



WATER CONSERVATION UPDATE

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Senior Engineer
January 18, 2022



DECEMBER CONSERVATION UPDATE



YES
IT RAINED
NO
THE DROUGHT
IS NOT OVER

KEEP UP YOUR
CONSERVATION
EFFORTS

Save Water Every Day

THIS YEAR MARKS THE SECOND DRIEST YEAR ON RECORD
California needs 140% of (normal) precipitation to reach average runoff conditions. "There are relatively few years in California's historical record in which that has occurred... the odds aren't good," said Jeanine Jones, the drought manager at California Department of Water Resources.

WHAT CAN YOU DO?

- Take shorter showers—play music and do a three-song limit (aim for five minutes)
- Wash only full laundry and dishwasher loads
- Turn off the tap when brushing your teeth
- Scrape leftover food from plates and pans into the trash instead of rinsing in the sink
- Collect your warm-up shower water with a bucket and use to water plants

For more water saving ideas and drought information, visit www.dsrds.com/outreach/water-conservation

- Weather and climate
- Public outreach on conservation
- Water use reduction update
- State level activity

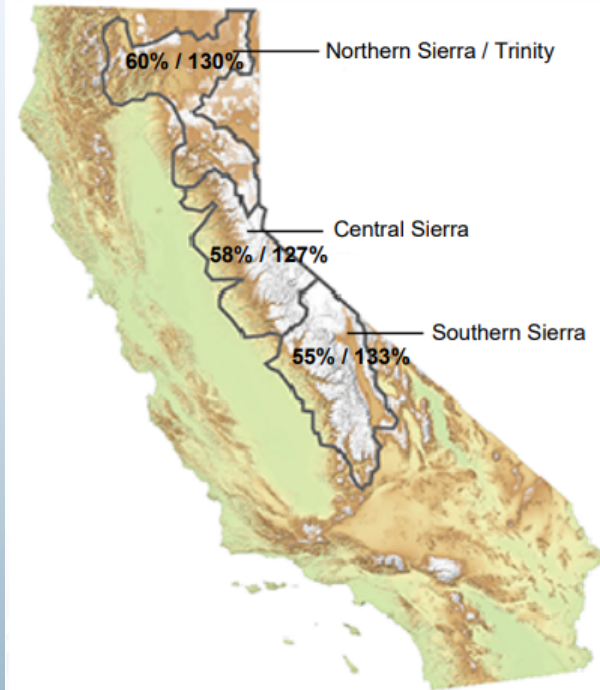
WEATHER/CLIMATE UPDATE

- 7" of precipitation
- Snow water content above 100% Normal in early January, but halfway on the seasonal average
- Anticipated possible dry winter

Month	Year	Precipitation, inches	Average Air Temp °F	Maximum Air Temp °F
November	2020	0	51	86
	2021	0.69	54	77
December	2020	1.3	47	73
	2021	6.24	47	70

CURRENT REGIONAL SNOWPACK FROM AUTOMATED SNOW SENSORS

% of April 1 Average / % of Normal for This Date



Statewide Average: 58% / 130%

NORTH	
Data as of January 12, 2022	
Number of Stations Reporting	28
Average snow water equivalent (Inches)	17.2
Percent of April 1 Average (%)	60
Percent of normal for this date (%)	130

CENTRAL	
Data as of January 12, 2022	
Number of Stations Reporting	42
Average snow water equivalent (Inches)	17.0
Percent of April 1 Average (%)	58
Percent of normal for this date (%)	127

SOUTH	
Data as of January 12, 2022	
Number of Stations Reporting	30
Average snow water equivalent (Inches)	14.2
Percent of April 1 Average (%)	55
Percent of normal for this date (%)	133

STATE	
Data as of January 12, 2022	
Number of Stations Reporting	100
Average snow water equivalent (Inches)	16.2
Percent of April 1 Average (%)	58
Percent of normal for this date (%)	130

