

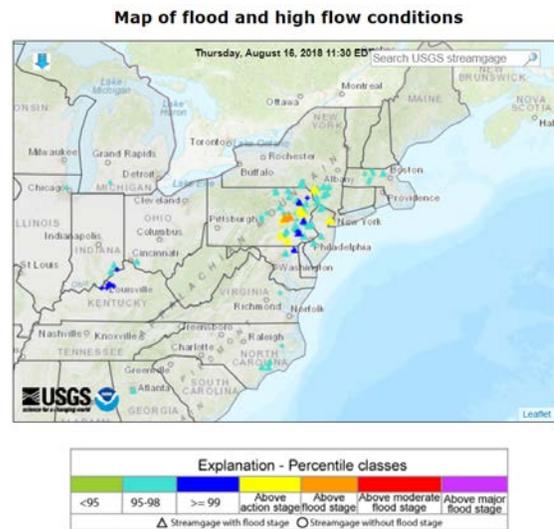
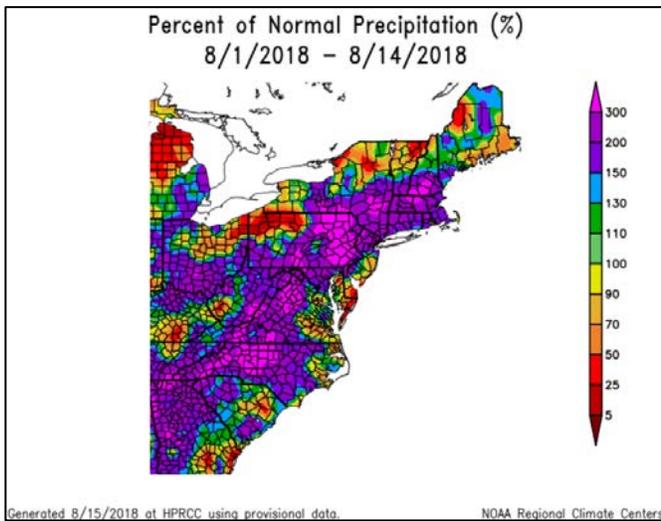
Water and Climate Update

August 16, 2018

The Natural Resources Conservation Service produces this weekly report using data and products from the [National Water and Climate Center](#) and other agencies. The report focuses on seasonal snowpack, precipitation, temperature, and drought conditions in the U.S.

Precipitation	1	Other Climatic and Water Supply Indicators	12
Temperature	6	Short- and Long-Range Outlooks.....	16
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Heavy rain and flooding continue across the Northeast



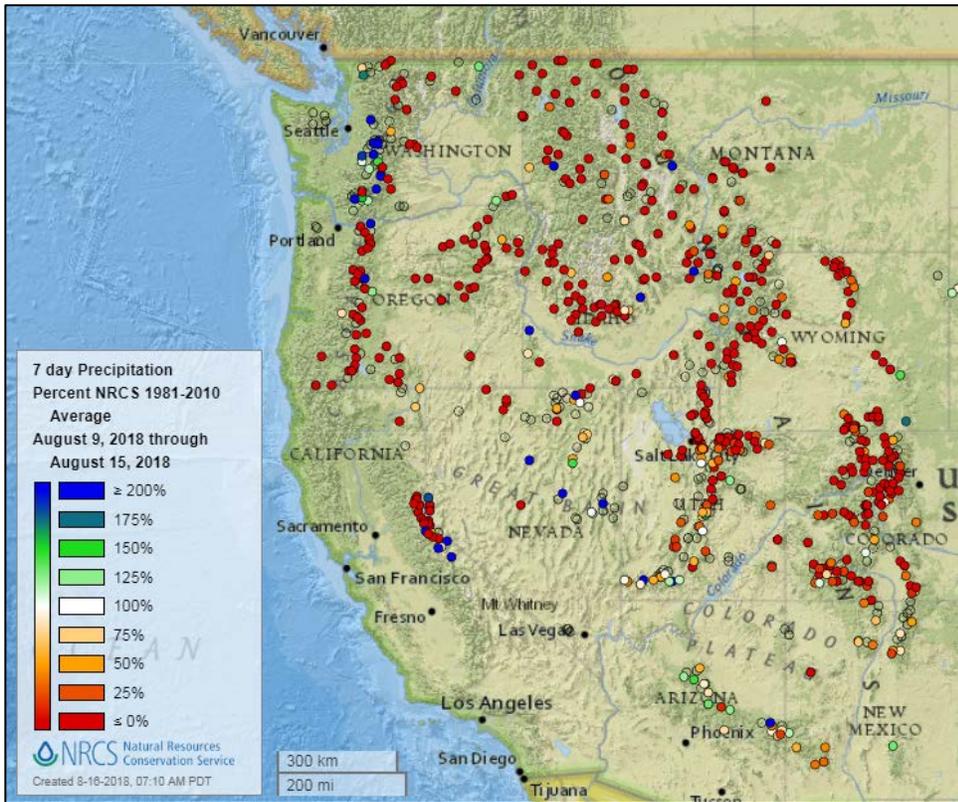
August has brought heavy rain and flooding across the mid-Atlantic and Northeast. In some areas of the Northeast this is a continuation of heavy rain and flooding experienced in July. The heaviest rainfall in the last few days has topped 11 inches in upstate New York, and over 8 inches in New Jersey and Pennsylvania. Flooding in the region has damaged homes and businesses, people have been rescued from dangerous situations, and millions of people have been affected. A state of emergency for flooding has been declared in several counties in New York and New Jersey.

Related:

- [Flash flooding still threatening millions of people in the northeast](#) – WIVB-TV - NY
- [Heavy rains cause more flooding, damage in NJ; states of emergency declared in NJ, NY](#) – WPIX - NJ
- [Flash Flooding: The latest on State of Emergency, road closures, water levels](#) – pressconnects - NY
- [Owner of NJ Car Dealership in Viral Flooding Video Says His Business Isn't to Blame for Flooding Nearby Homes During Wild Storm](#) - NBC - NY
- [It's OK to wine: Seneca Lake wineries reopen after flooding](#) – Democrat and Chronicle - NY
- [Flooding inundates O'Malia's farm as 29-foot Susquehanna crest looms](#) – The Times Leader - PA

Precipitation

Last 7 Days, NRCS SNOTEL Network

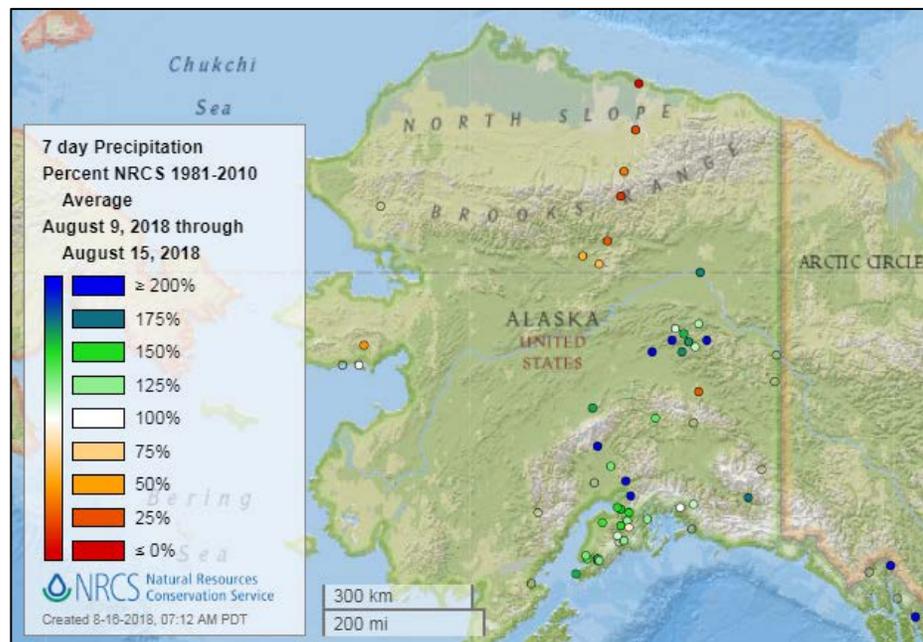


[7-day precipitation percent of average map](#)

See also:
[7-day total precipitation values \(inches\) map](#)

[Alaska 7-day precipitation percent of average map](#)

See also: [Alaska 7-day total precipitation values \(inches\) map](#)



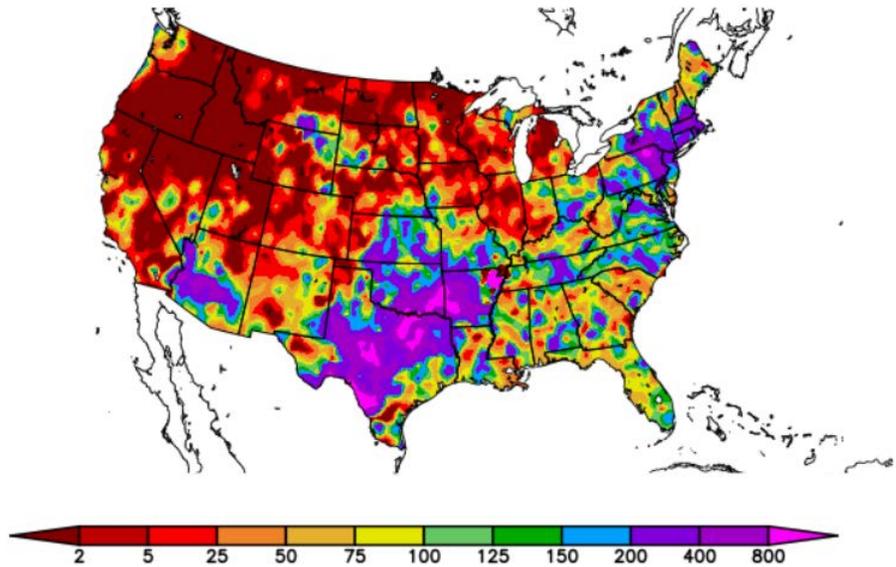
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day precipitation percent of normal map](#) for the continental U.S.

