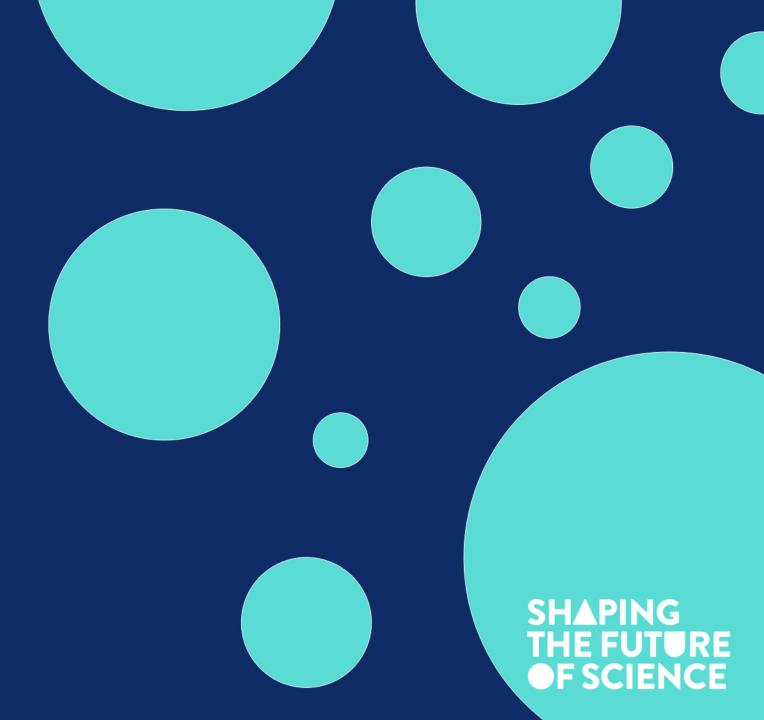
PRESS BRIEFING: Drought 2021

Monday, 7 December 11:00 am US Eastern Time









PANELISTS

- Kelsey Satalino, NOAA's National Integrated Drought Information System
- Mark Svoboda, National Drought Mitigation Center, University of Nebraska Lincoln







INFORMATION FOR REPORTERS

- Slides from this presentation are available in the Fall Meeting Media Center: https://www.agu.org/Fall-Meeting/Pages/Attend/Media-Center
- A recording of this event will be posted to AGU's YouTube channel: https://www.youtube.com/c/AGUvideos
 - Playlist "Fall Meeting 2020 Press Conferences"
- An informal, 30-minute discussion room via Zoom will follow this event:
 - Link will be posted in this event's chat box
 - Meeting ID: 962 1469 2326
 - Passcode: agupress
- Questions: Email <u>news@agu.org</u>



