	0	0	0	0	0	140	140
NOTES: Santa Rosa's water supplies are dete Assessment estimates (in 2020 Wate								-							-
<sup>1</sup> Projections are based on best available data at time of submitting the report and actual demand volumes could be different due to many factors. <sup>2</sup> Units of measure (AF, CCF, MG) must remain consistent. <sup>3</sup> When opting to provide other than monthly volumes (bi-monthly, quarterly, or annual), please see directions on entering data for Projected Water Demand in the Table Instructions.															
Opt	cional (for compariso	n purposes)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
		otal demand													0
	Two years ago to														0
	Three years ago to	otal demand													0

Four years ago total demand

## Table 3: Water Supplies (Jul 2022-Jun 2023)

																rior tables alculated
Table 3: Water Supplies <sup>1</sup>															- Auto C	alculated
Water Supply	Sta	art Ye	ar:	2022		Vo	lumet	ric Un	it Use	d²:	AF					
Drop-down List May use each category multiple times.These are the only water supply categories that will be						Proje	cted V	Vater \$	Supplie	es - Vo	olume <sup>3</sup>	3			Water Quality	Total Right or Safe Yield*
recognized by the WUEdata online submittal tool (Add additional rows as needed)		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total by Water Supply Type	Drop- down List	(optional
Potable Supplies																
Purchased/Imported Water	Sonoma Water												18,647	18,647		
Groundwater (not desal.)	City wells												1,403	1,403		
Tot	0	0	0	0	0	0	0	0	0	0	0	20,050	20,050		0	
Non-Potable Supplies																
Recycled Water	City Regional System												140	140	_	
Total by	Month (Non-Potable)	0	0	0	0	0	0	0	0	0	0	0	140	140		0
Notes:																

Notes:

Santa Rosa's water supplies are determined on an annual basis. Therefore, supplies are being provided on an annual basis.

- About 93% of Santa Rosa's water is purchased from a wholesaler, Sonoma County Water Agency (Sonoma Water). Based on modeling for a dry winter 2022-23, Sonoma Water reports in its preliminary AWSDA that it has adequate supply to meet unconstrained demands for its customers including City of Santa Rosa, as the model shows supply equals demand for July 2022 through June 2023.
- City wells reliably produce about 7% of supplies each year (in dry and wet years).
- City recyled water for urban landscape irrigation consistently provides about 0.7% of total demand each year (in dry and wet years).

<sup>1</sup>Projections are based on best available data at time of submitting the report and actual supply volumes could be different due to many factors.

<sup>2</sup>Units of measure (AF, CCF, MG) must remain consistent.

