

JACKSON BROWNE

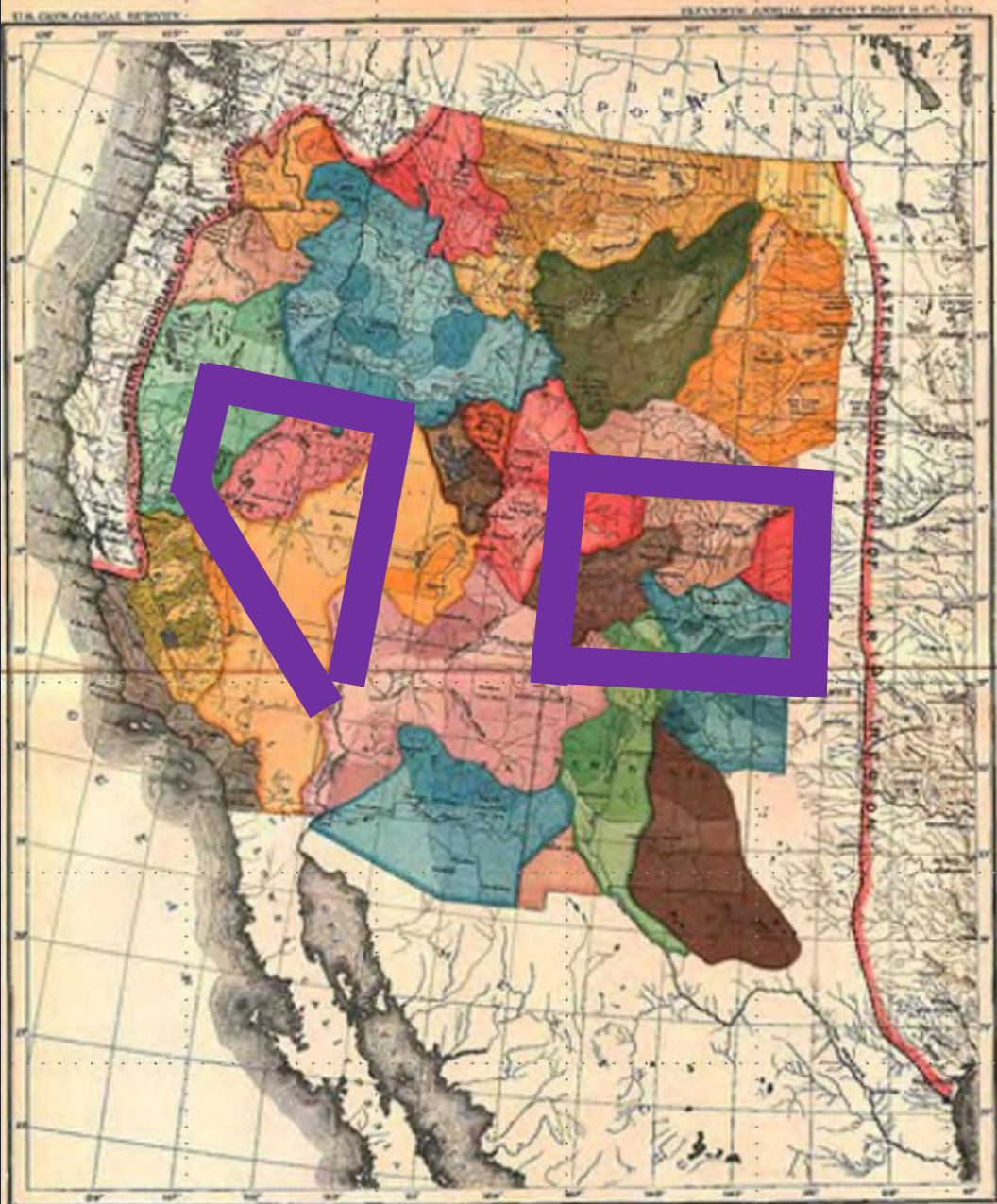
RUNNING ON EMPTY & INTO THE SUN

A photograph of a sunset over a body of water. The sky is filled with large, billowing clouds in shades of orange, yellow, and white. In the foreground, two sailboats are visible on the water. The boat on the left has a dark sail, and the boat on the right has a light-colored sail. The water is dark, and the overall scene is bathed in the warm light of the setting sun.

*Running on Empty
& into the Sun*

James Eklund

Sherman & Howard

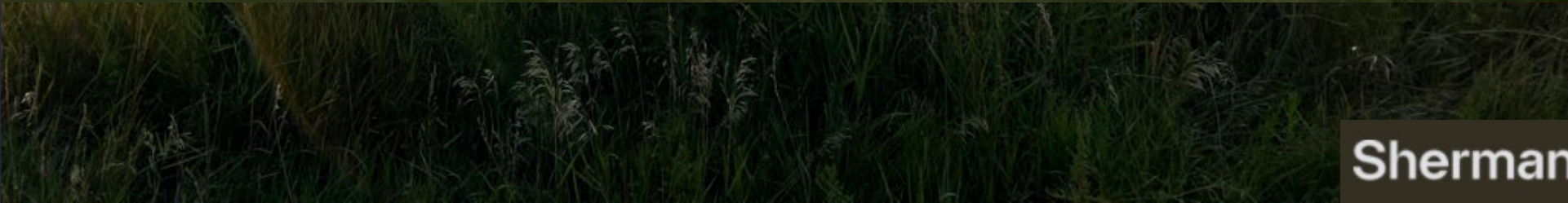


ARID REGION
of the
UNITED STATES
Showing Drainage Districts.
Scale
0 10 20 30 40 50 Miles