Drought Briefing 2020: A Look Back and a Look Forward

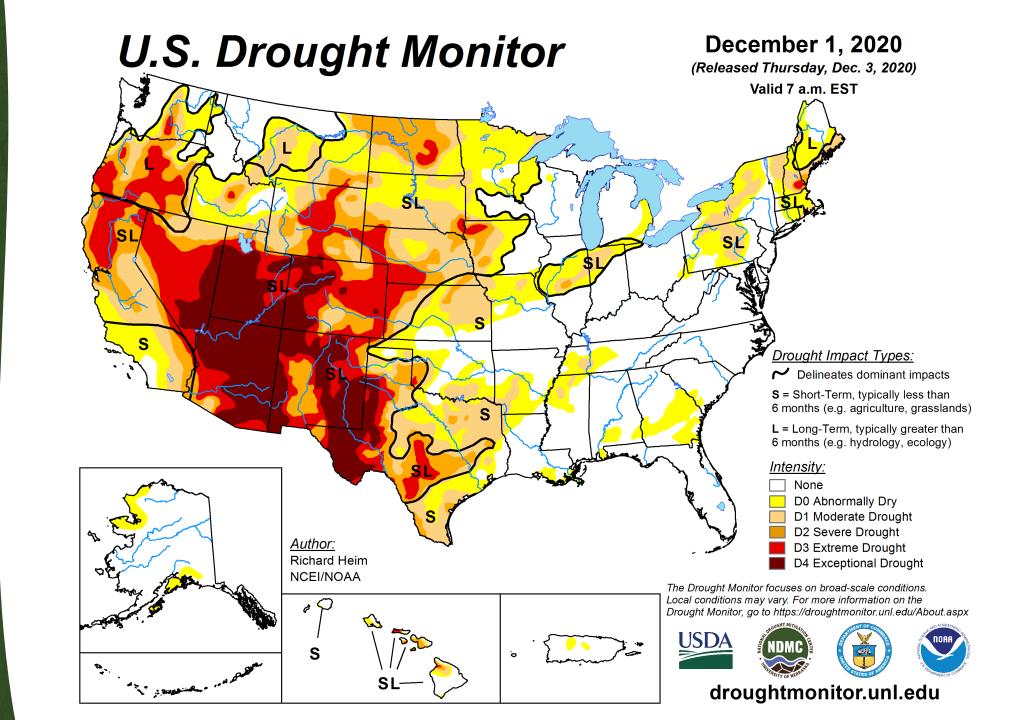
Mark Svoboda, PhD

Director and Associate Professor

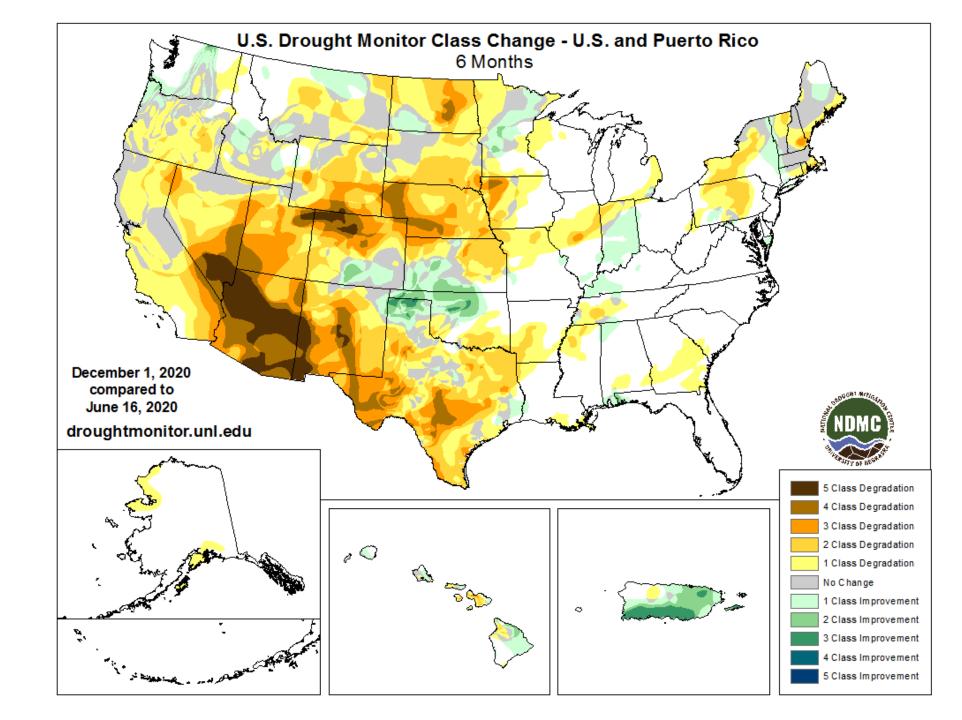
University of Nebraska-Lincoln



AGU Virtual Fall Meeting: Drought Briefing



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Statistics

Statistics type: Traditional Percent Area v Display: Statistics v Export table: 🐯 📠