See also: [7-day total precipitation values \(inches\) map](#)

Percent of Normal Precipitation (%)
8/9/2018 – 8/15/2018



Generated 8/16/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

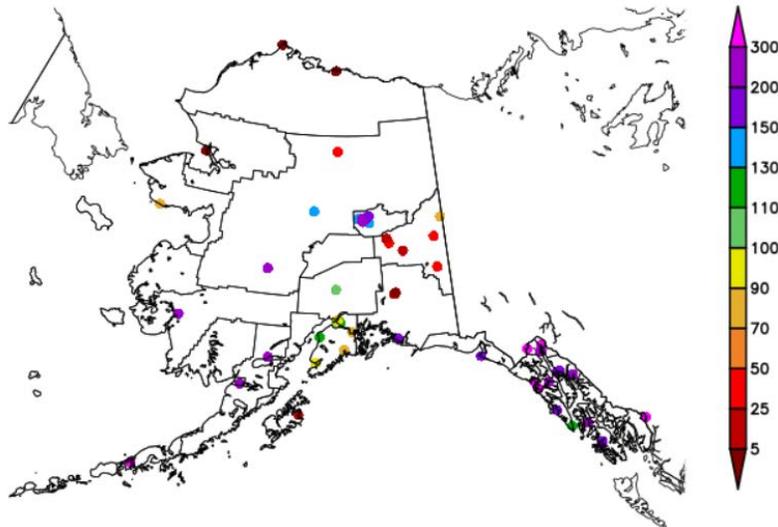
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day precipitation anomaly map](#) for Alaska.

See also: [7-day total precipitation values \(inches\) map](#)

Percent of Normal Precipitation (%)
8/9/2018 – 8/15/2018



Generated 8/16/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

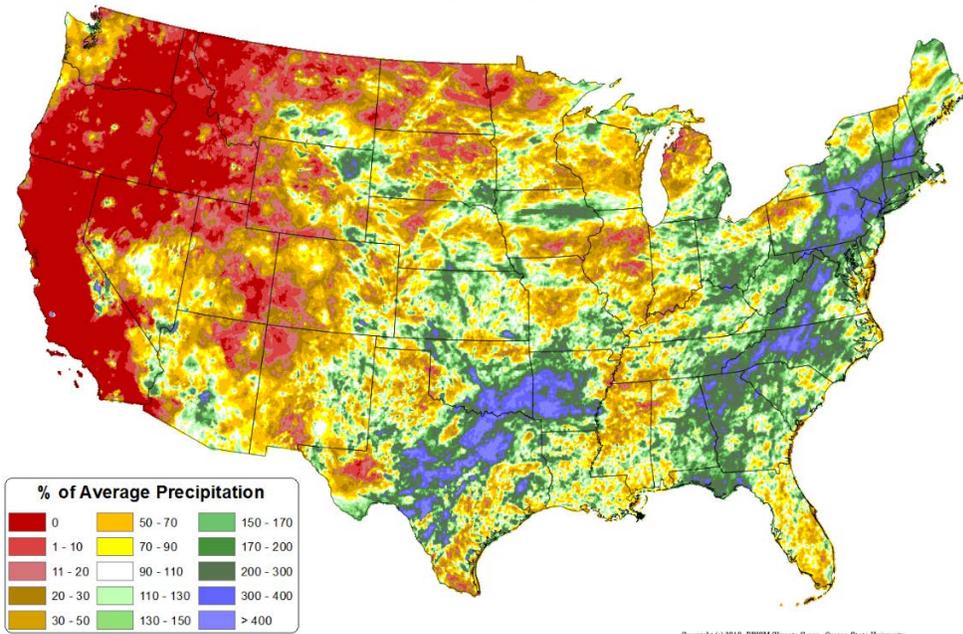
Water and Climate Update

Month-to-Date, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

Total Precipitation Anomaly: 01 August 2018 - 15 August 2018
Period ending 7 AM EST 15 Aug 2018
Base period: 1981-2010
(Map created 16 Aug 2018)

[Month-to-date national total precipitation percent of average map](#)

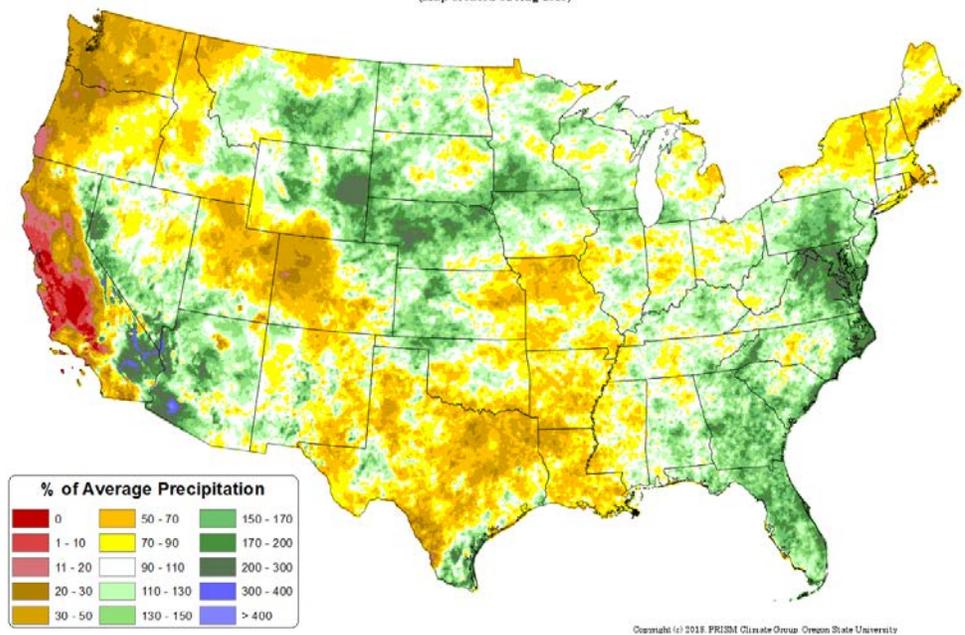


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

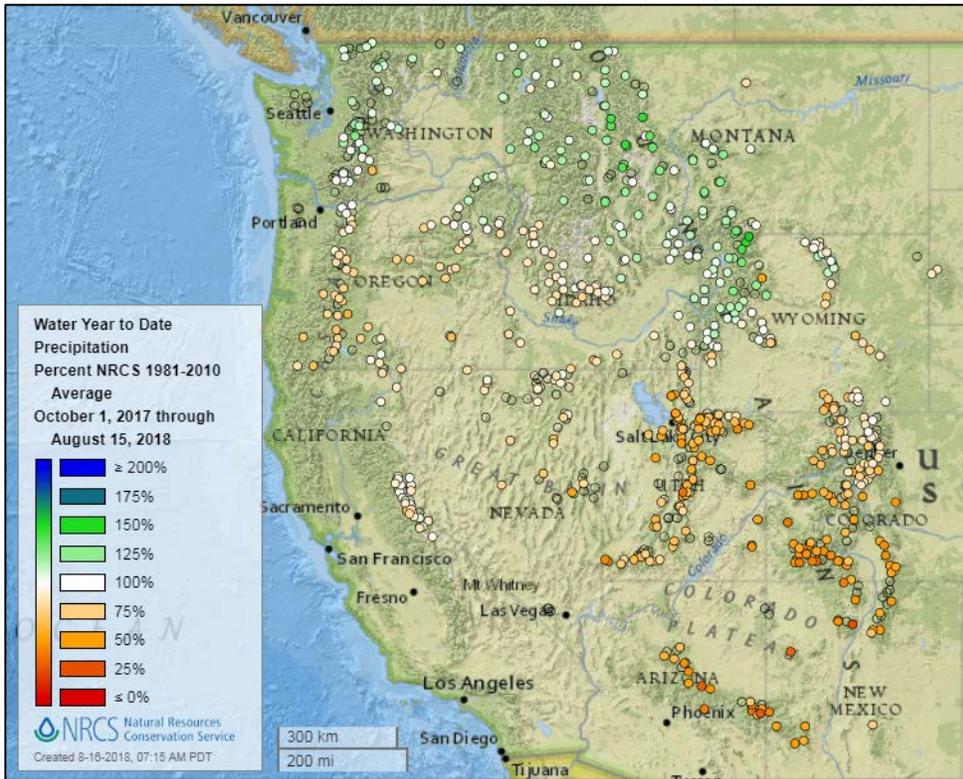
Source: PRISM

[May through July 2018 total precipitation percent of average map](#)