E Norse Sky Ranch



Colorado River Basin

243,000 miles²

40 million people

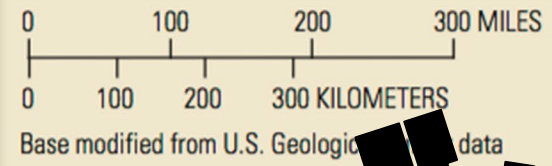
5th largest economy

National food security

20 years of aridification

50 years of rapid growth

100-year-old Law of the River



Upper

UPPER

Powell

7.5 maf

Mead

Lower

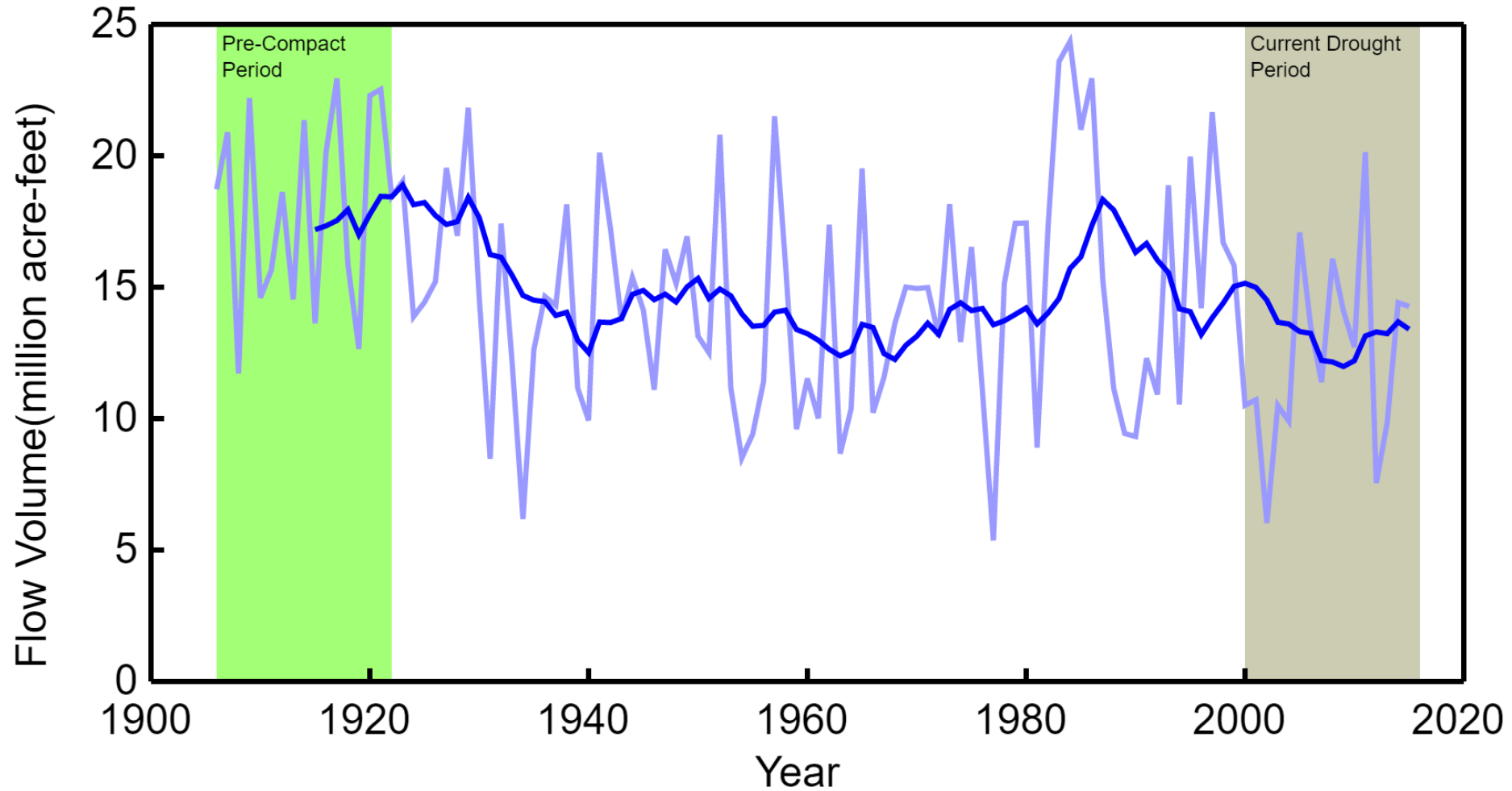
Lower

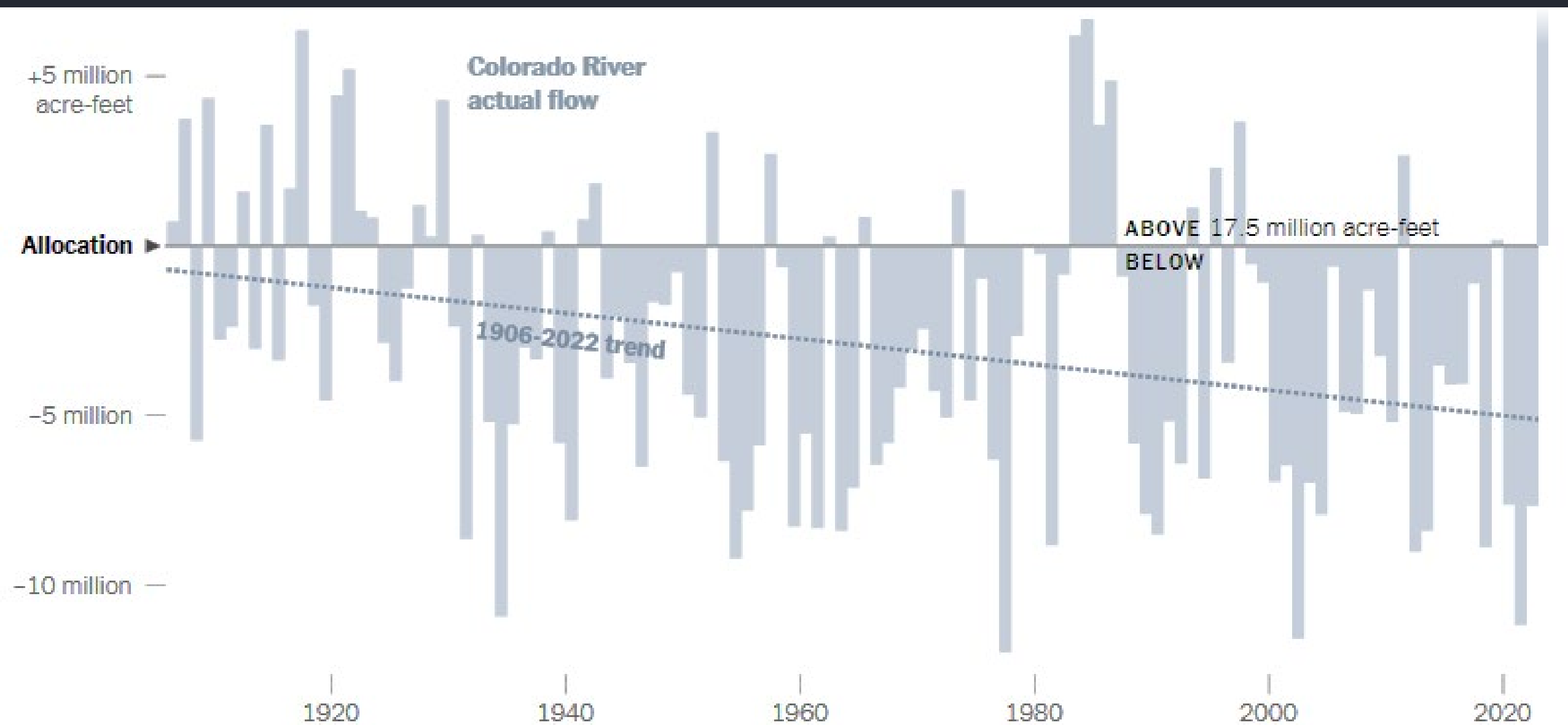
1.5 maf

18

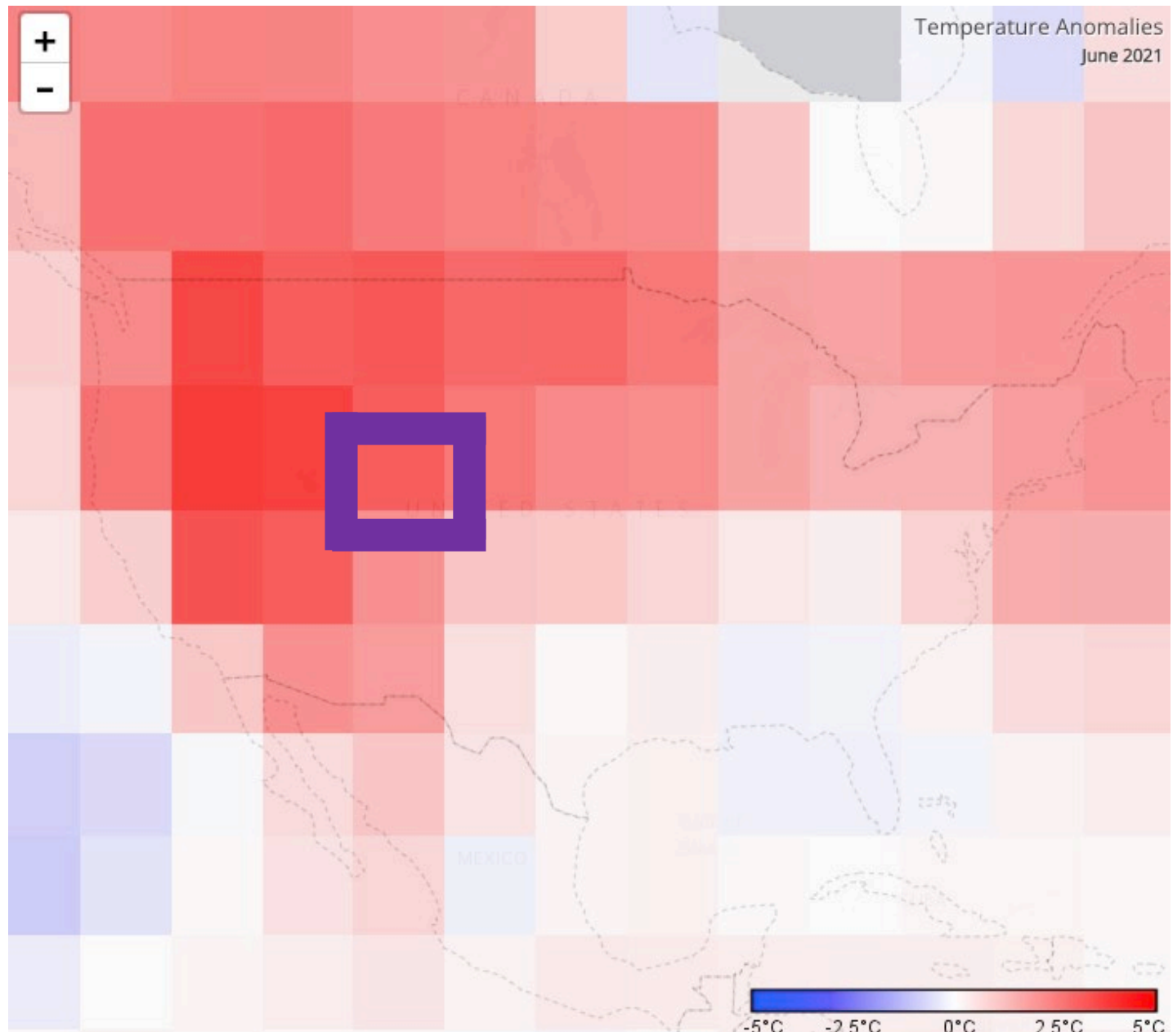
VS

10?

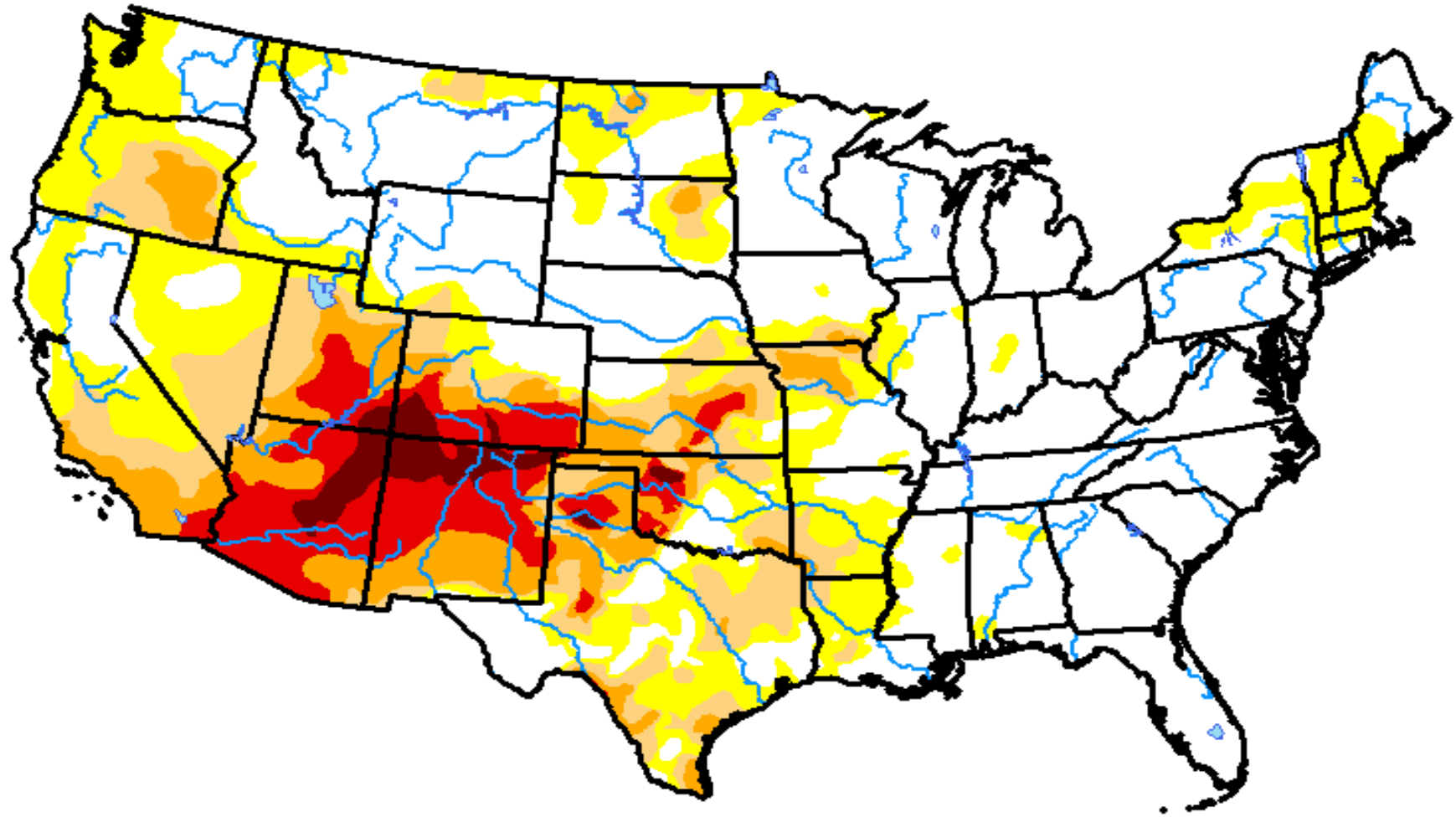




Note: Colorado River natural flows are estimated from measurements at Lee's Ferry, Ariz. Values for 2021 and 2022 are provisional. • Source: U.S. Bureau of Reclamation