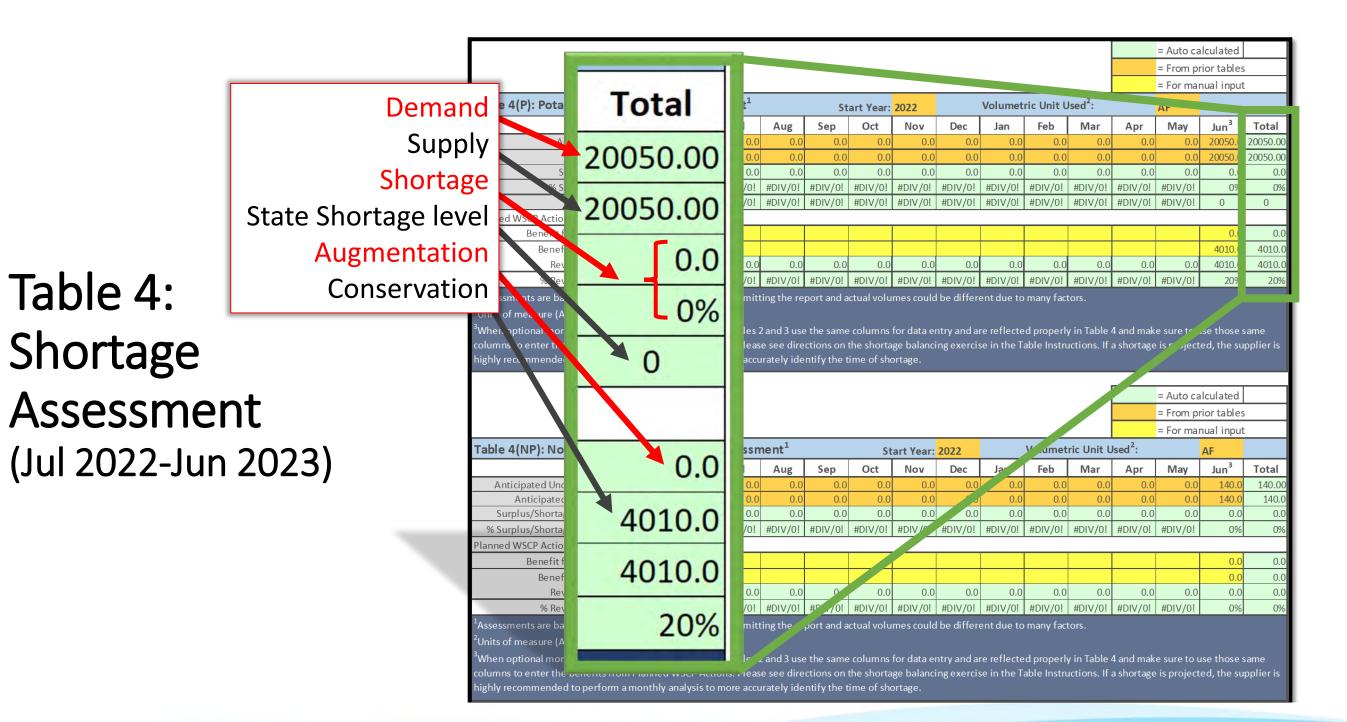
<sup>3</sup>When opting to provide other than monthly volumes (bi-monthly, quarterly, or annual), please see directions on entering data for Projected Water Supplies in the Table Instructions.

Optional (for comparison purposes)	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Total
eAR Reported Total Water Supplies													0