STATE RESERVOIR CONDITIONS

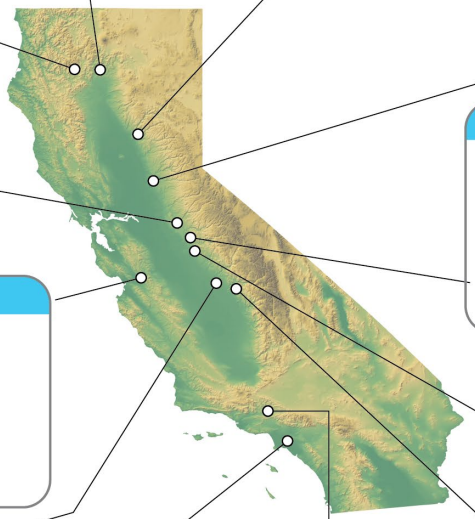
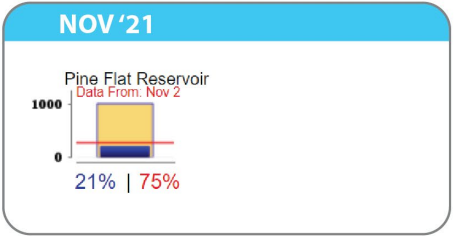
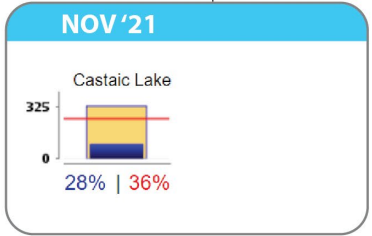
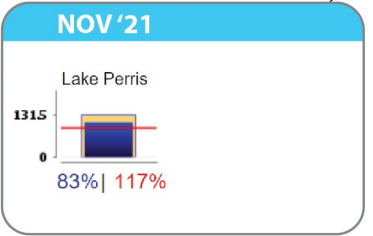
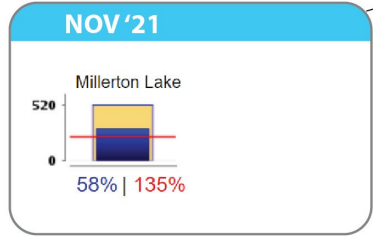
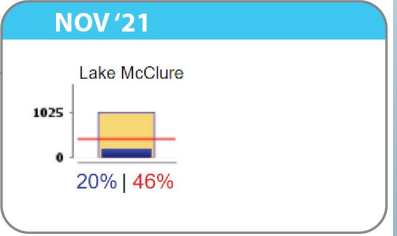
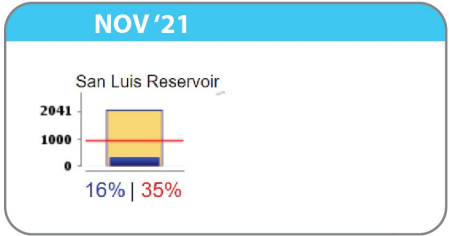
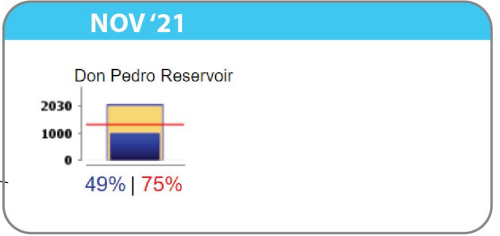
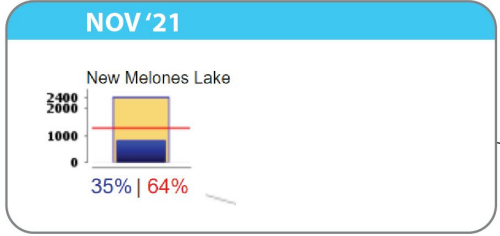
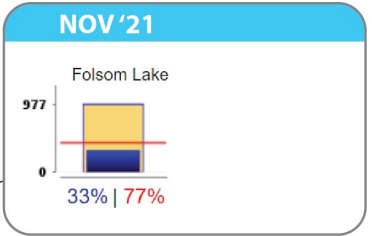
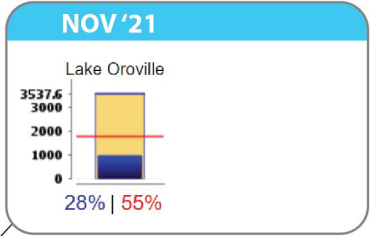
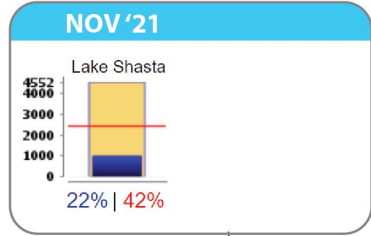
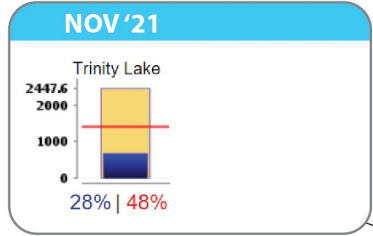
LEGEND