Week	Date	None	D0-D4	D1-D4	D2-D4	D3-D4	D4	DSCI
Current	2020-12-01	33.15	66.85	48.04	31.89	21.02	9.87	178
Last Week	2020-11-24	32.59	67.41	48.61	32.03	20.38	8.52	177
3 Months Ago	2020-09-01	42.54	57.46	39.41	24.75	8.61	0.10	130
Start of Calendar Year	2019-12-31	75.80	24.20	11.20	3.82	0.06	0.00	39
Start of Water Year	2020-09-29	38.05	61.95	42.59	27.37	14.63	1.20	148
One Year Ago	2019-12-03	68.17	31.83	11.65	4.59	0.10	0.00	48

Estimated Population in Drought Areas: 71,997,941

View More Statistics



How is drought affecting you? Submit drought impact and condition reports via the Drought Impact Reporter.

Submit report









The U.S. Drought Monitor is produced through a partnership between the National Drought Mitigation Center at the University of Nebraska-Lincoln, the United States Department of Agriculture, and the National Oceanic and Atmospheric Administration.



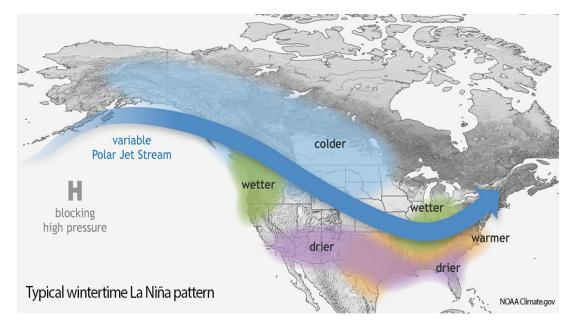


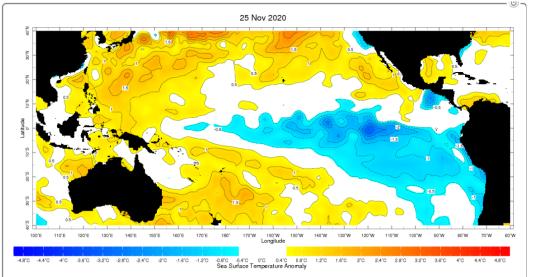
SNOTEL SWE POR 12-2-20 Snow Water Equivalent December 2, 2020, end of day Percentile (POR) Winnipeg Vancouver Lake of the Woods Missour NORTH Seattle DAKOTA MINNESOTA ASHINGTON MONTANA 0 P Portland Minneapolis • SOUTH DAKOTA P IOWA Kansas City Sacramento NEVADA Saint KANSAS Arkansas Percentile (POR) MISSOU Z San Francisco 87.5 Mt Whitney Fresno* Las Vegas . KLAHOMA 62.5 city • Oklah 50 37.5 os Angeles 25 12.5 Phoenix San Di ego Observation missing Dallas Tucson Tijuana Sites with less than 20 years of data or low variability excluded El Paso TEXAS Natural Resources Conservation Service **USDA** 0 50 100 200 300 400 500 **United States Department of Agriculture** Created 12-03-2020

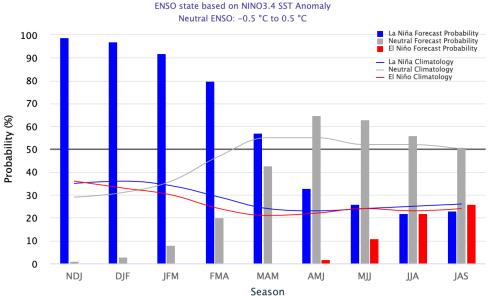




- La Niña conditions are present
- La Niña is likely to continue
 through the Northern
 Hemisphere winter 2020-21
 (~95% chance during January March) and into spring 2021
 (~65% chance during March May)



