

Water, water everywhere: Wet winter boosts California's reservoirs

April 18 2023



Lake Oroville is looking a lot healthier after a wet California winter than it was last year.

A very wet winter has left California's reservoirs looking healthier than they have for years, as near-record rainfall put a big dent in a lengthy drought.

A series of atmospheric rivers—high altitude ribbons of moisture—chugged into the western United States, dousing a landscape that had been baked dry by years of below-average rain.

The state's 40 million residents had chafed under repeated warnings to save [water](#), with restrictions on irrigating gardens that left lawns dead or dying.

Vegetation dried up, with hillsides a parched brown, and ripe for wildfires.

Reservoirs held just a fraction of their capacity, with shorelines retreating to reveal dust, rocks and the remains of sunken boats.

But then the winter of 2022-23 roared into action, and trillions of gallons of water fell from the skies.

Rivers and creeks that had slowed to a trickle or even vanished entirely sprang to life.

Lake Tulare, in the Central Valley, which had dried up 80 years earlier, began to re-emerge, as all that rain had to find somewhere to go.

Mountains were buried under hundreds of inches (many meters) of snow, and the state's ski resorts began talking about a bumper season that could last all the way into July.



Lake Oroville now has over 3.1 million acre feet of water in it -- up from just 1.7 million a year ago.

Official statistics from the US Drought Monitor released last week show around two-thirds of California is completely out of the drought.

Less than 10 percent of the state is still technically in a drought, with the remainder classed as "abnormally dry."

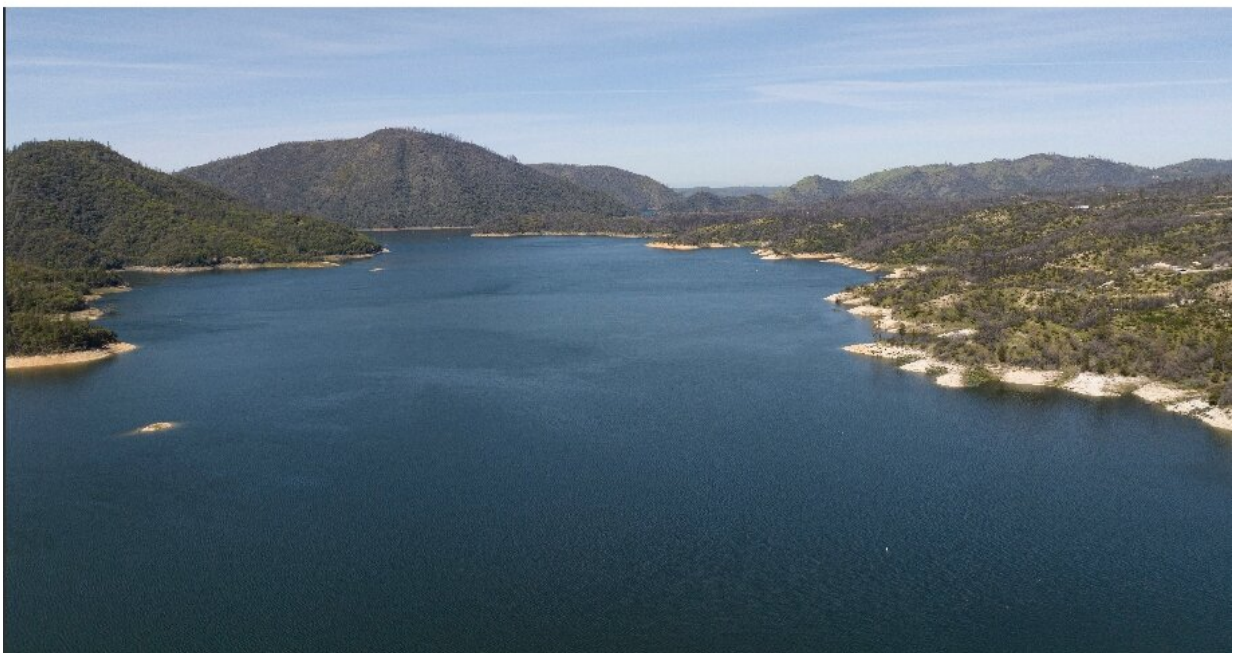
A year ago the entire state was in a [drought](#).

California's Department of Water Resources says major reservoirs are overtopping their average capacity.

Lake Oroville, one of the most important bodies of water in the state, is now around 88 percent full, storing almost twice the amount of water as it did a year ago.

AFP photographs show the once shriveled reservoir looking much closer to its original shoreline.

