

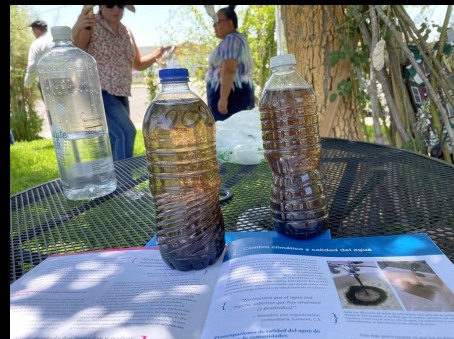
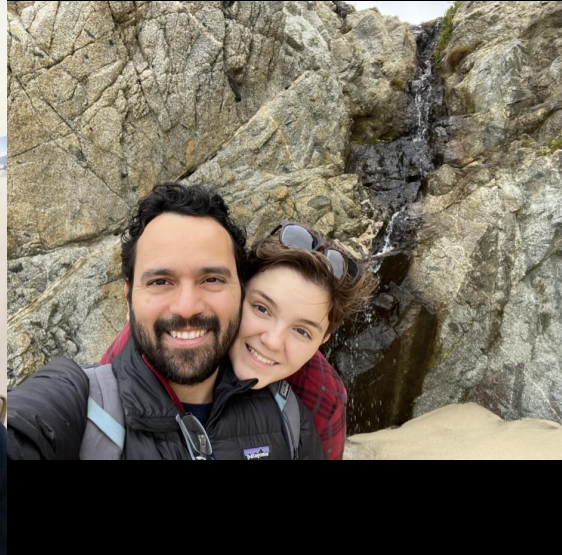


Extreme Heat in the Central Valley

J. Pablo Ortiz-Partida

[Union of
Concerned Scientists]

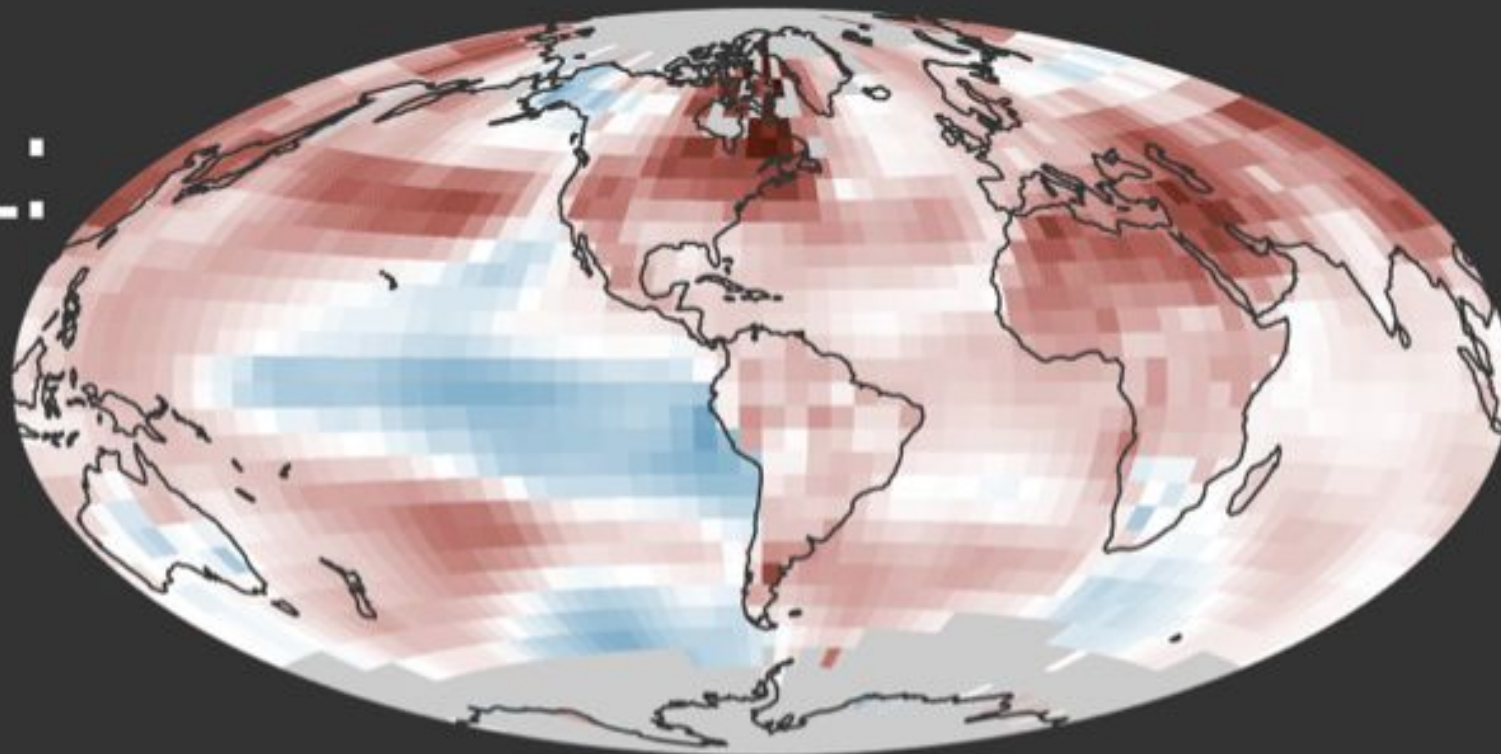
Think about your reasons for hope and for action