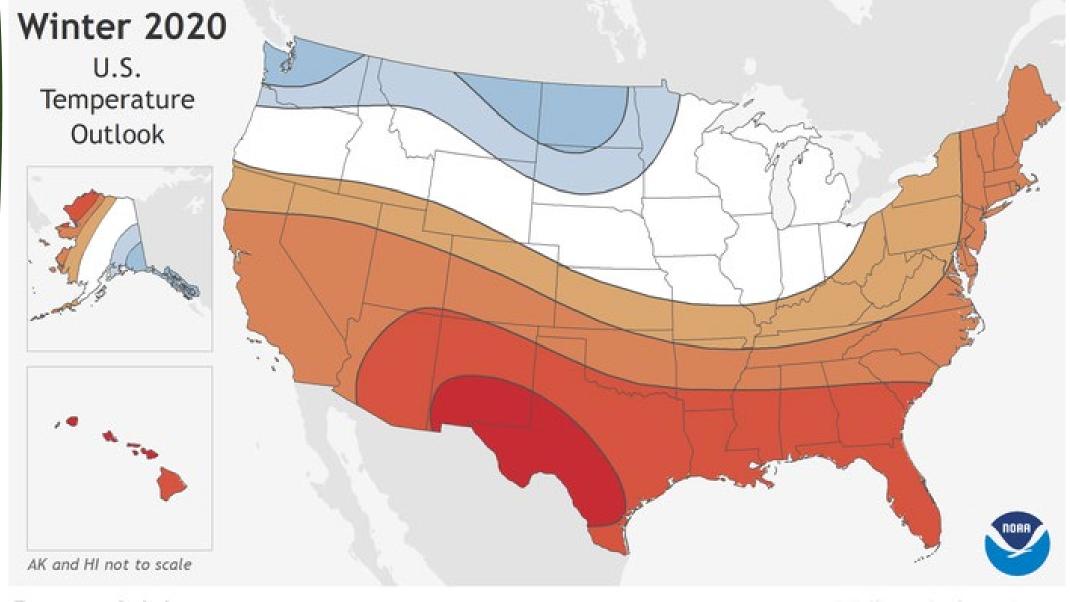




Mid-November 2020 IRI/CPC Model-Based Probabilistic ENSO Forecasts



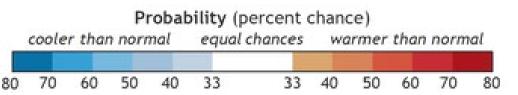




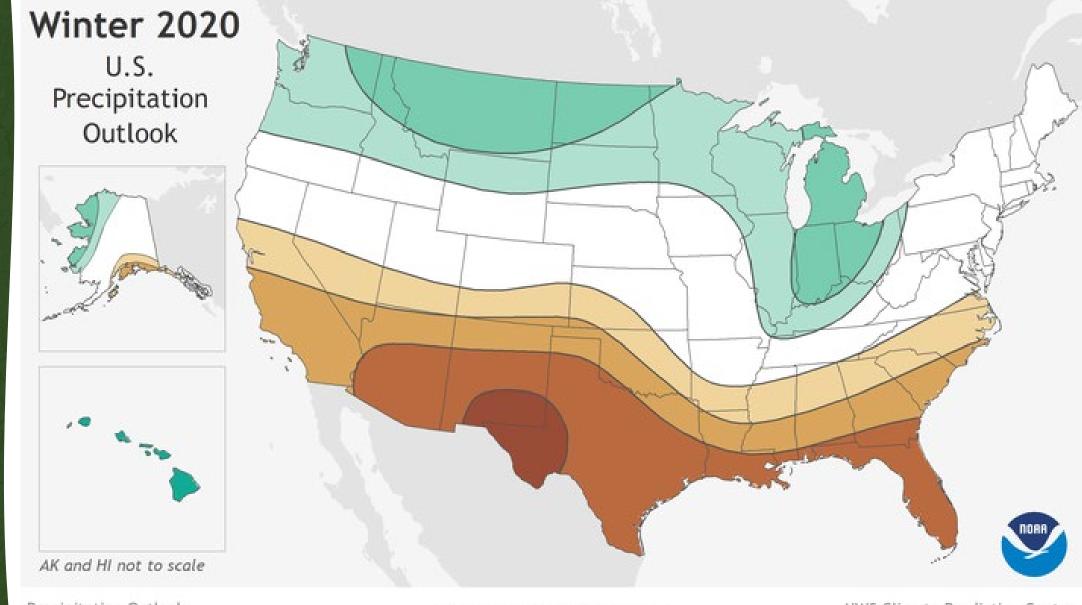




Temperature Outlook for December 2020 - February 2021 Issued 15 October 2020



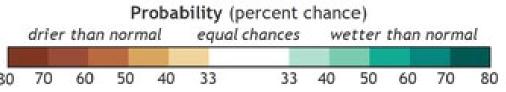
NWS Climate Prediction Center Map by NOAA Climate.gov



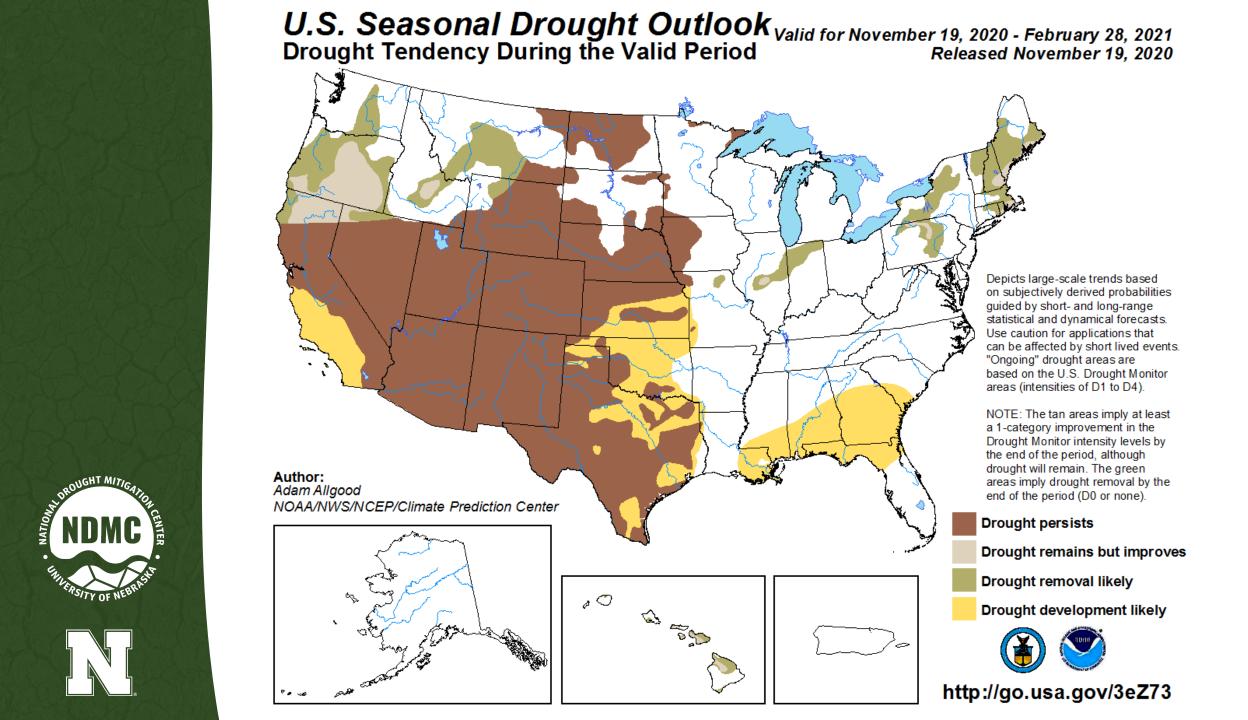




Precipitation Outlook for December 2020 - February 2021 Issued 15 October 2020



NWS Climate Prediction Center Map by NOAA Climate.gov





- Fire concerns from 2020 will spill over into the new year and spread across the southern Plains, and coastal regions of the Gulf Coast and **Southeast, including the Carolinas**
- La Niña and current fuel conditions remain the principal drivers of significant fire potential into Spring 2021



