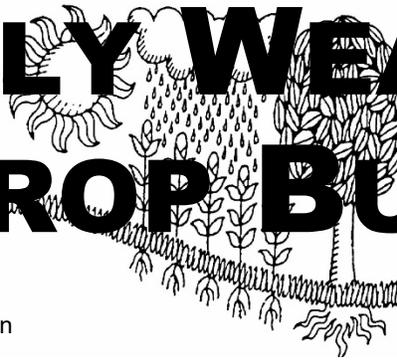
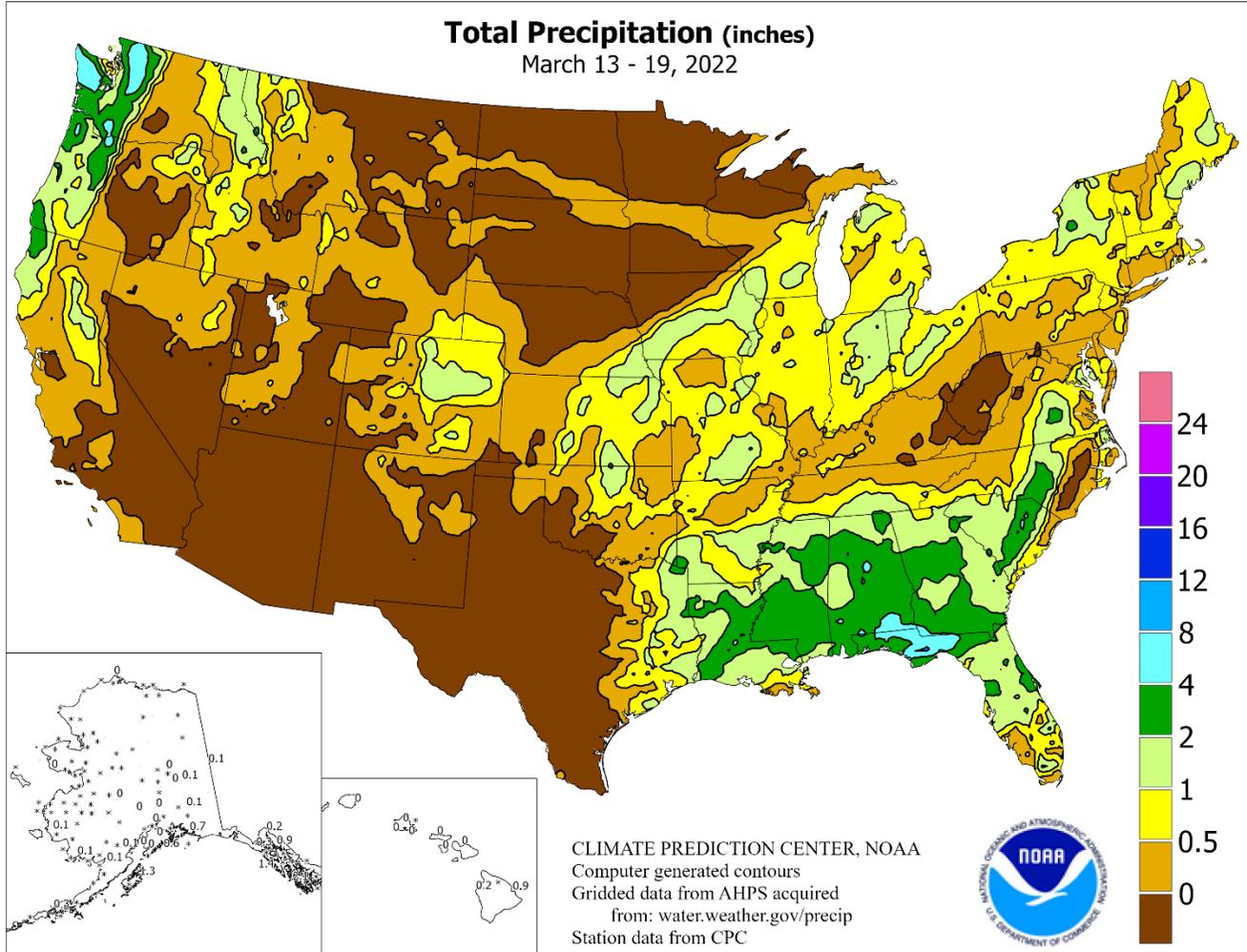


WEEKLY WEATHER AND CROP BULLETIN



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service
and World Agricultural Outlook Board



HIGHLIGHTS

March 13 – 19, 2022

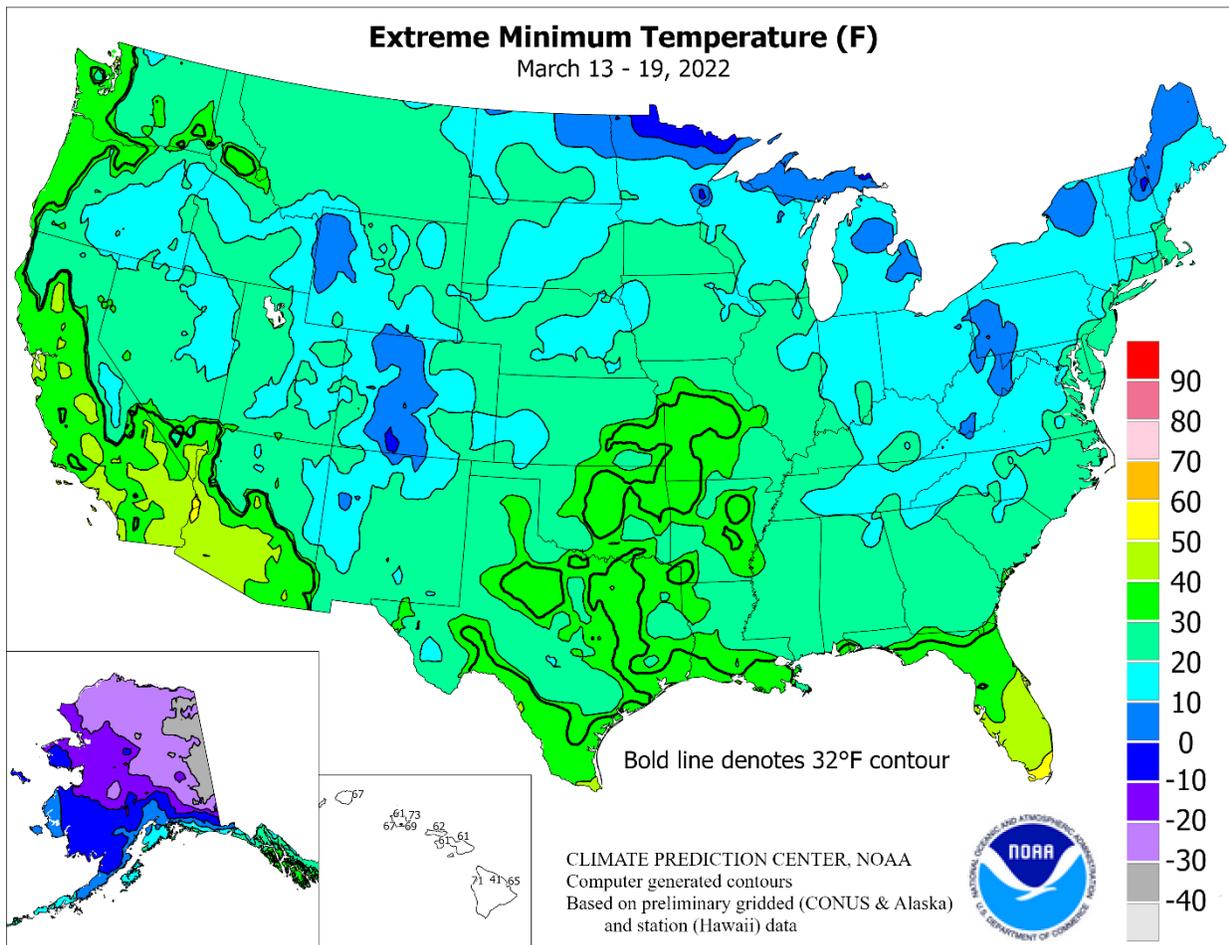
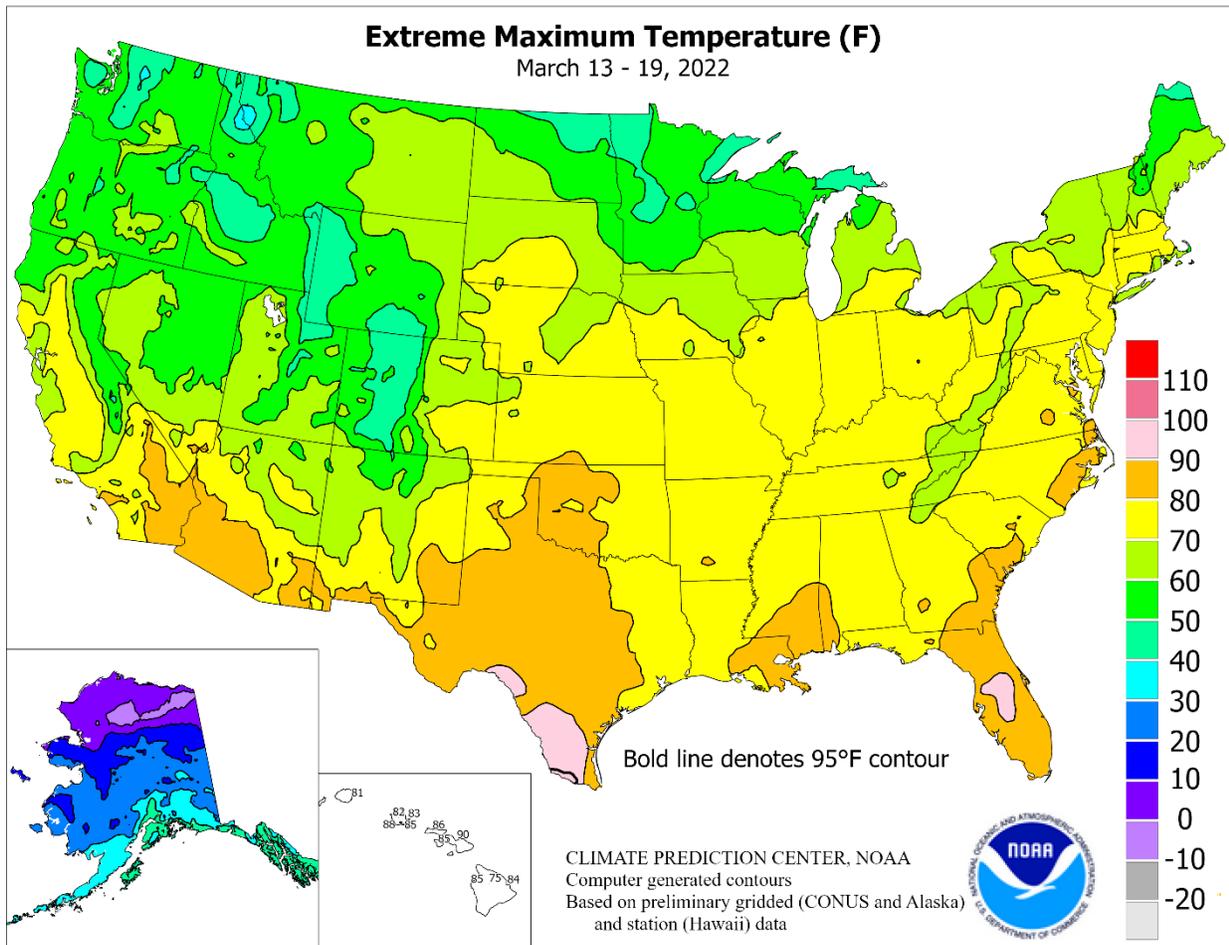
Highlights provided by USDA/WAOB

Cold, mostly dry weather yielded to mild, unsettled conditions, starting in the **Pacific Northwest**. As the week progressed, a pair of storms delivered widespread precipitation, benefiting some drought-stressed rangeland, pastures, and winter grains. The leading system traversed the **Southeast** around the middle of the week, while the trailing storm produced showers and thunderstorms across the **South** and a separate area of precipitation from the **central Plains into the Midwest**. Meanwhile, some rain and snow fell in the **western U.S.**, although significant

(Continued on page 3)

Contents

| | |
|---|----|
| Extreme Maximum & Minimum Temperature Maps..... | 2 |
| Temperature Departure Map | 3 |
| March 15 Drought Monitor & U.S. Seasonal Drought Outlook | 4 |
| Soil Temperature & Snow Cover Maps | 5 |
| Satellite Image of Southeastern Snow, March 12 & Cold Weather in the Southeast, March 13 | 6 |
| National Weather Data for Selected Cities | 7 |
| Winter Weather Review | 10 |
| Winter Precipitation & Temperature Maps | 12 |
| Winter Weather Data for Selected Cities | 15 |
| International Weather and Crop Summary | 16 |
| Bulletin Information & U.S. Spring Flood Outlook | 26 |

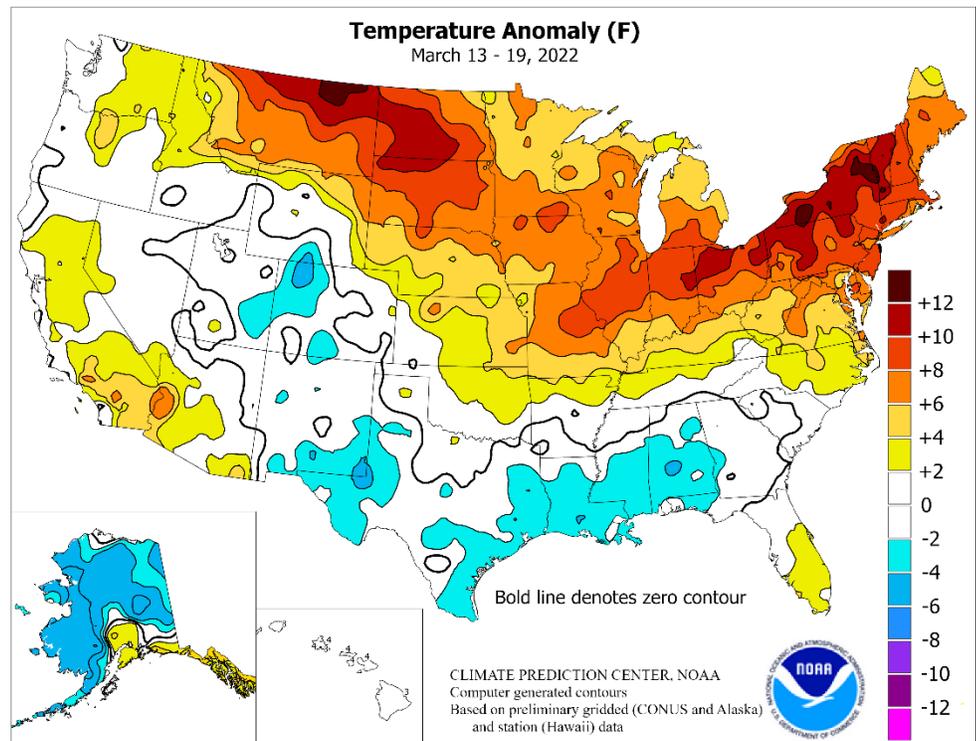


(Continued from front cover)

amounts were generally limited to the **central Rockies** and the **Northwest**. In fact, little or no precipitation fell from **southern California into the Southwest**. Elsewhere, mostly dry weather also persisted across the **north-central U.S.** and the **southern Plains**. In the latter region, mid- to late-week wildfires flared amid warmth, wind, and low humidity levels, fueled by ample freeze- and drought-cured vegetation. Within days, the Eastland Complex had destroyed dozens of homes in **Carbon, TX**, and had scorched more than 54,000 acres of vegetation in or near **Eastland County**. Following the previous week's cold spell, temperatures averaged at least 10°F above normal across large sections of the **northern Plains**, as well as an area extending from the **middle Mississippi Valley into parts of the Northeast**. Near- or above-normal temperatures covered the **southern Atlantic States** and much of the **West**. However, cooler-than-normal conditions lingered in a few areas, including the **central and southern Rockies** and parts of the **Deep South**.

