

# Forecast for spring: Nasty drought worsens for much of US



FILE - This Feb. 17, 2021 file photo shows an empty irrigation canal at a tree farm in Corrales, N.M., with the Sandia Mountains in the background, as much of the West is mired in drought, with New Mexico, Arizona, Nevada, and Utah being among the hardest hit. The National Oceanic and Atmospheric Administration's official spring outlook Thursday, March 18, 2021, sees an expanding drought with a drier than normal April, May, and June for a large swath of the country from Louisiana to Oregon. including some areas hardest hit by the most severe drought. And nearly all of the continental United States is looking at warmer than normal spring, except for tiny parts of the Pacific Northwest and southeast Alaska, which makes drought worse. (AP Photo/Susan Montoya Bryan)

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With nearly two-thirds of the United States abnormally dry or worse, the government's spring forecast offers little hope for relief, especially in the West where a devastating megadrought has taken root and worsened.

Weather service and agriculture officials warned of possible water use cutbacks

in California and the Southwest, increased wildfires, low levels in key reservoirs such as Lake Mead and Lake Powell, and damage to wheat crops.

The National Oceanic and Atmospheric Administration's official spring outlook Thursday sees an expanding drought with a drier than normal April, May, and June for a large swath of the country from Louisiana to Oregon. including some areas hardest hit by the most severe drought. And nearly all of the continental United States is looking at warmer than normal spring, except for tiny parts of the Pacific Northwest and southeast Alaska, which makes drought worse.

"We are predicting prolonged and widespread drought," National Weather Service Deputy Director Mary Erickson said. "It's definitely something we're watching and very concerned about."

NOAA expects the spring drought to hit 74 million people.

Several factors go into worsening drought, the agency said. A La Nina cooling of parts of the central Pacific continues to bring dry weather for much of the country, while in the Southwest heavy summer monsoon rains failed to materialize. Meteorologists also say the California megadrought is associated with long-term climate change.

Thursday's national Drought Monitor shows almost 66% of the nation is in an abnormally dry condition, the highest mid-March level since 2002. And forecasters predict that will worsen, expanding in parts of Florida, Texas, Oklahoma, Kansas, Nebraska, Colorado, Wyoming, and South Dakota, with small islands of relief in parts of the Great Lakes and New England.

More than 44% of the nation is in moderate or worse drought, and nearly 18% is in extreme or exceptional drought — all of it west of the Mississippi River. Climate scientists are calling what's happening in the West a "megadrought" that started in 1999.

"The nearly West-wide drought is already quite severe in its breadth and intensity, and unfortunately it doesn't appear likely that there will be much relief this spring," said UCLA climate scientist Daniel Swain, who writes the Weather West blog and isn't part of the NOAA outlook. "Winter precipitation has been much below average across much of California, and summer precipitation reached record low levels in 2020 across the desert Southwest."

With the Sierra Nevada snowpack only 60% of normal levels, U.S. Department of Agriculture meteorologist Brad Rippey said “there will be some water cutbacks and allocation cutbacks in California and perhaps other areas of the Southwest” for agriculture and other uses. It will probably hit nut crops in the Golden State.

Winter and spring wheat crops also have been hit hard by the western drought with 78% of the spring wheat production area in drought conditions, Rippey said.

The dry, warm conditions the upcoming months likely will bring “an enhanced wildfire season,” said Jon Gottschalck, chief of NOAA’s prediction branch.

Swain of UCLA said the wildfires probably will not be as bad as 2020 because so much vegetation already has burned and drought conditions retarded regrowth. Last year, he said, wildfire was so massive it will be hard to exceed, though this fire season likely will be above average.

Drought and heat breed a vicious cycle. When it’s this dry, less of the sun’s energy goes to evaporating soil moisture because it’s not as wet, Swain said. That leaves more of the energy to heat up the air, and the heat makes the drought worse by boosting evaporation.

“Across the West, it is clear that climate change has increased temperatures essentially year-round, which has decreased mountain snowpack and increased evaporation — substantially worsening the severity of the ongoing drought conditions,” he said.

In the next week or two, parts of the central United States may get pockets of heavy rain, but the question is whether that will be enough to make up for large rain deficits in the High Plains from the past year, Nebraska state climatologist Martha Shulski said.

The drought’s flip side is that for the first time in three years, NOAA is projecting zero major spring flooding, with smaller amounts of minor and moderate flooding.

About 82 million people will be at risk for flooding this spring, mostly minor with no property damage. That’s down from 128 million people last year.

Flooding tends to be a short-term expensive localized problem while drought and wildfire hit larger areas and are longer-lasting, NOAA climatologist Karin Gleason.

Since 1980, NOAA has tracked weather disasters that caused at least \$1 billion in damage. The 28 droughts have caused nearly \$259 billion in damage, while the 33 floods have cost about \$151 billion.

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