National Significant Wildland Fire Potential Outlook

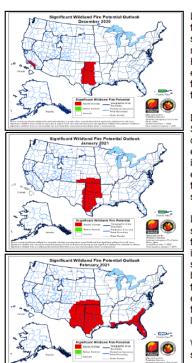
Predictive Services National Interagency Fire Center

Issued: December 1, 2020 Next Issuance: January 1, 2021

Outlook Period - December 2020 through March 2021

Executive Summary

The significant wildland fire potential forecasts included in this outlook represent the cumulative forecasts of the ten Geographic Area Predictive Services units and the National Predictive Services unit.



Large fire activity diminished over the West in November continuing the trend from late October. Precipitation and colder temperatures spread farther south across the West leading to increasing fuel moisture and greatly reduced large fire potential through mid-month. However, by the end of November, most of the United States (US) experienced below normal precipitation with average to above normal temperatures leading to a decrease in fuel moisture, especially across the southern tier of the US.

During November, several significant wildfires occurred along the Sierra Front and across the Plains. On November 17 during a downslope wind event, three rapidly spreading significant wildfires emerged along the Sierra Front, and a day later, several large wildfires ignited on the central and southern Plains. Multiple offshore wind events developed across California, including Santa Ana winds, with the strongest around Thanksgiving. While initial attack increased, no significant large fires were reported.

La Niña and current fuel conditions remain the principal drivers of significant fire potential into spring. Drought conditions are expected to continue for much of California, the Great Basin, and the Southwest into the winter with drying expected to increase across portions of the southern Plains and Southeast. Offshore wind events will continue to be a concern across southern California in December given the dry fuels and lack of forecast precipitation through early December. Wind events may also drive short duration large fire activity in portions of the Great Basin, Southwest, and northern California, especially at

Warmer and drier than normal conditions are expected across the southern tier of the US this winter and into spring due to La Niña and other large-scale climate forcing. As a result, drought intensification and expansion across portions of the Plains, Southwest, southern California, Texas, and along the Gulf coast into Georgia are likely. Above normal significant fire potential is forecast in portions of the Southwest, southern and central Plains, and the Southern Area especially near the Gulf and Atlantic coasts this winter into spring due to these warmer and drier conditions. Strong wind and low relative humidity (RH) events could occasionally increase significant fire potential in portions of the Great Basin as well

Past Weather and Drought





https://www.predictiveservices.nifc.gov/outlooks/outlooks.htm

Take Away Points:

- Nearly half (48%) of the Lower 48 states is in drought (D1-D4) according to the December 1 U.S. Drought Monitor (USDM)
 - 21% of the Lower 48 states are in extreme to exceptional drought (D3/D4 on the USDM), most since 2012/2013
- Nearly 72 million people are in drought affected areas
- With the La Niña event evolving, we can expect the drought to continue expanding and intensifying (via the Climate Prediction Center's Seasonal Drought Outlook) from the western U.S., along the Gulf Coast and into the Southeast during the winter
- Slow start to West snowpack/water supply season bears watching as we head into 2021
- La Niña and current fuel conditions remain the principal drivers of significant fire potential into Spring 2021





Thank You! Questions?

Contact: Mark Svoboda msvoboda2@unl.edu

ON THE WEB



drought.unl.edu



@droughtcenter



@droughtcenter





QUESTIONS

Please write your questions in the Q&A box and AGU will ask it on your behalf.

Reminder: A 30-minute, informal discussion will commence in Zoom after this event ends.