2018



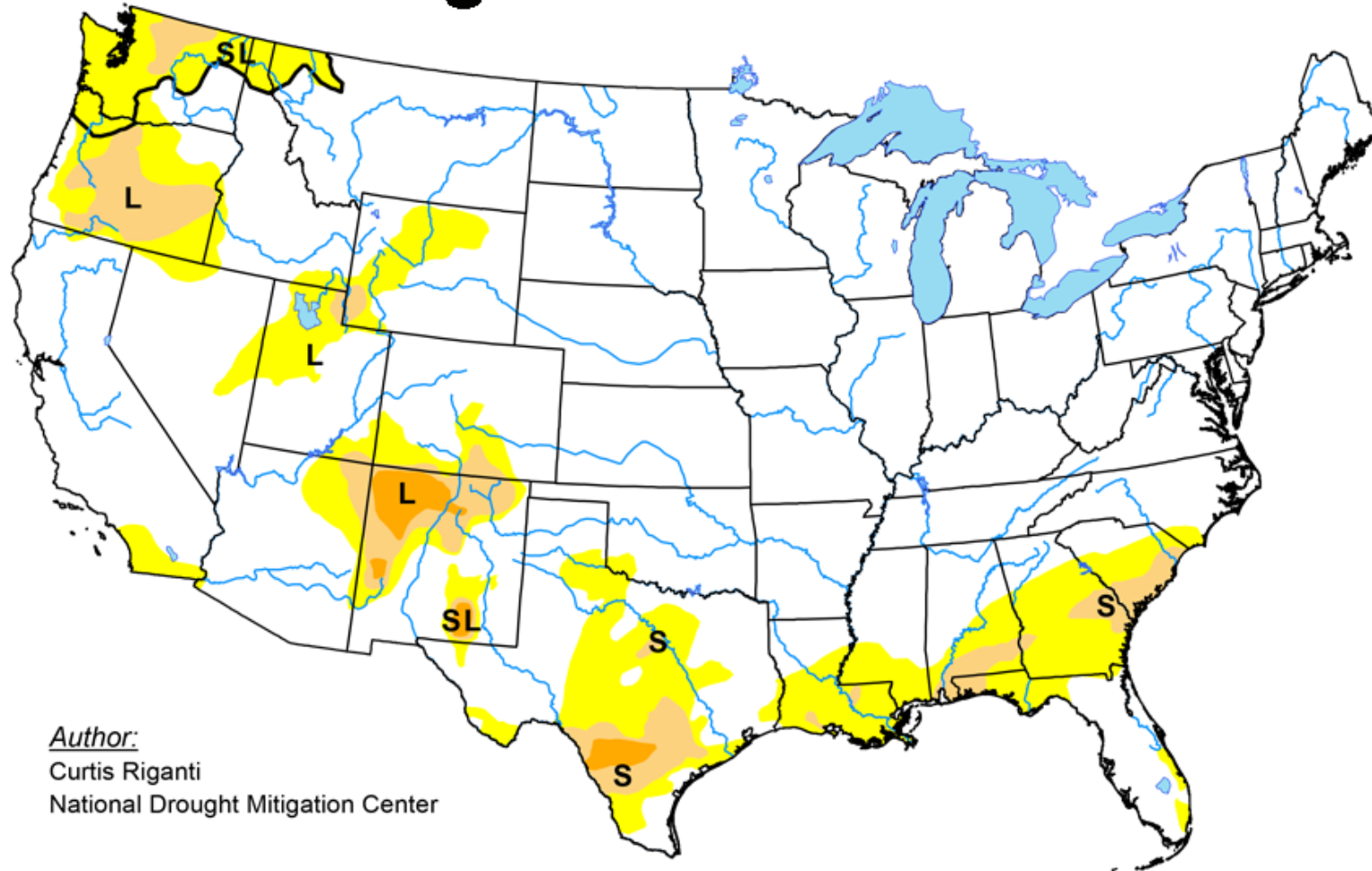
2019

U.S. Drought Monitor

April 2, 2019

(Released Thursday, Apr. 4, 2019)

Valid 8 a.m. EDT



Drought Impact Types:

~ Delineates dominant impacts

S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)

L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

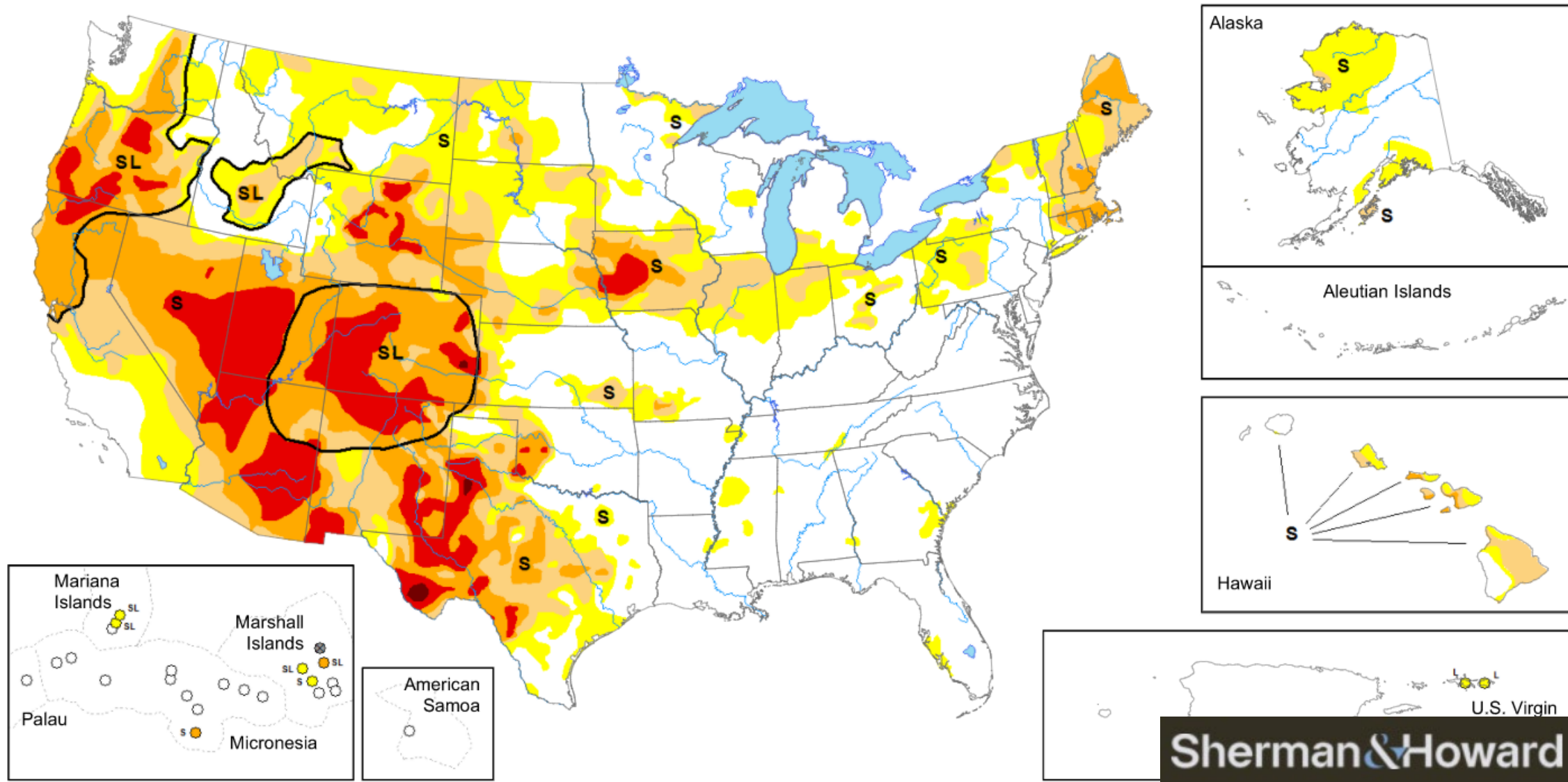
Intensity:

- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

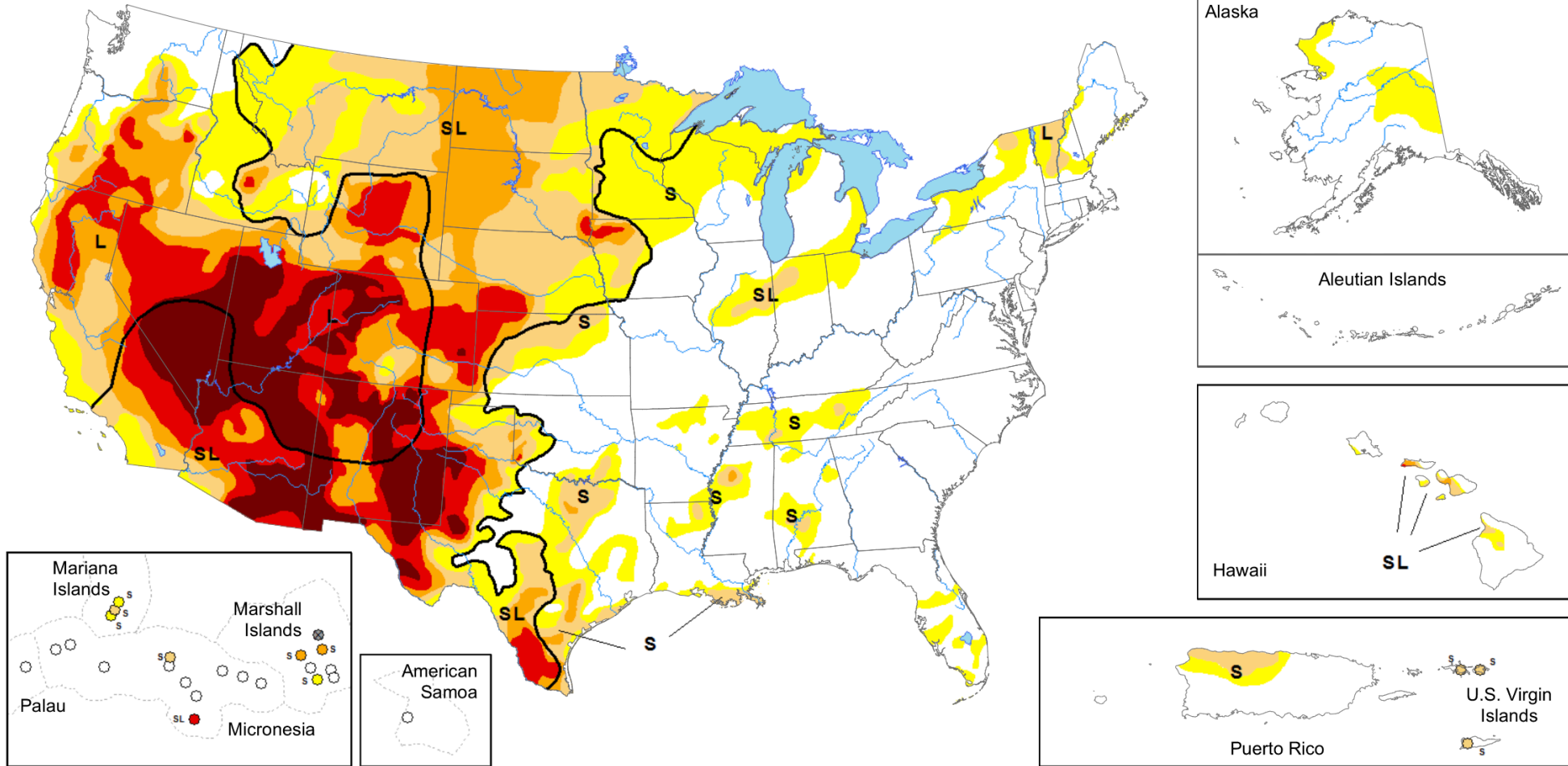
Author:

Curtis Riganti
National Drought Mitigation Center

2020



2021

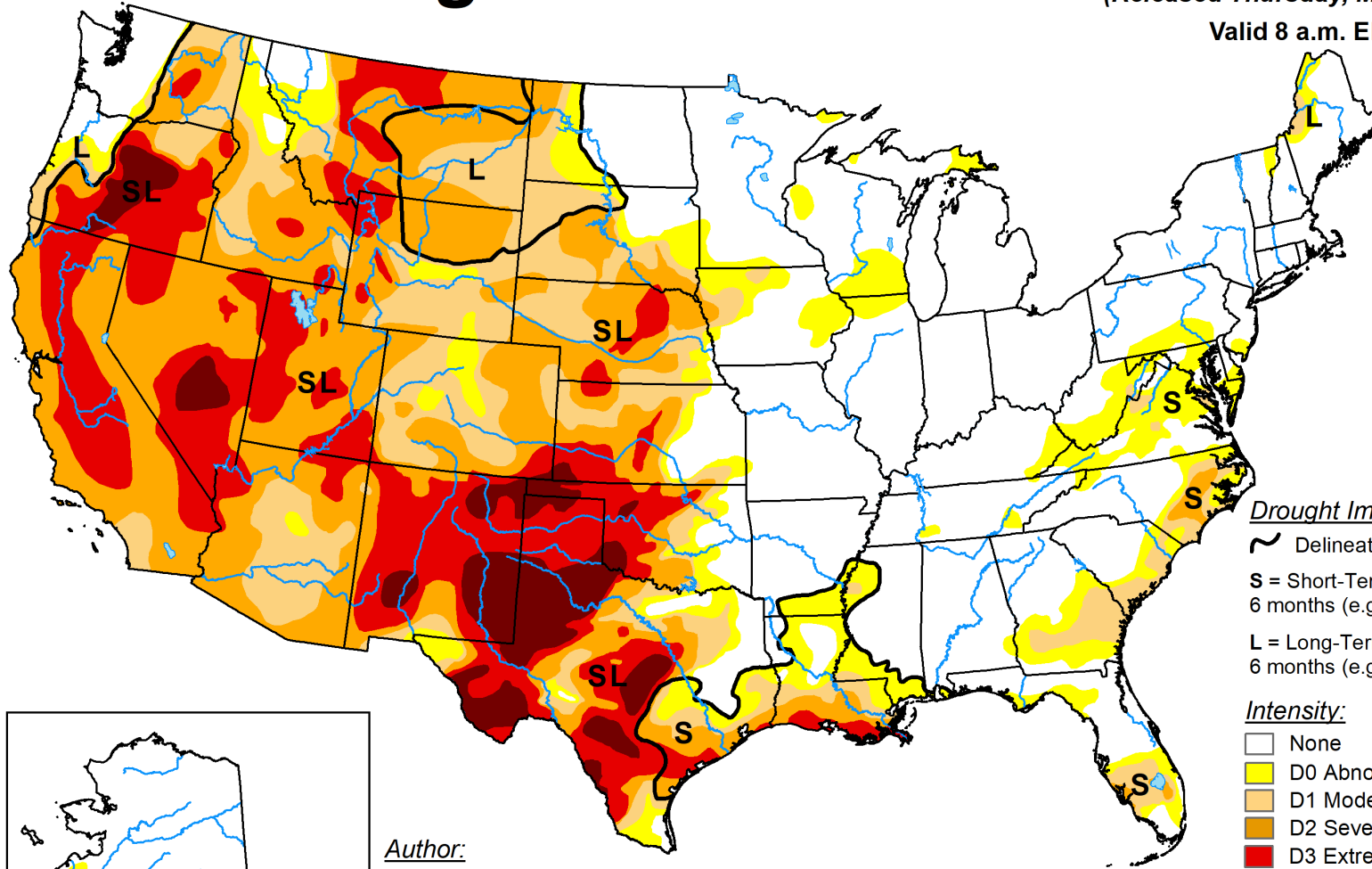


U.S. Drought Monitor

May 3, 2022

(Released Thursday, May. 5, 2022)

Valid 8 a.m. EDT



Drought Impact Types:

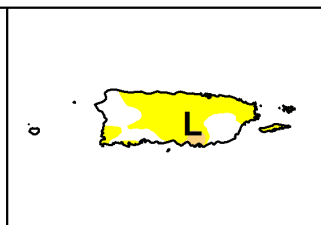
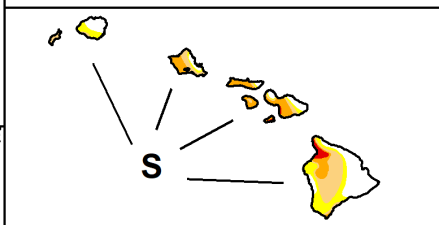
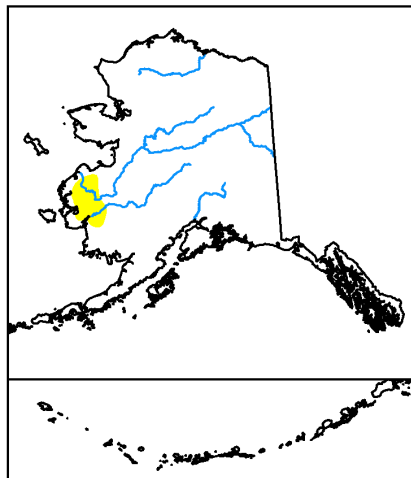
- ~ Delineates dominant impacts
- S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)

Intensity:

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

Author:
David Simeral
Western Regional Climate Center

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>

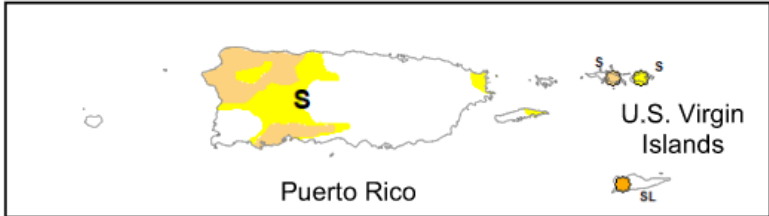
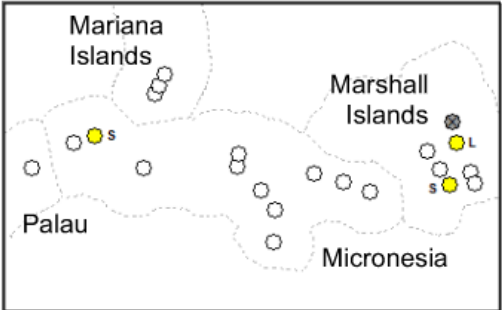
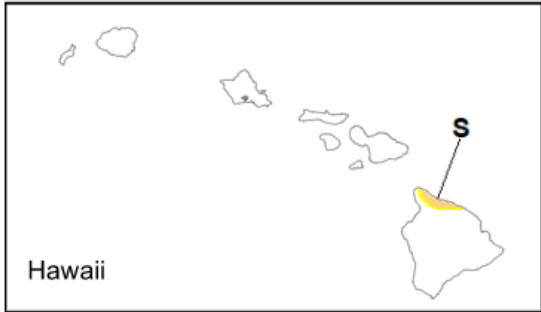
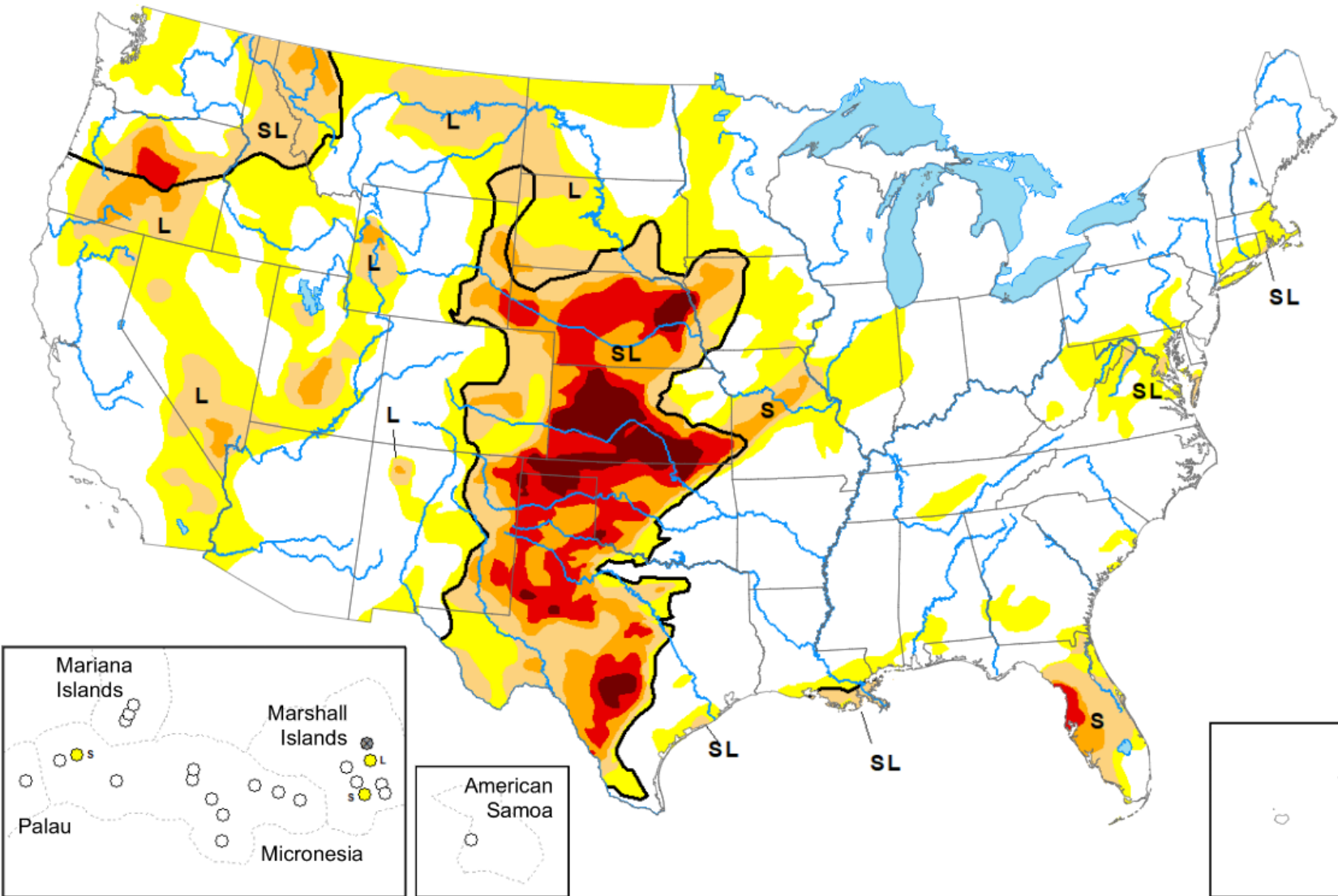


