

[View this email in your browser](#)

# Southwest Climate Hub Bulletin

*News and events for the Southwest Hub region*

**June 2019**



## Hub and ITEP team up to support Tribal climate adaptation planning

The Institute for Tribal Environmental Professionals (ITEP) at Northern Arizona University offers training to tribal environmental professionals to build their capacity to address climate change issues. The courses are taught by instructional teams that include staff from ITEP, federal agencies, universities, and/or organizations, and most importantly, the tribes themselves, who share their expertise and experience. The SW Hub was honored to host a training workshop this June. [Read more >>](#)

[Subscribe](#)[Past Issues](#)[Translate ▼](#)

## Advancing Agroforestry in the Arid/Semi-arid Southwest

### SWAAN's Purpose:

- Share information and connect potential collaborators/partners
- Generate ideas/research/initiatives
- Increase adoption of agroforestry in the Southwest U.S. by agricultural producers, forest landowners, and communities

### SWAAN's Geography:

- AZ, NM, CO, and UT
- All landownerships (Tribal, State, Federal, County, Municipal, Private)

### SWAAN's Scope of Interest:

Forest-agricultural activities including those used by or originating from:

- Agricultural producers, often installed with USDA assistance (alley cropping, forest farming/multi-story cropping, riparian forest buffers, silvopasture, and windbreaks/shelterbelts)
- Indigenous peoples
- Settlers on Spanish & Mexican Land Grants
- Permaculturists
- "Food forests" in community/urban areas

*Thanks for your support!*



## The Southwest Agroforestry Action Network

The Southwest Agroforestry Action Network (SWAAN) formed in 2018 with the purpose of sharing information about agroforestry, connecting potential collaborators and partners, and generating ideas, research, and initiatives that advance adoption of agroforestry in the Southwest U.S. They held their first meeting in Farmington, NM in June 2019.

[Read more >>](#)

[Subscribe](#)[Past Issues](#)[Translate ▼](#)

## S4W - Soil for Water

The Southwest Hub recently met with National Center for Appropriate Technology (NCAT) representatives. NCAT is "a national nonprofit that helps people by championing small-scale, local, and sustainable solutions to reduce poverty, promote healthy communities, and protect natural resources." We asked Mike Morris, director of NCAT's Southwest Regional Office (which covers TX and NM) to tell us more about their "Soil for Water" project. [Read more >>](#)



## A Ubiquitous time at UCOWR

The Southwest Climate Hub Team attended the 2019 Universities Council on Water Resources (UCOWR) / National Institutes for Water Resources annual meeting, delivering 6 oral presentations and chairing 2 sessions. It was a great opportunity to share our interdisciplinary work on drought, agricultural production, and community engagement as well as to network with colleagues from across the U.S. [Read more >>](#)

[Subscribe](#)[Past Issues](#)[Translate ▼](#)

## **Tribal Food Sovereignty and Climate Change Preparedness of Tribal Agriculture**

Food sovereignty is “the right of peoples to healthy and culturally appropriate food produced through ecologically sound and sustainable methods, and their right to define their own food and agriculture systems.” By addressing food sovereignty, tribes are rebuilding resilient agriculture in their communities, ecosystems and agroecosystems.

[Read more >>](#)

---



## A deeper-dive into early snowmelt

Climate impacts on the high mountain hydrologic cycle include less water held in the snowpack, earlier runoff, less precipitation falling as snow and lower summer streamflow. [Read more >>](#)