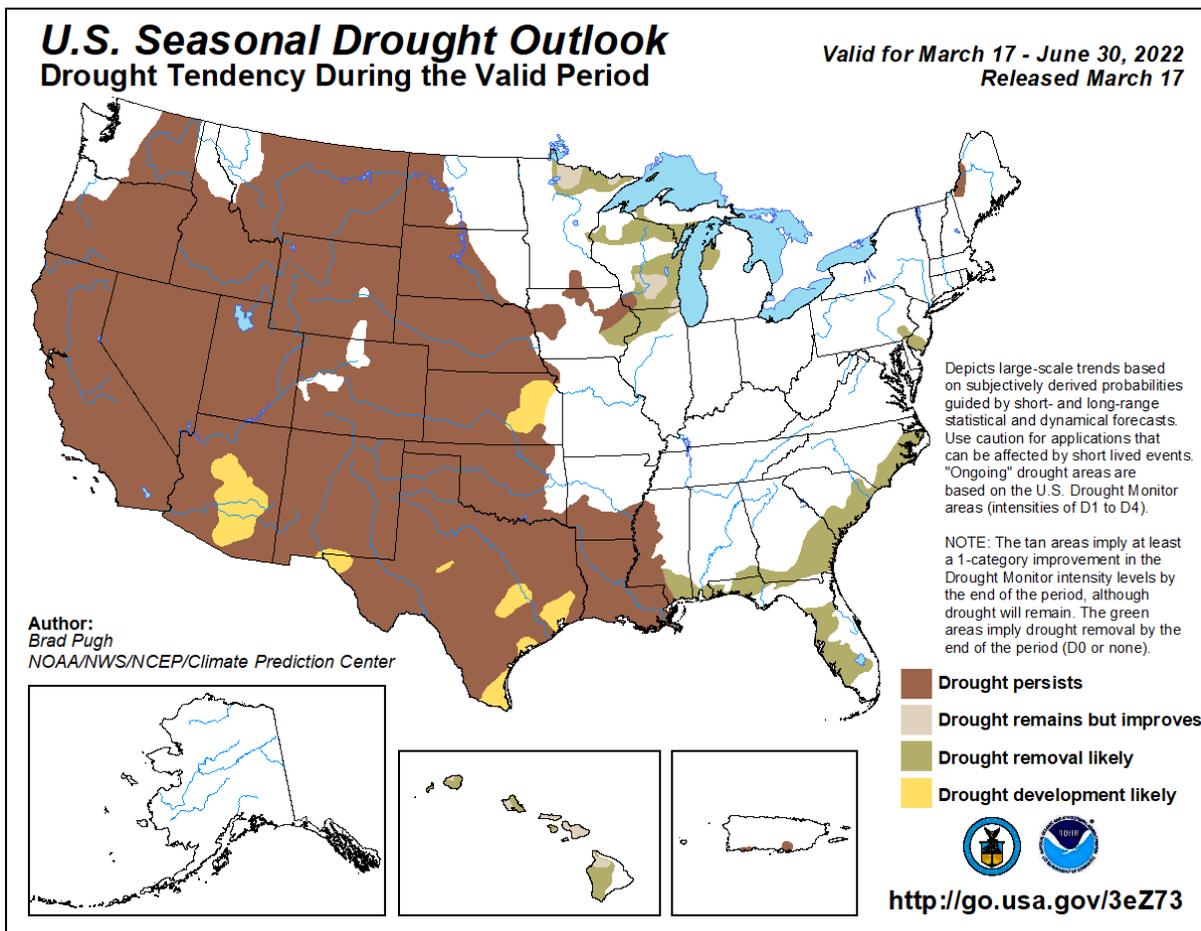
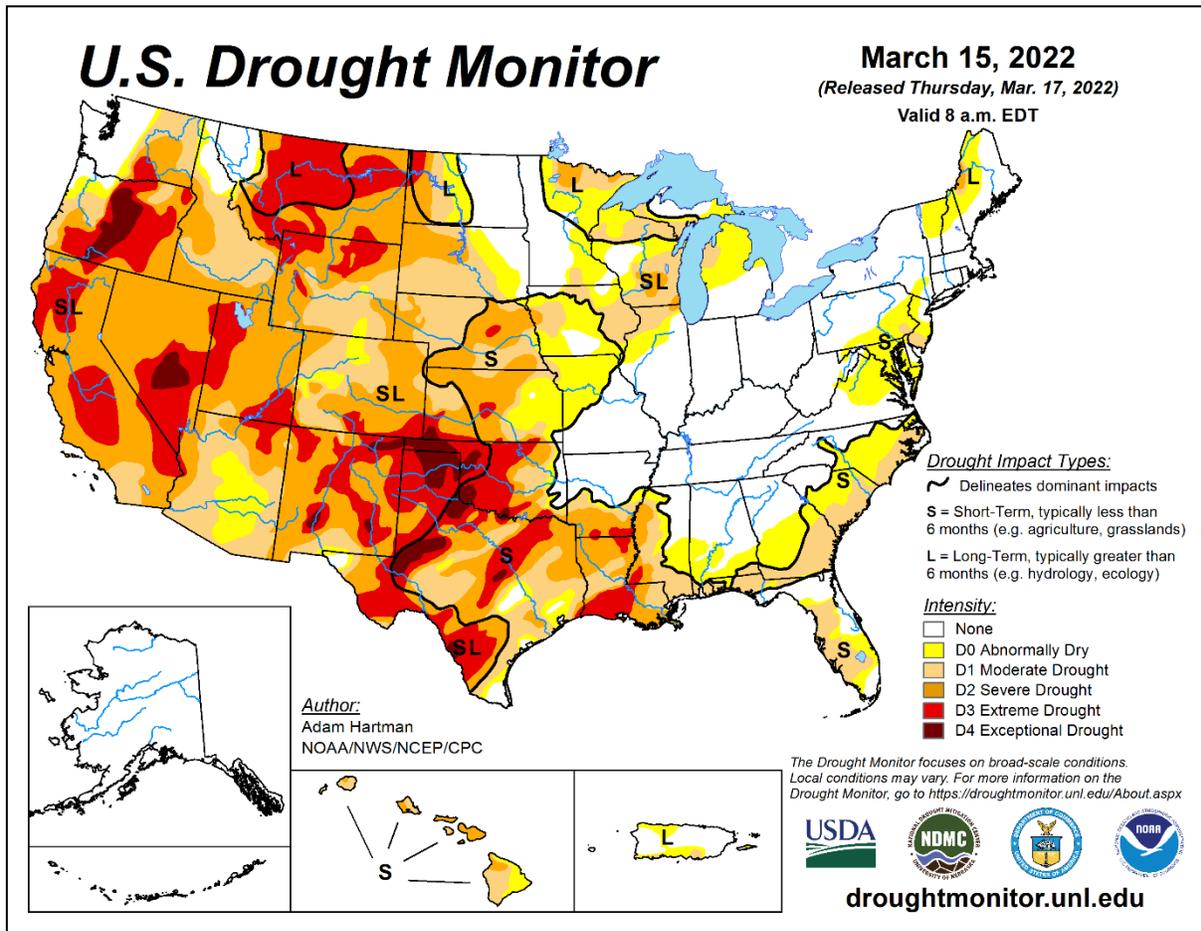
As the week began, effects of a sharp cold snap lingered across the **southern and eastern U.S.** Indeed, March 13 was the coldest morning of the outbreak in much of the **Southeast**. Daily-record low temperatures for the 13th were set or tied in numerous locations, including **Augusta, GA** (19°F); **Macon, GA** (22°F); **Mobile, AL** (28°F); **Baton Rouge, LA** (28°F); and **Jacksonville, FL** (30°F). For **Jacksonville**, it was the lowest reading since January 30, when the temperature dipped to 22°F. Soon, warmth returned along the **Pacific Coast**. Daily record-tying highs in **California** included 68°F (on March 14) in **Eureka** and 84°F (on March 16) in **Santa Barbara**. During the second half of the week, warmth returned across much of the remainder of the country. March 17 featured daily-record highs in locations such as **McAllen, TX** (97°F), and **Dayton, OH** (74°F). **Hartford, CT**, logged a daily-record high (76°F) on March 18. Elsewhere on the 18th, **Leesburg, FL**, collected a daily-record high of 89°F, just 5 days after posting a daily-record low of 36°F.

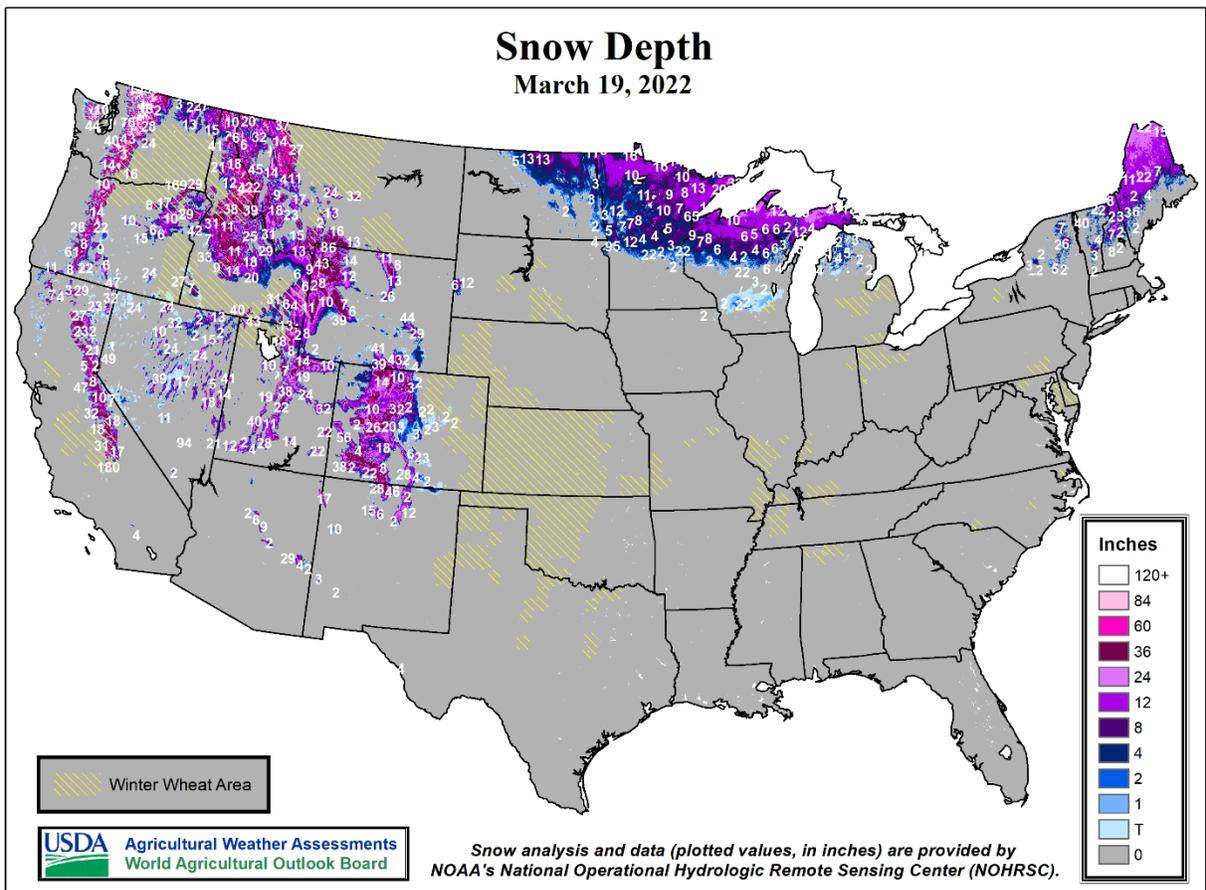
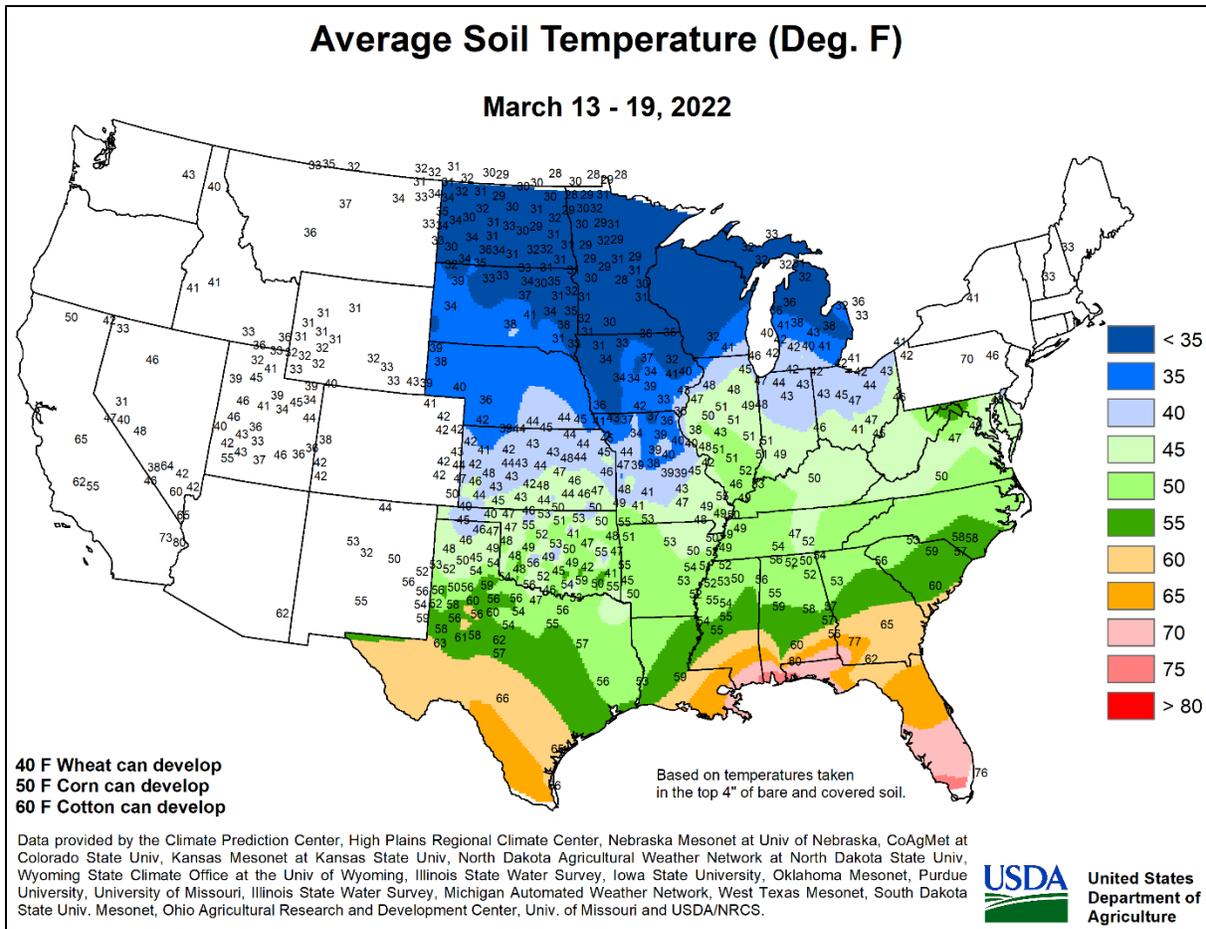
Early-week precipitation was heaviest across the **Pacific Northwest**, where **Quillayute, WA**, netted a daily-record rainfall (2.09 inches) for March 14. **Quillayute** reported measurable rain each day from March 11-20, totaling 7.23 inches. In contrast, negligible precipitation has fallen in 2022 from **California to the southern Plains**. Through March 20, year-to-date precipitation in **California** totaled 0.73 inch (7 percent of normal) at **San Francisco Airport**; 0.32 inch (4 percent) in **Sacramento**; 0.24 inch (4 percent) in **Fresno**; 0.15 inch (2 percent) in **Stockton**; 0.11 inch (2 percent) in **San Jose**; and 0.08 inch (1 percent) in **Modesto**. In **northern Texas**,