Total Precipitation Anomaly: May 2018 - July 2018
Period ending 7 AM EST 31 Jul 2018
Base period: 1981-2010
(Map created 02 Aug 2018)

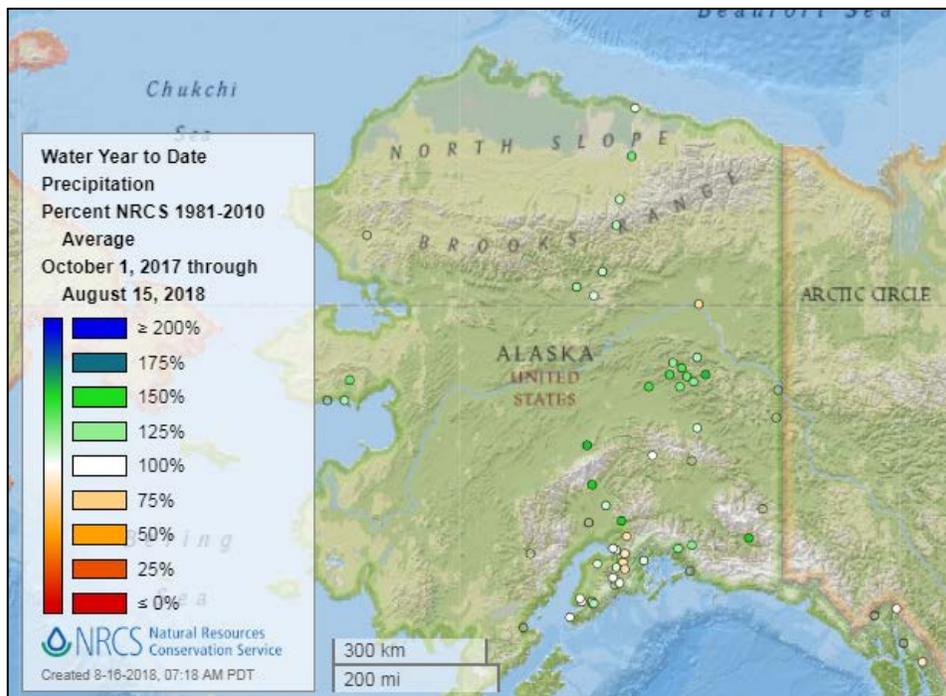


Water Year-to-Date, NRCS SNOTEL Network



[2018 water year-to-date precipitation percent of average map](#)

See also: [2018 water year-to-date precipitation values \(inches\) map](#)



[Alaska 2018 water year-to-date precipitation percent of average map](#)

See also: [Alaska 2018 water year-to-date precipitation values \(inches\) map](#)

Temperature

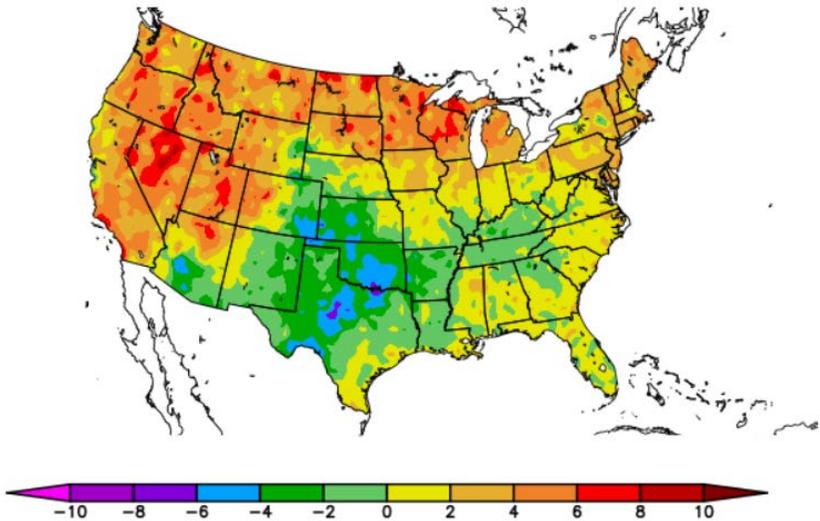
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day temperature anomaly map](#) for the continental U.S.

See also: [7-day temperature \(° F\) map](#)

Departure from Normal Temperature (F)
8/9/2018 – 8/15/2018



Generated 8/16/2018 at HPRCC using provisional data.

NOAA Regional Climate Centers

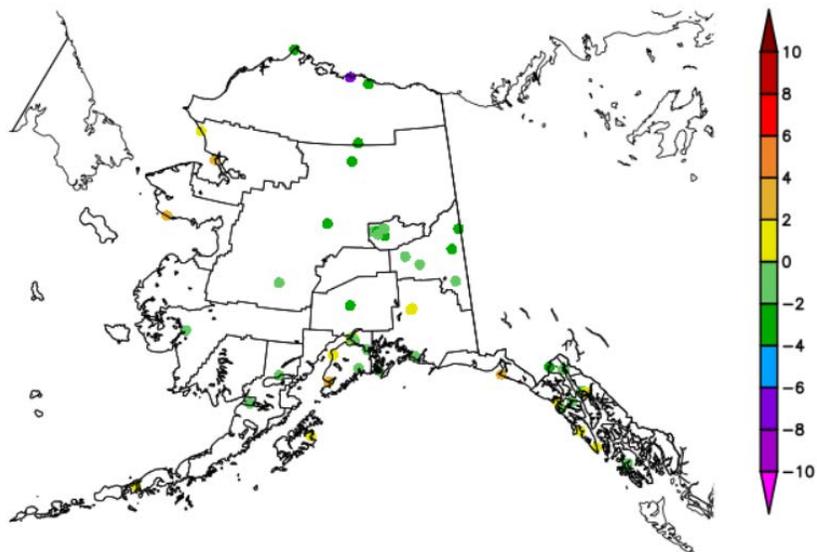
Last 7 Days, National Weather Service (NWS) Networks

Source: Regional Climate Centers

[7-day temperature anomaly map](#) for Alaska.

See also: [7-day temperature \(° F\) map](#)

Departure from Normal Temperature (F)
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NOAA Regional Climate Centers

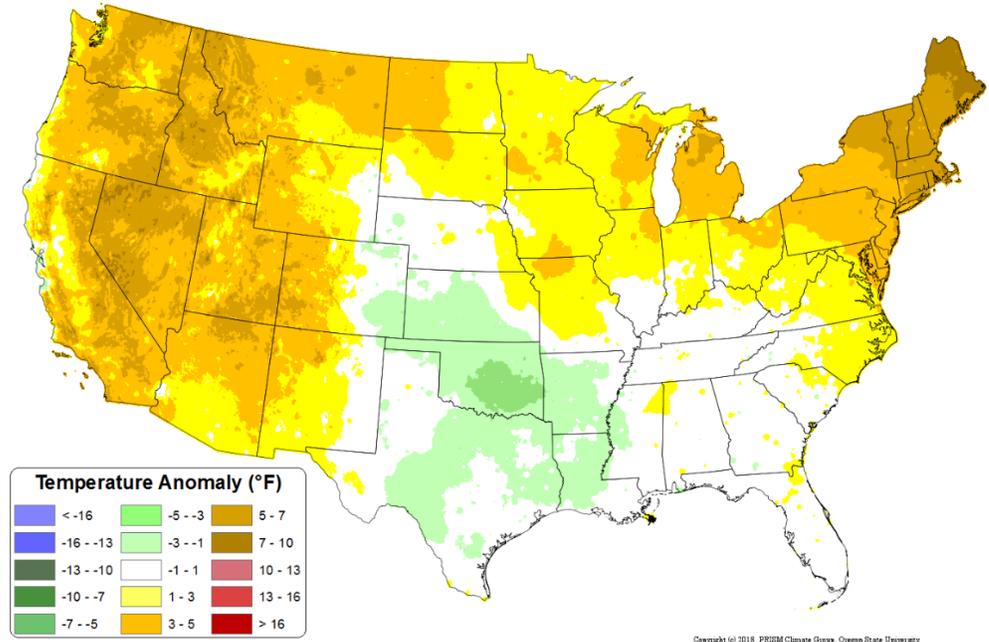
Water and Climate Update

Month-to-Date, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

[Month-to-date national daily mean temperature anomaly map](#)

Daily Mean Temperature Anomaly: 01 August 2018 - 15 August 2018
Period ending 7 AM EST 15 Aug 2018
Base period: 1981-2010
(Map created 16 Aug 2018)