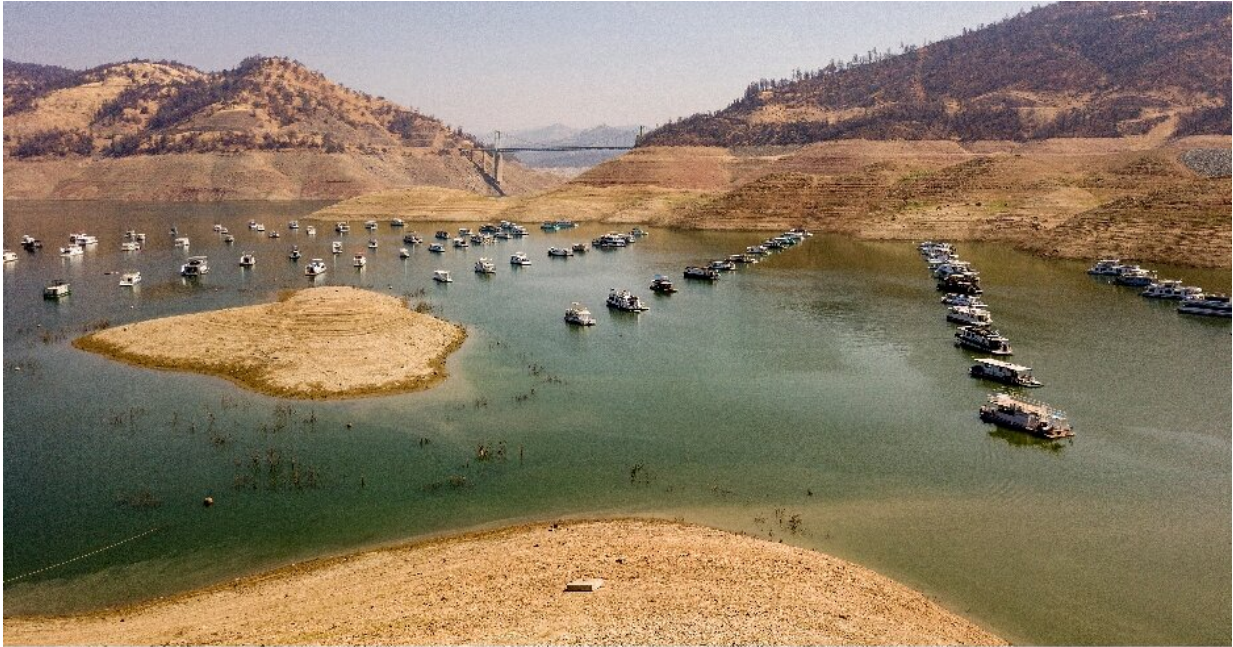
Pictures taken less than two years apart show a marked contrast—in September 2021, a puny stream trickles through a valley, but this year the valley is full of water.



Lake Oroville seen in September 2021 and in April 2023.