IT'S OFFICIAL:

2021 WAS WORLD'S 6th-WARMEST YEAR ON RECORD

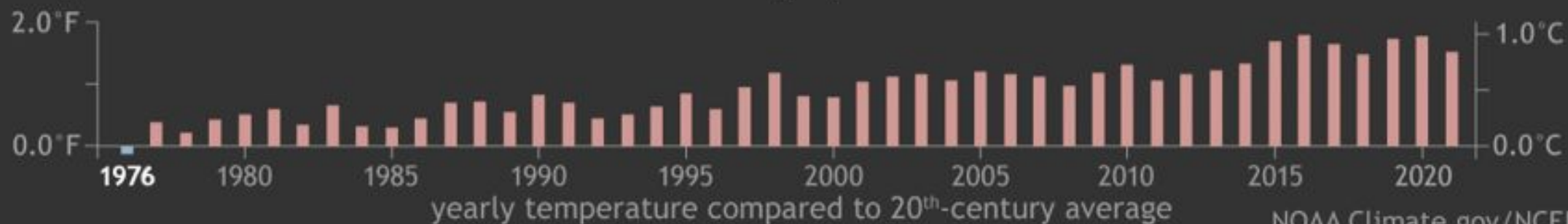
[1880-2021]



Difference from 1981-2010 average (°F)