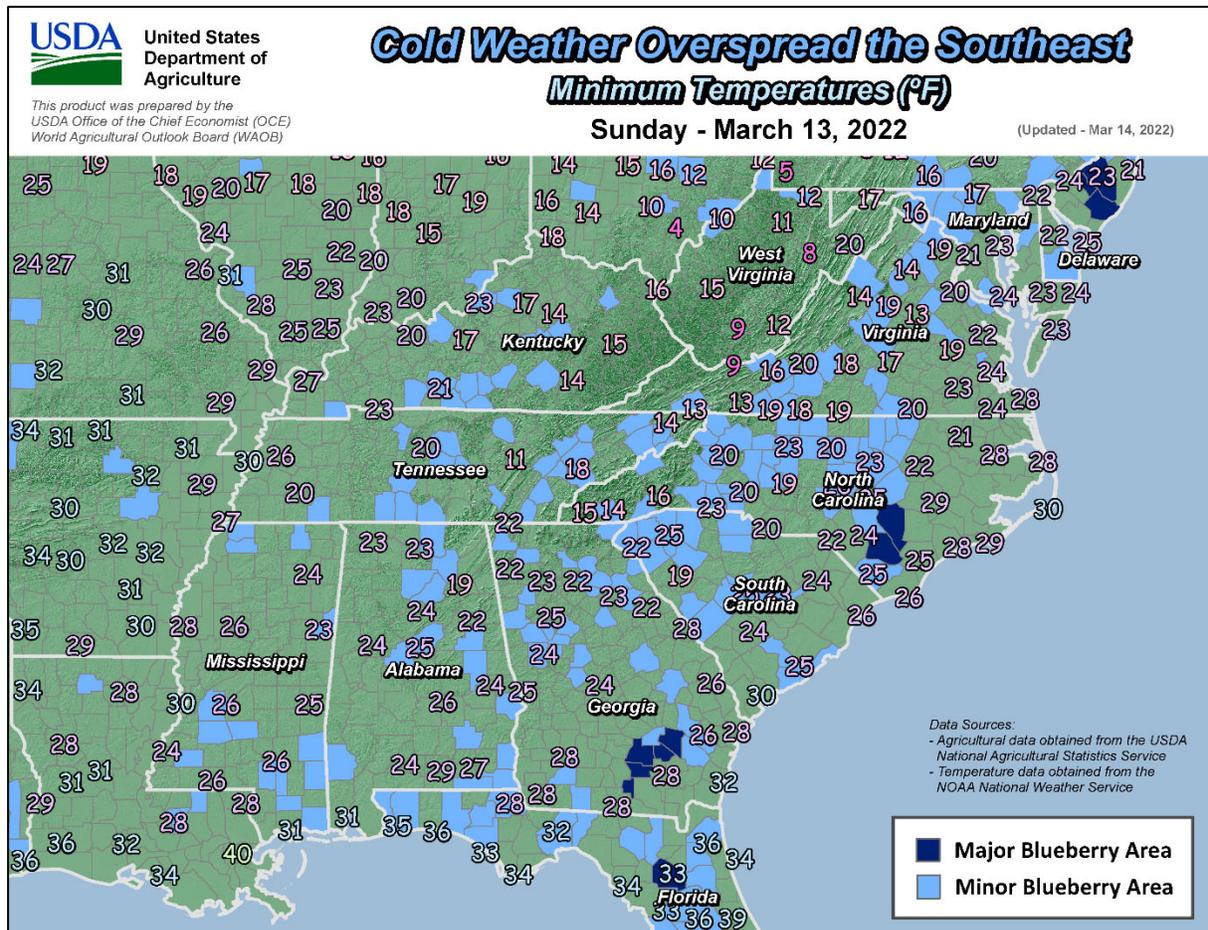
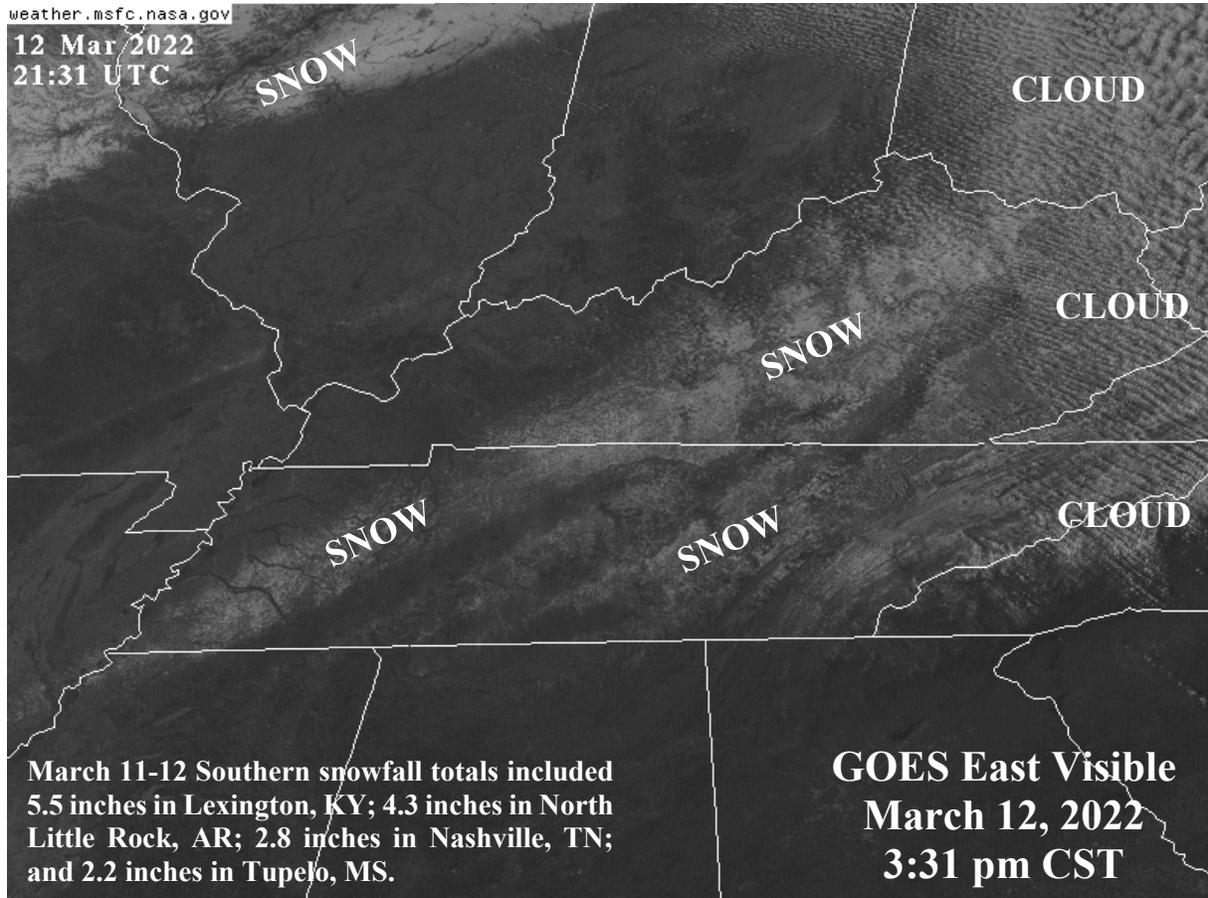


Dalhart reported a January 1 – March 20 precipitation total of 0.07 inch (5 percent of normal). As a pair of storms affected the **South**, **Tuscaloosa, AL**, received a March 15-18 rainfall total of 1.99 inches—aided by a daily-record sum (1.45 inches) on the 18th. **Waterloo, IA**, also netted a daily-record sum (1.10 inches) on March 18. At week's end, precipitation gradually ended along the **East Coast**. However, lingering storminess on March 19 resulted in a daily-record rainfall (2.60 inches) on **Saint Simons Island, GA**, and 4.0 inches of snow (not a record for the date) in **Caribou, ME**. **Caribou's** snow depth peaked for the winter at 23 inches on February 9 and March 13.

Much of **Alaska** experienced the return of colder, drier weather, although above-normal temperatures continued across the **state's southern and northern tiers**. In **Fairbanks**, the temperature plunged as low as -25°F (on March 14), helping to keep the snow depth steady at 33 inches throughout the week. **King Salmon** (-10°F on March 17) reported its first sub-zero reading since February 9. In **Anchorage**, however, the temperature jumped to 47°F on March 19, setting a record high for the date. Meanwhile in **southeastern Alaska**, **Ketchikan** noted measurable precipitation each day during the week, totaling 5.76 inches. Elsewhere, **Juneau** received 3.4 inches of snow on the 14th, followed by maxima of 40°F or greater each day starting March 15. Farther south, **Hawaii's** warm, mostly dry weather regime persisted. On the 16th, **Kahului, Maui**, topped the 90-degree mark in March for only the second time on record, with both occurring this year—92 and 91°F on March 10 and 16, respectively. **Honolulu, Oahu**, notched a daily record-tying high of 85°F on March 18. Meanwhile, March 1-19 rainfall at the state's major airport observation sites ranged from a trace (1.55 inches below normal) in **Honolulu** to 1.70 inches (21 percent of normal) in **Hilo**, on the **Big Island**.







National Weather Data for Selected Cities

Weather Data for the Week Ending March 19, 2022

Data Provided by Climate Prediction Center

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY PERCENT | | NUMBER OF DAYS | | | |
|---------------------|-----------------|-----------------|--------------|-------------|---------|-----------------------|-------------------|-----------------------|--------------------------|-----------------------|-------------------------|-----------------------|-------------------------|---------------------------|-----------------|----------------|--------------|------------------|------------------|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL IN. SINCE MAR 1 | PCT. NORMAL SINCE MAR 1 | TOTAL IN. SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | TEMP. °F | | PRECIP | |
| | | | | | | | | | | | | | | | | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| AK ANCHORAGE | 37 | 22 | 46 | 12 | 29 | 3 | 0.01 | -0.13 | 0.01 | 0.86 | 223 | 4.60 | 246 | 73 | 46 | 0 | 7 | 1 | 0 |
| AK BARROW | -2 | -17 | 4 | -24 | -9 | 0 | 0.05 | 0.04 | 0.02 | 0.07 | 113 | 5.80 | 900 | 80 | 69 | 0 | 7 | 3 | 0 |
| AK FAIRBANKS | 21 | -11 | 31 | -24 | 5 | -6 | 0.00 | -0.06 | 0.00 | 0.00 | 0 | 1.08 | 88 | 77 | 39 | 0 | 7 | 0 | 0 |
| AK JUNEAU | 40 | 34 | 46 | 28 | 37 | 4 | 0.85 | 0.02 | 0.25 | 3.06 | 125 | 25.76 | 216 | 91 | 69 | 0 | 3 | 7 | 0 |
| AK KODIAK | 40 | 28 | 45 | 20 | 34 | 1 | 1.26 | 0.04 | 0.33 | 5.62 | 165 | 21.33 | 119 | 89 | 62 | 0 | 6 | 7 | 0 |
| AK NOME | 15 | 2 | 27 | -4 | 9 | -1 | 0.00 | -0.14 | 0.00 | 0.18 | 42 | 1.23 | 52 | 65 | 43 | 0 | 7 | 0 | 0 |
| AL BIRMINGHAM | 65 | 43 | 74 | 24 | 54 | -1 | 4.21 | 3.04 | 2.14 | 6.87 | 211 | 14.43 | 114 | 85 | 42 | 0 | 1 | 3 | 3 |
| AL HUNTSVILLE | 64 | 42 | 74 | 23 | 53 | -1 | 1.17 | 0.00 | 0.62 | 3.74 | 117 | 18.03 | 139 | 91 | 48 | 0 | 1 | 3 | 2 |
| AL MOBILE | 72 | 45 | 81 | 28 | 58 | -2 | 2.75 | 1.38 | 1.85 | 5.00 | 132 | 9.23 | 63 | 93 | 43 | 0 | 1 | 2 | 2 |
| AL MONTGOMERY | 68 | 44 | 77 | 25 | 56 | -1 | 1.91 | 0.57 | 1.38 | 2.85 | 77 | 12.22 | 89 | 88 | 46 | 0 | 2 | 3 | 1 |
| AR FORT SMITH | 70 | 41 | 79 | 30 | 55 | 3 | 0.28 | -0.58 | 0.15 | 0.59 | 26 | 6.89 | 88 | 89 | 36 | 0 | 1 | 3 | 0 |
| AR LITTLE ROCK | 67 | 43 | 77 | 32 | 55 | 2 | 0.94 | -0.11 | 0.69 | 1.32 | 47 | 10.92 | 109 | 83 | 44 | 0 | 1 | 3 | 1 |
| AZ FLAGSTAFF | 53 | 20 | 58 | 17 | 37 | 0 | 0.00 | -0.50 | 0.00 | 1.02 | 73 | 2.31 | 41 | 82 | 20 | 0 | 7 | 0 | 0 |
| AZ PHOENIX | 83 | 54 | 86 | 49 | 69 | 4 | 0.00 | -0.25 | 0.00 | 0.09 | 12 | 0.50 | 19 | 33 | 8 | 0 | 0 | 0 | 0 |
| AZ PRESCOTT | 65 | 32 | 71 | 26 | 48 | 2 | 0.00 | -0.24 | 0.00 | 0.16 | 21 | 1.10 | 33 | 56 | 13 | 0 | 5 | 0 | 0 |
| AZ TUCSON | 82 | 47 | 87 | 42 | 64 | 4 | 0.00 | -0.17 | 0.00 | 0.00 | 0 | 0.48 | 20 | 28 | 6 | 0 | 0 | 0 | 0 |
| CA BAKERSFIELD | 73 | 49 | 77 | 45 | 61 | 3 | 0.10 | -0.20 | 0.10 | 0.78 | 96 | 0.90 | 27 | 77 | 28 | 0 | 0 | 1 | 0 |
| CA EUREKA | 54 | 40 | 56 | 36 | 47 | -3 | 1.86 | 0.66 | 0.59 | 2.08 | 61 | 4.47 | 28 | 95 | 80 | 0 | 0 | 4 | 3 |
| CA FRESNO | 73 | 49 | 77 | 45 | 61 | 4 | 0.02 | -0.47 | 0.02 | 0.20 | 14 | 0.24 | 4 | 77 | 29 | 0 | 0 | 1 | 0 |
| CA LOS ANGELES | 70 | 54 | 78 | 51 | 62 | 4 | 0.01 | -0.38 | 0.01 | 0.01 | 0 | 0.15 | 2 | 91 | 44 | 0 | 0 | 1 | 0 |
| CA REDDING | 68 | 46 | 74 | 41 | 57 | 3 | 0.35 | -0.64 | 0.19 | 0.37 | 12 | 1.54 | 10 | 83 | 33 | 0 | 0 | 3 | 0 |
| CA SACRAMENTO | 69 | 46 | 73 | 41 | 58 | 3 | 0.27 | -0.37 | 0.27 | 0.27 | 14 | 0.32 | 3 | 94 | 36 | 0 | 0 | 1 | 0 |
| CA SAN DIEGO | 68 | 52 | 73 | 49 | 60 | 1 | 0.00 | -0.41 | 0.00 | 0.63 | 49 | 1.47 | 26 | 91 | 55 | 0 | 0 | 0 | 0 |
| CA SAN FRANCISCO | 63 | 49 | 68 | 46 | 56 | 1 | 0.09 | -0.57 | 0.07 | 0.30 | 14 | 0.72 | 7 | 86 | 50 | 0 | 0 | 2 | 0 |
| CA STOCKTON | 72 | 47 | 75 | 40 | 59 | 5 | 0.15 | -0.36 | 0.14 | 0.15 | 10 | 0.15 | 2 | 87 | 33 | 0 | 0 | 2 | 0 |
| CO ALAMOSA | 53 | 11 | 62 | 2 | 32 | -2 | 0.08 | -0.05 | 0.08 | 0.24 | 78 | 0.95 | 102 | 85 | 17 | 0 | 7 | 1 | 0 |
| CO CO SPRINGS | 57 | 30 | 71 | 23 | 44 | 4 | 0.38 | 0.13 | 0.27 | 0.66 | 110 | 1.43 | 106 | 70 | 21 | 0 | 5 | 2 | 0 |
| CO DENVER INTL | 55 | 28 | 70 | 19 | 41 | 0 | 0.61 | 0.39 | 0.37 | 0.93 | 189 | 2.57 | 192 | 81 | 30 | 0 | 7 | 2 | 0 |
| CO GRAND JUNCTION | 56 | 29 | 61 | 25 | 42 | -2 | 0.02 | -0.20 | 0.02 | 0.35 | 66 | 0.97 | 58 | 67 | 22 | 0 | 6 | 1 | 0 |
| CO PUEBLO | 62 | 28 | 76 | 22 | 45 | 3 | 0.31 | 0.08 | 0.31 | 0.93 | 174 | 2.04 | 160 | 78 | 20 | 0 | 5 | 1 | 0 |
| CT BRIDGEPORT | 55 | 36 | 69 | 21 | 46 | 6 | 0.16 | -0.75 | 0.08 | 1.18 | 49 | 7.64 | 92 | 93 | 56 | 0 | 2 | 2 | 0 |
| CT HARTFORD | 58 | 35 | 76 | 20 | 47 | 9 | 0.28 | -0.52 | 0.17 | 1.33 | 62 | 7.74 | 94 | 88 | 45 | 0 | 3 | 3 | 0 |
| DC WASHINGTON | 66 | 42 | 76 | 21 | 54 | 7 | 0.86 | 0.05 | 0.86 | 2.20 | 110 | 8.09 | 109 | 81 | 41 | 0 | 2 | 1 | 1 |
| DE WILMINGTON | 63 | 38 | 74 | 22 | 51 | 8 | 0.50 | -0.43 | 0.27 | 2.20 | 96 | 8.76 | 110 | 80 | 45 | 0 | 2 | 2 | 0 |
| FL DAYTONA BEACH | 78 | 58 | 88 | 39 | 68 | 4 | 1.12 | 0.11 | 1.04 | 3.83 | 148 | 5.76 | 71 | 93 | 53 | 0 | 0 | 2 | 1 |
| FL JACKSONVILLE | 76 | 49 | 87 | 30 | 62 | 1 | 1.57 | 0.69 | 0.85 | 6.14 | 242 | 9.04 | 100 | 97 | 48 | 0 | 1 | 4 | 2 |
| FL KEY WEST | 81 | 72 | 83 | 60 | 76 | 3 | 0.00 | -0.48 | 0.00 | 0.43 | 31 | 3.39 | 69 | 93 | 72 | 0 | 0 | 0 | 0 |
| FL MIAMI | 81 | 68 | 85 | 52 | 75 | 2 | 1.05 | 0.37 | 0.76 | 1.30 | 75 | 8.80 | 157 | 94 | 64 | 0 | 0 | 2 | 1 |
| FL ORLANDO | 83 | 59 | 91 | 41 | 71 | 4 | 1.92 | 1.02 | 1.61 | 5.57 | 254 | 7.20 | 104 | 91 | 45 | 1 | 0 | 2 | 1 |
| FL PENSACOLA | 71 | 53 | 77 | 35 | 62 | 2 | 1.06 | -0.24 | 1.06 | 2.15 | 59 | 6.93 | 51 | 92 | 56 | 0 | 0 | 1 | 1 |
| FL TALLAHASSEE | 73 | 48 | 80 | 32 | 61 | 0 | 3.41 | 2.00 | 2.20 | 6.26 | 159 | 11.84 | 90 | 95 | 42 | 0 | 1 | 3 | 2 |
| FL TAMPA | 81 | 61 | 87 | 41 | 71 | 4 | 1.02 | 0.32 | 1.02 | 1.42 | 76 | 2.76 | 40 | 85 | 50 | 0 | 0 | 1 | 1 |
| FL WEST PALM BEACH | 82 | 68 | 86 | 48 | 75 | 5 | 1.79 | 0.67 | 1.74 | 2.27 | 81 | 6.46 | 74 | 90 | 58 | 0 | 0 | 2 | 1 |
| GA ATHENS | 65 | 43 | 76 | 23 | 54 | 0 | 2.01 | 1.00 | 1.28 | 4.59 | 163 | 11.67 | 102 | 89 | 45 | 0 | 2 | 2 | 2 |
| GA ATLANTA | 65 | 45 | 74 | 25 | 55 | 1 | 2.04 | 0.93 | 0.83 | 4.84 | 158 | 13.39 | 112 | 83 | 47 | 0 | 1 | 3 | 2 |
| GA AUGUSTA | 70 | 39 | 78 | 19 | 55 | -1 | 2.16 | 1.20 | 1.88 | 3.21 | 119 | 8.41 | 80 | 98 | 40 | 0 | 2 | 3 | 1 |
| GA COLUMBUS | 69 | 44 | 77 | 25 | 56 | -2 | 2.09 | 0.84 | 1.24 | 2.83 | 83 | 11.94 | 102 | 92 | 42 | 0 | 2 | 3 | 2 |
| GA MACON | 71 | 42 | 79 | 22 | 56 | -1 | 1.28 | 0.25 | 0.88 | 2.90 | 100 | 8.05 | 69 | 94 | 40 | 0 | 2 | 3 | 1 |
| GA SAVANNAH | 74 | 47 | 84 | 28 | 60 | 1 | 0.63 | -0.22 | 0.36 | 1.00 | 44 | 4.88 | 56 | 95 | 42 | 0 | 2 | 4 | 0 |
| HI HILO | 82 | 68 | 84 | 65 | 75 | 3 | 0.87 | -2.17 | 0.43 | 1.68 | 20 | 9.28 | 34 | 86 | 58 | 0 | 0 | 4 | 0 |
| HI HONOLULU | 84 | 72 | 85 | 69 | 78 | 3 | 0.00 | -0.46 | 0.00 | 0.00 | 0 | 6.93 | 124 | 75 | 46 | 0 | 0 | 0 | 0 |
| HI KAHULUI | 87 | 66 | 90 | 61 | 77 | 4 | 0.00 | -0.55 | 0.00 | 0.66 | 4 | 0.25 | 4 | 82 | 46 | 1 | 0 | 0 | 0 |
| HI LIHUE | 80 | 71 | 81 | 67 | 76 | 3 | 0.00 | -1.05 | 0.00 | 1.27 | 44 | 9.42 | 97 | 88 | 66 | 0 | 0 | 0 | 0 |
| IA BURLINGTON | 60 | 36 | 70 | 22 | 48 | 7 | 0.42 | -0.22 | 0.41 | 0.92 | 55 | 2.22 | 49 | 86 | 49 | 0 | 1 | 2 | 0 |
| IA CEDAR RAPIDS | 55 | 31 | 68 | 19 | 43 | 6 | 0.62 | 0.14 | 0.62 | 1.47 | 122 | 1.80 | 53 | 97 | 54 | 0 | 4 | 1 | 1 |
| IA DES MOINES | 58 | 34 | 72 | 27 | 46 | 6 | 0.63 | 0.11 | 0.60 | 1.38 | 106 | 4.96 | 137 | 87 | 43 | 0 | 3 | 2 | 1 |
| IA DUBUQUE | 53 | 32 | 66 | 18 | 43 | 7 | 0.85 | 0.32 | 0.74 | 1.80 | 134 | 2.42 | 61 | 89 | 54 | 0 | 2 | 3 | 1 |
| IA SIOUX CITY | 61 | 25 | 71 | 15 | 43 | 6 | 0.00 | -0.48 | 0.00 | 0.09 | 8 | 0.25 | 10 | 85 | 27 | 0 | 5 | 0 | 0 |
| IA WATERLOO | 55 | 31 | 70 | 21 | 43 | 7 | 1.16 | 0.70 | 1.10 | 2.69 | 238 | 3.50 | 116 | 86 | 47 | 0 | 5 | 2 | 1 |
| ID BOISE | 56 | 36 | 61 | 31 | 46 | 1 | 0.30 | -0.02 | 0.27 | 0.32 | 38 | 1.53 | 49 | 78 | 29 | 0 | 1 | 2 | 0 |
| ID LEWISTON | 58 | 41 | 61 | 34 | 50 | 4 | 0.24 | -0.04 | 0.12 | 0.74 | 106 | 2.33 | 89 | 81 | 38 | 0 | 0 | 3 | 0 |
| ID POCATELLO | 52 | 31 | 59 | 22 | 41 | 3 | 0.13 | -0.17 | 0.12 | 0.25 | 31 | 1.30 | 46 | 81 | 36 | 0 | 5 | 2 | 0 |
| IL CHICAGO/O_HARE | 57 | 36 | 73 | 21 | 47 | 9 | 0.70 | 0.17 | 0.64 | 1.11 | 76 | 4.49 | 90 | 81 | 51 | 0 | 1 | 2 | 1 |
| IL MOLINE | 61 | 33 | 72 | 23 | 47 | 8 | 0.92 | 0.28 | 0.88 | 1.63 | 95 | 4.46 | 92 | 88 | 42 | 0 | 3 | 2 | 1 |
| IL PEORIA | 63 | 38 | 74 | 21 | 50 | 10 | 0.47 | -0.16 | 0.39 | 1.00 | 61 | 4.12 | 79 | 84 | 41 | 0 | 1 | 2 | 0 |
| IL ROCKFORD | 59 | 32 | 71 | 22 | 46 | 8 | 0.59 | 0.08 | 0.50 | 1.03 | 79 | 2.61 | 63 | 86 | 44 | 0 | 4 | 2 | 1 |
| IL SPRINGFIELD | 64 | 40 | 76 | 26 | 52 | 10 | 0.62 | 0.05 | 0.61 | 1.80 | 116 | 2.28 | 44 | 84 | 44 | 0 | 1 | 2 | 1 |
| IN EVANSVILLE | 65 | 39 | 73 | 26 | 52 | 6 | 0.14 | -0.84 | 0.07 | 2.73 | 110 | 13.49 | 155 | 84 | 40 | 0 | 1 | 3 | 0 |
| IN FORT WAYNE | 62 | 33 | 72 | 16 | 48 | 9 | 1.00 | 0.40 | 0.54 | 2.10 | 137 | 5.53 | 94 | 92 | 51 | 0 | 2 | 2 | 1 |
| IN INDIANAPOLIS | 64 | 39 | 74 | 15 | 51 | 9 | 0.73 | -0.08 | 0.67 | 2.67 | 130 | 8.19 | 117 | 79 | 42 | 0 | 1 | 2 | 1 |
| IN SOUTH BEND | 60 | 35 | 72 | 16 | 47 | 10 | 0.72 | 0.20 | 0.62 | 1.23 | 85 | 5.02 | 88 | 83 | 48 | 0 | 2 | 2 | 1 |
| KS CONCORDIA | 64 | 33 | 73 | 27 | 48 | 5 | 0.42 | -0.06 | 0.24 | 0.78 | 71 | 1.10 | 44 | 80 | 27 | 0 | 2 | 2 | 0 |
| KS DODGE CITY | 64 | 29 | 73 | 19 | 47 | 2 | 0.26 | -0.12 | 0.23 | 0.30 | 34 | 0.92 | 42 | 82 | 21 | 0 | 5 | 2 | 0 |
| KS GOODLAND | 60 | 26 | 69 | 21 | 43 | 2 | 0.13 | -0.12 | 0.13 | 0.38 | 62 | 1.40 | 91 | 83 | 30 | 0 | 7 | 1 | 0 |
| KS TOPEKA | 65 | 35 | 77 | 29 | 50 | 5 | 0.75 | 0.19 | 0.55 | 1.41 | 104 | 2.54 | 71 | 83 | 34 | 0 | 2 | 2 | 1 |