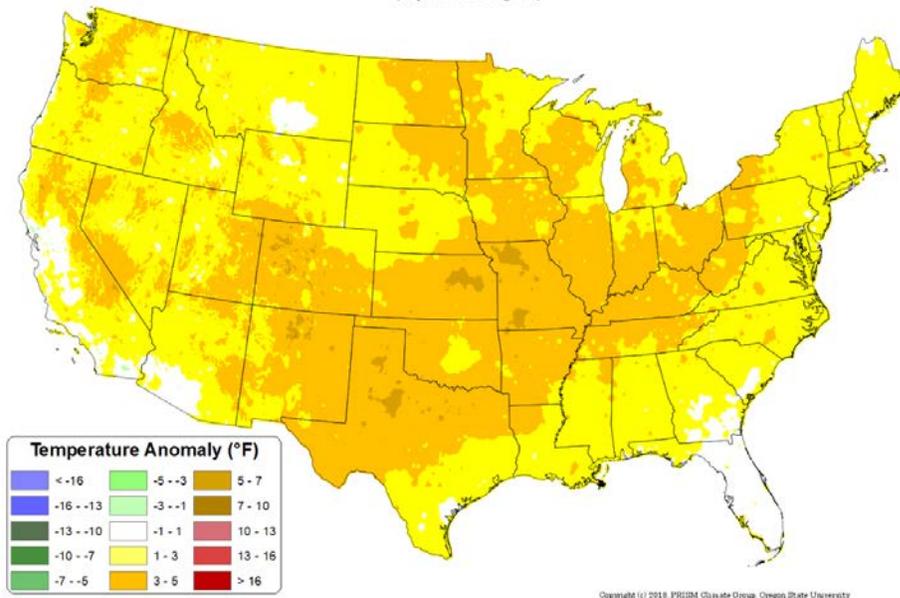


Last 3 Months, All Available Data Including SNOTEL and NWS Networks

Source: PRISM

[May through July 2018 daily mean temperature anomaly map](#)

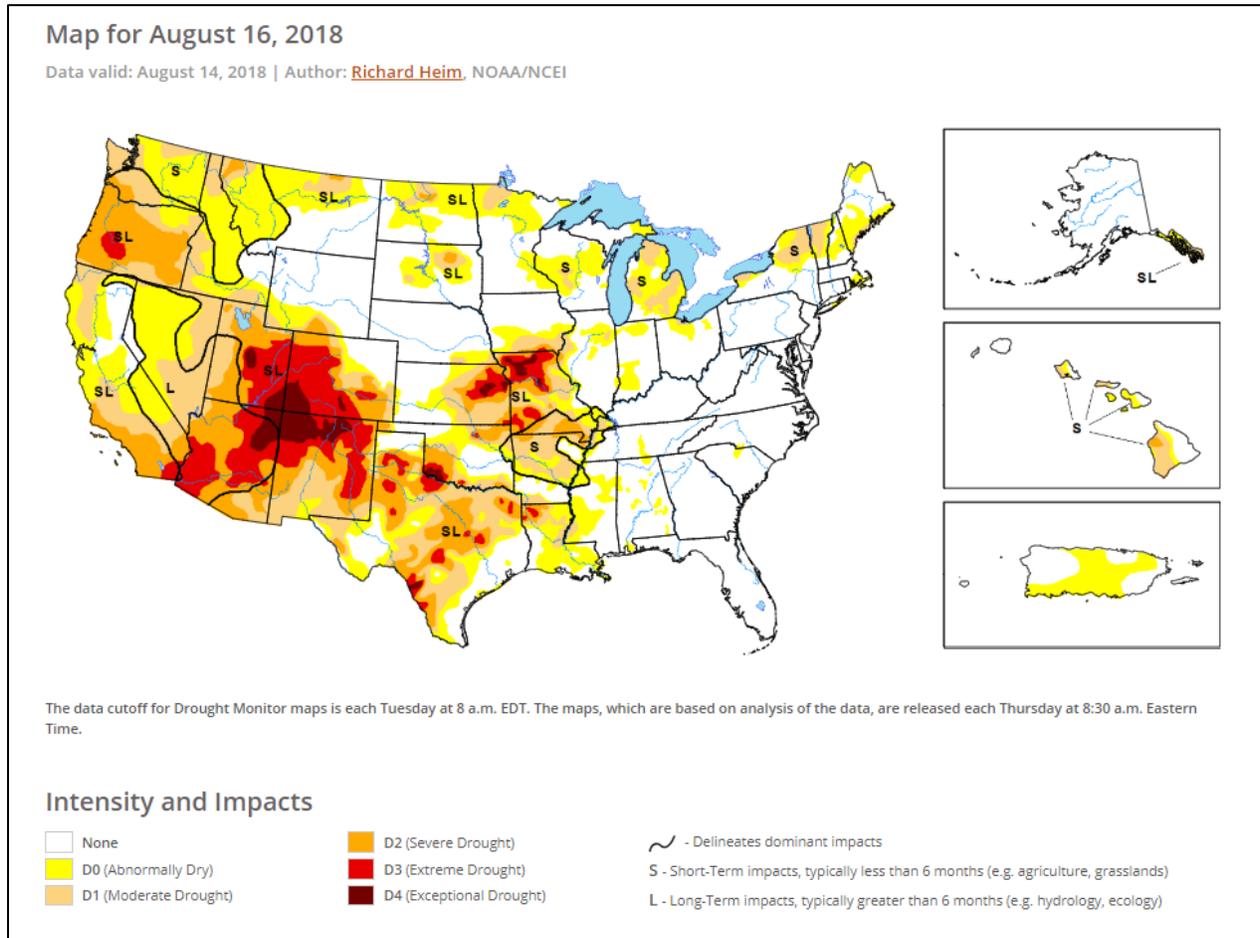
Daily Mean Temperature Anomaly: May 2018 - July 2018
Period ending 7 AM EST 31 Jul 2018
Base period: 1981-2010
(Map created 02 Aug 2018)



Drought

[U.S. Drought Monitor](#) Select map below.

[U.S. Drought Portal](#) Comprehensive drought resource.



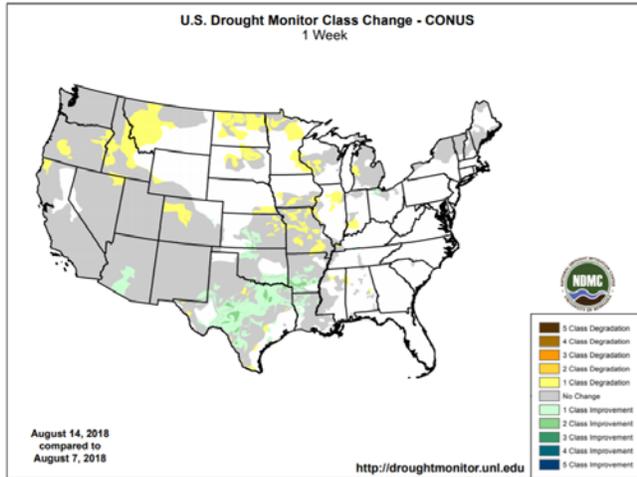
Current [National Drought Summary](#), August 16, 2018

Author: Richard Heim, NOAA/NCEI

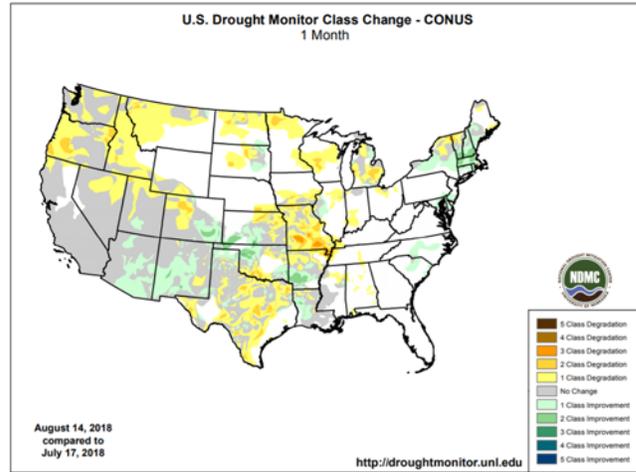
“The week was drier than normal across northern portions of New England, and wetter than normal in the southern parts of the Northeast. D0 was trimmed from western Suffolk County on Long Island where 90-day precipitation was above normal, but otherwise no changes were made to the drought depiction in the Northeast. D0-D1 continued in the northern portions. In Maine, dry conditions were affecting wells as groundwater levels continued their slow decline over the summer. According to August 12 U.S. Department of Agriculture (USDA) reports, 31% of the pasture and rangeland in New Hampshire was in poor to very poor condition, and 43% of the topsoil and 45% of the subsoil was short or very short of moisture; 88% of the topsoil and 87% of the subsoil in Vermont was short or very short of moisture. As summarized by the National Drought Mitigation Center (NDMC), water restrictions or water shortages were reported in communities in New York and Massachusetts.”