- Red Line: Historic level for date
- Gold Bar: Total Reservoir Capacity
- Blue Bar: Storage Level for date

Capacity (TAF)

Historical Avg Mark

% of Capacity | % of Historical Average



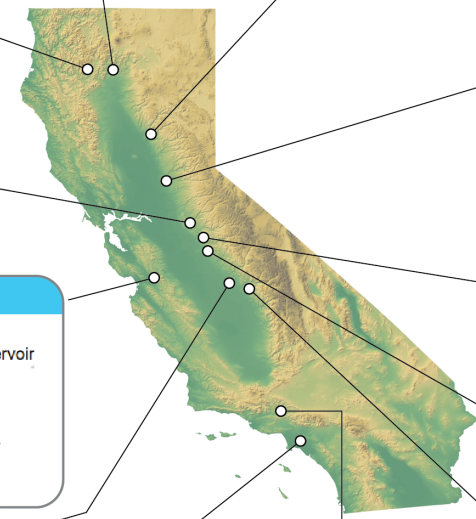
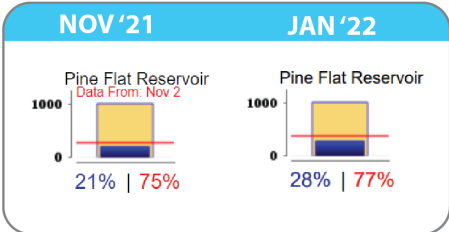
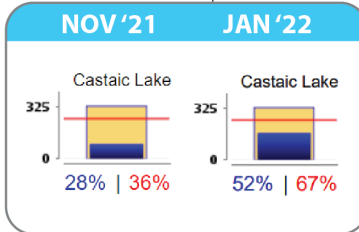
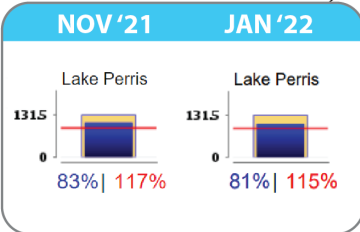
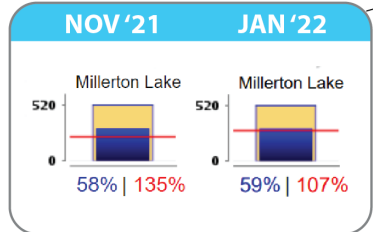
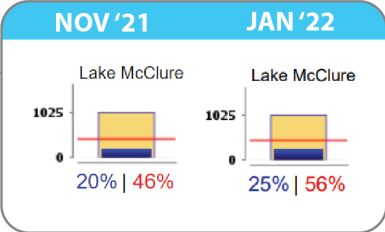
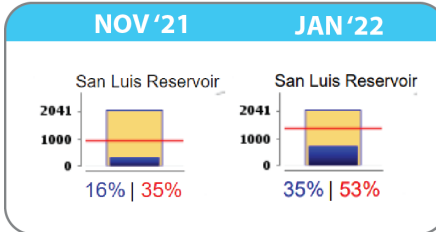
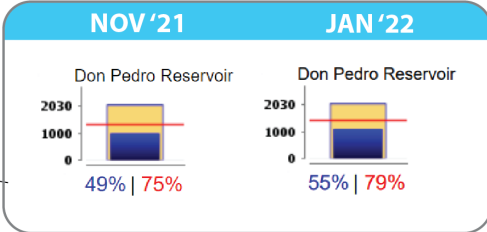
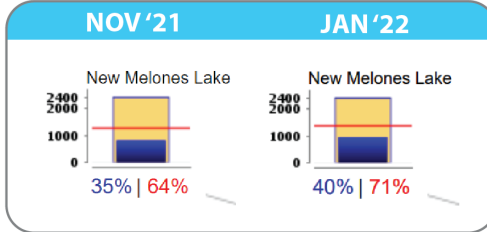
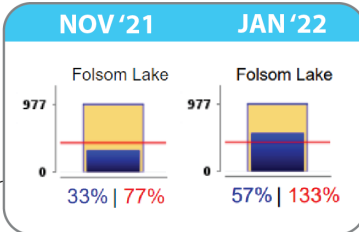
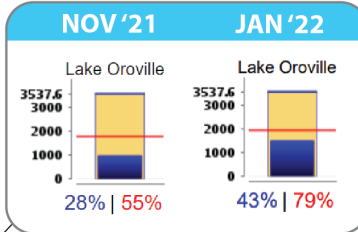
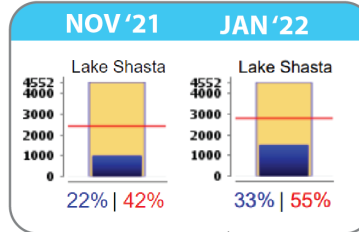
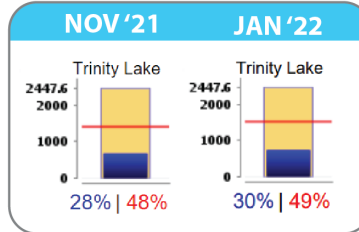
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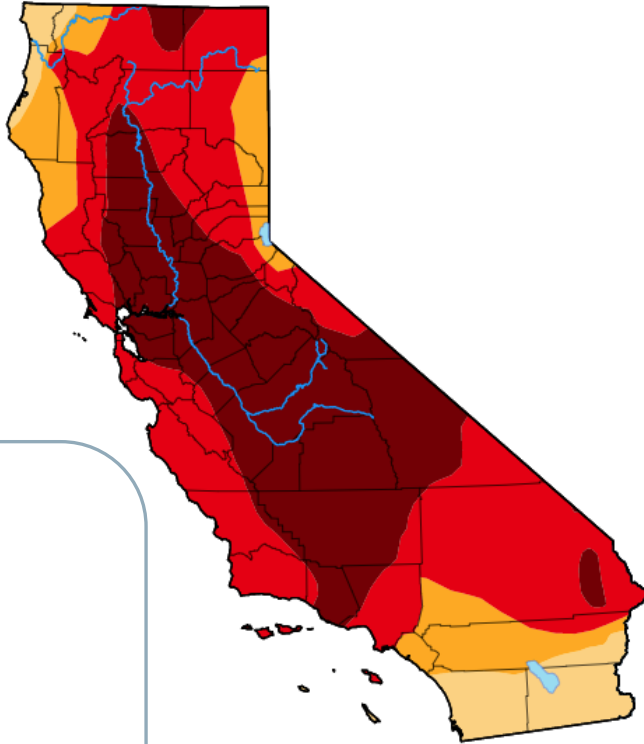
Capacity (TAF)