## Table 4: Shortage Assessment (Jul 2022-Jun 2023)

Anticipated Unconstrained Demand	Formal input   Fable 4(P): Potable Water Shortage Assessment	Start Year:   2022   Volumetric Unit Used   Sep   Oct   Nov   Dec   Jan   Feb   Mar   Apr   May	manual inpu y Jun³ 0.0 20050.0 0.0 20050.0	Jun <sup>3</sup>	Tot .0 20050
Start Year: 2022   Volumetric Unit Used	Start Year: 2022   Volumetric Unit Used   Start Year: 2022   Volumetric Unit Used   Start Year: 2022   Sta	Potable Water Shortage Assessment <sup>1</sup> Start Year:         2022         Volumetric Unit Used <sup>2</sup> :         AF           Anticipated Unconstrained Demand         0.0         0.	y Jun <sup>3</sup> 0.0 20050.0 0.0 20050.0	Jun <sup>3</sup>	Tot .0 20050
Jul   Aug   Sep   Oct   Nov   Dec   Jan   Feb   Mar   Apr   May   Jun   Jun   Anticipated Unconstrained Demand   0.0	Jul   Aug   Sep   Oct   Nov   Dec   Jan   Feb   Mar   Apr   May   Jun   Total Anticipated Unconstrained Demand   0.0	Jul         Aug         Sep         Oct         Nov         Dec         Jan         Feb         Mar         Apr         May           Anticipated Unconstrained Demand         0.0         0	0.0 20050.0 0.0 20050.0	20050.0	20050
Anticipated Unconstrained Demand 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	Anticipated Unconstrained Demand	Anticipated Unconstrained Demand         0.0 <th< th=""><th>0.0 20050.0 0.0 20050.0</th><th>20050.0</th><th>20050</th></th<>	0.0 20050.0 0.0 20050.0	20050.0	20050
Anticipated Total Water Supply  Anticipated Total Water Supply  Anticipated Total Water Supply  Surplus/Shortage w/o WSCP Action  O.0  O.0  O.0  O.0  O.0  O.0  O.0  O.	Anticipated Total Water Supply	Anticipated Total Water Supply 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.	0.0 20050.0		.0 2005
Surplus/Shortage w/o WSCP Action	Surplus/Shortage w/o WSCP Action   0.0	Surplus/Shortage w/o WSCP Action 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.		20050.0	
Surplus/Shortage w/o WSCP Action	Surplus/Shortage w/o WSCP Action		0.0		
State Standard Shortage Level #DIV/0!	State Standard Shortage Level #DIV/OI		0.0	0.0	.0
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% Revised Surplus/Shortage with WSCP #DIV/O! #	% Revised Surplus/Shortage with WSCP #DIV/O! #	Benefit from WSCP: Demand Reduction	4010.0	4010.0	.0 40
Assessments are based on best available data at time of submitting the report and actual volumes could be different due to many factors.  Units of measure (AF, CCF, MG) must remain consistent.  When optional monthly volumes aren't provided, verify Tables 2 and 3 use the same columns for data entry and are reflected properly in Table 4 and make sure to use those sar olumns to enter the benefits from Planned WSCP Actions. Please see directions on the shortage balancing exercise in the Table Instructions. If a shortage is projected, the supplicitly recommended to perform a monthly analysis to more accurately identify the time of shortage.    Auto calculated	Assessments are based on best available data at time of submitting the report and actual volumes could be different due to many factors.  Units of measure (AF, CCF, MG) must remain consistent.  When optional monthly volumes aren't provided, verify Tables 2 and 3 use the same columns for data entry and are reflected properly in Table 4 and make sure to use those same olumns to enter the benefits from Planned WSCP Actions. Please see directions on the shortage balancing exercise in the Table Instructions. If a shortage is projected, the supplier ighly recommended to perform a monthly analysis to more accurately identify the time of shortage.	Revised Surplus/Shortage with WSCP         0.0         <	0.0 4010.0	4010.0	0 40
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	Benefit from WSCP: Supply Augmentation 0.0	er the benefits from Planned WSCP Actions. Please see directions on the shortage balancing exercise in the Table Instructions. If a shortage is project ended to perform a monthly analysis to more accurately identify the time of shortage.    Auto C	o calculated m prior table: manual inpu  AF  y Jun³ 0.0 140.0 0.0 140.0 0.0 0.0 0.0 0.0	ulated or tables ral input  F Jun³ 140.0 0.0 0%	e same supplier description de
Benefit from WSCP: Demand Reduction 0.0		er the benefits from Planned WSCP Actions. Please see directions on the shortage balancing exercise in the Table Instructions. If a shortage is project ended to perform a monthly analysis to more accurately identify the time of shortage.    Auto C	o calculated m prior table: manual inpu  AF y Jun³ 0.0 140.0 0.0 140.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ulated or tables ral input  F Jun³ 140.0 0.0 0%	e same supplier  Tot  144  100  144  100  100  100  100
	Benefit from WSCP: Demand Reduction 0.0	er the benefits from Planned WSCP Actions. Please see directions on the shortage balancing exercise in the Table Instructions. If a shortage is project ended to perform a monthly analysis to more accurately identify the time of shortage.    Auto C	o calculated m prior table: manual inpu  AF y Jun³ 0.0 140.0 0.0 140.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	ulated or tables ral input  F Jun³ 140.0 0.0 0.0 0.0	e same supplier  Tot  1.0  14  1.0  1.0  1.0  1.0  1.0  1.0

highly recommended to perform a monthly analysis to more accurately identify the time of shortage.