Based on 1981-2010 normals

*** Not Available

Weather Data for the Week Ending March 19, 2022

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY PERCENT | | NUMBER OF DAYS | | | | | |
|---------------------|-----------------|-----------------|--------------|-------------|---------|-----------------------|-------------------|-----------------------|--------------------------|-----------------------|-------------------------|-----------------------|-------------------------|---------------------------|-----------------|----------------|--------------|-----------------|-----------------|--------|--|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL IN. SINCE MAR 1 | PCT. NORMAL SINCE MAR 1 | TOTAL IN. SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | TEMP. °F | | PRECIP | |
| | | | | | | | | | | | | | | | | | | 01 INCH OR MORE | 50 INCH OR MORE | | |
| KY WICHITA | 66 | 35 | 77 | 27 | 51 | 4 | 1.13 | 0.48 | 0.87 | 1.59 | 104 | 2.56 | 71 | 82 | 30 | 0 | 2 | 2 | 1 | | |
| KY LEXINGTON | 64 | 39 | 73 | 14 | 52 | 6 | 0.22 | -0.74 | 0.20 | 3.57 | 146 | 16.39 | 186 | 76 | 39 | 0 | 1 | 2 | 0 | | |
| KY LOUISVILLE | 67 | 44 | 75 | 23 | 56 | 8 | 0.17 | -0.80 | 0.16 | 1.68 | 68 | 11.27 | 127 | 72 | 38 | 0 | 1 | 2 | 0 | | |
| LA PADUCAH | 66 | 40 | 73 | 27 | 53 | 4 | 0.05 | -0.80 | 0.05 | 0.83 | 36 | 13.31 | 135 | 81 | 38 | 0 | 1 | 1 | 0 | | |
| LA BATON ROUGE | 73 | 46 | 84 | 28 | 59 | -2 | 1.25 | -0.01 | 1.04 | 1.56 | 47 | 5.85 | 41 | 92 | 37 | 0 | 1 | 2 | 1 | | |
| LA LAKE CHARLES | 71 | 46 | 76 | 32 | 58 | -3 | 2.16 | 1.38 | 1.81 | 2.59 | 117 | 5.31 | 48 | 96 | 43 | 0 | 1 | 3 | 1 | | |
| LA NEW ORLEANS | 72 | 52 | 84 | 37 | 62 | -1 | 0.58 | -0.43 | 0.58 | 1.22 | 43 | 6.46 | 48 | 85 | 41 | 0 | 0 | 1 | 1 | | |
| LA SHREVEPORT | 71 | 44 | 80 | 31 | 57 | -1 | 1.79 | 0.93 | 0.90 | 2.72 | 107 | 7.06 | 61 | 90 | 38 | 0 | 1 | 4 | 2 | | |
| MA BOSTON | 52 | 37 | 68 | 22 | 45 | 6 | 0.24 | -0.73 | 0.19 | 1.36 | 53 | 8.06 | 88 | 85 | 54 | 0 | 2 | 3 | 0 | | |
| MA WORCESTER | 53 | 34 | 70 | 16 | 44 | 9 | 0.71 | -0.22 | 0.54 | 1.89 | 77 | 10.35 | 113 | 88 | 46 | 0 | 2 | 3 | 1 | | |
| MD BALTIMORE | 66 | 37 | 77 | 20 | 52 | 8 | 0.38 | -0.55 | 0.38 | 1.72 | 74 | 8.00 | 97 | 84 | 35 | 0 | 2 | 1 | 0 | | |
| ME CARIBOU | 37 | 19 | 47 | 4 | 28 | 3 | 0.77 | 0.23 | 0.75 | 2.89 | 190 | 8.32 | 129 | 86 | 53 | 0 | 6 | 3 | 1 | | |
| ME PORTLAND | 47 | 31 | 65 | 21 | 39 | 6 | 0.83 | -0.13 | 0.59 | 2.05 | 82 | 8.23 | 90 | 93 | 57 | 0 | 3 | 3 | 1 | | |
| MI ALPENA | 43 | 26 | 65 | 11 | 35 | 6 | 0.50 | 0.11 | 0.18 | 1.30 | 120 | 2.95 | 72 | 93 | 64 | 0 | 4 | 4 | 0 | | |
| MI GRAND RAPIDS | 53 | 31 | 67 | 15 | 42 | 7 | 0.38 | -0.12 | 0.28 | 1.10 | 79 | 5.62 | 107 | 88 | 55 | 0 | 4 | 3 | 0 | | |
| MI HOUGHTON LAKE | 46 | 25 | 64 | 7 | 35 | 6 | 0.34 | -0.06 | 0.17 | 0.78 | 74 | 2.15 | 56 | 91 | 59 | 0 | 4 | 4 | 0 | | |
| MI LANSING | 54 | 32 | 72 | 12 | 43 | 8 | 0.45 | 0.02 | 0.31 | 1.05 | 91 | 7.09 | 165 | 88 | 56 | 0 | 4 | 4 | 0 | | |
| MI MUSKEGON | 52 | 34 | 66 | 24 | 43 | 8 | 0.31 | -0.19 | 0.16 | 0.58 | 42 | 3.69 | 71 | 88 | 55 | 0 | 4 | 4 | 0 | | |
| MI TRAVERSE CITY | 46 | 28 | 63 | 12 | 37 | 6 | 0.61 | 0.21 | 0.36 | 1.95 | 181 | 2.79 | 51 | 89 | 60 | 0 | 5 | 2 | 0 | | |
| MN DULUTH | 41 | 24 | 49 | 15 | 33 | 7 | 0.04 | -0.29 | 0.03 | 0.13 | 15 | 2.09 | 78 | 85 | 51 | 0 | 6 | 2 | 0 | | |
| MN INT_L FALLS | 42 | 16 | 57 | -8 | 29 | 6 | 0.00 | -0.20 | 0.00 | 0.11 | 21 | 2.48 | 145 | 87 | 48 | 0 | 7 | 0 | 0 | | |
| MN MINNEAPOLIS | 48 | 29 | 55 | 24 | 39 | 6 | 0.06 | -0.37 | 0.06 | 1.21 | 113 | 2.39 | 86 | 85 | 49 | 0 | 5 | 1 | 0 | | |
| MN ROCHESTER | 50 | 30 | 64 | 23 | 40 | 0 | 0.00 | -0.42 | 0.00 | 0.83 | 81 | 2.04 | 73 | 88 | 51 | 0 | 5 | 0 | 0 | | |
| MN ST. CLOUD | 45 | 24 | 52 | 11 | 35 | 5 | 0.16 | -0.20 | 0.16 | 0.40 | 47 | 1.77 | 84 | 88 | 52 | 0 | 5 | 1 | 0 | | |
| MO COLUMBIA | 67 | 41 | 78 | 33 | 54 | 10 | 0.31 | -0.33 | 0.31 | 1.80 | 107 | 4.85 | 83 | 86 | 38 | 0 | 0 | 1 | 0 | | |
| MO KANSAS CITY | 65 | 38 | 77 | 32 | 51 | 7 | 0.58 | 0.05 | 0.58 | 1.59 | 120 | 2.96 | 76 | 81 | 38 | 0 | 1 | 1 | 1 | | |
| MO SAINT LOUIS | 69 | 44 | 78 | 32 | 56 | 10 | 0.25 | -0.50 | 0.19 | 2.03 | 109 | 6.90 | 106 | 75 | 32 | 0 | 1 | 2 | 0 | | |
| MO SPRINGFIELD | 65 | 40 | 76 | 32 | 53 | 6 | 0.52 | -0.30 | 0.51 | 1.56 | 73 | 6.36 | 89 | 88 | 44 | 0 | 1 | 2 | 1 | | |
| MS JACKSON | 69 | 42 | 79 | 25 | 56 | -1 | 1.81 | 0.71 | 1.00 | 6.23 | 203 | 10.90 | 85 | 92 | 41 | 0 | 1 | 3 | 2 | | |
| MS MERIDIAN | 70 | 42 | 83 | 25 | 56 | 0 | 2.30 | 1.10 | 1.17 | 3.14 | 92 | 12.23 | 86 | 89 | 38 | 0 | 2 | 2 | 2 | | |
| MS TUPELO | 68 | 44 | 77 | 24 | 56 | 2 | 2.15 | 1.09 | 1.57 | 3.63 | 118 | 16.15 | 129 | 86 | 36 | 0 | 1 | 3 | 2 | | |
| MT BILLINGS | 56 | 35 | 63 | 29 | 45 | 7 | 0.01 | -0.23 | 0.01 | 0.42 | 72 | 1.65 | 105 | 64 | 25 | 0 | 1 | 1 | 0 | | |
| MT BUTTE | 49 | 27 | 63 | 21 | 38 | 6 | 0.07 | -0.11 | 0.05 | 0.12 | 29 | 0.77 | 56 | 79 | 31 | 0 | 7 | 2 | 0 | | |
| MT CUT BANK | 52 | 31 | 56 | 24 | 41 | 10 | 0.00 | -0.11 | 0.00 | 0.32 | 112 | 0.44 | 57 | 72 | 35 | 0 | 4 | 0 | 0 | | |
| MT GLASGOW | 56 | 30 | 65 | 25 | 43 | 12 | 0.00 | -0.10 | 0.00 | 0.28 | 109 | 0.55 | 56 | 85 | 35 | 0 | 6 | 0 | 0 | | |
| MT GREAT FALLS | 53 | 32 | 62 | 26 | 43 | 9 | 0.10 | -0.11 | 0.08 | 0.26 | 50 | 1.69 | 111 | 72 | 28 | 0 | 3 | 2 | 0 | | |
| MT HAVRE | 56 | 29 | 62 | 25 | 43 | 10 | 0.06 | -0.07 | 0.06 | 0.29 | 96 | 0.62 | 62 | 82 | 33 | 0 | 5 | 1 | 0 | | |
| MT MISSOULA | 53 | 32 | 57 | 26 | 42 | 3 | 0.11 | -0.12 | 0.05 | 0.38 | 62 | 2.42 | 110 | 85 | 40 | 0 | 4 | 4 | 0 | | |
| NC ASHEVILLE | 61 | 37 | 69 | 16 | 49 | 2 | 0.86 | 0.02 | 0.74 | 2.68 | 116 | 11.71 | 120 | 90 | 44 | 0 | 2 | 3 | 1 | | |
| NC CHARLOTTE | 68 | 41 | 79 | 20 | 55 | 4 | 0.83 | -0.11 | 0.79 | 4.69 | 183 | 10.85 | 117 | 83 | 37 | 0 | 2 | 2 | 1 | | |
| NC GREENSBORO | 67 | 41 | 79 | 19 | 54 | 4 | 0.30 | -0.54 | 0.29 | 3.16 | 140 | 11.05 | 134 | 83 | 32 | 0 | 2 | 2 | 0 | | |
| NC HATTERAS | 65 | 51 | 73 | 30 | 58 | 7 | 1.37 | 0.28 | 1.17 | 1.88 | 65 | 10.98 | 90 | 86 | 56 | 0 | 1 | 2 | 1 | | |
| NC RALEIGH | 70 | 44 | 79 | 23 | 57 | 5 | 1.19 | 0.24 | 0.65 | 3.21 | 124 | 10.47 | 113 | 82 | 39 | 0 | 2 | 2 | 2 | | |
| NC WILMINGTON | 70 | 45 | 82 | 25 | 58 | 3 | 0.10 | -0.87 | 0.10 | 0.69 | 25 | 5.88 | 58 | 94 | 42 | 0 | 2 | 1 | 0 | | |
| ND BISMARCK | 55 | 28 | 65 | 24 | 41 | 12 | 0.13 | -0.07 | 0.12 | 0.17 | 32 | 1.10 | 73 | 93 | 40 | 0 | 7 | 2 | 0 | | |
| ND DICKINSON | 55 | 27 | 63 | 22 | 41 | 11 | 0.01 | -0.14 | 0.01 | 0.04 | 9 | 0.11 | 10 | 85 | 35 | 0 | 7 | 1 | 0 | | |
| ND FARGO | 44 | 25 | 63 | 16 | 34 | 7 | 0.00 | -0.31 | 0.00 | 0.02 | 3 | 1.33 | 62 | 83 | 55 | 0 | 7 | 0 | 0 | | |
| ND GRAND FORKS | 38 | 21 | 50 | 7 | 30 | 5 | 0.00 | -0.23 | 0.00 | 0.04 | 7 | 1.49 | 87 | 96 | 72 | 0 | 7 | 0 | 0 | | |
| ND JAMESTOWN | 46 | 27 | 54 | 22 | 37 | 9 | 0.00 | -0.20 | 0.00 | 0.02 | 4 | 0.43 | 31 | 86 | 57 | 0 | 6 | 0 | 0 | | |
| NE GRAND ISLAND | 62 | 29 | 72 | 22 | 46 | 6 | 0.11 | -0.31 | 0.11 | 0.30 | 30 | 0.40 | 18 | 81 | 25 | 0 | 5 | 1 | 0 | | |
| NE LINCOLN | 63 | 28 | 73 | 20 | 46 | 5 | 0.67 | 0.19 | 0.35 | 1.27 | 121 | 1.48 | 59 | 84 | 27 | 0 | 4 | 2 | 0 | | |
| NE NORFOLK | 61 | 28 | 69 | 18 | 44 | 7 | 0.00 | -0.42 | 0.00 | 0.17 | 18 | 0.32 | 14 | 76 | 25 | 0 | 5 | 0 | 0 | | |
| NE NORTH PLATTE | 63 | 24 | 72 | 21 | 44 | 5 | 0.00 | -0.24 | 0.00 | 0.67 | 114 | 1.10 | 73 | 83 | 24 | 0 | 7 | 0 | 0 | | |
| NE OMAHA | 62 | 31 | 75 | 26 | 46 | 7 | 0.71 | 0.26 | 0.51 | 1.06 | 100 | 1.60 | 60 | 84 | 30 | 0 | 5 | 2 | 1 | | |
| NE SCOTTSBLUFF | 61 | 28 | 71 | 22 | 44 | 6 | 0.29 | 0.07 | 0.15 | 0.71 | 125 | 1.89 | 117 | 86 | 24 | 0 | 6 | 2 | 0 | | |
| NE VALENTINE | 63 | 28 | 76 | 19 | 46 | 9 | 0.00 | -0.24 | 0.00 | 0.10 | 17 | 0.28 | 19 | 70 | 22 | 0 | 5 | 0 | 0 | | |
| NH CONCORD | 53 | 32 | 72 | 18 | 42 | 10 | 0.59 | -0.13 | 0.39 | 1.84 | 96 | 8.03 | 111 | 91 | 46 | 0 | 3 | 3 | 0 | | |
| NJ ATLANTIC_CITY | 62 | 39 | 73 | 22 | 51 | 9 | 0.36 | -0.62 | 0.36 | 1.83 | 72 | 11.80 | 137 | 88 | 48 | 0 | 2 | 1 | 0 | | |
| NJ NEWARK | 61 | 40 | 74 | 21 | 50 | 8 | 0.16 | -0.80 | 0.15 | 1.18 | 48 | 7.52 | 85 | 83 | 44 | 0 | 2 | 2 | 0 | | |
| NM ALBUQUERQUE | 63 | 34 | 70 | 29 | 49 | 1 | 0.00 | -0.13 | 0.00 | 0.04 | 11 | 0.39 | 30 | 52 | 11 | 0 | 4 | 0 | 0 | | |
| NV ELY | 52 | 25 | 54 | 17 | 38 | 2 | 0.00 | -0.22 | 0.00 | 0.48 | 81 | 0.83 | 40 | 82 | 25 | 0 | 7 | 0 | 0 | | |
| NV LAS VEGAS | 73 | 51 | 79 | 45 | 62 | 2 | 0.00 | -0.10 | 0.00 | 0.00 | 0 | 0.06 | 3 | 31 | 11 | 0 | 0 | 0 | 0 | | |
| NV RENO | 60 | 37 | 67 | 32 | 48 | 3 | 0.01 | -0.15 | 0.01 | 0.03 | 5 | 0.46 | 17 | 67 | 24 | 0 | 1 | 1 | 0 | | |
| NV WINNEMUCCA | 57 | 29 | 62 | 22 | 43 | 1 | 0.28 | 0.08 | 0.15 | 1.02 | 197 | 1.23 | 59 | 85 | 27 | 0 | 5 | 2 | 0 | | |
| NY ALBANY | 55 | 34 | 71 | 18 | 45 | 10 | 0.35 | -0.38 | 0.28 | 1.58 | 83 | 14.27 | 214 | 89 | 48 | 0 | 4 | 3 | 0 | | |
| NY BINGHAMTON | 54 | 32 | 69 | 11 | 43 | 10 | 0.25 | -0.43 | 0.17 | 2.25 | 130 | 7.41 | 115 | 92 | 47 | 0 | 3 | 2 | 0 | | |
| NY BUFFALO | 57 | 34 | 71 | 16 | 46 | 12 | 0.29 | -0.34 | 0.27 | 1.28 | 74 | 8.09 | 109 | 87 | 48 | 0 | 2 | 3 | 0 | | |
| NY ROCHESTER | 55 | 32 | 71 | 16 | 43 | 9 | 0.28 | -0.26 | 0.25 | 0.89 | 60 | 7.05 | 121 | 95 | 51 | 0 | 3 | 4 | 0 | | |
| NY SYRACUSE | 56 | 33 | 71 | 17 | 44 | 10 | 0.76 | 0.09 | 0.71 | 1.98 | 115 | 6.68 | 106 | 92 | 48 | 0 | 3 | 3 | 1 | | |
| OH AKRON-CANTON | 62 | 37 | 72 | 10 | 49 | 12 | 0.68 | 0.02 | 0.43 | 3.37 | 196 | 10.96 | 166 | 77 | 41 | 0 | 2 | 3 | 0 | | |
| OH CINCINNATI | 64 | 39 | 73 | 15 | 52 | 8 | 0.30 | -0.62 | 0.24 | 1.78 | 78 | 10.33 | 128 | 83 | 43 | 0 | 1 | 2 | 0 | | |
| OH CLEVELAND | 62 | 34 | 73 | 14 | 48 | 10 | 0.57 | -0.08 | 0.41 | 2.03 | 120 | 7.31 | 109 | 81 | 43 | 0 | 1 | 2 | 0 | | |
| OH COLUMBUS | 64 | 35 | 73 | 15 | 49 | 7 | 0.31 | -0.37 | 0.26 | 1.56 | 91 | 10.09 | 151 | 85 | 37 | 0 | 2 | 2 | 0 | | |
| OH DAYTON | 64 | 38 | 74 | 14 | 51 | 11 | 0.95 | 0.19 | 0.71 | 3.58 | 190 | 10.76 | 158 | 75 | 39 | 0 | 1 | 2 | 1 | | |
| OH MANSFIELD | 61 | 34 | 72 | 10 | 48 | 11 | 0.69 | -0.06 | 0.63 | 2.73 | 142 | 9.48 | 132 | 86 | 44 | 0 | 2 | 2 | 1 | | |