% of Capacity | % of Historical Average

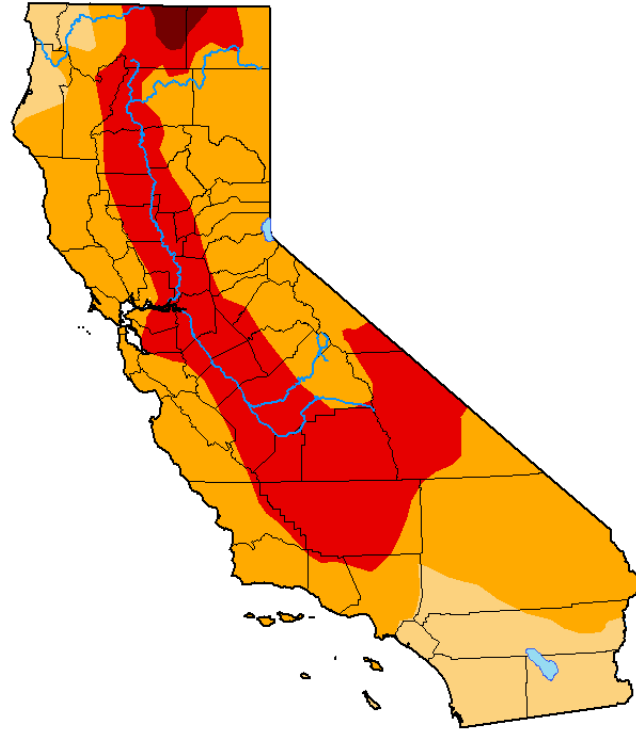


CURRENT DROUGHT CONDITIONS

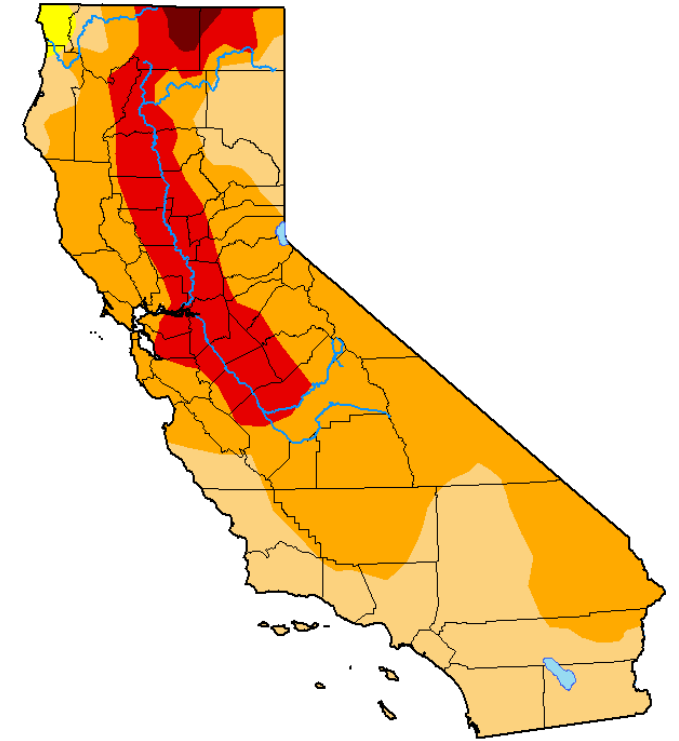
November 3, 2021



December 28, 2021



January 4, 2022



Intensity

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)
- No Data

Authors

United States and Puerto Rico Author(s):
Adam Hartman, NOAA/NWS/NCEP/CPC

Pacific Islands and Virgin Islands Author(s):
Curtis Riganti, National Drought Mitigation Center

PUBLIC OUTREACH

- Monthly e-Newsletter highlighting conservation information
- Social media with water-saving tips, for example play 5 minutes of holiday music as a shower timer
- Reminder to turn off irrigation systems
- Continuously promoting rebate information
- Promote Aquahawk Customer Portal sign-up information
- Monthly collaboration with Tri-Valley Drought Communication Team
 - Zone 7 shared their TV commercial broadcast video and 101.7 KKIQ radio ads

Water Conservation Improves

Hello, Kelly

Jul 4

Total Use during this time pe

Minimum Us for a single Day

Average Us per Day

Maximum for a single

Water: Waste Not, Want Not

Drought Remains Reality Despite Rain

Prepping for

Tis the s

Tri-Valle

water v

Lake Oroville, a large part of the Tri-Valley's water supply, at 26% total capacity in July 2021. (Photo courtesy the California Department of Water Resources)

Mandatory 15% [water conservation](#) is still in effect. While rain is helpful, the California Department of Water Resources estimates the state would need 140% of average precipitation to replenish water stored in reservoirs.

What's New: The DSRSD Board of Directors approved [Stage 2 Water Shortage rates](#), effective November 5.