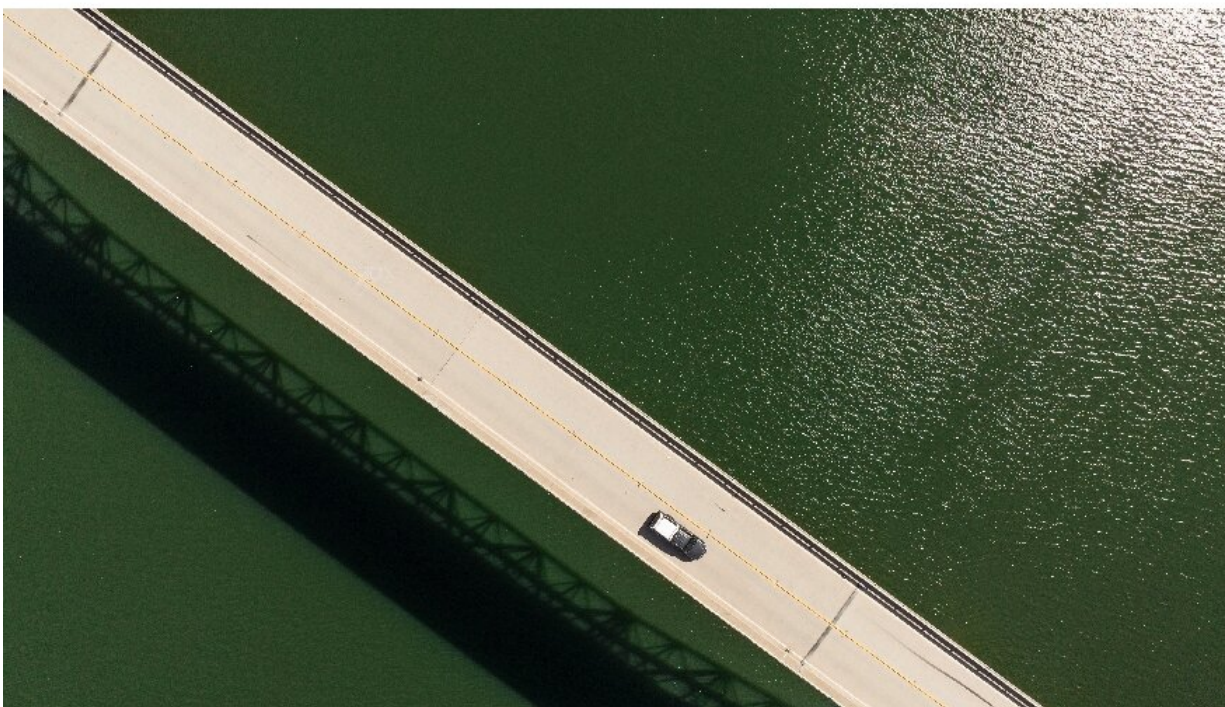
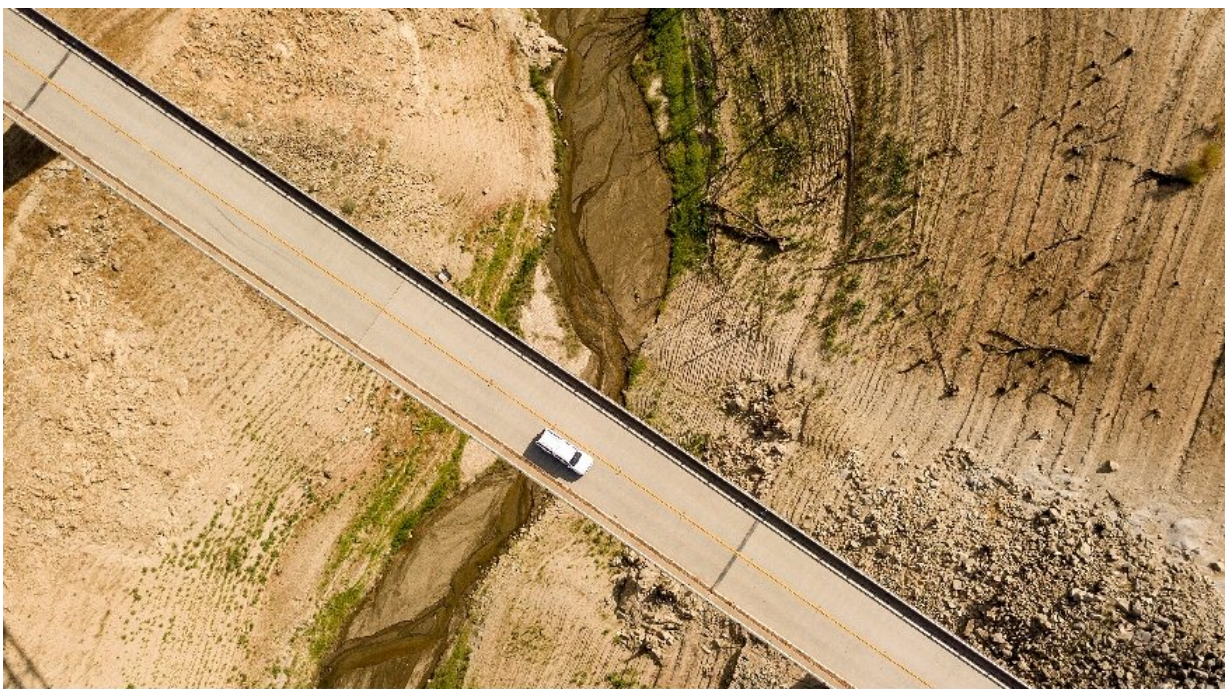
In September 2021, this boat launch ramp was useless.



A series of atmospheric rivers dumped trillions of gallons (liters) of water on California, replenishing its reservoirs.



The Enterprise Bridge now straddles a decent-sized body of water, where in September 2021 it went over a little stream.



Less than 10 percent of California is technically in a drought after the winter's rains.



Water is released from Lake Oroville down a spillway.

A boat ramp that once sat uselessly high above the water line, seen in a picture taken Sunday has water lapping half way up.

The Enterprise Bridge now spans a body of water, where earlier its footings stood starkly in the dusty bank, with just a small creek passing underneath.

Wet winters are not new in California, but scientists say human-cause climate change is exacerbating the so-called "weather whiplash" that sees very hot and dry periods give way to extremely soggy months.

And [water managers](#) caution that while there is a lot of wet around at the moment, Californians cannot afford to waste water.

Adel Hagekhalil of the Metropolitan Water District that serves Southern California told Spectrum News 1 that people should still conserve their supplies.

"We need to save and build the savings... so when we have another dry year, and hot days and dry days, we can respond," he said.

© 2023 AFP

Citation: Water, water everywhere: Wet winter boosts California's reservoirs (2023, April 18)
retrieved 7 May 2024 from

<https://phys.org/news/2023-04-winter-boosts-california-reservoirs.html>

<p>This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.</p>
--