Based on 1981-2010 normals

*** Not Available

Weather Data for the Week Ending March 19, 2022

| STATES AND STATIONS | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY PERCENT | | NUMBER OF DAYS | | | | | |
|---------------------|-----------------|-----------------|--------------|-------------|---------|-----------------------|-------------------|-----------------------|--------------------------|-----------------------|-------------------------|-----------------------|-------------------------|---------------------------|-----------------|----------------|--------------|-----------------|-----------------|--------|--|
| | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL IN. SINCE MAR 1 | PCT. NORMAL SINCE MAR 1 | TOTAL IN. SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | TEMP. °F | | PRECIP | |
| | | | | | | | | | | | | | | | | | | 01 INCH OR MORE | 50 INCH OR MORE | | |
| OK TOLEDO | 63 | 34 | 75 | 16 | 48 | 11 | 0.88 | 0.35 | 0.49 | 1.51 | 105 | 14.01 | 252 | 81 | 41 | 0 | 2 | 2 | 0 | 0 | |
| OK YOUNGSTOWN | 60 | 34 | 71 | 10 | 47 | 10 | 0.24 | -0.42 | 0.12 | 9.00 | 530 | 16.18 | 253 | 83 | 41 | 0 | 2 | 3 | 0 | 0 | |
| OK OKLAHOMA CITY | 69 | 38 | 79 | 33 | 54 | 1 | 0.12 | -0.61 | 0.12 | 0.20 | 11 | 1.64 | 34 | 80 | 25 | 0 | 0 | 1 | 0 | 0 | |
| OR TULSA | 69 | 44 | 78 | 34 | 56 | 5 | 0.39 | -0.37 | 0.28 | 1.09 | 56 | 4.19 | 76 | 83 | 33 | 0 | 0 | 2 | 0 | 0 | |
| OR ASTORIA | 52 | 43 | 53 | 38 | 47 | 1 | 2.55 | 0.83 | 0.88 | 3.93 | 83 | 21.61 | 97 | 94 | 70 | 0 | 0 | 7 | 3 | 0 | |
| OR BURNS | 55 | 25 | 61 | 18 | 40 | 2 | 0.08 | -0.17 | 0.08 | 0.08 | 11 | 1.08 | 37 | 87 | 30 | 0 | 7 | 1 | 0 | 0 | |
| OR EUGENE | 56 | 41 | 61 | 36 | 49 | 2 | 1.01 | -0.11 | 0.39 | 2.85 | 89 | 7.86 | 50 | 94 | 57 | 0 | 0 | 4 | 0 | 0 | |
| OR MEDFORD | 59 | 39 | 63 | 33 | 49 | 1 | 0.57 | 0.19 | 0.31 | 1.28 | 116 | 1.96 | 35 | 90 | 38 | 0 | 0 | 3 | 0 | 0 | |
| OR PENDLETON | 56 | 38 | 60 | 31 | 47 | 2 | 0.61 | 0.30 | 0.26 | 1.04 | 123 | 3.46 | 102 | 89 | 47 | 0 | 1 | 5 | 0 | 0 | |
| OR PORTLAND | 55 | 44 | 59 | 39 | 50 | 1 | 0.61 | -0.22 | 0.24 | 2.18 | 92 | 9.81 | 89 | 86 | 55 | 0 | 0 | 6 | 0 | 0 | |
| OR SALEM | 56 | 42 | 60 | 37 | 49 | 2 | 1.35 | 0.45 | 0.81 | 3.69 | 143 | 10.73 | 81 | 90 | 52 | 0 | 0 | 6 | 1 | 0 | |
| PA ALLENTOWN | 60 | 34 | 74 | 17 | 47 | 8 | 0.51 | -0.26 | 0.29 | 1.65 | 84 | 7.85 | 102 | 88 | 42 | 0 | 3 | 2 | 0 | 0 | |
| PA ERIE | 59 | 34 | 70 | 17 | 47 | 11 | 0.42 | -0.22 | 0.34 | 1.65 | 95 | 9.52 | 135 | 79 | 43 | 0 | 4 | 2 | 0 | 0 | |
| PA MIDDLETOWN | 64 | 36 | 75 | 20 | 50 | 8 | 0.42 | -0.38 | 0.35 | 1.56 | 78 | 7.36 | 101 | 83 | 36 | 0 | 2 | 2 | 0 | 0 | |
| PA PHILADELPHIA | 65 | 42 | 76 | 24 | 53 | 10 | 0.24 | -0.65 | 0.16 | 1.22 | 55 | 6.93 | 88 | 79 | 41 | 0 | 1 | 2 | 0 | 0 | |
| PA PITTSBURGH | 60 | 34 | 70 | 9 | 47 | 8 | 0.12 | -0.55 | 0.08 | 1.12 | 64 | 8.50 | 124 | 81 | 35 | 0 | 2 | 2 | 0 | 0 | |
| PA WILKES-BARRE | 61 | 36 | 73 | 17 | 48 | 12 | 0.25 | -0.32 | 0.15 | 1.56 | 107 | 6.70 | 114 | 80 | 38 | 0 | 2 | 3 | 0 | 0 | |
| PA WILLIAMSPORT | 60 | 33 | 72 | 17 | 47 | 8 | 0.14 | -0.53 | 0.06 | 1.61 | 95 | 7.76 | 115 | 86 | 38 | 0 | 4 | 3 | 0 | 0 | |
| RI PROVIDENCE | 56 | 35 | 70 | 22 | 46 | 7 | 0.48 | -0.68 | 0.30 | 1.72 | 58 | 10.38 | 103 | 86 | 53 | 0 | 2 | 2 | 0 | 0 | |
| SC CHARLESTON | 71 | 47 | 81 | 25 | 59 | 1 | 0.38 | -0.47 | 0.26 | 0.93 | 41 | 3.93 | 44 | 93 | 44 | 0 | 2 | 2 | 0 | 0 | |
| SC COLUMBIA | 69 | 43 | 78 | 23 | 56 | 0 | 0.90 | 0.07 | 0.80 | 1.70 | 72 | 7.54 | 79 | 90 | 41 | 0 | 2 | 3 | 1 | 0 | |
| SC FLORENCE | 71 | 43 | 80 | 24 | 57 | 1 | 2.35 | 1.60 | 2.29 | 3.67 | 175 | 9.83 | 120 | 86 | 38 | 0 | 2 | 3 | 1 | 0 | |
| SC GREENVILLE | 65 | 41 | 74 | 23 | 53 | 0 | 1.10 | 0.06 | 0.88 | 4.12 | 146 | 12.22 | 115 | 83 | 40 | 0 | 2 | 4 | 1 | 0 | |
| SD ABERDEEN | 55 | 24 | 66 | 19 | 39 | 10 | 0.10 | -0.17 | 0.10 | 0.10 | 15 | 0.91 | 54 | 89 | 40 | 0 | 7 | 1 | 0 | 0 | |
| SD HURON | 59 | 24 | 69 | 18 | 42 | 9 | 0.00 | -0.33 | 0.00 | 0.11 | 14 | 0.49 | 26 | 86 | 26 | 0 | 7 | 0 | 0 | 0 | |
| SD RAPID CITY | 58 | 28 | 68 | 21 | 43 | 7 | 0.00 | -0.22 | 0.00 | 0.21 | 38 | 0.70 | 51 | 81 | 29 | 0 | 6 | 0 | 0 | 0 | |
| SD SIOUX FALLS | 56 | 27 | 65 | 22 | 42 | 9 | 0.00 | -0.39 | 0.00 | 0.35 | 40 | 0.81 | 39 | 87 | 40 | 0 | 6 | 0 | 0 | 0 | |
| TN BRISTOL | 63 | 34 | 69 | 14 | 49 | 2 | 0.21 | -0.55 | 0.21 | 2.06 | 99 | 12.92 | 146 | 89 | 38 | 0 | 2 | 1 | 0 | 0 | |
| TN CHATTANOOGA | 64 | 40 | 74 | 22 | 52 | 0 | 1.24 | 0.11 | 0.77 | 4.05 | 132 | 17.96 | 139 | 89 | 47 | 0 | 2 | 3 | 1 | 0 | |
| TN KNOXVILLE | 64 | 40 | 71 | 18 | 52 | 2 | 0.56 | -0.41 | 0.51 | 3.10 | 118 | 17.00 | 151 | 91 | 45 | 0 | 2 | 3 | 1 | 0 | |
| TN MEMPHIS | 67 | 44 | 75 | 26 | 56 | 2 | 0.87 | -0.28 | 0.65 | 2.24 | 73 | 13.28 | 116 | 81 | 42 | 0 | 1 | 3 | 1 | 0 | |
| TN NASHVILLE | 65 | 42 | 73 | 20 | 54 | 4 | 0.49 | -0.45 | 0.39 | 1.45 | 58 | 16.38 | 160 | 74 | 42 | 0 | 1 | 2 | 0 | 0 | |
| TX ABILENE | 76 | 43 | 85 | 38 | 60 | 3 | 0.00 | -0.39 | 0.00 | 0.00 | 0 | 2.19 | 63 | 58 | 14 | 0 | 0 | 0 | 0 | 0 | |
| TX AMARILLO | 67 | 33 | 80 | 27 | 50 | 2 | 0.06 | -0.29 | 0.04 | 0.16 | 19 | 0.63 | 30 | 65 | 14 | 0 | 4 | 2 | 0 | 0 | |
| TX AUSTIN | 77 | 47 | 84 | 33 | 62 | 0 | 0.00 | -0.63 | 0.00 | 0.09 | 5 | 4.98 | 83 | 73 | 25 | 0 | 0 | 0 | 0 | 0 | |
| TX BEAUMONT | 73 | 47 | 78 | 36 | 60 | -2 | 1.48 | 0.72 | 1.01 | 1.64 | 76 | 4.09 | 37 | 97 | 42 | 0 | 0 | 3 | 1 | 0 | |
| TX BROWNSVILLE | 80 | 55 | 85 | 45 | 67 | -2 | 0.02 | -0.23 | 0.02 | 0.12 | 17 | 4.48 | 147 | 91 | 42 | 0 | 0 | 1 | 0 | 0 | |
| TX CORPUS CHRISTI | 80 | 49 | 84 | 34 | 64 | -2 | 0.00 | -0.39 | 0.00 | 0.58 | 48 | 3.13 | 66 | 92 | 35 | 0 | 0 | 0 | 0 | 0 | |
| TX DEL RIO | 82 | 47 | 93 | 38 | 65 | 1 | 0.00 | -0.26 | 0.00 | 0.00 | 0 | 0.17 | 7 | 57 | 13 | 1 | 0 | 0 | 0 | 0 | |
| TX EL PASO | 72 | 38 | 82 | 25 | 55 | -1 | 0.00 | -0.06 | 0.00 | 0.11 | 54 | 1.28 | 115 | 43 | 9 | 0 | 1 | 0 | 0 | 0 | |
| TX FORT WORTH | 74 | 47 | 81 | 39 | 60 | 3 | 0.10 | -0.69 | 0.08 | 0.30 | 14 | 6.20 | 90 | 75 | 26 | 0 | 0 | 2 | 0 | 0 | |
| TX GALVESTON | 73 | 58 | 77 | 44 | 65 | 2 | 0.39 | 0.00 | 0.21 | 0.50 | 0 | 3.18 | 0 | 82 | 45 | 0 | 0 | 3 | 0 | 0 | |
| TX HOUSTON | 74 | 47 | 79 | 32 | 61 | -2 | 0.63 | -0.08 | 0.47 | 0.82 | 39 | 11.41 | 132 | 90 | 35 | 0 | 1 | 4 | 0 | 0 | |
| TX LUBBOCK | 70 | 34 | 82 | 30 | 52 | 0 | 0.00 | -0.25 | 0.00 | 0.02 | 3 | 0.33 | 15 | 52 | 13 | 0 | 3 | 0 | 0 | 0 | |
| TX MIDLAND | 72 | 35 | 83 | 29 | 54 | -2 | 0.00 | -0.12 | 0.00 | 0.00 | 0 | 0.27 | 16 | 55 | 11 | 0 | 3 | 0 | 0 | 0 | |
| TX SAN ANGELO | 77 | 39 | 86 | 27 | 58 | 1 | 0.00 | -0.33 | 0.00 | 0.00 | 0 | 0.43 | 13 | 59 | 11 | 0 | 1 | 0 | 0 | 0 | |
| TX SAN ANTONIO | 78 | 44 | 83 | 28 | 61 | -1 | 0.00 | -0.52 | 0.00 | 0.02 | 1 | 2.06 | 41 | 71 | 24 | 0 | 1 | 0 | 0 | 0 | |
| TX VICTORIA | 78 | 44 | 82 | 27 | 61 | -2 | 0.13 | -0.44 | 0.05 | 0.17 | 10 | 3.58 | 58 | 92 | 35 | 0 | 1 | 3 | 0 | 0 | |
| TX WACO | 75 | 41 | 82 | 31 | 58 | 0 | 0.51 | -0.20 | 0.51 | 0.57 | 27 | 2.59 | 38 | 83 | 26 | 0 | 2 | 1 | 1 | 0 | |
| TX WICHITA FALLS | 75 | 40 | 84 | 33 | 58 | 3 | 0.00 | -0.49 | 0.00 | 0.00 | 0 | 1.51 | 35 | 71 | 16 | 0 | 0 | 0 | 0 | 0 | |
| UT SALT LAKE CITY | 56 | 36 | 64 | 32 | 46 | 2 | 0.12 | -0.28 | 0.11 | 1.15 | 111 | 1.88 | 53 | 79 | 29 | 0 | 1 | 2 | 0 | 0 | |
| VA LYNCHBURG | 69 | 38 | 79 | 18 | 53 | 8 | 0.70 | -0.12 | 0.40 | 1.98 | 93 | 8.94 | 109 | 83 | 30 | 0 | 2 | 2 | 0 | 0 | |
| VA NORFOLK | 66 | 44 | 79 | 26 | 55 | 6 | 0.69 | -0.14 | 0.69 | 3.00 | 134 | 8.66 | 99 | 86 | 45 | 0 | 2 | 1 | 1 | 0 | |
| VA RICHMOND | 66 | 39 | 80 | 19 | 53 | 5 | 0.16 | -0.83 | 0.16 | 2.82 | 116 | 8.81 | 108 | 85 | 40 | 0 | 2 | 1 | 0 | 0 | |
| VA ROANOKE | 68 | 40 | 77 | 20 | 54 | 7 | 0.21 | -0.58 | 0.17 | 1.46 | 72 | 7.84 | 100 | 77 | 28 | 0 | 1 | 2 | 0 | 0 | |
| VA WASH/DULLES | 66 | 37 | 76 | 19 | 51 | 7 | 0.10 | -0.67 | 0.10 | 1.06 | 55 | 7.14 | 97 | 84 | 37 | 0 | 2 | 1 | 0 | 0 | |
| VT BURLINGTON | 50 | 33 | 65 | 17 | 41 | 11 | 0.22 | -0.29 | 0.20 | 1.28 | 97 | 4.57 | 89 | 89 | 52 | 0 | 2 | 2 | 0 | 0 | |
| WA OLYMPIA | 52 | 40 | 56 | 36 | 46 | 1 | 1.72 | 0.50 | 0.69 | 2.74 | 81 | 18.70 | 113 | 97 | 62 | 0 | 0 | 6 | 1 | 0 | |
| WA QUILLAYUTE | 50 | 40 | 54 | 37 | 45 | 1 | 4.87 | 2.37 | 2.26 | 6.27 | 92 | 30.13 | 94 | 100 | 78 | 0 | 0 | 7 | 4 | 0 | |
| WA SEATTLE-TACOMA | 51 | 42 | 55 | 40 | 47 | 0 | 1.43 | 0.59 | 0.59 | 2.61 | 112 | 14.74 | 129 | 93 | 63 | 0 | 0 | 5 | 1 | 0 | |
| WA SPOKANE | 50 | 36 | 53 | 32 | 43 | 3 | 0.39 | 0.02 | 0.17 | 1.04 | 102 | 3.98 | 95 | 87 | 50 | 0 | 1 | 4 | 0 | 0 | |
| WA YAKIMA | 57 | 35 | 61 | 27 | 46 | 3 | 0.02 | -0.11 | 0.02 | 0.12 | 27 | 1.58 | 66 | 82 | 37 | 0 | 3 | 1 | 0 | 0 | |
| WI EAU CLAIRE | 47 | 26 | 60 | 19 | 37 | 6 | 0.00 | -0.38 | 0.00 | 0.00 | 0 | 0.01 | 0 | 91 | 52 | 0 | 7 | 0 | 0 | 0 | |
| WI GREEN BAY | 49 | 30 | 62 | 18 | 39 | 9 | 0.45 | 0.06 | 0.19 | 2.36 | 221 | 2.89 | 87 | 89 | 57 | 0 | 4 | 3 | 0 | 0 | |
| WI LA CROSSE | 54 | 30 | 70 | 22 | 42 | 8 | 0.12 | -0.33 | 0.12 | 0.76 | 67 | 1.62 | 49 | 88 | 43 | 0 | 5 | 1 | 0 | 0 | |
| WI MADISON | 52 | 30 | 66 | 21 | 41 | 7 | 0.76 | 0.30 | 0.56 | 2.22 | 187 | 3.09 | 80 | 91 | 51 | 0 | 6 | 3 | 1 | 0 | |
| WI MILWAUKEE | 54 | 32 | 70 | 21 | 43 | 8 | 0.40 | -0.08 | 0.25 | 0.81 | 64 | 2.13 | 45 | 85 | 48 | 0 | 4 | 3 | 0 | 0 | |
| WI BECKLEY | 61 | 33 | 69 | 9 | 47 | 5 | 0.01 | -0.80 | 0.01 | 1.33 | 62 | 10.22 | 133 | 80 | 31 | 0 | 2 | 1 | 0 | 0 | |
| WI CHARLESTON | 65 | 34 | 73 | 15 | 50 | 4 | 0.00 | -0.93 | 0.00 | 2.67 | 108 | 12.83 | 149 | 87 | 32 | 0 | 2 | 0 | 0 | 0 | |
| WI ELKINS | 63 | 27 | 71 | 8 | 45 | 6 | 0.00 | -0.91 | 0.00 | 1.91 | 80 | 10.58 | 122 | 84 | 26 | 0 | 4 | 0 | 0 | 0 | |
| WI HUNTINGTON | 65 | 38 | 73 | 16 | 51 | 5 | 0.02 | -0.90 | 0.02 | 2.89 | 121 | 13.22 | 157 | 76 | 34 | 0 | 1 | 1 | 0 | 0 | |
| WY CASPER | 48 | 26 | 55 | 22 | 37 | 1 | 0.19 | -0.01 | 0.15 | 1.07 | 227 | 2.76 | 177 | 82 | 39 | 0 | 6 | 2 | 0 | 0 | |
| WY CHEYENNE | 51 | 27 | 62 | 19 | 39 | 3 | 0.13 | -0.11 | 0.11 | 0.70 | 115 | 1.88 | 127 | 78 | 25 | 0 | 6 | 2 | 0 | 0 | |
| WY LANDER | 50 | 25 | 57 | 16 | 37 | 1 | 0.21 | -0.06 | 0.21 | 1.46 | 231 | 2.92 | 175 | 80 | 34 | 0 | | | | | |