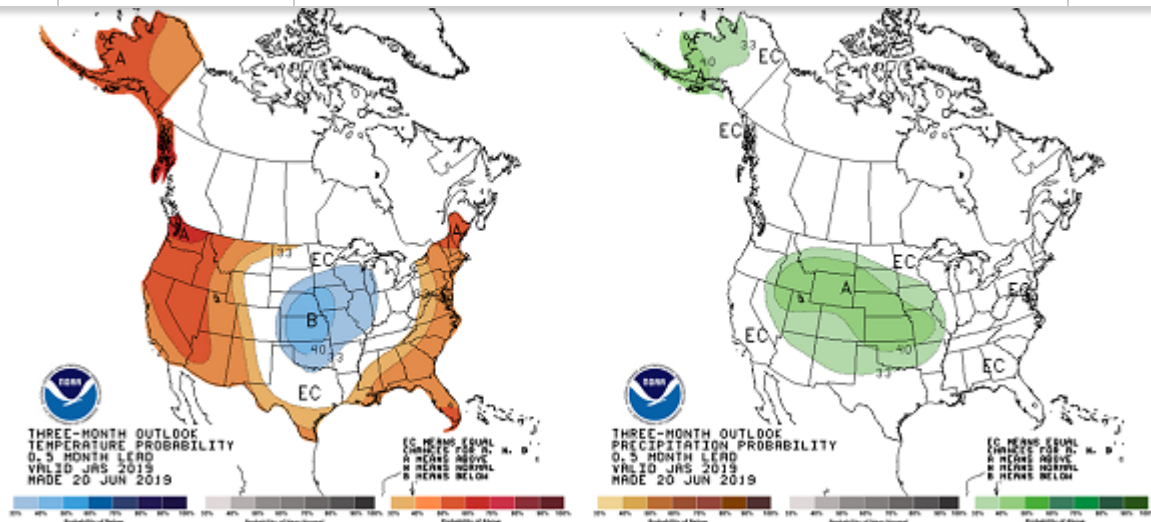
---

## Climate reporting for the Southwest

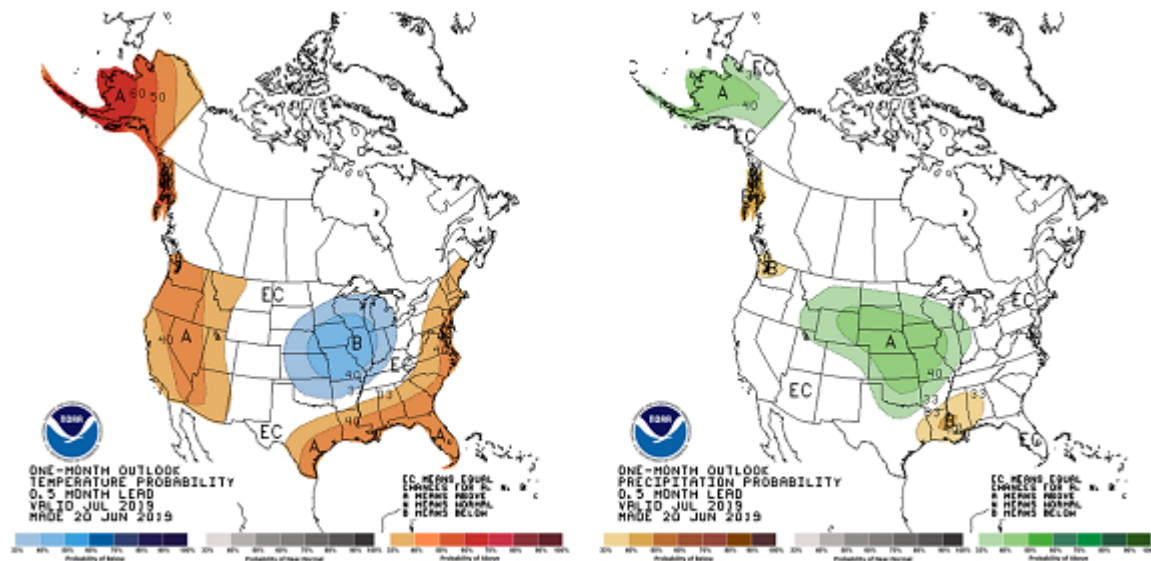
We are currently in an [El Niño Advisory status](#). Forecasters estimate there will be about a 66% chance of a weak El Niño for the summer 2019 and decline to a 50-55% chance to continue into the fall and winter. Read more about [El Niño Tracker - June 2019](#), an analysis by [CLIMAS](#) (Climate Assessment for the Southwest).