- The cost of a unit of water (748 gallons) increases from \$1.32 to \$1.66 per unit.
- Without conservation, the average single-family water bill increase \$3-40 monthly (\$6.80 per bimonthly water bill)

ZONE 7 WATER CONSERVATION CAMPAIGN

- Radio ads



ZONE 7 WATER AGENCY

HOW WE WORK | OUR WATER & SERVICES | PROJECTS & REPORTS | FOR BUSINESSES | DIVE IN, LEARN MORE | NEWS & EVENTS

SEARCH

DIVE IN, LEARN MORE

- Kid Zone
- For Teachers
- Local, State & Federal Resources
- Conservation and Rebates**
- About Water Conservation
- Rebate Programs
- Water Wise Wendy

Conservation

RESOURCES & REBATES

Water reliability is the backbone of Zone 7's relationship with the Tri-Valley community. We are the trusted conveyor of surface water for the region from the State Water Project, and the chosen guardian of our groundwater basin – roles we do not take lightly. We have a responsibility to our region not only to supply today's residents with water, but to ensure that future generations have that same level of trust in Zone 7.

But we can't do it alone. We need our community's help, especially during drought years. Practical tools are the best way we can work together to protect our water ecosystem. In partnership with our customers and partners, we provide a number of resources and rebates to empower our customers in their water conservation efforts.

On September 1st, the Zone 7 Board declared a Drought Emergency and Stage 2 Water Conservation. This includes mandatory 15% conservation from all Zone 7 retailers. Zone 7 has also declared a Drought Emergency and will expedite implementation of construction projects to improve water supply reliability.

Mandatory conservation for the Tri-Valley is still in effect. Visit our drought page to find water use restrictions for your area.

[Learn more](#)

Got It!