Winter Weather Review

Weather summary provided by USDA/WAOB

Highlights: The Western winter wet season petered out after December, as hopes for drought relief fizzled during the first 2 months of 2022. Consistent with La Niña, periods of heavier precipitation were mostly limited to the northern tier of the West, where several rounds of flooding occurred west of the Cascades. With the generally dry start to 2022, there was little overall change in the Western drought depiction, according to the *U.S. Drought Monitor*. In fact, coverage of moderate to exceptional drought (D1 to D4) in the 11-state Western region held nearly steady at 88 to 90 percent each week from January 4 to March 1, after peaking just below 95 percent on December 7, 2021. Some of the most acute dryness in early 2022 covered California and Nevada; it was the driest January-February combined during the 1895-2022 period of record in both states. According to the California Department of Water Resources, the Sierra Nevada began the dry spell with a snow-water equivalency of 16 inches—nearly 160 percent of the late-December average. By mid-March, the water equivalency stood at just over 16 inches, less than 60 percent of average for the date.

Farther east, drought also continued to dominate the landscape across the High Plains, leaving rangeland, pastures, and winter grains in uncommonly poor shape as spring approached. By February 27, topsoil moisture was rated 75 to 80 percent very short to short in Kansas, Oklahoma, and Texas, according to USDA/NASS. On that date, winter wheat was rated 75 percent very poor to poor in Texas, along with 65 percent in Oklahoma and 38 percent in Kansas. Texas also reported 69 percent of its rangeland, pastures, and oats were rated in very poor to poor condition. Meanwhile, a drier-than-normal winter led to development of short-term drought in parts of the South, especially from the Mississippi Delta westward, along the Gulf Coast, and in the southern Atlantic region.

In contrast, ample to locally excessive precipitation fell during winter from the Tennessee Valley into the eastern Corn Belt and lower Great Lakes region. Mid-February statistics from USDA/NASS indicated topsoil moisture was rated at least one-third surplus in Illinois, Michigan, Indiana, and Ohio. Late-winter flooding affected several basins; in Lafayette, IN, the Wabash River crested 9.43 feet above flood stage on February 18—the highest water level in that gauge location in 4 years, since late-February 2018. Winter wetness—in the form of frequent blizzards—also affected portions of the north-central U.S., including the Red River Valley of the North and the upper Great Lakes region, helping to eradicate drought or significantly reduce drought intensity.

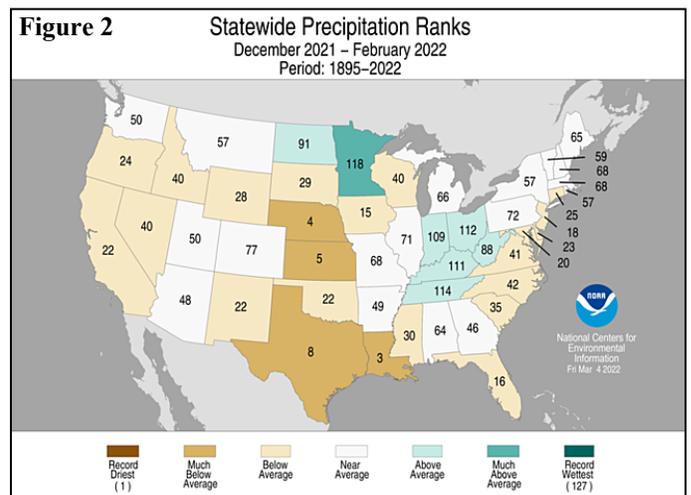
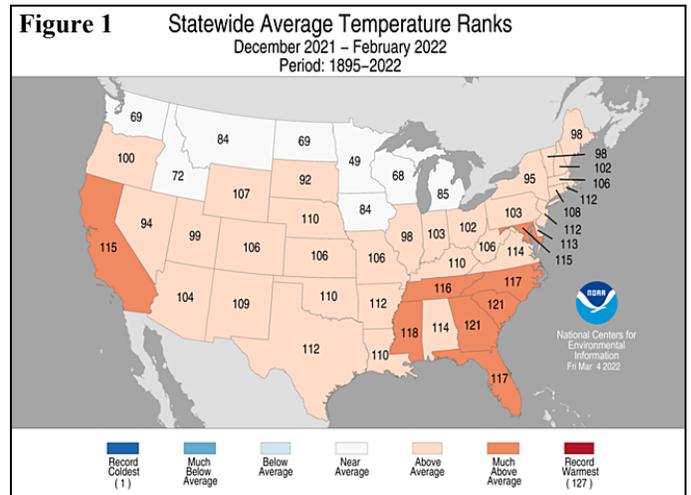
Despite the wet spots, U.S. drought coverage continued to climb, rising from 53.4 percent to 59.2 percent between November 30, 2021, and March 1, 2022. By March 1, national drought coverage had been greater than 40 percent for 75 consecutive weeks—a *Drought Monitor*-era record. When U.S. drought coverage climbed to 61.1 percent on March 8, it marked the first time since January 8, 2013, that drought blanketed more than 60 percent of the country.

Besides drought, the winter of 2021-22 featured some notable extremes. In December, multiple severe weather outbreaks resulted in more than 200 tornadoes, based on preliminary reports. Tragically, the December 10-11 outbreak was responsible for 87 tornado-related fatalities. Days later, on the 15th, the first-ever December derecho swept from the east-central Plains into the upper Midwest. December ended with

winter wildfires ravaging areas near Boulder, CO. About a month later, a late-January blizzard along the northern Atlantic Coast helped to draw the coldest air in 4 years across Florida’s peninsula. Elsewhere in January, rare, mid-winter wildfires affected several areas, including the central California coast near Big Sur and the southern Plains.

Historical Perspective: According to preliminary data provided by the National Centers for Environmental Information, the winter of 2021-22 featured generally warm, dry conditions, with several exceptions. The national average temperature of 34.8°F was 2.5°F above the 1901-2000 mean, while precipitation averaged 5.76 inches—85 percent of normal. It was the nation’s driest December-February period since 2001-02, when winter precipitation averaged 5.69 inches.

Only Minnesota ranked in the cool half of the December-February historical distribution, reporting its 49th-coldest winter (figure 1). In contrast, top-ten values for winter warmth were noted in Georgia, Mississippi, and South Carolina. Meanwhile, state precipitation rankings ranged from the third-driest winter in Louisiana to the tenth-wettest winter in Minnesota (figure 2). Along with Louisiana, top-ten values for winter dryness were observed in Kansas, Nebraska, and Texas.



December: December 2021 featured some notable weather extremes. In fact, monthly temperatures averaged at least 10°F above normal at numerous locations from the southern Plains to the Mississippi Delta, setting records for the warmest-ever December. That warmth, along with frigid conditions (locally more than 5°F below normal) near the Canadian border from the Pacific Northwest to the northern Plains, fueled an active storm track and periods of severe thunderstorms and heavy precipitation. The month's first significant severe-weather outbreak occurred across the mid-South and lower Midwest on December 5-6. Less than a week later, on the 10th, the deadliest December tornado in the Nation's history—an EF-4 with winds estimated near 190 mph—traveled nearly 166 miles, starting in Obion County, TN, and devastating the Kentucky communities of Mayfield and Dawson Springs. More than 50 deaths occurred during that tornado's rampage, according to preliminary reports, while dozens of additional tornadoes—some with fatalities—swarmed other parts of the mid-South and lower Midwest.

A mid-December wind and dust storm, which raked the central and southern Plains with wind gusts of 75 to 100 mph or higher, increased concerns regarding the overwintering wheat crop. By the end of December, only 33 percent of Kansas' winter wheat was rated in good to excellent condition, down from 62 percent in late-November 2021. Similarly, the portion of Nebraska's wheat rated good to excellent dropped from 64 to 39 percent between November 28 and December 31. Across the southern High Plains, Texas communities such as Amarillo and Borger ended the year on an 80-day streak (October 13 – December 31) without any precipitation—not even a trace. Lingering drought across the northern High Plains also maintained stress on winter wheat; in Montana, 71 percent of the crop was rated very poor to poor at year's end. The Plains' drought was also reflected in moisture shortages; at the end of December, among reporting states, USDA/NASS rated topsoil moisture at least one-half very short to short in Colorado (84 percent), New Mexico (80 percent), Montana (77 percent), Kansas (72 percent), and Nebraska (68 percent), and North Dakota (50 percent). Toward month's end, wind-driven wildfires near Boulder, CO—including the 6,219-acre Marshall Fire—swept through thousands of acres of drought-cured brush, timber, and grass, as well as portions of the communities of Louisville and Superior, destroying as many as 1,000 structures.