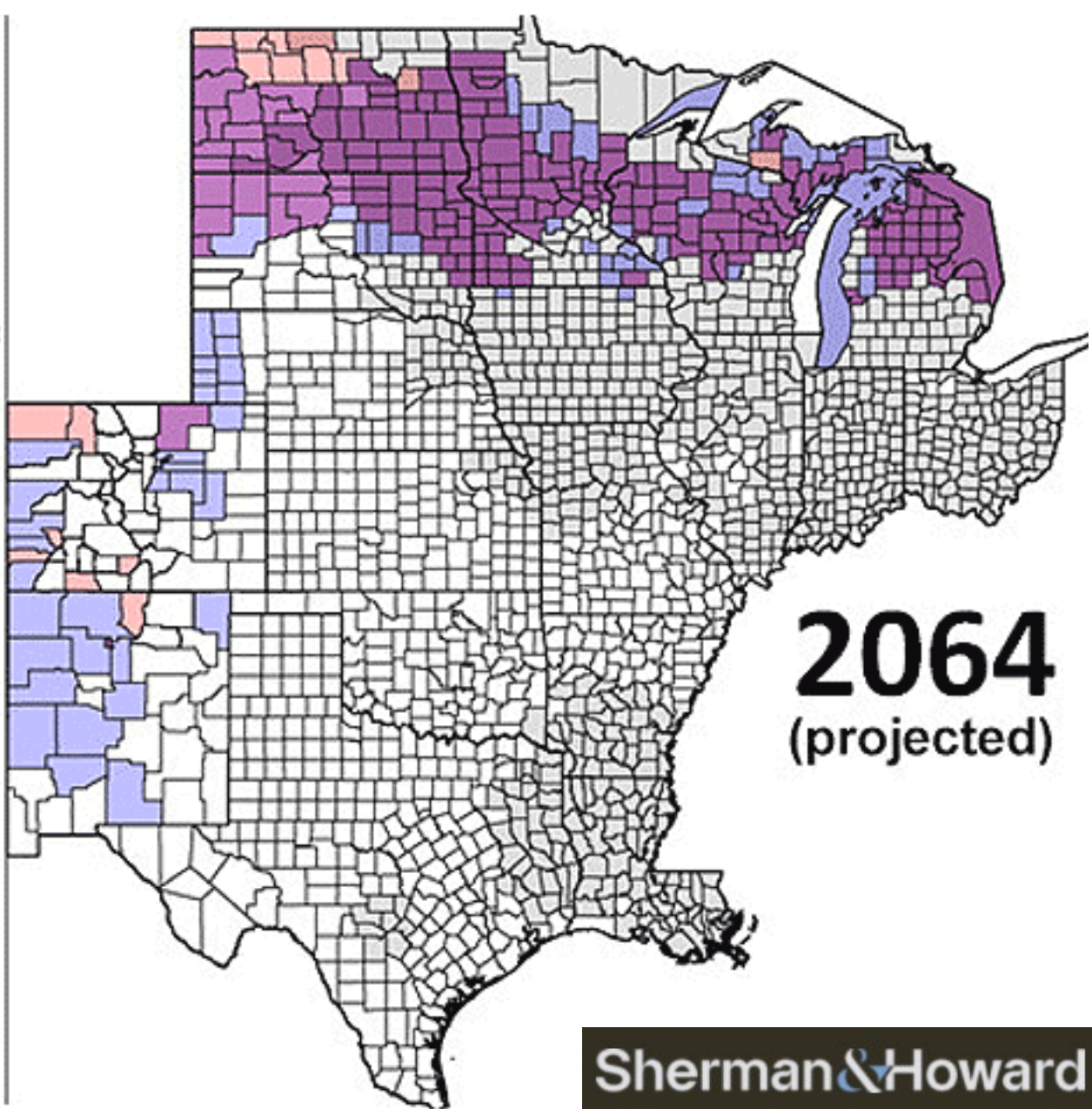
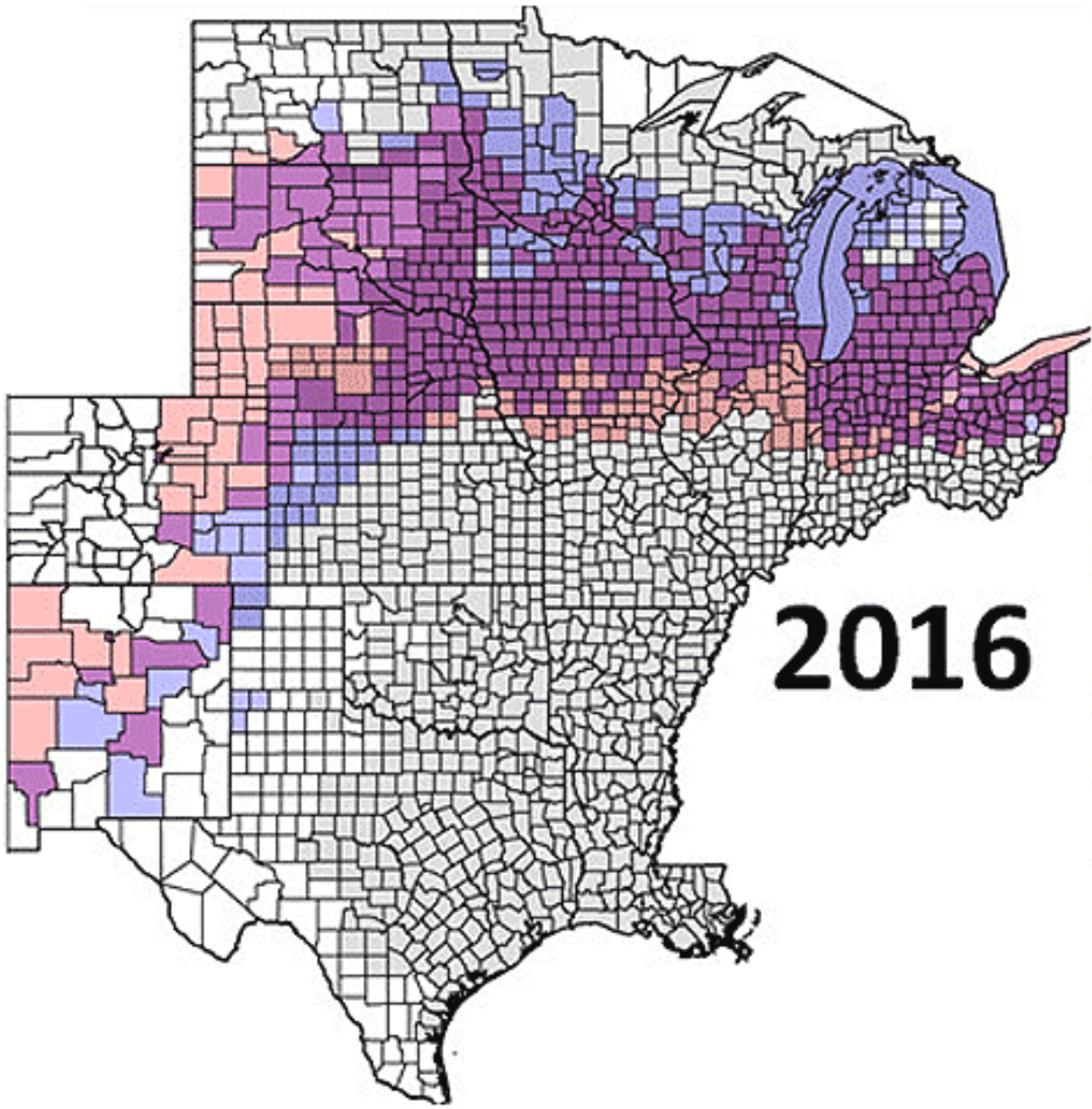
droughtmonitor.unl.edu