Changes in Drought Monitor Categories over Time

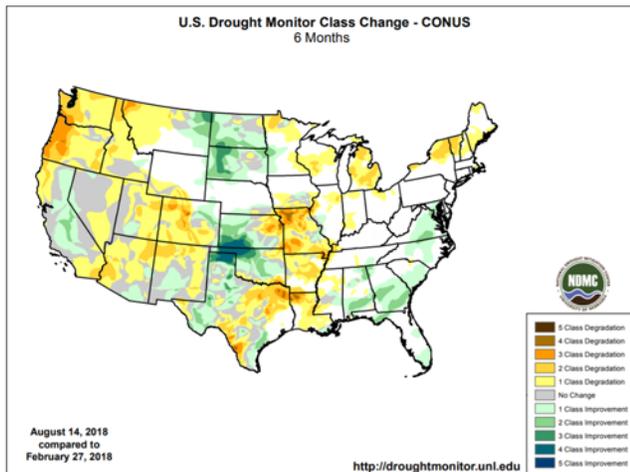
1 Week



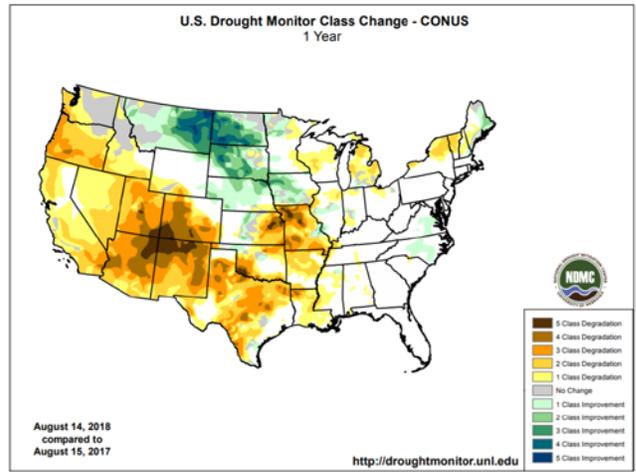
1 Month



6 Months



1 Year

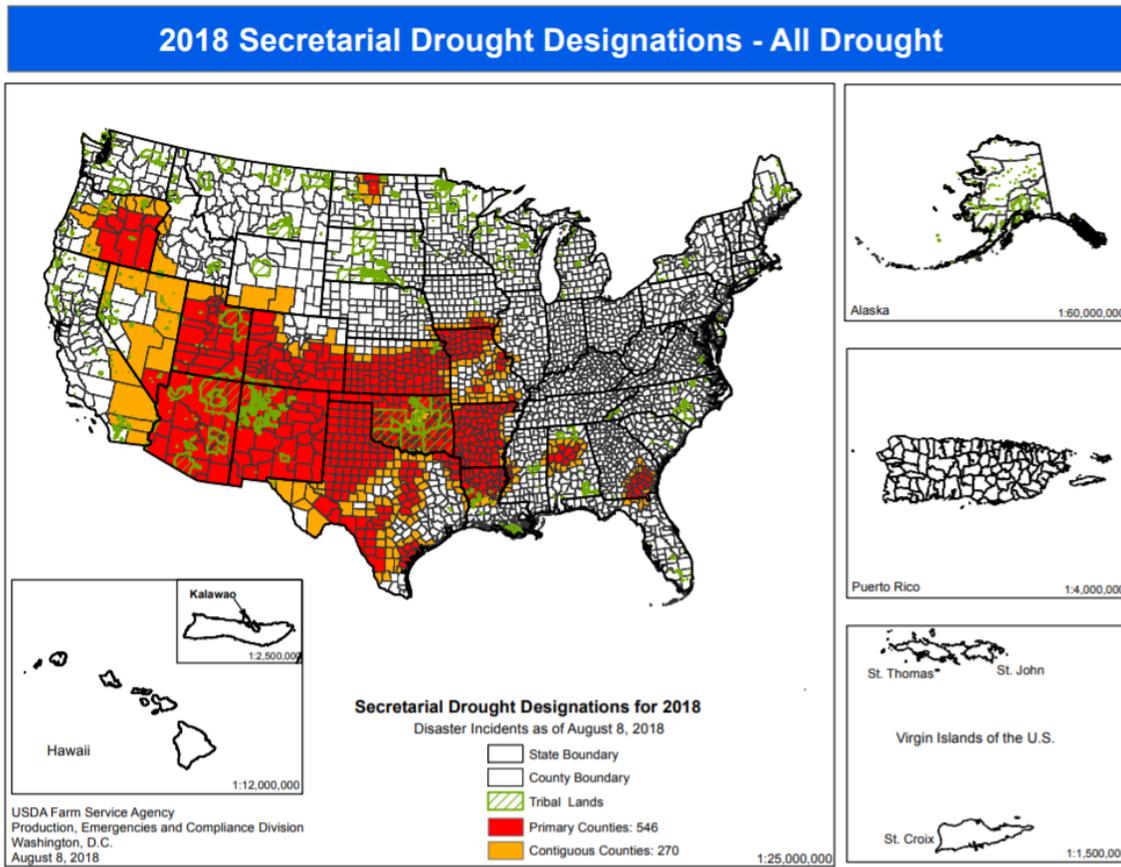


Changes in drought conditions over the last 12 months

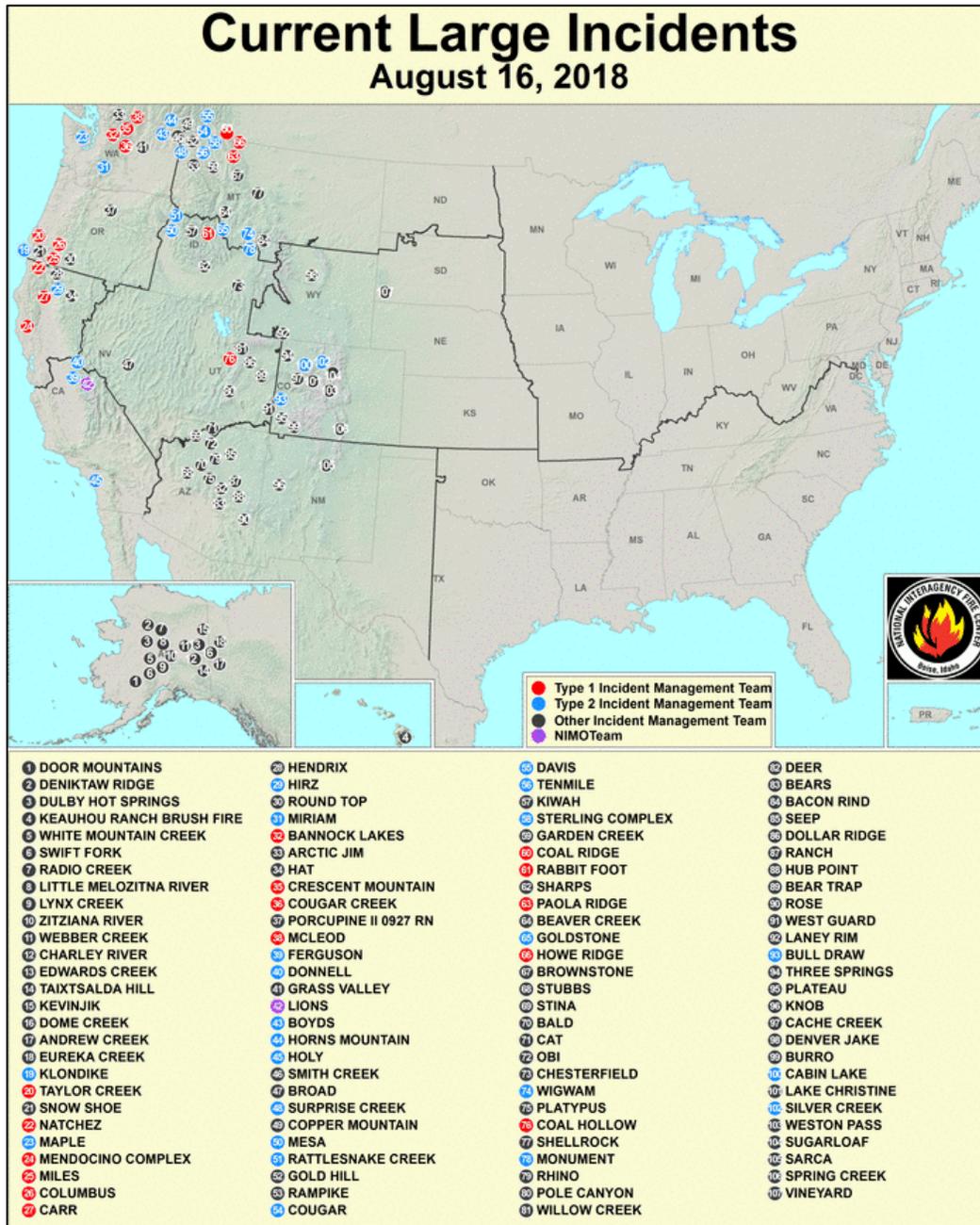
Highlighted Drought Resources

- [Drought Impact Reporter](#)
- [Quarterly Regional Climate Impacts and Outlook](#)
- [U.S. Drought Portal Indicators and Monitoring](#)
- [U.S. Population in Drought, Weekly Comparison](#)
- [USDA Disaster and Drought Information](#)