## Table 5: Planned Shortage Response Actions (Jul 2022-Jun 2023)

Table 5: Planne	d Water Shortage Response Actions		July 1,	2022	to June 30,	2023
Anticipated Shortage Level	ACTIONS: Demand Reduction, Supply Augmentation, and Other Actions.	ls action already	How much going to re shortag	educe the	res pons anticipa	s shortage se action ated to be mented?
Drop-down List of State Standard Levels (1 - 6) and Level 0 (No Shortage)	(Drop-down List)  These are the only categories that will be accepted by the WUEdata online submittal tool. Select those that apply.	being implemente d? (Y/N)	Enter Amount	(Drop- down List) Select % or Volume Unit	Start Month	End Month
Add additional re	ows as needed					
2	CII - Lodging establishment must offer opt out of linen service	Yes	0.5	%	July	June
2	CII - Restaurants may only serve water upon request	Yes	0.5	%	July	June
2	Decrease Line Flushing	Yes	0.5	%	July	June
2	Expand Public Information Campaign	Yes	15-20	%	July	June
2	Increase Water Waste Patrols	Yes	0.5	%	July	June
2	Landscape - Limit landscape irrigation to specific times	Yes	0.5	%	July	June
2	Landscape - Restrict or prohibit runoff from landscape irrigation	Yes	0.5	%	July	June
2	Offer Water Use Surveys	Yes	0.5	%	July	June
2	Other - Customers must repair leaks, breaks, and malfunctions in a timely manner	Yes	0.5	%	July	June
2	Other - Prohibit use of potable water for washing hard surfaces	Yes	0.5	%	July	June
2	Other - Require automatic shut of hoses	Yes	0.5	%	July	June
2	Other Actions (describe in Notes at bottom of Table)	Yes	0.5	%	July	June
2	Provide Rebates for Landscape Irrigation Efficiency	Yes	0.5	%	July	June
2	Provide Rebates for Turf Replacement	Yes	0.5	%	July	June
2	Provide Rebates on Plumbing Fixtures and Devices	Yes	0.5	%	July	June

#### **NOTES:**

Anticipated Shortage Level: On June 29, 2021, the Santa Rosa City Council declared a City Stage 3 water shortage (mandatory communitywide reduction of 20%). Santa Rosa's Stage 3 shortage falls within the State's Level 2 shortage category.

- -- Santa Rosa purchases about 93% of its water from Sonoma County Water Agency (Sonoma Water). Sonoma Water has informed its retail customers that, in order to help preserve surface water supply, Sonoma Water is filing a TUCP with the State Board that includes a voluntary 20 percent reduction in Russian River diversions from July through October 2022, consistent with the Governor's Executive Order N-7-22 and the developing emergency regulation to implement the shortage response actions for a shortage level up to 20 percent (State Level 2).
- -- Santa Rosa anticipates remaining in a City Stage 3 shortage through the end of calendar year 2022 (and beyond if dry conditions continue), to ensure adequate supply for the following year.

Other Actions (describe): In addition to the actions listed in the table above, Santa Rosa offers the following to all customers: Water efficiency information and assistance in English and Spanish; Free water efficiency workshops and DIY online videos; Free high efficiency aerators, showerheads, and toilet leak detection kits; WaterSmart AMI portal; and Rebates for residential and commercial clothes washers, high efficiency urinals, grey water systems, rain harvest systems, weather-based irrigation timers upgrades, spray to drip irrigation conversions, residential recirculating hot water pumps, pool covers, pool removal, service split (to separately meter domestic/indoor use from irrigation use), and demonstrated sustained reductions achieved through other means proposed by customer. Santa Rosa uses AMI data to identify high water uses (and alerts customer via letters) and leaks (and follows up with water waste enforcement).

