Severe storms across much of the eastern U.S.

Severe storms over the past few days have continued to move eastward, affecting much of the south, southeast, and mid-Atlantic states. Heavy rain, severe thunderstorms, tornadoes, and wind impacted much of the South and Southeast. The National Weather Service is forecasting from one inch to over four inches of rain in next few days for the region. Flooding may impact these areas as well. Northern New York and New England are forecast to have from 6 to over 24 inches of snow.

Related:

Sleet, snow, and severe storms to impact millions from Texas to Maine – St. Louis Post-Dispatch (MO)
Winter weather alerts stretch over 2,300 miles from New Mexico to Maine – WRAL (NC)
Powerful Eastern U.S. storm unleashing tornadoes and flooding rains in Southeast, while heavy snow will plaster interior New England – Washington Post
Tornadoes, hail, flash flooding hit Mississippi – The Clarion-Ledger on MSN (MS)
Severe weather and flooding continues for parts of Alabama; two tornado watches in effect – al.com (AL)
Severe storms hit the South, causing 1 death; up to 20 inches of snow threatens the Northeast – USA Today
Snow

Snow water equivalent percent of median map

See also:
Snow water equivalent values (inches) map

Alaska snow water equivalent percent of median map

See also:
Alaska snow water equivalent values (inches) map
Current Snow Depth, National Weather Service Snow Analysis
Source: NOAA Office of Water Prediction
Precipitation

Last 7 Days, NRCS SNOTEL Network

See also:
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**

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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**
Month-to-Date, All Available Data Including SNOTEL and NWS Networks
Source: PRISM

Month-to-date national total precipitation percent of average map

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

November 2019 through January 2020 total precipitation percent of average map
Water Year-to-Date, NRCS SNOTEL Network

2020 water year-to-date precipitation percent of average map

See also:
2020 water year-to-date precipitation values (inches) map

Alaska 2020 water year-to-date precipitation percent of average map

See also:
Alaska 2020 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 contiguous U.S.

See also: 7-day temperature (° F) map

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

Month-to-date national daily mean temperature anomaly map

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

November 2019 through January 2020 daily mean temperature anomaly map
“Most areas of dryness and drought received little precipitation this past week. Where there was significant precipitation, some improvement was noted, particularly in the Northwest where surplus precipitation fell during the previous 3 to 4 weeks. Moderate to heavy rains also brought improvement to southern Florida and patches of eastern North Carolina. Meanwhile, precipitation was patchy from the central Gulf Coast across eastern Texas to the Red River Valley (south), bringing a mixed bag of improvements and deterioration there. But across the dry regions in California, the Four Corners States, central and southern Texas, and northern Florida, only a few tenths of an inch of precipitation was recorded at best. Some areas of deterioration were noted in these areas, but most areas remained unchanged from last week.”
Changes in Drought Monitor Categories over Time
Source: National Drought Mitigation Center

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
Secretarial **Drought Designations**
Source: USDA Farm Service Agency
Other Climatic and Water Supply Indicators

Soil Moisture
Source: NOAA National Centers for Environmental Prediction

Modeled soil moisture percentiles as of February 1, 2020

Soil Moisture Percent of Saturation
Source: NRCS SNOTEL and Soil Climate Analysis Network (SCAN)
Soil Moisture Data
Source: NRCS Soil Climate Analysis Network (SCAN)

Eastview Farm, Tennessee (SCAN site 2077)
Daily Mean Soil Moisture vs. Daily Precipitation

This chart shows the soil moisture and precipitation at the Eastview Farm SCAN site in Tennessee. This site has experienced several precipitation events in the last 30 days, resulting in increased soil moisture at all five sensor depths. Accumulated precipitation for the period totaled 8.97 inches.

Soil Moisture Data Portals

- CRN Soil Moisture
- Texas A&M University North American Soil Moisture Database
- University of Washington Experimental Modeled Soil Moisture
Map of flood and high flow conditions
(65 in floods [major: 3, moderate: 6, minor: 56], 64 in near-flood)

Explanation - Percentile classes

<table>
<thead>
<tr>
<th>Percentile</th>
<th>Description</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>&lt;95</td>
<td>Below action stage</td>
<td>Light green</td>
</tr>
<tr>
<td>95-98</td>
<td>Above action stage</td>
<td>Light yellow</td>
</tr>
<tr>
<td>&gt;= 99</td>
<td>Above flood stage</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>Above moderate flood stage</td>
<td>Orange</td>
</tr>
<tr>
<td></td>
<td>Above major flood stage</td>
<td>Magenta</td>
</tr>
</tbody>
</table>

Streamgage with flood stage △
Streamgage without flood stage ○

WaterWatch: Streamflow, drought, flood, and runoff conditions
Reservoir Storage

Current California Reservoir Conditions
Source: California Department of Water Resources

Hydromet Teacup Reservoir Depictions
Source: U.S. Bureau of Reclamation

- Upper Colorado
- Pacific Northwest/Snake/Columbia
- Sevier River Water, Utah
- Upper Missouri, Kansas, Oklahoma, Texas
Short- and Long-Range Outlooks

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

**National Outlook, Thursday, February 6, 2020:** “A storm system currently centered over the southern Appalachians will move northeastward and further intensify, reaching coastal New England by late Friday. Additional Eastern rainfall totals could reach 1 to 3 inches, while another round of severe thunderstorms will sweep toward the southern Atlantic Coast later today. Wintry precipitation will linger today in the eastern Corn Belt and continue through Friday across the interior Northeast. Meanwhile, Northwestern storminess will continue into the first half of the weekend before the storm track shifts southward. Parts of California and the Southwest may receive beneficial precipitation early next week. Elsewhere, weekend snow will blanket portions of the northern Plains and upper Midwest. The NWS 6- to 10-day outlook for February 11 – 15 calls for the likelihood of below-normal temperatures along and west of a line from western Texas to Lake Superior, while warmer-than-normal weather will prevail across the South, East, and lower Midwest. Meanwhile, below-normal precipitation in northern California and peninsular Florida should contrast with wetter-than-normal conditions across the remainder of the country.”

**Weather Hazards Outlook: February 8 – 12, 2020**
Source: NOAA Climate Prediction Center

![U.S. Day 3-7 Hazards Outlook](image-url)
Seasonal Drought Outlook: **January 16 – April 30, 2020**
Source: National Weather Service

![U.S. Seasonal Drought Outlook](image)

Climate Prediction Center 3-Month Outlook
Source: National Weather Service

**Precipitation**

**Temperature**

![Precipitation Map](image)

![Temperature Map](image)

February-March-April (FMA) 2020 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.