USDA 2018 Secretarial [Drought Designations](#)



Wildfires: [USDA Forest Service Active Fire Mapping](#)



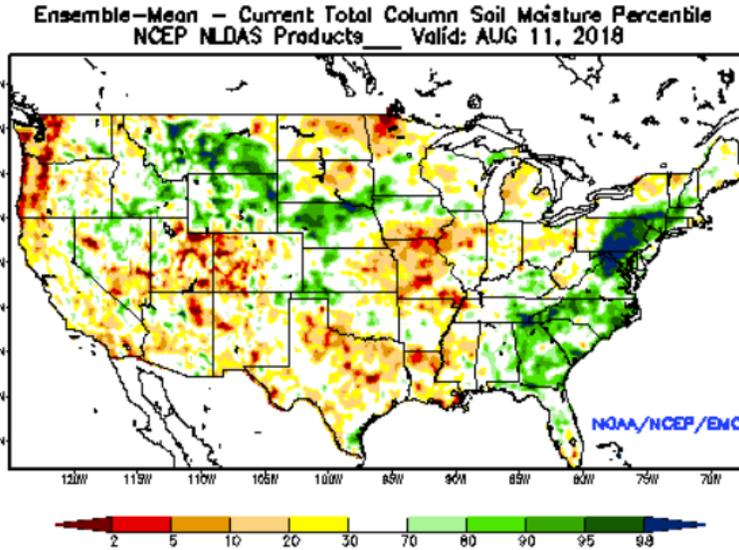
Highlighted Wildfire Resources

- [National Interagency Fire Center](#)
- [InciWeb Incident Information System](#)
- [Significant Wildland Fire Potential Outlook](#)

Other Climatic and Water Supply Indicators

Soil Moisture

Source: NOAA National Centers for Environmental Prediction



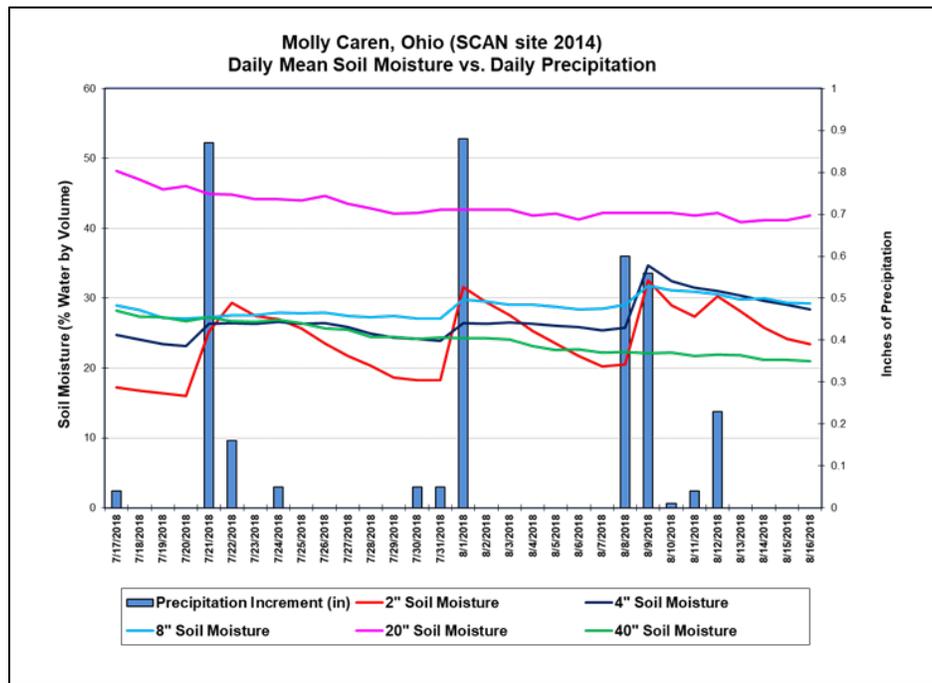
Soil Moisture Data Portals

- [CRN Soil Moisture](#)
- [Texas A&M University North American Soil Moisture Database](#)
- [University of Washington Experimental Modeled Soil Moisture](#)

[Modeled soil moisture percentiles](#) as of August 11, 2018

Soil Moisture Data

Source: NRCS [Soil Climate Analysis Network](#) (SCAN)

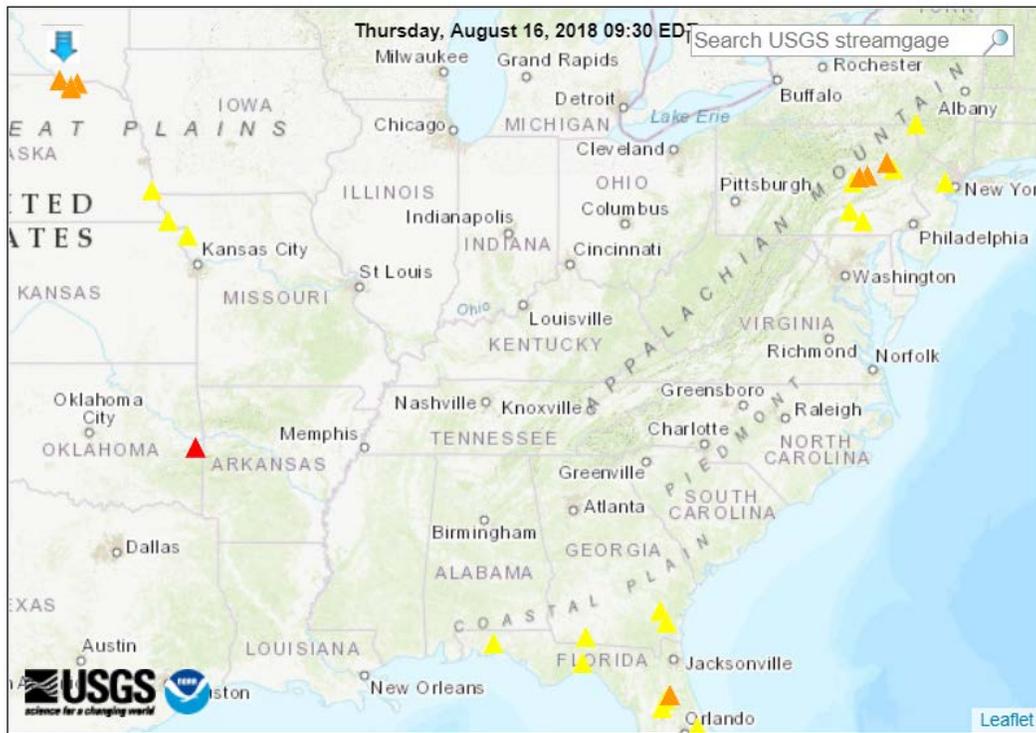


This chart shows the precipitation events during the last 30 days at the [Molly Caren SCAN site 2014](#) in Ohio. The largest event occurred from August 8 – 12, where accumulated precipitation totaled 1.44 inches. During this event the 2-, 4-, and 8-inch soil moisture sensors showed an increase in soil moisture levels, whereas the deeper sensors showed little change.

Streamflow

Source: USGS

Map of flood and high flow conditions



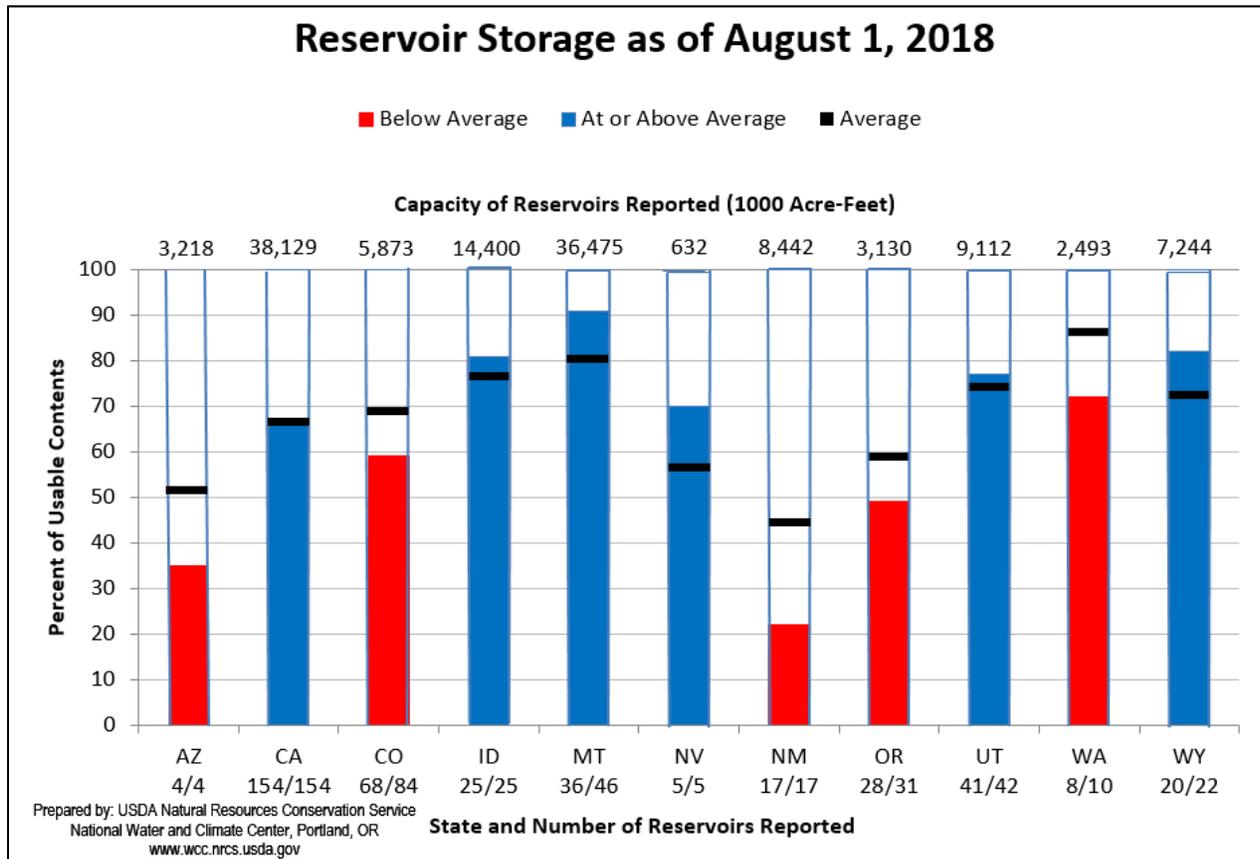
Explanation - Percentile classes						
<95	95-98	>= 99	Above action stage	Above flood stage	Above moderate flood stage	Above major flood stage
▲ Streamgage with flood stage ○ Streamgage without flood stage						