45 years since Earth's had a colder-than-average year



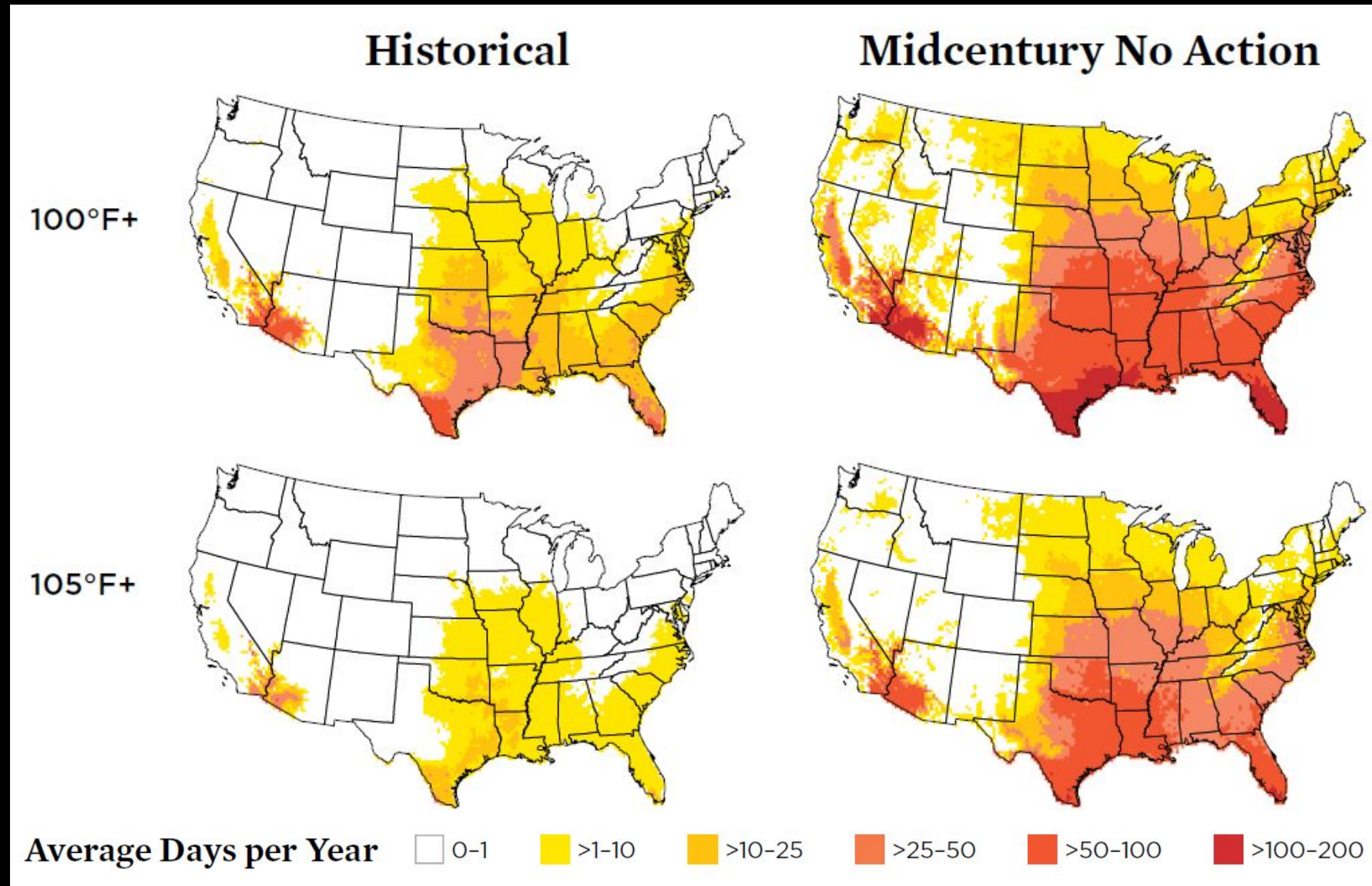
NOAA Climate.gov/NCEI

Extreme Heat in California



- Farmworkers carry nearly 35 times the risk of heat-related death than the average worker in the United States

Climate change and extreme heat



The hot Central Valley is getting hotter

Historical

	Central Valley Counties	Non-Central Valley Counties
Days per year with a heat index above 90°F	45	22
Days per year with a heat index above 100°F	6	4
With climate change by mid-century (above 100°F)	30	12



AP PHOTO/NAPA VALLEY REGISTER, LIANNE MILTON

Nights in the valley are also getting hotter

{

Warm nights are also projected to increase from 3 to 5 nights to about 16 to 30 nights by mid-century, and to 21 to 64 nights towards the end-of-century.





Heat and drought

West megadrought worsens to driest in at least 1,200 years

TIME

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Megadrought in Western U.S. Worsens to Driest in at Least 1,200 Years

AP

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West megadrought worsens to driest in at least 1,200 years

By SETH BORENSTEIN today

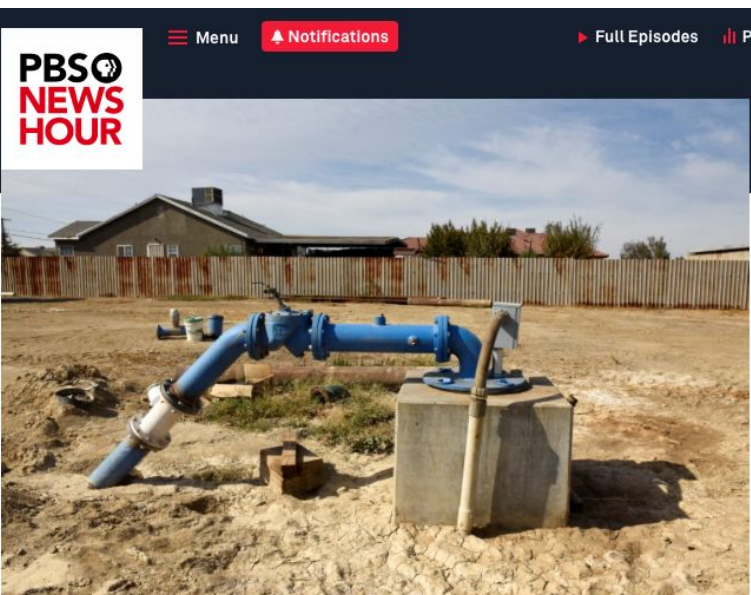
The New York Times

How Bad Is the Western Drought? Worst in 12 Centuries, Study Finds.

Fueled by climate change, the drought that started in 2000 is now the driest two decades since 800 A.D.