WATER USE AND CONSERVATION TARGET

Figure 1. DSRSD System-wide Potable Water Use Reduction

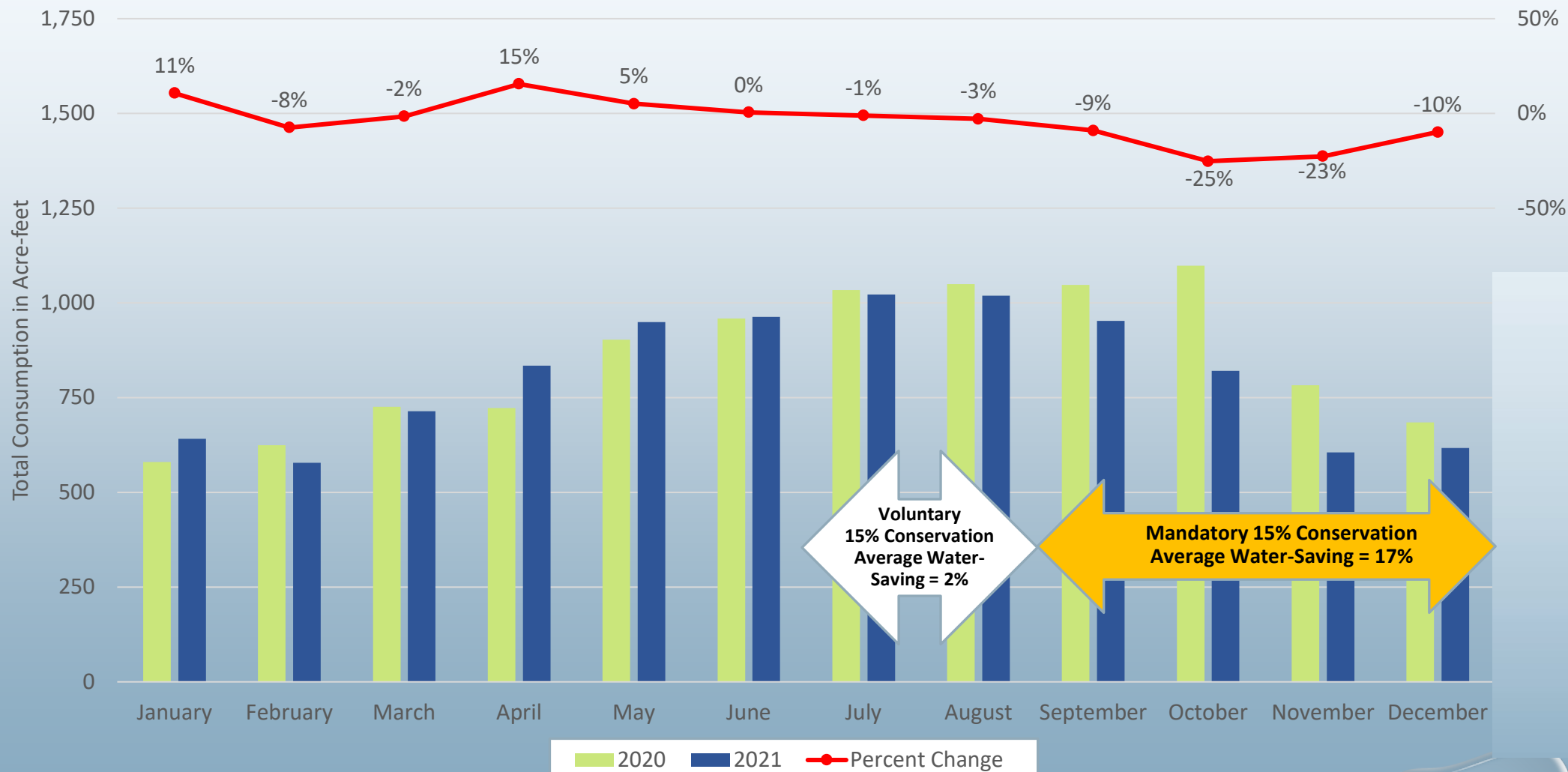
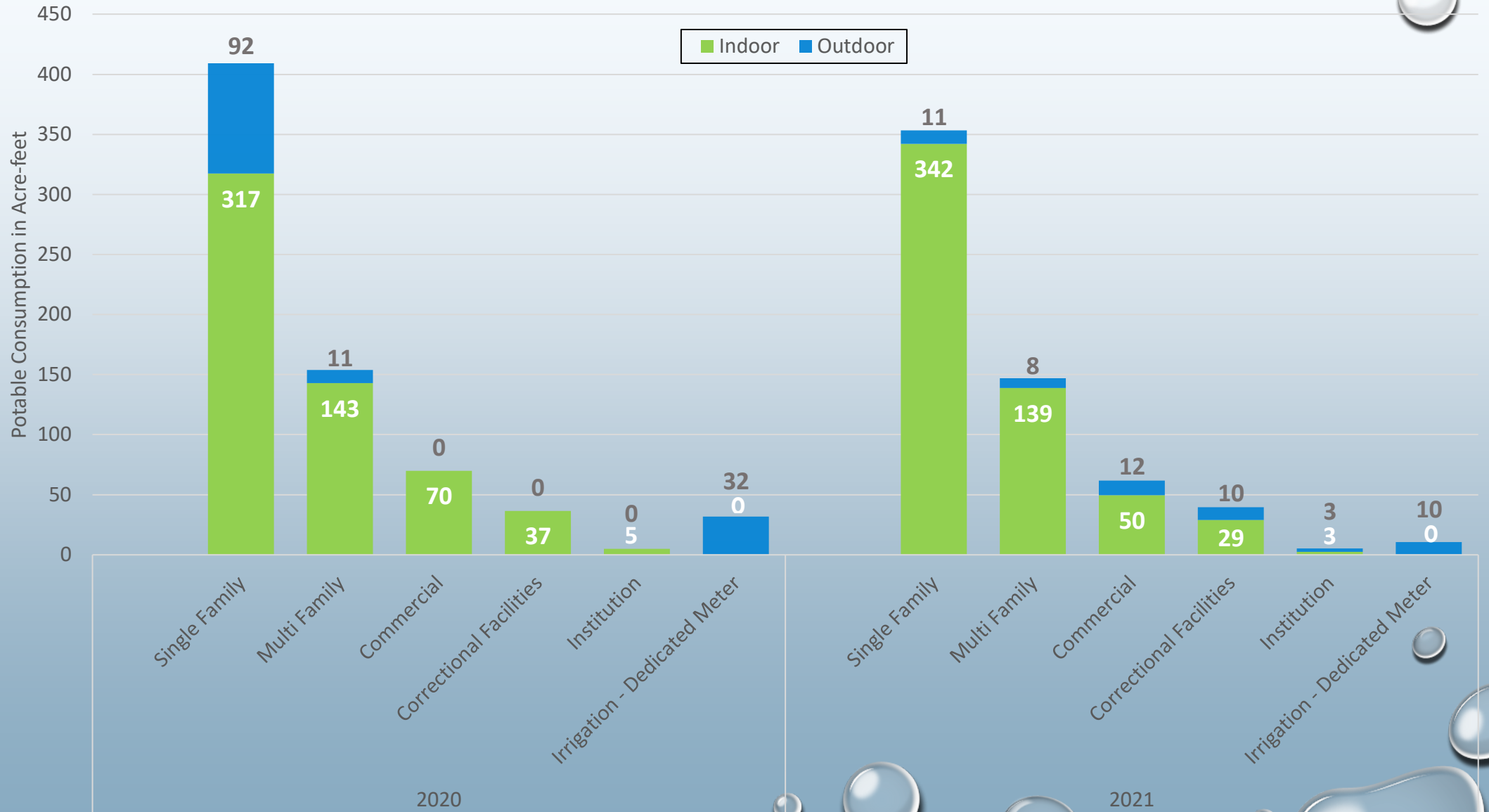