Sherman & Howard

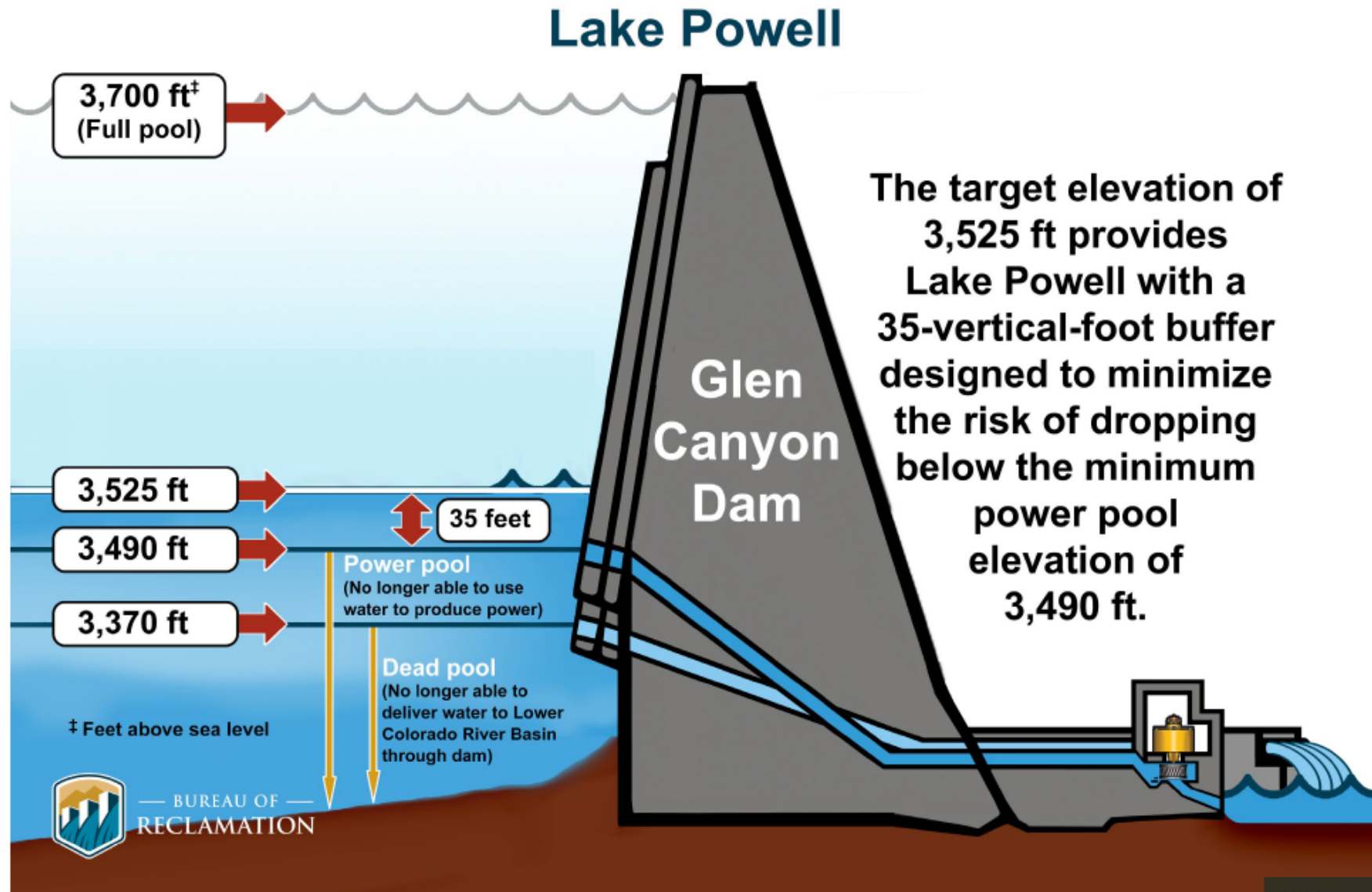
Map released: May 4, 2023

Data valid: May 2, 2023





Lake Powell Key Elevations



8 - June 16, 2022

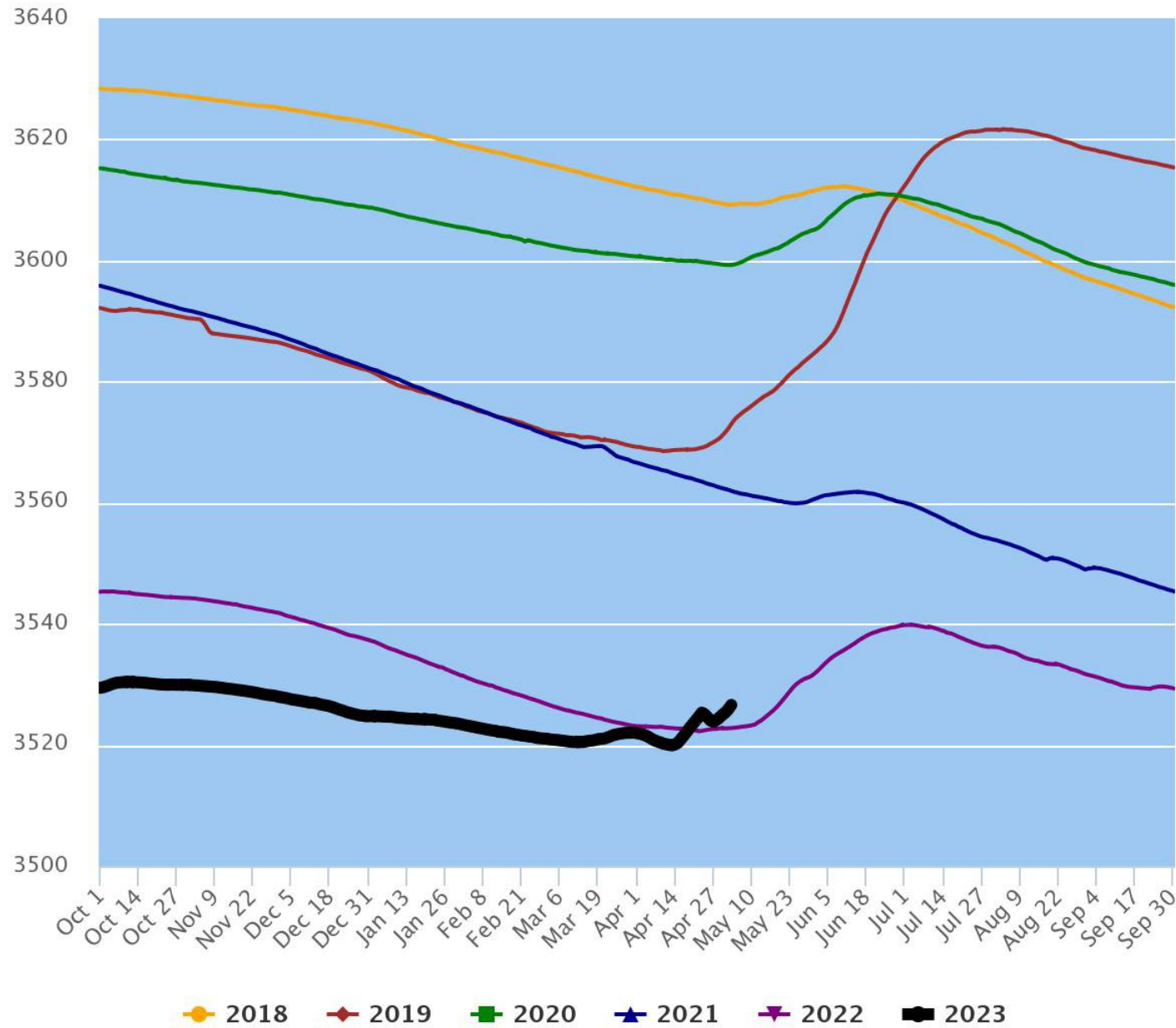
Source: Jim Prairie



Sherman & Howard

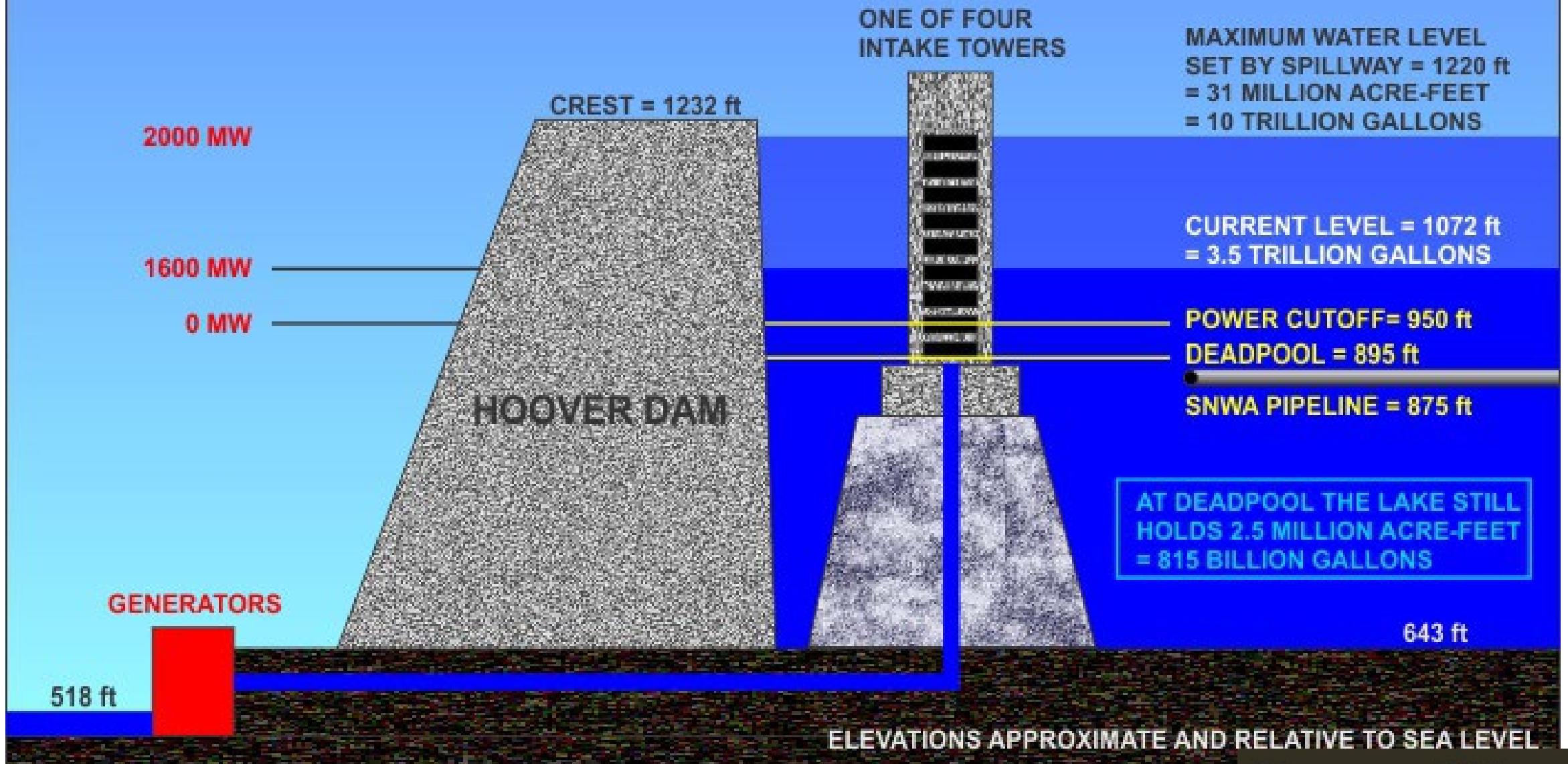
Lake Powell Water Levels (past 5 years)

Elevation (MSL)