952



Leave your feedback

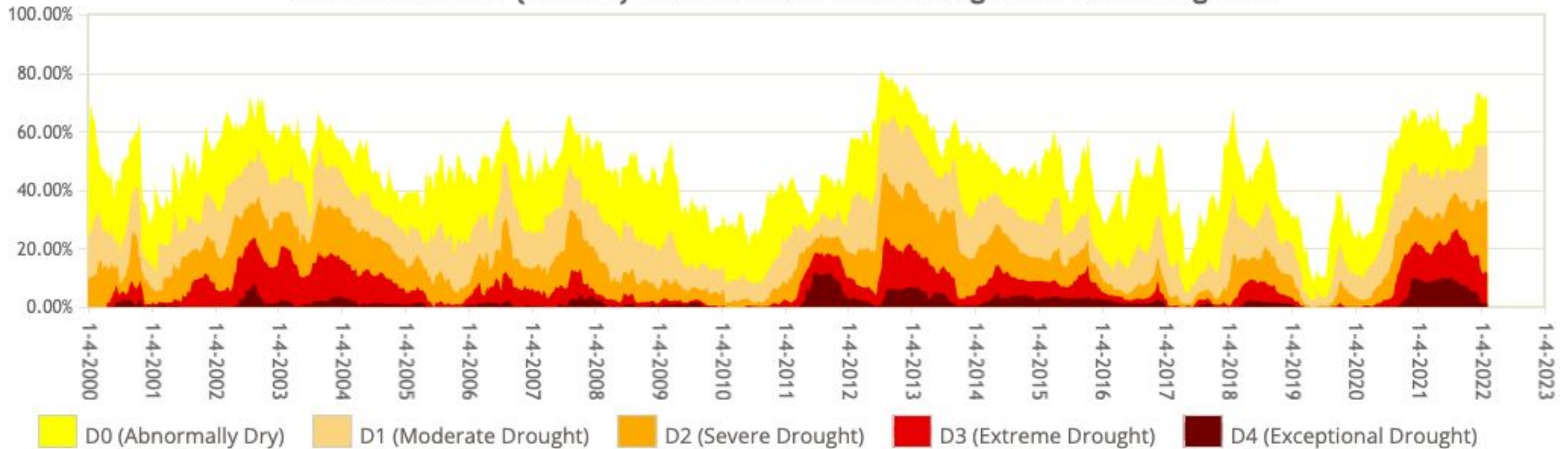
Share ...