[WaterWatch: Streamflow, drought, flood, and runoff conditions](#)

Reservoir Storage

Western States Reservoir Storage

Source: NRCS National Water and Climate Center



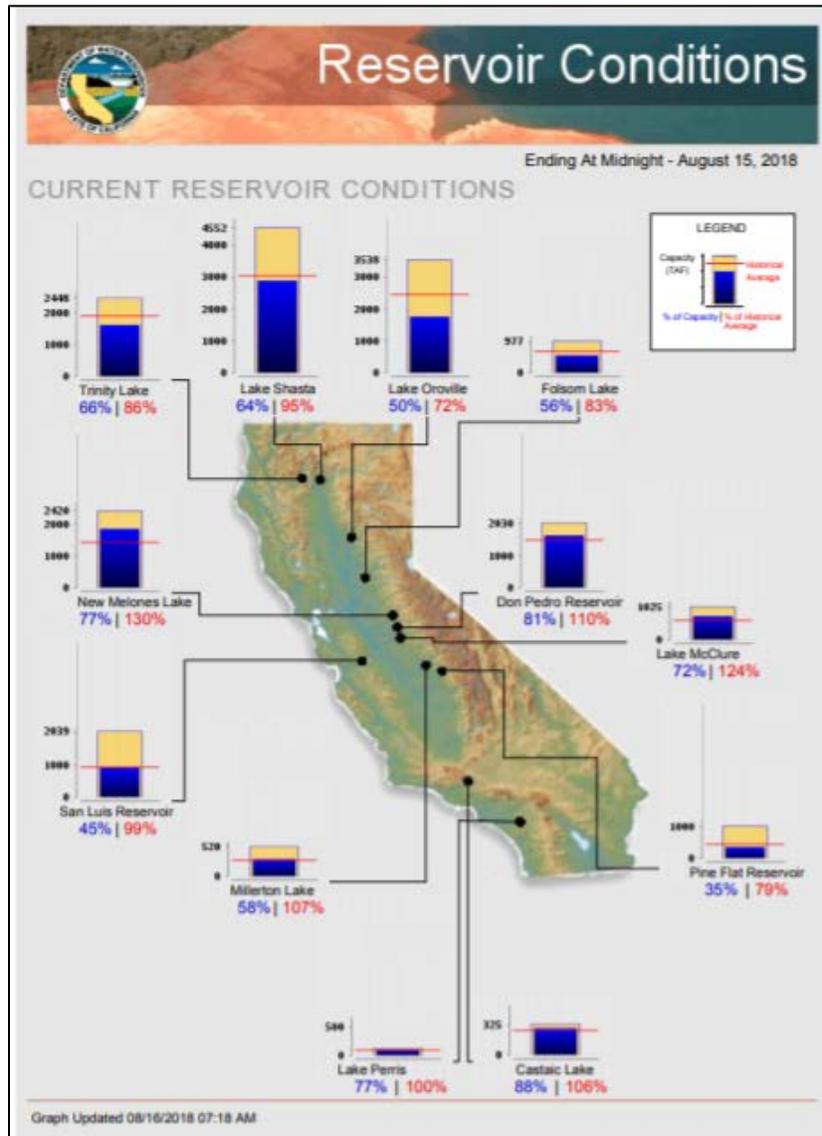
August Reservoir Storage: [Chart](#) | [Dataset](#)

U.S. Bureau of Reclamation Hydromet Tea Cup Reservoir Depictions

- [Upper Colorado](#)
- [Pacific Northwest/Snake/Columbia](#)
- [Sevier River Water, Utah](#)
- [Upper Missouri, Kansas, Oklahoma, Texas](#)

Current California Reservoir Conditions

Source: California Department of Water Resources



[Current California Reservoir Conditions](#)

Short- and Long-Range Outlooks

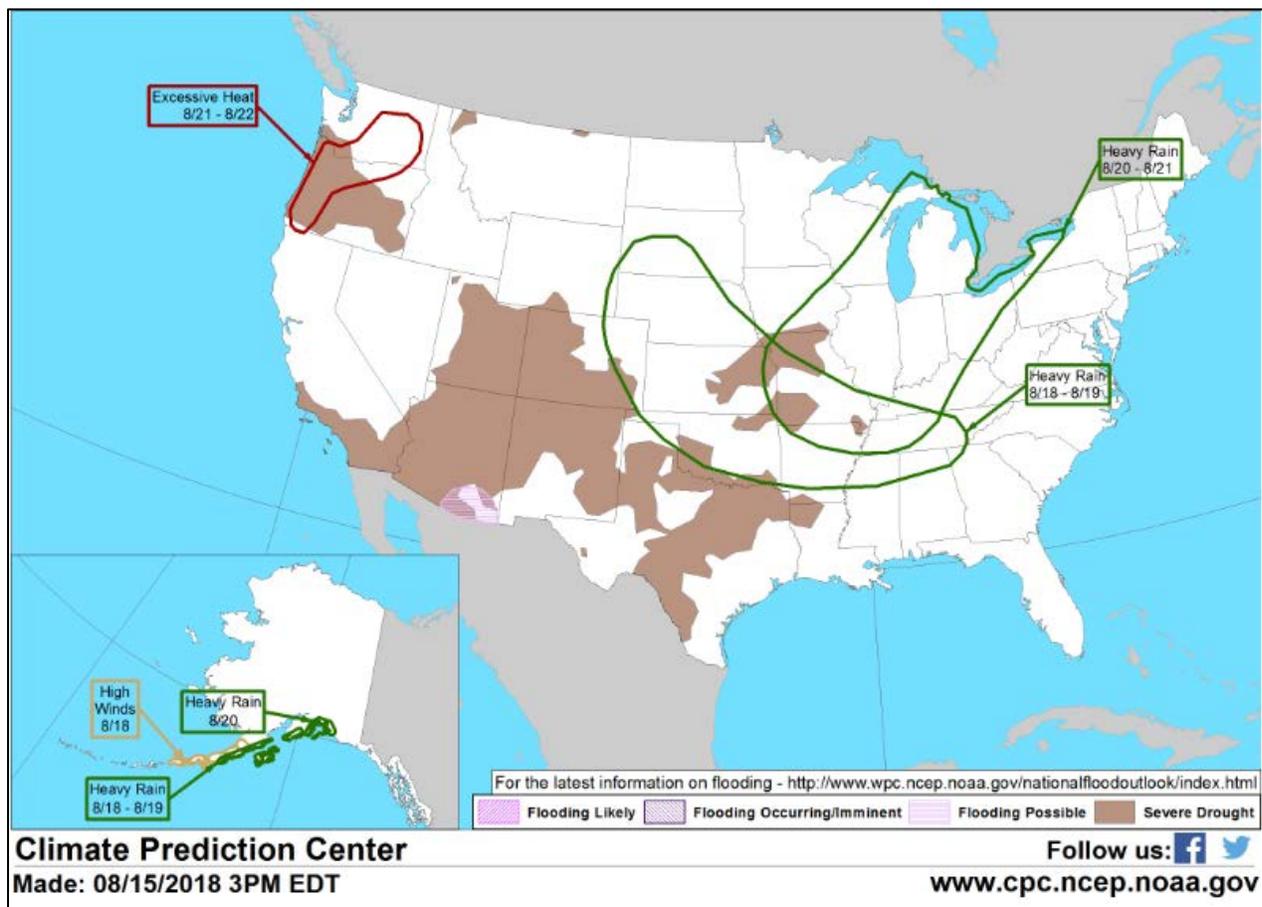
Agricultural Weather Highlights

Author: Brad Rippey, Agricultural Meteorologist, USDA/OCE/WAOB

National Outlook, Thursday, August 16: “: Late-summer heat will continue in much of the West and briefly spread eastward across the nation’s northern tier. During the weekend, however, cool weather will return to the Plains and parts of neighboring regions. Meanwhile, several slow-moving disturbances will maintain showery conditions across large parts of the central and eastern U.S. Five-day rainfall totals could reach 1 to 4 inches or more across the Plains, Midwest, and South. Some of the highest totals can be expected across the interior Southeast. In contrast, mostly dry weather will persist in the Pacific Coast States. The NWS 6- to 10-day outlook for August 21 – 25 calls for the likelihood of below-normal temperatures across the Plains, mid-South, and Midwest, while hotter-than-normal weather will prevail in the Far West and along the Atlantic and Gulf Coasts. Meanwhile, near- to above-normal rainfall nearly nationwide should contrast with drier-than-normal conditions in southern Florida and from the Pacific Northwest into the upper Midwest.”