In contrast, consistent and widespread storminess delivered December drought relief—in the form of improvements in soil moisture and mountain snowpack—west of the Rockies. Although drought coverage in the 11-state Western region decreased only 5 percentage points (from 94 to 89 percent) between November 30, 2021, and January 4, 2022, there was a substantial decrease in the higher-end drought categories. For example, Western coverage of extreme to exceptional drought (D3 to D4) during that 5-week period decreased from 44 to 24 percent. By December 31, the average water equivalency of the high-elevation Sierra Nevada snowpack stood at just over 15 inches, more than 150 percent of average for the date, but only 55 percent of the typical end-of-season accumulation. In addition, many large reservoirs—including Lake Mead on the Colorado River—remained at historically low levels and will be unlikely to significantly recover.

January: As 2021 ended, the water equivalency of the Sierra Nevada snowpack stood close to 15 inches, nearly 160 percent of the late-December average, according to the California

Department of Water Resources. Incredibly, less than an inch was added during January to that snowpack, leaving the early-February water equivalency at 16 inches, about 90 percent of average for the date. Disappointingly low January precipitation totals were also reported across the remainder of California and the Great Basin, as well as the Southwest. In contrast, wet weather persisted early in the month across the Pacific Northwest, while periods of precipitation provided varying degrees of drought relief from the northern and central Rockies to the northern Plains.

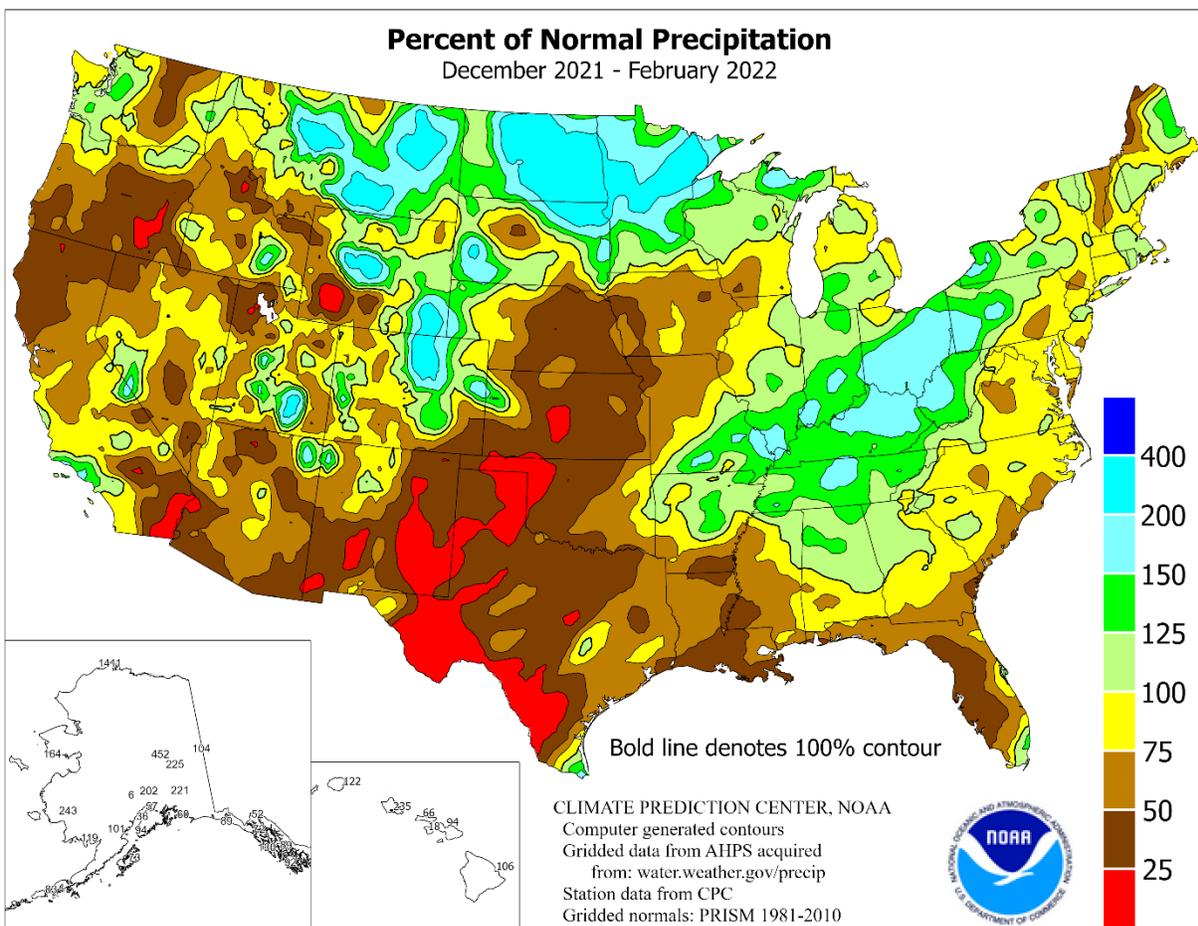
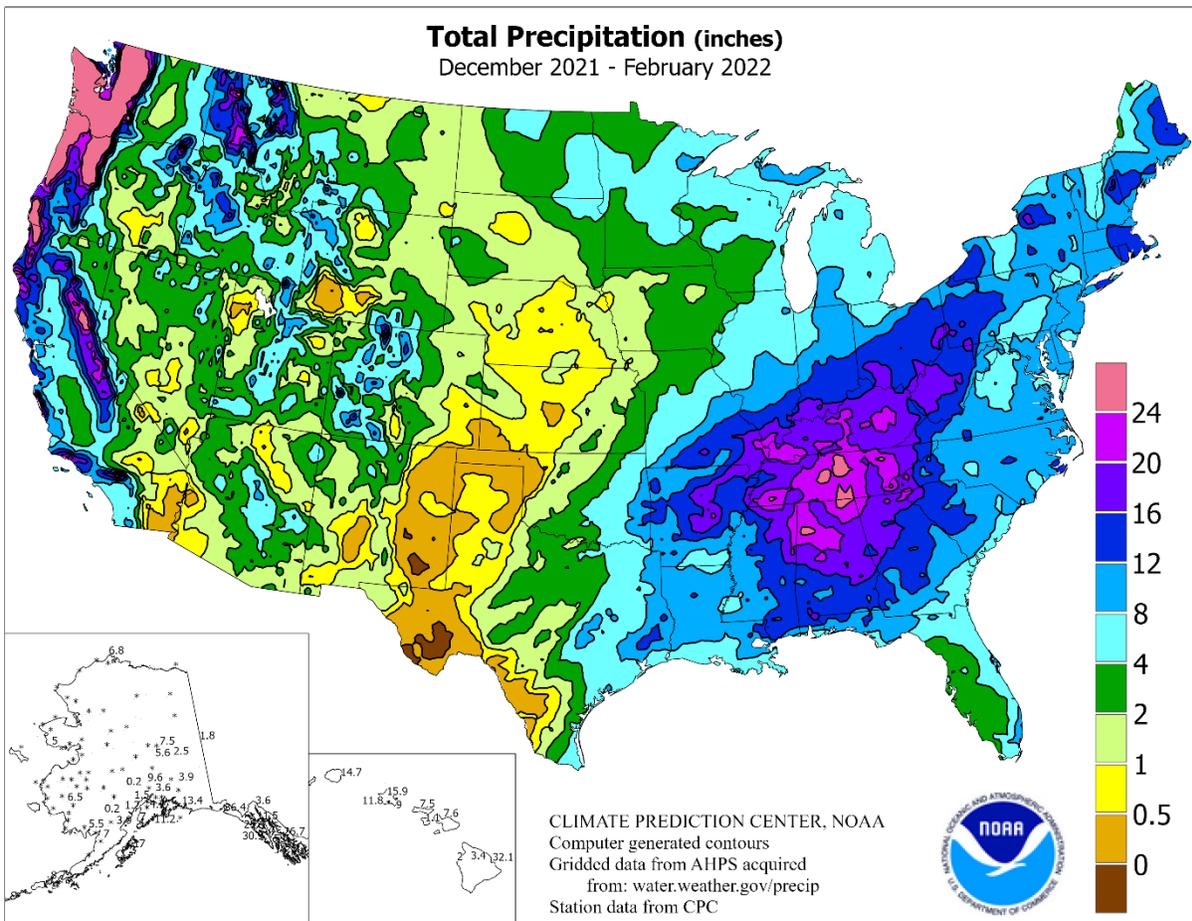
Meanwhile, Southwestern dryness extended across the southern half of the Plains, where intensifying drought adversely affected rangeland, pastures, and winter grains. By January 23, more than one-quarter of the winter wheat was rated in very poor to poor condition in several key production states, including Kansas (31 percent), Colorado (40 percent), Oklahoma (43 percent), and Texas (71 percent). Drought impacts extended to the northern High Plains, where 65 percent of Montana's winter wheat was rated very poor to poor. On the same date, USDA/NASS rated topsoil moisture at least 40 percent very short to short in each of the ten states encompassing the Plains and the eastern slopes of the Rockies, ranging from 41 percent in North Dakota to 87 percent in New Mexico.

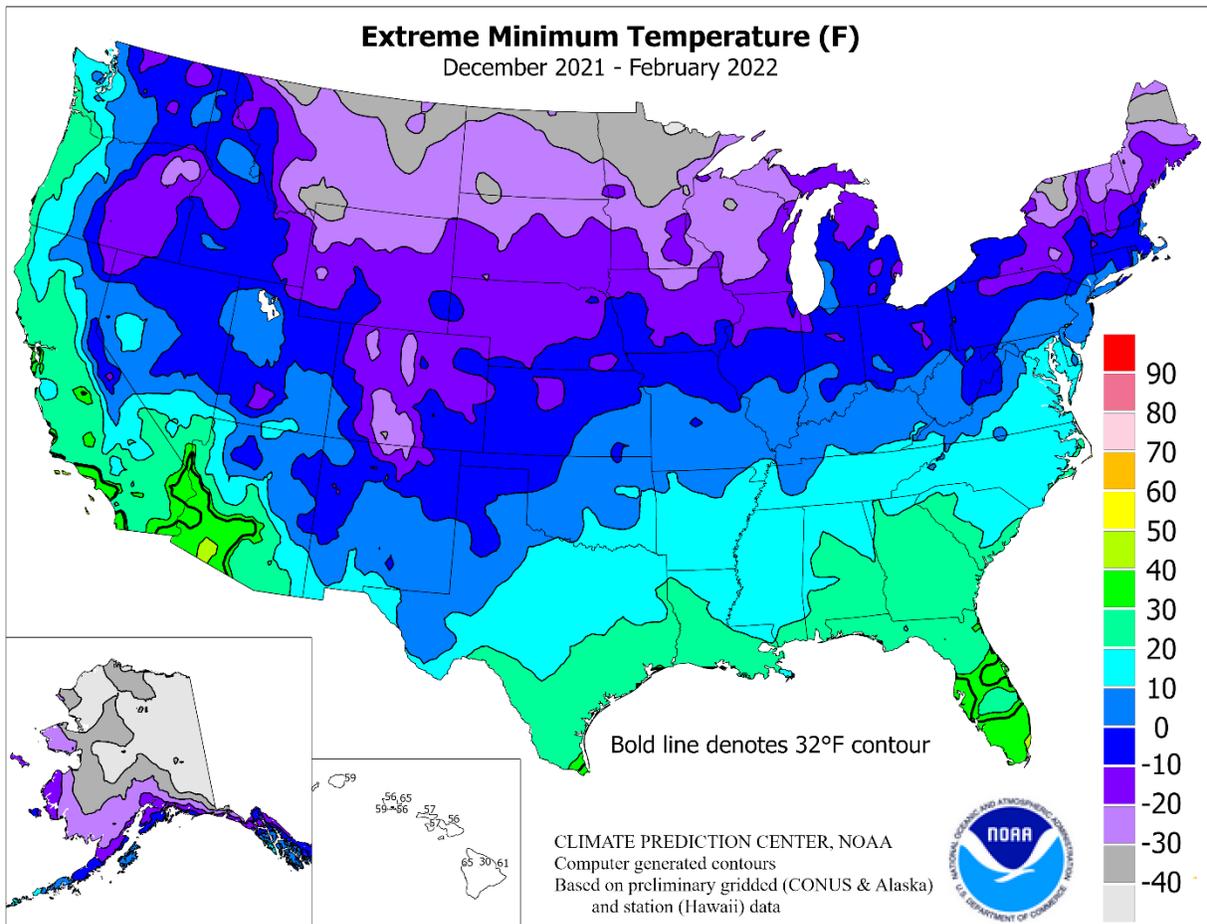
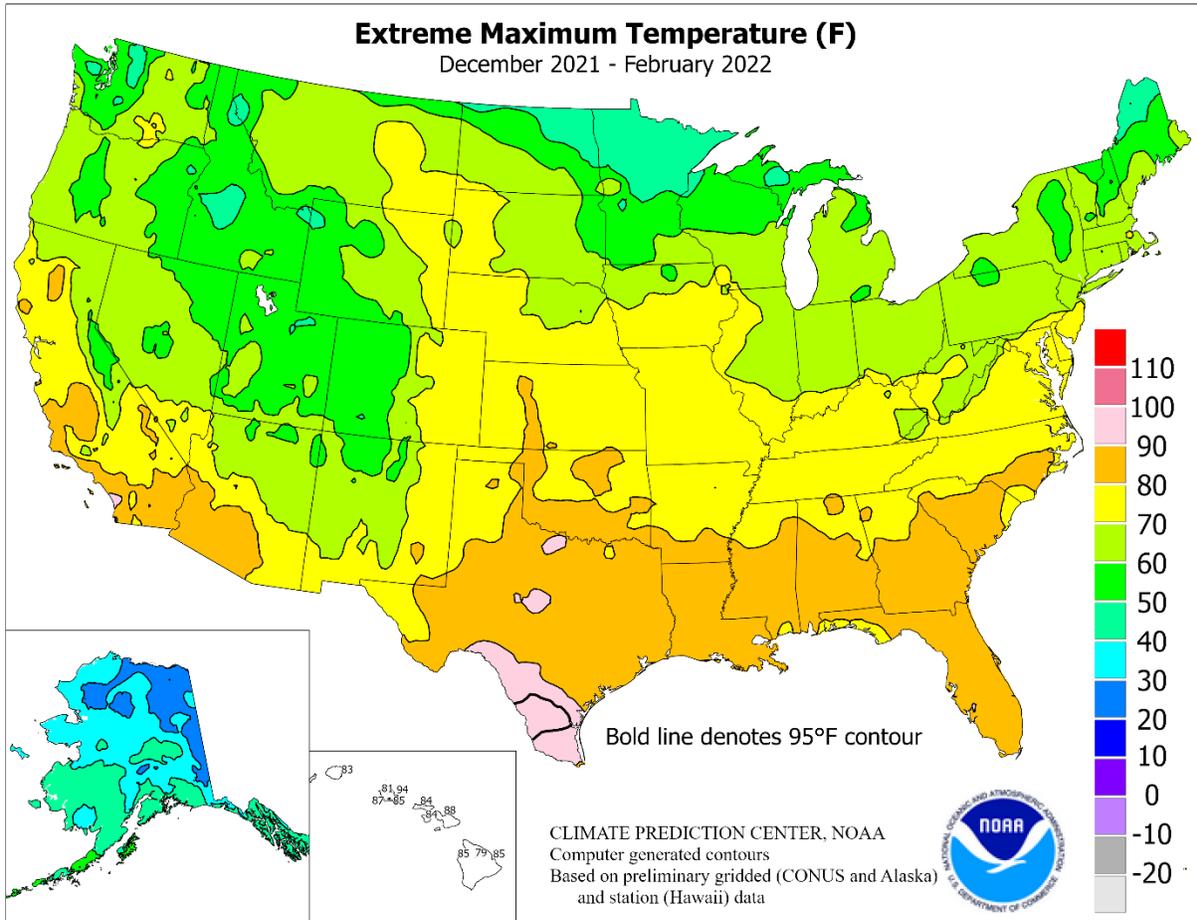
Farther east, an overall cold but quiet Midwestern weather pattern was interrupted by a mid-January storm, which delivered wind-driven snow, mainly west of the Mississippi River. In fact, parts of the upper Midwest were subjected to sustained cold weather, interspersed with periods of gusty winds and light snow, leading to rural travel difficulties and increased livestock stress. Monthly temperatures broadly averaged at least 5°F below normal from the Midwest to the interior Northeast. Cold weather occasionally reached the Deep South, culminating in freezes across parts of Florida on January 24 and 30. During the latter cold snap, Daytona Beach, FL (31°F on January 30), experienced its first freeze since January 19, 2018.