As of June 20, the [three-month outlook](#) (Jul-Aug-Sep 2019) shows a 33-60% chance for above normal temperatures for the southwestern U.S. For much of the southwestern U.S., there is an equal chance and up to 33% chance for above normal precipitation in Utah, northeastern Arizona, and northern New Mexico. These outlooks are created monthly by NOAA Climate Prediction Center and based on departures from the 1981-2010 base period. The [one-month outlook](#) for July shows above normal temperatures for the majority of the southwest and an equal chance for precipitation across the southwest. To view more short-term outlooks, please visit the [NOAA's National Weather Service Climate Prediction Center](#).

### 3-month outlook



### 1-month outlook

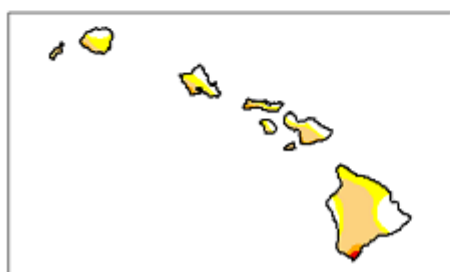
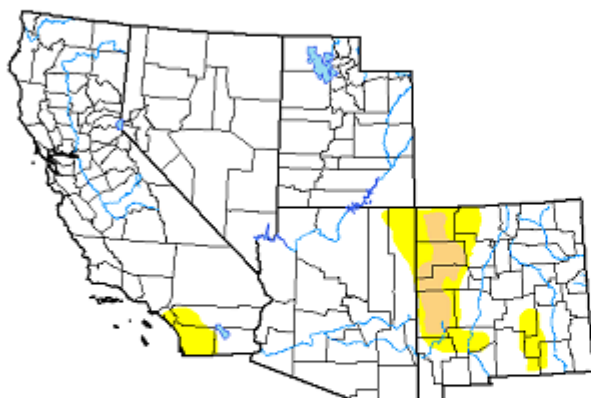


## Drought

Drought conditions remain in western New Mexico. In Hawaii, the drought conditions remain with drought intensities of D0-D3. You can view how the maps change from week to week using the [U.S. Drought Monitor Map Comparison Slider](#). Since April 8, there has been a new addition to the U.S. Drought Monitor where users can view drought conditions across the U.S. Affiliated Pacific Islands (USAPI). As of June 18, the Mariana Islands are in a D3 condition and Utirik and Wotje are in D4 conditions. For a more detailed USAPI drought summary, visit the U.S. Drought Monitor [website](#).

# USDA Southwest Climate Hub

(Released Thursday, Jun. 20, 2019)  
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	91.05	8.95	2.77	0.05	0.01	0.00
Last Week 06-11-2019	91.05	8.95	2.77	0.05	0.01	0.00
3 Months Ago 03-19-2019	63.62	36.38	10.97	5.42	1.65	0.00
Start of Calendar Year 01-01-2019	11.98	88.02	71.21	29.87	8.08	3.78
Start of Water Year 09-25-2018	5.39	94.61	74.04	49.21	22.49	5.85
One Year Ago 06-19-2018	12.11	87.89	67.77	51.29	31.21	7.26

Intensity:

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

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

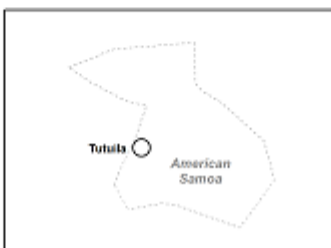
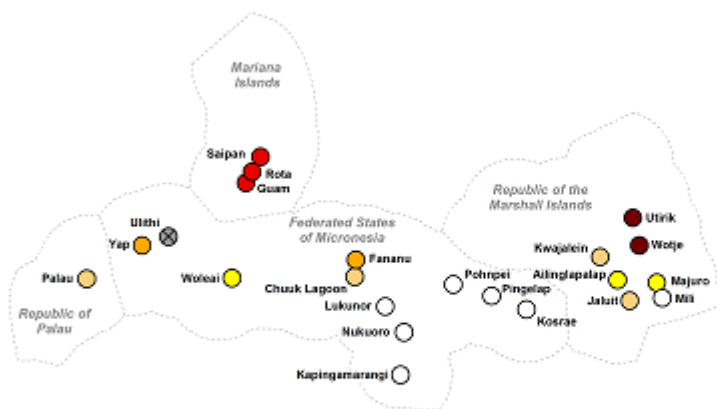
Author:  
Brad Pugh  
CPC/NOAA