		1		July 1	, <mark>2022</mark>	to June 30,	2023
CII - Lodging establishment must offer opt out of linen service				How much	n is action		s shortage nse action
CII - Restaurants may only serve water upon request			ls action			anticipa	ated to be mented?
Decrease Line Flushing		Augmentation, and Other Actions.	already		<u> </u>	imple	menteur
Expand Public Information Campaign		wn List) be accepted by the WUEdata online	being implemente		(Drop-		
Increase Water Waste Patrols		t those that apply.	d? ( <b>Y/N)</b>	Enter Amount	Select %	Start Month	End Month
Landscape - Limit landscape irrigation to specific times				How much is action going to reduce the shortage gap?  In addy ing mente in the ingention of			
Landscape - Restrict or prohibit runoff from landscape irrigation							
Offer Water Use Surveys		out of linen service n request	Yes Yes			July July	June June
Other - Customers must repair leaks, breaks, and malfunctions in a tir	mely manner		Yes	0.5		July July	June June
Other - Prohibit use of potable water for washing hard surfaces	Water effic	ciency info and help	in Engl	ish & S	Spanis	h	June June
Other - Require automatic shut of hoses		efficiency workshop	•		•	,	June June
Other Actions (describe in Notes at bottom of Table)	_	efficiency aerators, s				<u>'</u>	June June
Provide Rebates for Landscape Irrigation Efficiency	Free toilet	leak detection kits				<u>/</u>	June June
Provide Rebates for Turf Replacement	AMI data a	nd water smart port	tal				June June
Provide Rebates on Plumbing Fixtures and Devices	Rebates fo	r					June
Anticipated Shortage Level 20%). Santa Rosa's Stage 3 s Santa Rosa purchases about order to help preserve surfact diversions from July through shortage response actions fo	• Gro	othes washers, Urina ey water systems in harvest systems				iers Rus	s that, in ssian River ement the
Santa Rosa anticipates ren		ry to drip irrigation o	convers	sions		ารน	ure

adequate supply for the followin

Other Actions (describe): In ad

assistance in English and Spanis

kits; WaterSmart AMI portal; and

weather-based irrigation timers

(to separately meter domestic/in

Santa Rosa uses AMI data to ide

Recirculating hot water pumps

Pool covers and pool removals

Service split

Sustained reductions

21

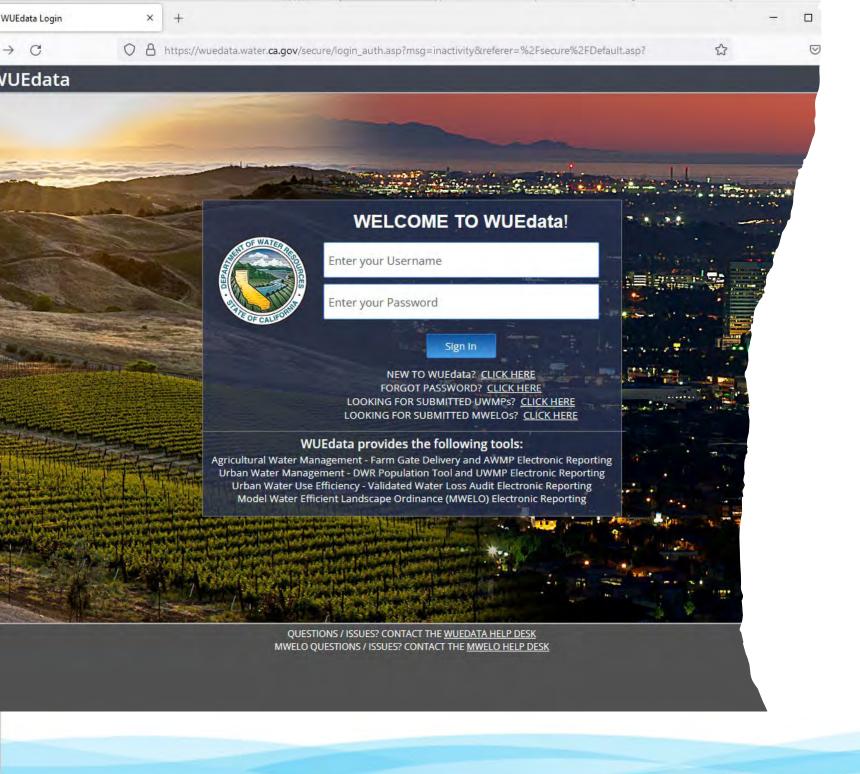
formation and

eak detection

l, service split

t systems,

customer.



# Final Assessment due July 1, 2022

- No substantive changes anticipated in water supply outlook.
- No changes anticipated in water demand estimates.
- No changes anticipated in water shortage response actions.

# Santa Rosa Water is here to help you save!

For WaterSmart Resources, visit:

srcity.org/WaterSmart

For the latest drought updates, visit: <a href="mailto:srcity.org/SaveWater">srcity.org/SaveWater</a>