Figure 2. December 2020 versus December 2021 Consumption by Customer Types



STATE ACTIVITY

- November 30, 2021 - State Water Board issued a public notice for consideration to adopt proposed drought emergency regulations to prevent water waste
- January 4, 2022 - State Water Board adopted the proposed emergency regulations under the California Code of Regulations, Title 23, section 995.
- Regulation was submitted to the Office of Administrative Law for approval --- **Not in effect yet**
- Regulation will remain **in effect for one year** unless the State Water Board determines that it is no longer necessary due to changed conditions or renews the regulation due to continued drought conditions.

Majority of prohibitions are included in DSRSD Water Shortage Contingency Plan and District Code Section 4.20.030



NEXT STEPS

- In the process of getting an agreement with District customer portal vendor to create conservation page

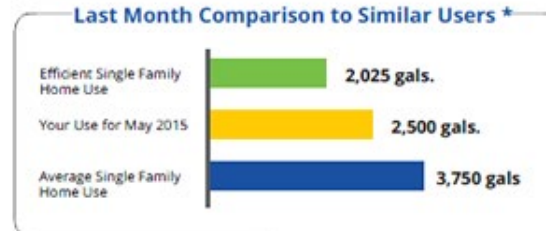
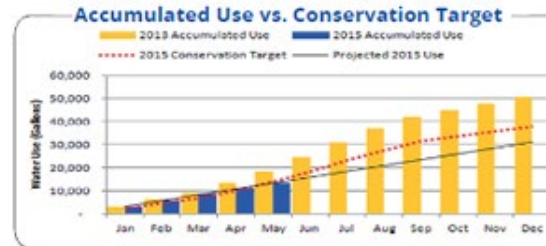
Your Water Utility's Logo Here



Water Use Report

Account # 1234 5678-001
Jeremy Blake
354 Main Street
Anywhere, CO 80909

Sign up for e-mail reports at:
www.AquaHawkAlerting.com



Report Period: 5/1/15 - 5/31/15

May Use - 2,500 gals.
Conservation Target = 3,750 gals.
You saved = 1,250 gals.

Annual Use = 13,300 gals.
Conservation Target = 13,875 gals.
You saved = 575 gals.

* NOTE: Similar users are other single family homes in the AquaHawk Water District with an equivalent number of occupants and landscape area.

Utility Custom Message

The utility can enter a message to its customers here. Up to seven lines...
The utility can enter a message to its customers here. Up to seven lines...
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The utility can enter a message to its...



Water Savings Rebates & Programs

AquaHawk Utility offers a several programs for reducing your water usage:

- Rebates:** Save water and money with conservation rebates
- Turf Removal:** Get paid to remove your lawn
- Free Home Evaluations:** Get a FREE home water survey

Visit our website at: www.WaterUtility.com



Create an Online Account

AquaHawk Utility offers a FREE customer portal where you can see your water usage, useful comparisons, and money-saving information.

Register at:
www.AquaHawkAlerting.com

You'll need a copy of your water bill.

NEXT STEPS

- Review how the State drought emergency regulations align with District's regulations and identify if modification is needed





Q & A