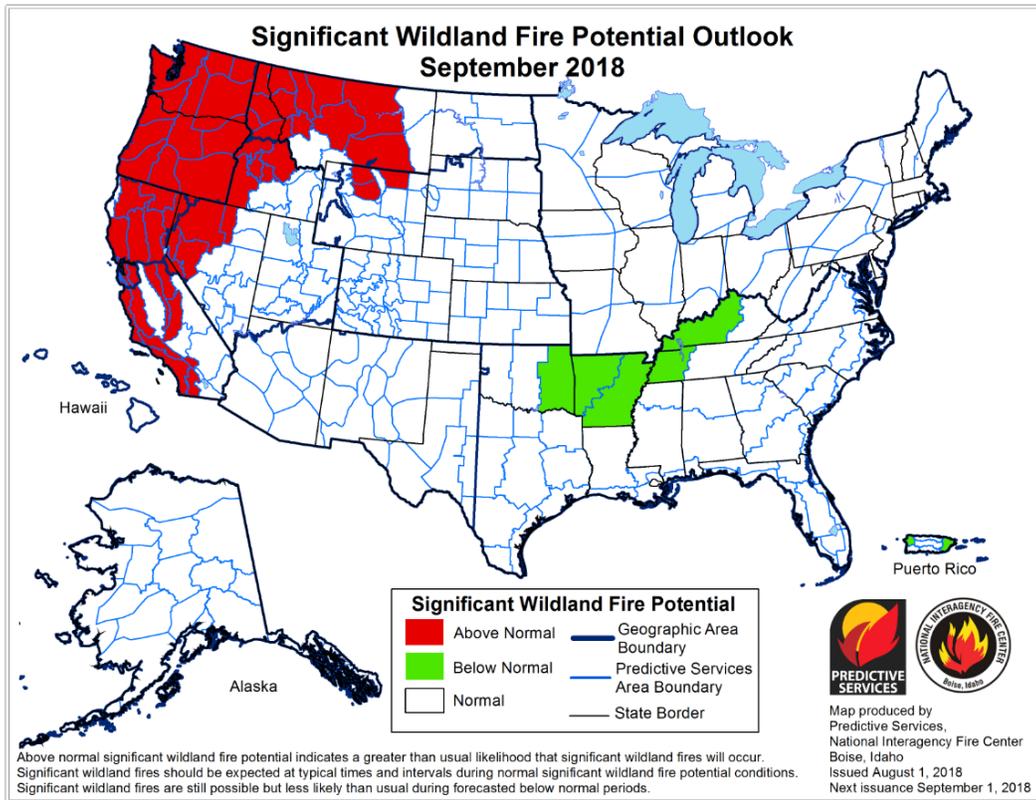
Weather Hazard Outlook August 18 – 22, 2018

Source: Climate Prediction Center



Significant Wildland [Fire Potential Outlook](#)

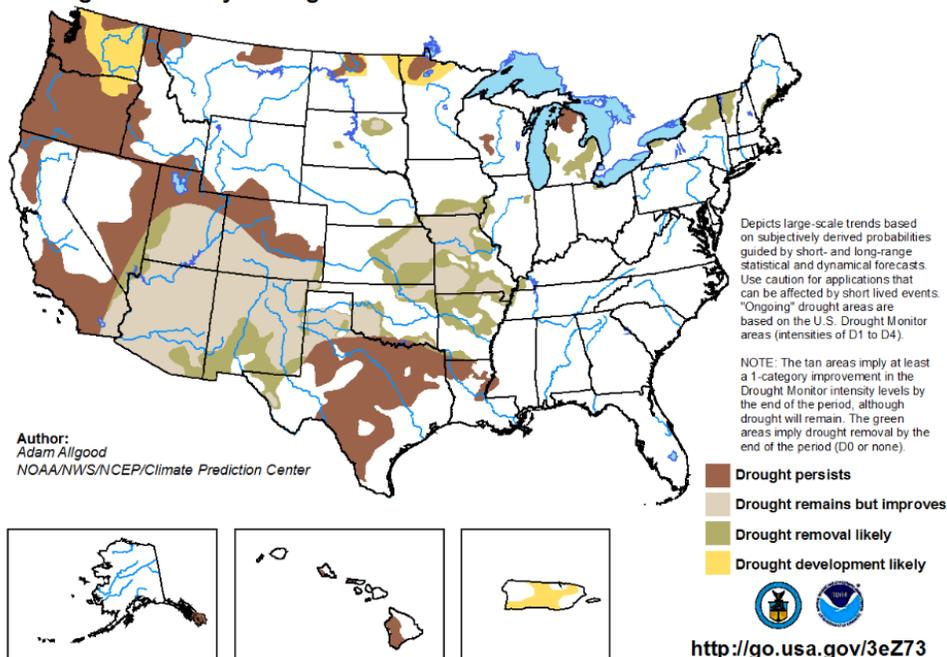
Source: National Interagency Fire Center



Seasonal Drought Outlook: [August 16 - November 30, 2018](#)

Source: National Weather Service

U.S. Seasonal Drought Outlook Valid for August 16 - November 30, 2018
 Drought Tendency During the Valid Period Released August 16, 2018

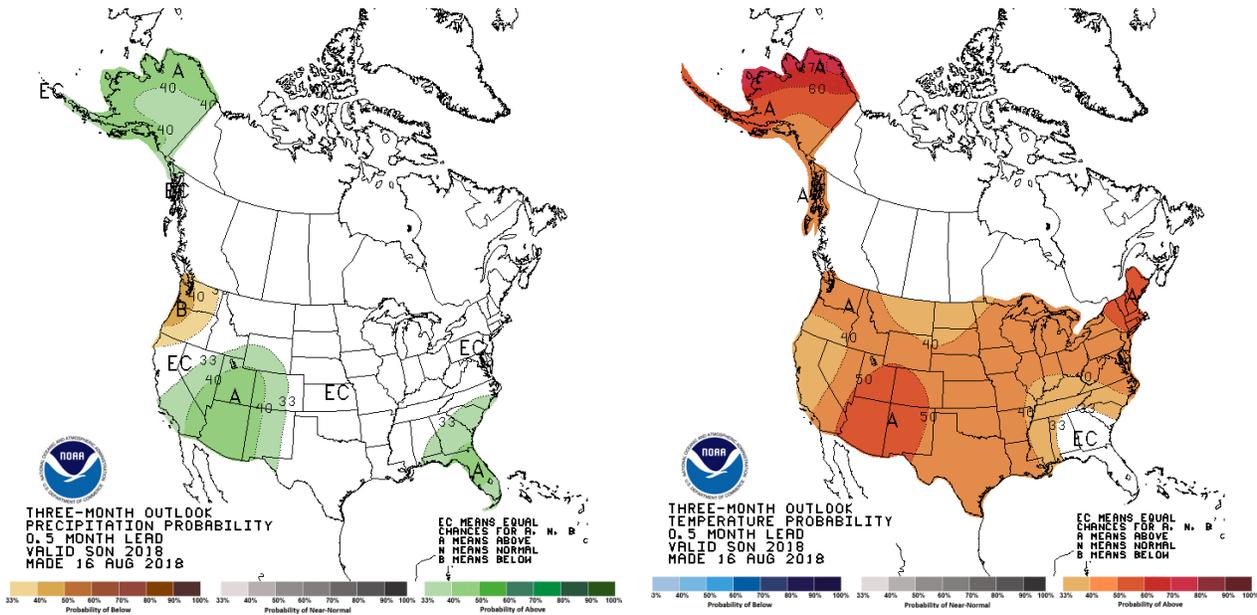


Climate Prediction Center 3-Month Outlook

Source: National Weather Service

Precipitation

Temperature



[September-October-November \(SOM\) 2018 precipitation and temperature outlook summaries](#)

More Information

The NRCS [National Water and Climate Center](#) publishes this weekly report. We welcome your feedback. If you have questions or comments, please [contact us](#).