[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

## U.S. Drought Monitor U.S. Affiliated Pacific Islands

June 18, 2019  
(Released Thursday, Jun. 20, 2019)  
Valid 8 a.m. EDT



Intensity:

- No Data
- No Drought or Dryness
- D0 - Abnormally Dry
- D1 - Moderate Drought
- D2 - Severe Drought
- D3 - Extreme Drought
- D4 - Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

Author:  
Claire Shield  
National Drought Mitigation Center



[droughtmonitor.unl.edu](http://droughtmonitor.unl.edu)

For the seasonal drought outlook (June 20 - September 30, 2019), drought will likely be removed in western New Mexico. However, the outlook predicts drought will persist in Hawai'i.

[Subscribe](#)[Past Issues](#)[Translate ▾](#)**Drought Tendency During the Valid Period**

Released June 20



## Announcements

### [Summer Institute for Climate Change Education](#)

August 5-7, 2019

[Register Here](#)

The 14th Annual Summer Institute for Climate Change Education will be in Washington D.C, co-hosted by the Lowell School and partnering with the NOAA Climate Program Office and others. Join a network of teachers from across the country dedicated to bringing climate change education into Humanities classrooms. Content will be focused for 6-12 grade teachers in Social Studies/ELA/Political Science/Environmental Studies subjects.

## Funding Opportunities

### **Agroforestry Outreach**

Range of Awards: Up to \$45,000

**Deadline: July 15, 2019**[More information](#)

### **Natural Resources Conservation Service Conservation Innovation Grants (CIG)**

**Deadline: July 30, 2019**[More information](#)

### **Tribal Colleges Research Grants Program, NIFA**

Who is eligible to apply: 1994 Land-Grant Institutions

Estimated Total Program Funding: \$3,700,000

**Deadline: August 9, 2019**[More information](#)



[Subscribe](#)[Past Issues](#)[Translate ▼](#)

Estimated Total Program Funding: \$8,000,000

**Deadline: September 30, 2019**

[More information](#)

**Foundational and Applied Science Program, AFRI**

Range of Awards: Up to \$1,000,000

**Deadline: December 18, 2019**

[More information](#)


## Events


- [INCA and Arizona Association of Tribal Conservation Districts Conference](#) July 2-3, 2019 Prescott, AZ
- [Soil Water Conservation Society International Annual Conference](#) July 28-31, 2019 Pittsburgh, PA
- [Tribes and First Nations Climate Change Summit](#) July 30-31, 2019 Airway Heights, WA
- [2019 NACD Summer Conservation Forum and Tour](#) August 2-6, 2016 Santa Fe, NM
- [Ecological Society of America](#) August 11-16, 2019 Louisville, KY
- [Biennial Conference of Science & Management on the Colorado Plateau & Southwest Region](#) September 9-12, 2019 Flagstaff, AZ
- [Biennial U.S. Drought Monitor Forum](#) September 17-19, 2019 Bowling Green, KY
- [Food Sovereignty Summit](#) September 23-26, 2019 Green Bay, WI
- [Northwest Climate Conference](#) October 8-10, 2019 Portland, OR
- [Agricultural Resilience Clinic with Nicole Masters](#) October 18-19, 2019 Hunt, TX

## Webinars

- [Land Use, Land Cover, and Forests in a Changing Climate: Findings from the Fourth National Climate Assessment](#) July 2, 2019 (12 pm ET)
- [Ecosystems, Agriculture, and Rural Communities in a Changing Climate: Findings from the Fourth National Climate Assessment](#) July 9, 2019 (12 pm ET)
- [Climate Projections as a Way to Illustrate Future Possibilities](#) July 25, 2019 (3 pm ET)

Join our mailing list

 [Visit our website](#)

 [Follow us on Twitter](#)

Copyright © 2019 USDA Southwest Climate Hub, All rights reserved.

Want to change how you receive these emails?

You can [update your preferences](#) or [unsubscribe from this list](#).