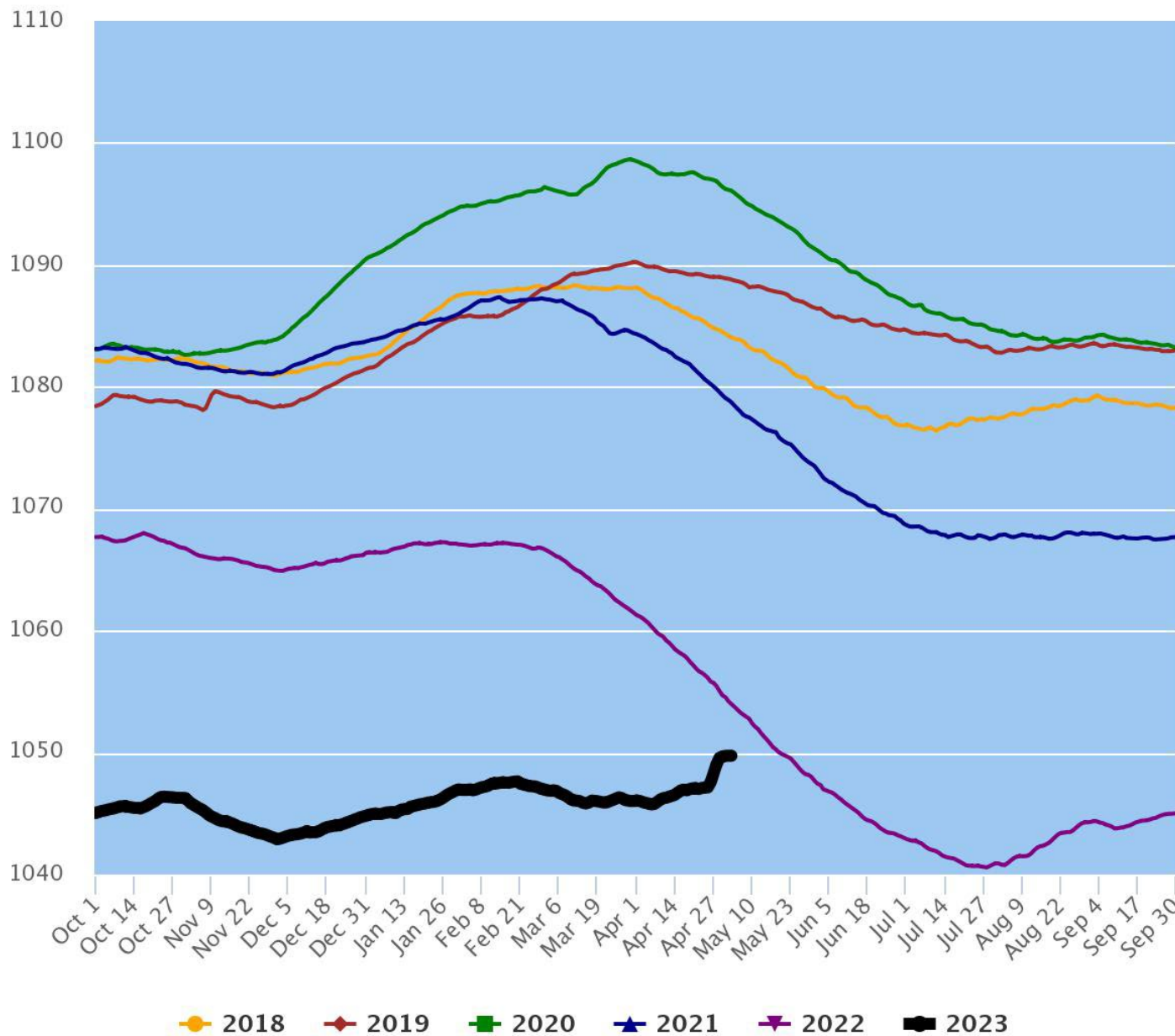
Powell
23%
3526.81'

CROSS SECTION OF HOOVER DAM AND LAKE MEAD

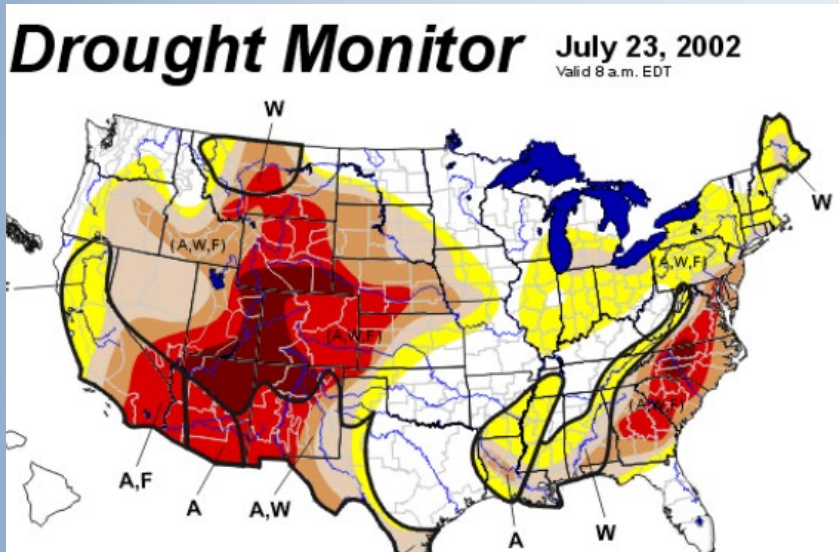


Lake Mead Water Levels (past 5 years)

Elevation (MSL)



Mead
30%
1049.74'



2007 Interim Guidelines

2019 Contingency Plan

2023 ???

2002



2026

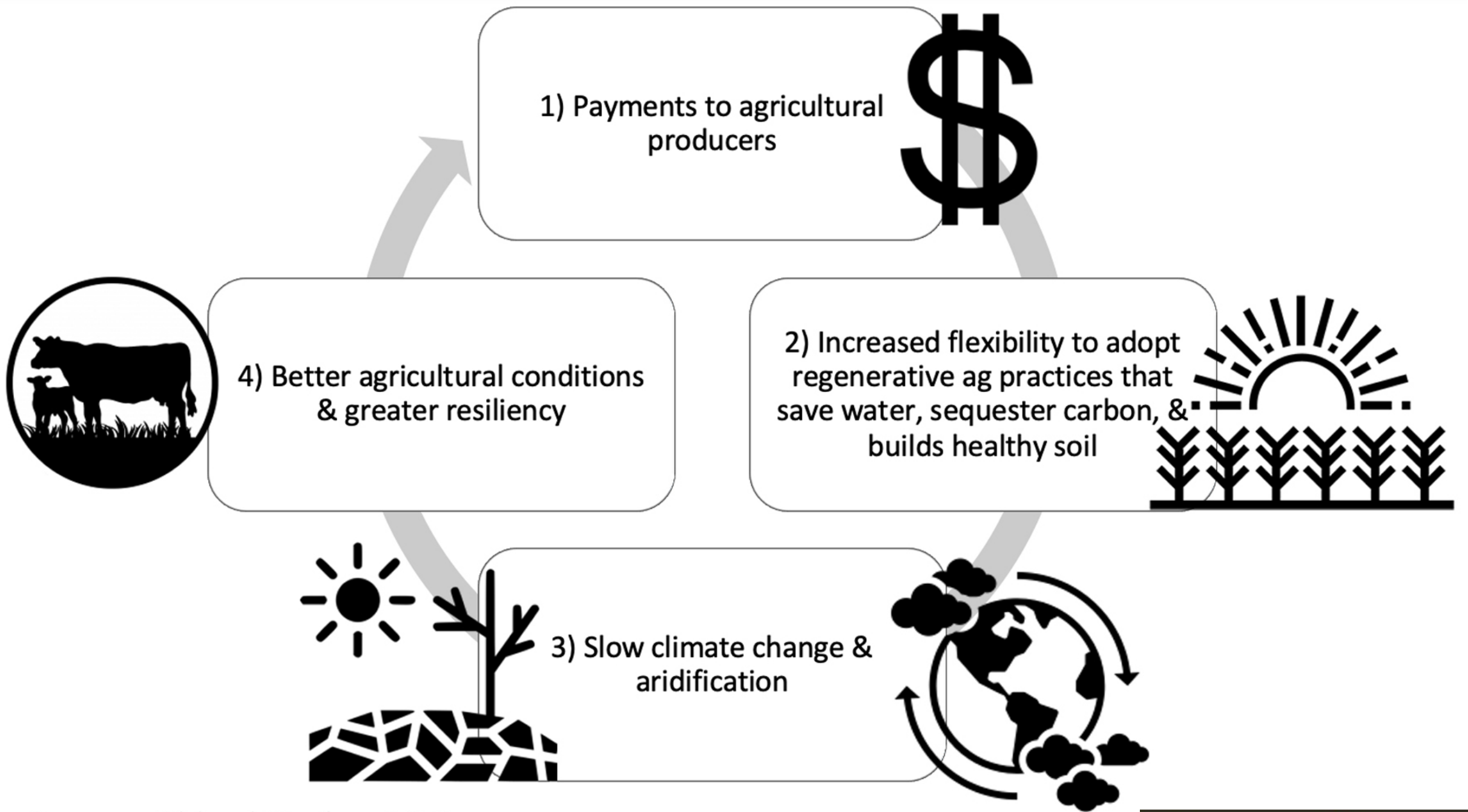


nitrateliva

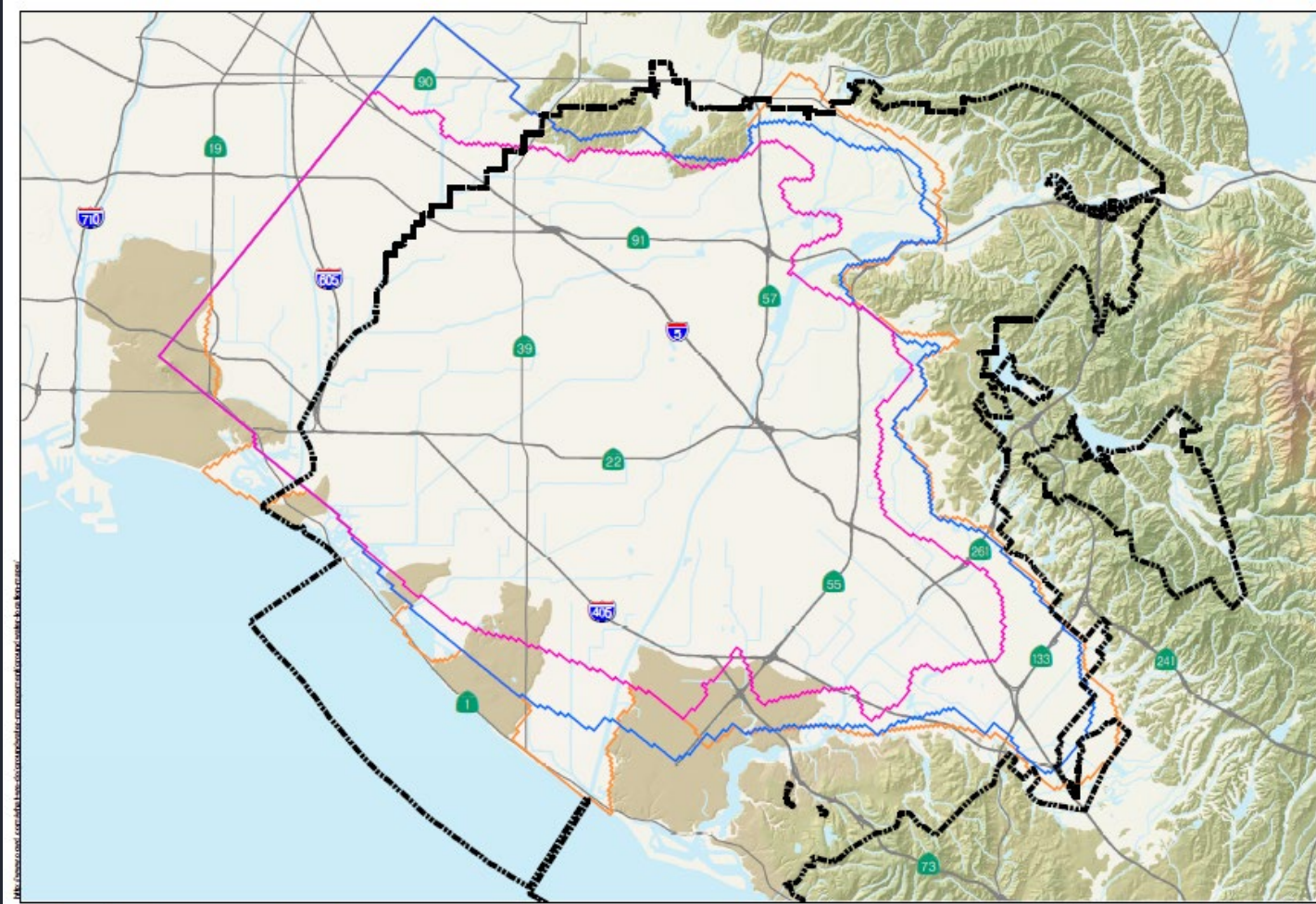
C-SPAN
c-span.org
@cspan

Upper Basin's "5 Points"