By — Seth Borenstein, Associated Press

West's megadrought worsens to driest in at least 1,200 years

Western U.S. drought conditions

Continental U.S. (CONUS) Percent Area in U.S. Drought Monitor Categories

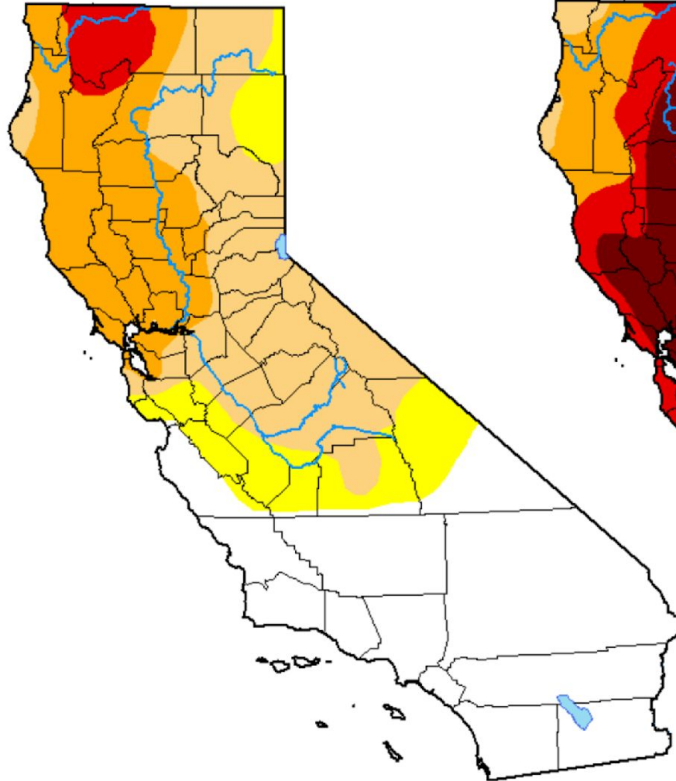


Source: U.S. Drought Monitor

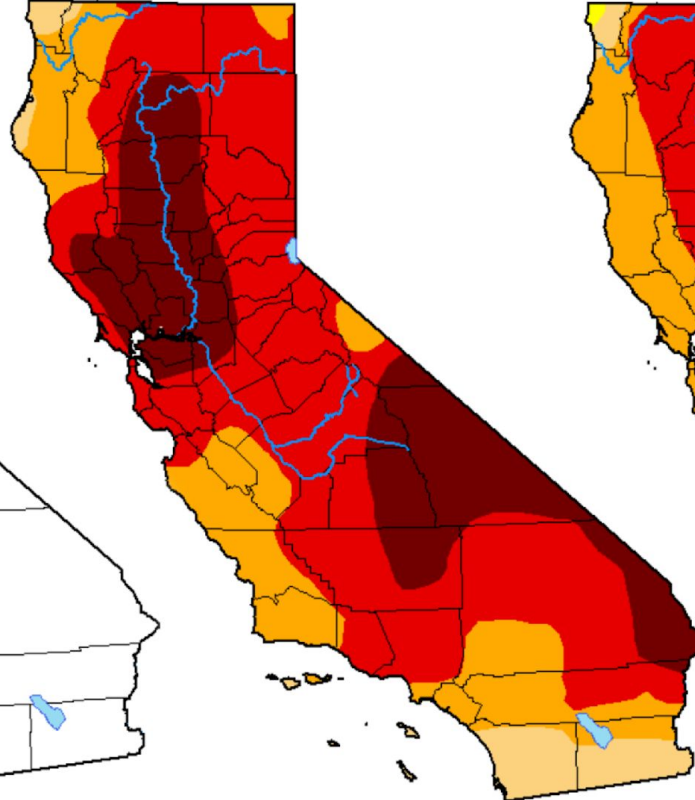
May 12, 2022 California Drought Conditions

Intensity:  None  D0 Abnormally Dry  D1 Moderate Drought  D2 Severe Drought
 D3 Extreme Drought  D4 Exceptional Drought

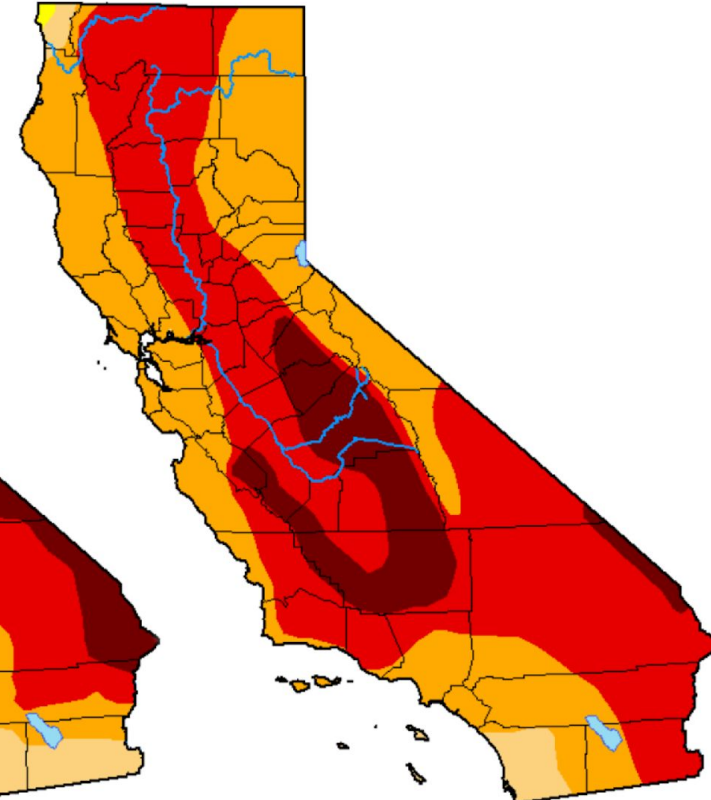
May 26, 2022



May 25, 2021



May 24, 2022



Original maps developed by Curtis Riganti (2020), Adam Hartman (2021), and Richard Heim (2022)



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

Source: U.S. Drought Monitor

[Takeaways

- Failing to take action to reduce emissions would lead to a staggering expansion of dangerous heat.
- Aggressively reducing emissions could contain that expansion.
- The time to act is now.

What can you do?

- Talk about it.
- Advocate for climate change action and climate justice.
 - Become part of newsletters of organizations that fight for equity and justice.
 - Donate:
 - Union of Concerned Scientists
 - The Climate Center
 - Community Water Center
 - Self-help Enterprises
 - The Leadership Counsel for Justice and Accountability
 - Green Latinos
 - Water Education for Latino Leaders (WELL)
 - 4Venir -> Founded by UC Merced Students
- What you do + Equity



Thank You!

Killer Heat in the United States
www.ucsusa.org/killer-heat

Killer Heat in the United States
<https://ucsusa.org/resources/too-hot-to-work>