1. Dust off the System Conservation Pilot Program. (6,000 af)
2. Release water from higher reservoirs. (~500,000 af)
3. *Consider* an Upper Basin Demand Management program *as interstate and intrastate investigations are completed.* (0 af)
4. Accelerate enhanced measurement, monitoring, and reporting. (0 af)
5. Continue water administration. (0 af)



Source: Eklund Hanlon, LLC



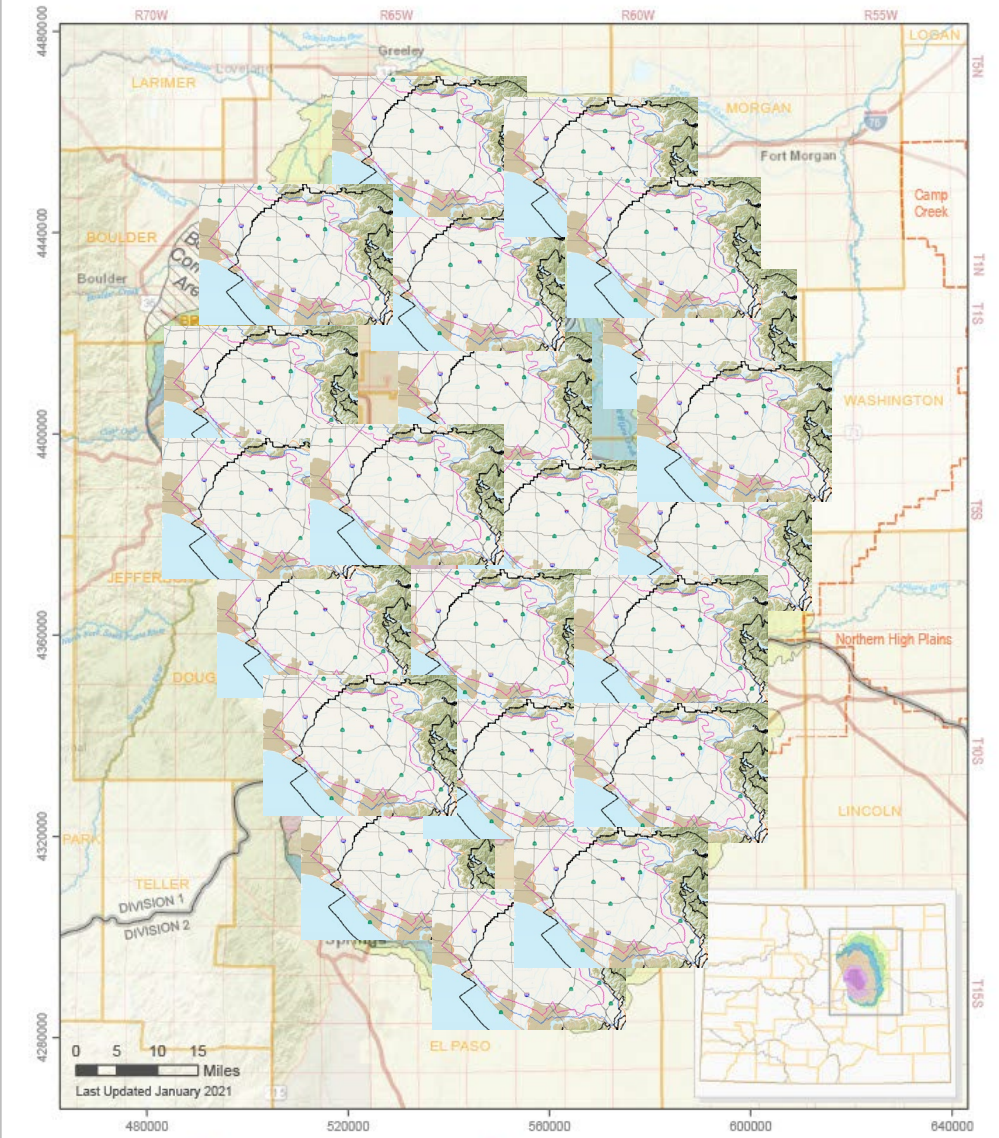
**Orange County Water District
Three-Layer Basin Model Extent**
Date Prepared: 11/02/15



Shallow Aquifer
 Principal Aquifer
 Deep Aquifer
 OCWD Service Boundary

DISCLAIMER: This map is provided only as a convenience to the user to provide general information. The Orange County Water District does not regularly update this the map or the information contained on it, and is provided in an "as-is" condition for you to view, access, copy, distribute and otherwise use at your own risk. The map and the information contained on it should be considered out of date and they should not be relied upon for any legal, engineering, surveying or similar purposes. Orange County Water District makes no representation or warranty of any kind, whether express or implied, regarding the map or any of the information contained on it. By accessing the map, you release the Orange County Water District from any liability for any injury or damage that may result from your reliance upon the map or any of the information contained on it.

DENVER BASIN AQUIFER



0 5 10 15 Miles
Last Updated January 2021



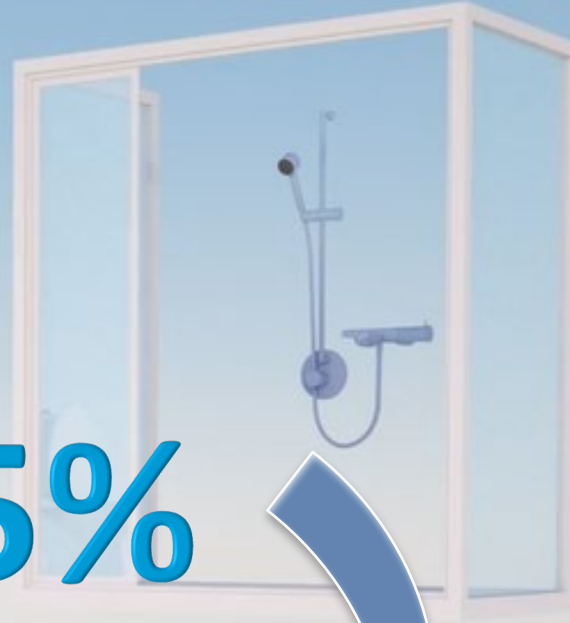
| | | |
|--|--|--|
| <ul style="list-style-type: none"> Upper Dawson Lower Dawson Arapahoe Denver Upper Arapahoe | <ul style="list-style-type: none"> Lower Arapahoe Laramie Formation Laramie-Fox Hills | <ul style="list-style-type: none"> Designated Basins Water Divisions Counties Boulder Complex Area |
|--|--|--|

COLORADO
 Division of Water Resources
 Department of Natural Resources
 Projection: UTM Zone 13, NAD 83, meters

Graywater

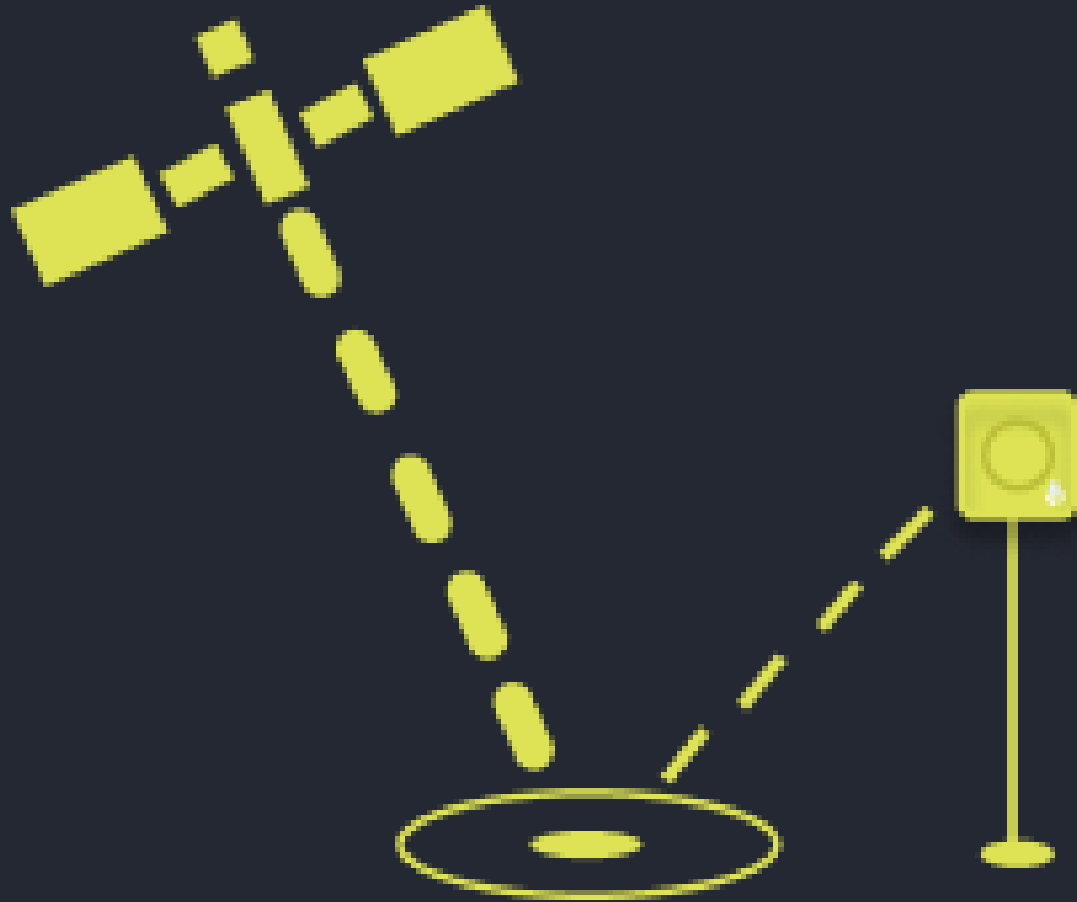


20-25%





Remote sensors





*“I'd love to stick around,
but I'm running behind.”*