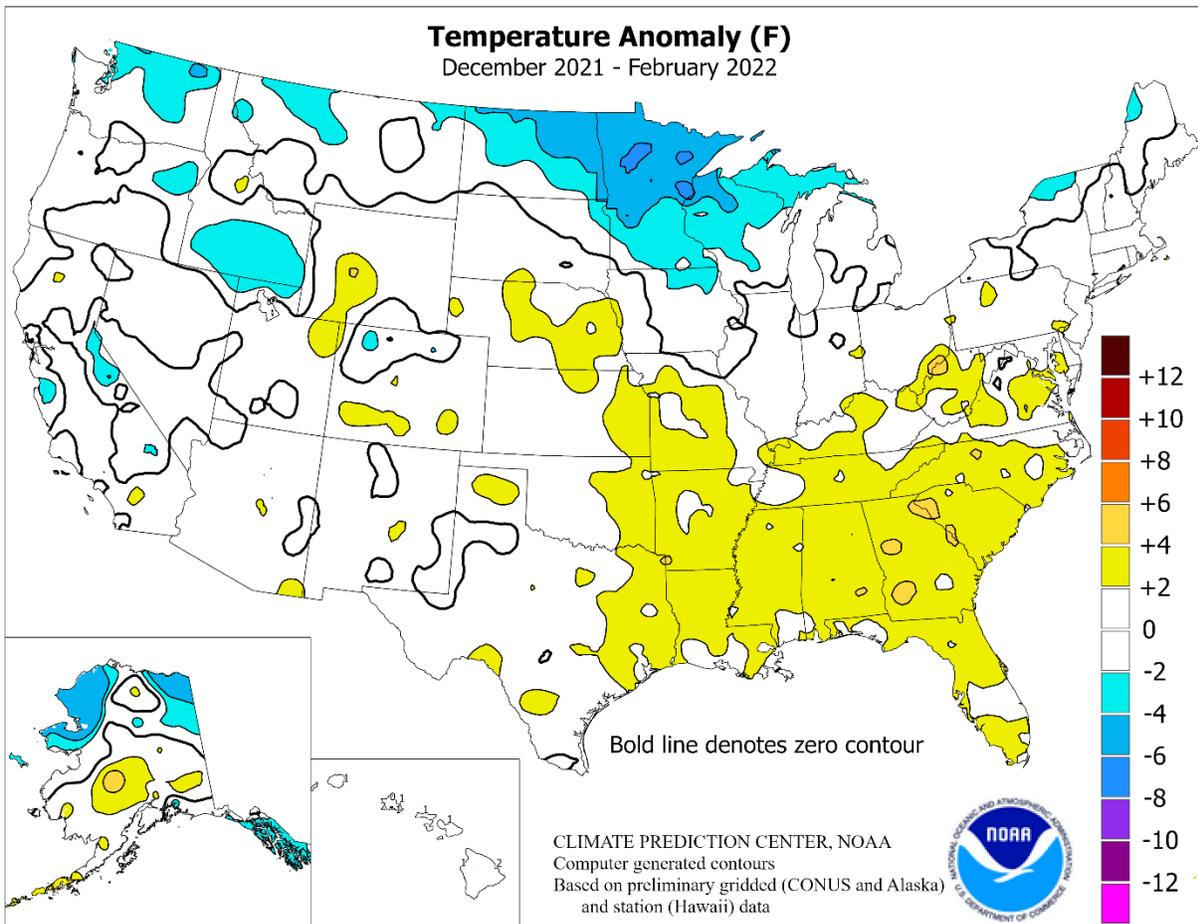
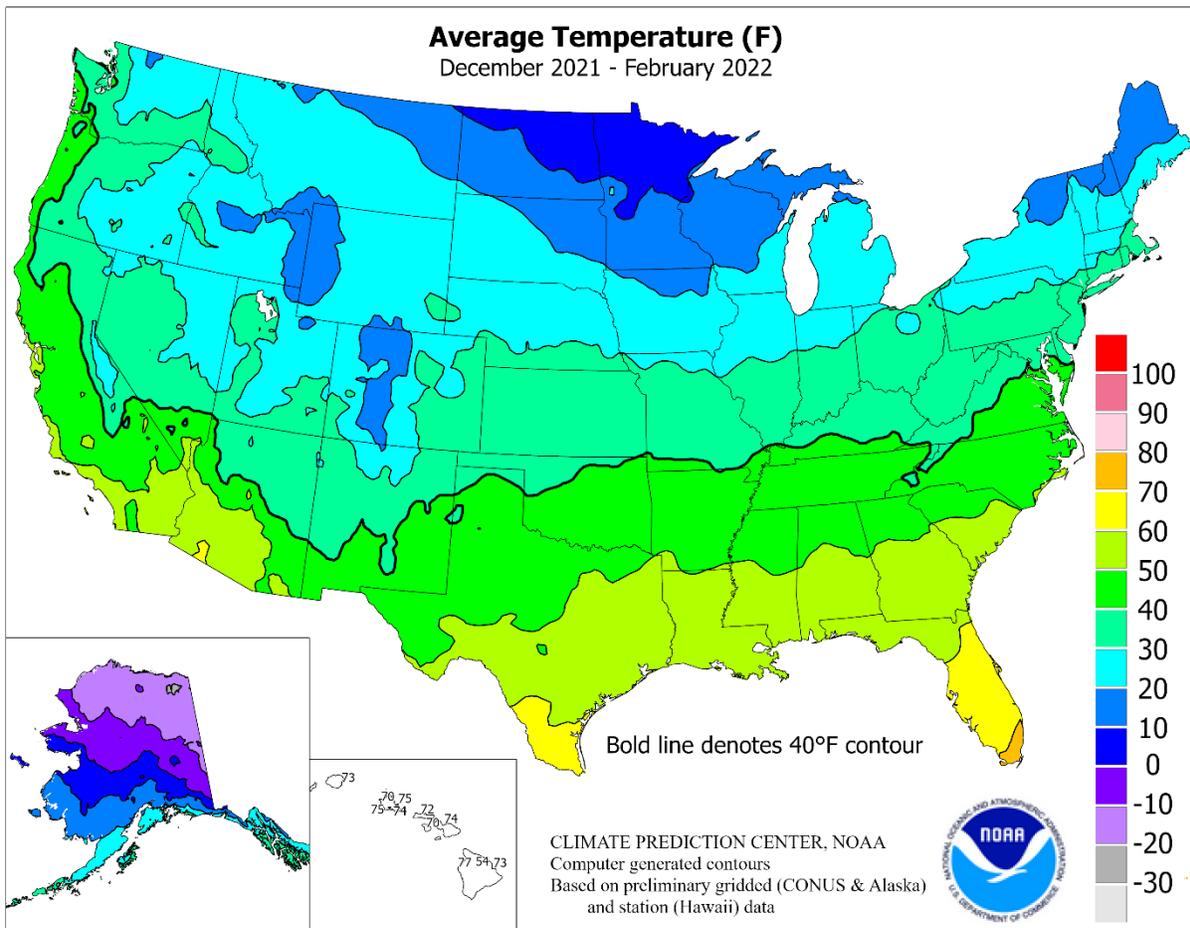
In contrast, generally mild weather prevailed from the Pacific Coast to the High Plains, although cooler air began to settle across the Northwest late in the month. Parts of the Northwest also dealt with extended periods of air stagnation and foggy conditions. On the other side of the Rockies, windy weather frequently raked the High Plains, keeping winter wheat's protective snow cover at a minimum. On the southern Plains, windy, dry weather led to several, mid-winter grassfires, including the 1,700-acre Mill Creek Fire in Shackelford County, TX, which was sparked on January 15. A rare winter wildfire—the Colorado Fire—also burned along the central California coastline near Big Sur, torching nearly 700 acres of vegetation, starting on January 21.

Elsewhere, several rounds of wintry weather affected parts of the South and East, contributing to above-normal January precipitation in some areas. The same storm system that delivered mid-month wind and snow across the upper Midwest later produced significant snow and ice accumulations from the southern Appalachians into the Northeast. Late in the month, a rapidly intensifying coastal storm resulted in blizzard conditions for the first time in more than 4 years along the middle and northern Atlantic Coast.

February: A complete summary appeared in the *Weekly Weather and Crop Bulletin* dated February 8, 2022.







National Weather Data for Selected Cities

December 2021 - February 2022

Data Provided by Climate Prediction Center

| STATES AND STATIONS | TEMP, °F | | PRECIP. | | STATES AND STATIONS | TEMP, °F | | PRECIP. | | STATES AND STATIONS | TEMP, °F | | PRECIP. | |
|---------------------|----------|-----------|---------|-----------|---------------------|----------|-----------|---------|-----------|---------------------|----------|-----------|---------|-----------|
| | AVERAGE | DEPARTURE | TOTAL | DEPARTURE | | AVERAGE | DEPARTURE | TOTAL | DEPARTURE | | AVERAGE | DEPARTURE | TOTAL | DEPARTURE |
| AK ANCHORAGE | 22 | 3 | 4.67 | 2.07 | WICHITA | 37 | 2 | 0.97 | -2.27 | TOLEDO | 30 | 2 | 15.94 | 9.16 |
| BARROW | -11 | 0 | 6.83 | 6.35 | KY LEXINGTON | 37 | 2 | 17.45 | 7.19 | YOUNGSTOWN | 30 | 2 | 10.21 | 2.56 |
| FAIRBANKS | -2 | -4 | 7.52 | 5.85 | LOUISVILLE | 40 | 3 | 13.16 | 2.97 | OK OKLAHOMA CITY | 42 | 1 | 1.61 | -3.25 |
| JUNEAU | 28 | -1 | 25.44 | 10.11 | PADUCAH | 41 | 4 | 16.44 | 4.25 | TULSA | 43 | 4 | 4.75 | -1.24 |
| KODIAK | 33 | 2 | 16.98 | -6.20 | LA BATON ROUGE | 56 | 0 | 7.78 | -7.50 | OR ASTORIA | 43 | 0 | 30.17 | 2.86 |
| NOME | 6 | -1 | 4.96 | 1.93 | LAKE CHARLES | 56 | 3 | 4.93 | -8.44 | BURNS | 29 | 3 | 2.60 | -1.20 |
| AL BIRMINGHAM | 50 | 4 | 7.56 | -6.31 | NEW ORLEANS | 58 | 3 | 8.29 | -7.42 | EUGENE | 42 | 1 | 16.00 | -4.13 |
| HUNTSVILLE | 46 | 2 | 18.96 | 3.44 | SHREVEPORT | 53 | 5 | 6.63 | -7.13 | MEDFORD | 42 | 1 | 4.64 | -3.27 |
| MOBILE | 55 | 2 | 8.91 | -6.93 | MA BOSTON | 33 | 1 | 9.01 | -1.33 | PENDELTON | 35 | 0 | 4.39 | 0.35 |
| MONTGOMERY | 53 | 5 | 13.83 | -0.97 | WORCESTER | 29 | 2 | 12.07 | 1.58 | PORTLAND | 42 | 0 | 14.57 | 0.54 |
| AR FORT SMITH | 45 | 3 | 10.74 | 1.92 | MD BALTIMORE | 39 | 4 | 7.07 | -2.17 | SALEM | 43 | 1 | 16.85 | -0.54 |
| LITTLE ROCK | 47 | 4 | 13.67 | 1.49 | ME CARIBOU | 14 | 0 | 8.76 | 0.61 | PA ALLENTOWN | 32 | 2 | 7.46 | -1.79 |
| AZ FLAGSTAFF | 31 | 1 | 5.72 | -0.34 | PORTLAND | 27 | 1 | 10.46 | -0.17 | ERIE | 32 | 2 | 11.52 | 2.50 |
| PHOENIX | 59 | 2 | 1.92 | -0.89 | MI ALPENA | 21 | -1 | 4.12 | -0.62 | MIDDLETOWN | 35 | 3 | 6.65 | -1.80 |
| PRESCOTT | 40 | 0 | 2.76 | -0.76 | GRAND RAPIDS | 26 | 0 | 6.76 | 0.40 | PHILADELPHIA | 39 | 3 | 7.35 | -1.83 |
| TUCSON | 55 | 2 | 1.77 | -1.07 | HOUGHTON LAKE | 21 | 0 | 3.90 | -0.49 | PITTSBURGH | 32 | 1 | 10.35 | 2.44 |
| CA BAKERSFIELD | 51 | 2 | 2.68 | -0.76 | LANSING | 27 | 2 | 8.13 | 3.14 | WILKES-BARRE | 31 | 3 | 6.47 | -0.58 |
| EUREKA | 46 | -2 | 7.47 | -12.78 | MUSKEGON | 29 | 1 | 5.35 | -1.05 | WILLIAMSPORT | 31 | 2 | 7.50 | -0.44 |
| FRESNO | 51 | 3 | 3.62 | -2.40 | TRAVERSE CITY | 25 | 1 | 2.40 | -4.37 | RI PROVIDENCE | 34 | 2 | 10.37 | -0.96 |
| LOS ANGELES | 58 | 1 | 8.35 | 0.37 | MN DULUTH | 10 | -3 | 4.66 | 1.64 | SC CHARLESTON | 54 | 4 | 5.95 | -3.76 |
| REDDING | 50 | 4 | 6.51 | -11.22 | INT_L FALLS | 3 | -5 | 4.18 | 2.14 | COLUMBIA | 50 | 4 | 9.75 | -0.60 |
| SACRAMENTO | 48 | 1 | 7.05 | -3.24 | MINNEAPOLIS | 16 | -2 | 3.10 | 0.22 | FLORENCE | 51 | 4 | 8.13 | -0.96 |
| SAN DIEGO | 57 | -1 | 3.40 | -2.38 | ROCHESTER | 16 | 0 | 2.59 | -0.41 | GREENVILLE | 46 | 2 | 10.94 | -0.93 |
| SAN FRANCISCO | 52 | 1 | 10.15 | -2.17 | ST. CLOUD | 12 | -3 | 3.39 | 1.29 | SD ABERDEEN | 15 | 0 | 1.60 | 0.02 |
| STOCKTON | 49 | 2 | 3.82 | -3.65 | MO COLUMBIA | 36 | 4 | 5.09 | -1.51 | HURON | 19 | 0 | 0.60 | -1.05 |
| CO ALAMOSA | 22 | 3 | 0.74 | -0.27 | KANSAS CITY | 35 | 4 | 1.87 | -2.22 | RAPID CITY | 26 | 0 | 1.08 | -0.18 |
| CO SPRINGS | 35 | 4 | 0.84 | -0.30 | SAINT LOUIS | 37 | 3 | 7.60 | 0.15 | SIOUX FALLS | 22 | 3 | 1.77 | -0.11 |
| DENVER INTL | 33 | 2 | 1.79 | 0.55 | SPRINGFIELD | 39 | 4 | 6.09 | -1.89 | TN BRISTOL | 41 | 4 | 12.69 | 2.57 |
| GRAND JUNCTION | 30 | 1 | 2.67 | 0.96 | MS JACKSON | 52 | 4 | 7.67 | -7.23 | CHATTANOOGA | 46 | 4 | 18.56 | 3.87 |
| PUEBLO | 34 | 2 | 1.22 | 0.07 | MERIDIAN | 52 | 6 | 12.33 | -3.48 | KNOXVILLE | 44 | 3 | 17.42 | 4.28 |
| CT BRIDGEPORT | 34 | 1 | 8.16 | -1.00 | TUPELO | 48 | 5 | 17.17 | 1.43 | MEMPHIS | 47 | 4 | 15.55 | 1.43 |
| HARTFORD | 31 | 2 | 9.34 | -0.14 | MT BILLINGS | 27 | -1 | 2.19 | 0.69 | NASHVILLE | 44 | 5 | 18.20 | 6.28 |
| DC WASHINGTON | 41 | 3 | 6.51 | -1.96 | BUTTE | 22 | 2 | 1.00 | -0.46 | TX ABILENE | 50 | 4 | 2.23 | -1.40 |
| DE WILMINGTON | 37 | 3 | 8.87 | -0.24 | CUT BANK | 21 | -2 | 0.32 | -0.42 | AMARILLO | 41 | 3 | 0.48 | -1.53 |
| FL DAYTONA BEACH | 63 | 4 | 5.58 | -2.53 | GLASGOW | 17 | 1 | 1.20 | 0.05 | AUSTIN | 55 | 2 | 6.57 | -0.05 |
| JACKSONVILLE | 58 | 3 | 4.50 | -4.75 | GREAT FALLS | 24 | -1 | 2.33 | 0.78 | BEAUMONT | 58 | 4 | 3.86 | -10.27 |
| KEY WEST | 73 | 2 | 3.89 | -1.86 | HAVRE | 19 | 0 | 1.09 | -0.05 | BROWNSVILLE | 65 | 3 | 5.67 | 2.14 |
| MIAMI | 72 | 2 | 8.65 | 2.73 | MISSOULA | 26 | 0 | 3.15 | 0.49 | CORPUS CHRISTI | 60 | 1 | 3.19 | -2.12 |
| ORLANDO | 66 | 4 | 3.70 | -3.56 | NC ASHEVILLE | 42 | 3 | 9.95 | -1.04 | DEL RIO | 59 | 5 | 0.41 | -1.87 |
| PENSACOLA | 58 | 5 | 6.41 | -7.88 | CHARLOTTE | 47 | 5 | 8.26 | -1.67 | EL PASO | 49 | 2 | 1.74 | 0.04 |
| TALLAHASSEE | 56 | 3 | 6.35 | -6.74 | GREENSBORO | 44 | 3 | 9.35 | 0.41 | FORT WORTH | 51 | 3 | 6.35 | -0.99 |
| TAMPA | 67 | 5 | 1.66 | -5.83 | HATTERAS | 51 | 4 | 12.29 | -1.30 | GALVESTON | 61 | 5 | 3.87 | 0.00 |
| WEST PALM BEACH | 70 | 3 | 6.30 | -2.97 | RALEIGH | 46 | 3 | 8.84 | -0.88 | HOUSTON | 57 | 3 | 12.67 | 2.42 |
| GA ATHENS | 49 | 4 | 10.76 | -1.48 | WILMINGTON | 52 | 4 | 7.61 | -3.32 | LUBBOCK | 44 | 2 | 0.54 | -1.67 |
| ATLANTA | 50 | 5 | 14.63 | 1.87 | ND BISMARCK | 15 | 0 | 1.96 | 0.47 | MIDLAND | 47 | 2 | 0.30 | -1.59 |
| AUGUSTA | 52 | 5 | 10.72 | -0.46 | DICKINSON | 18 | 0 | 0.31 | -0.69 | SAN ANGELO | 50 | 3 | 0.46 | -2.73 |
| COLUMBUS | 53 | 4 | 13.93 | 1.38 | FARGO | 8 | -5 | 2.91 | 0.72 | SAN ANTONIO | 55 | 2 | 2.93 | -2.51 |
| MACON | 52 | 4 | 10.15 | -2.52 | GRAND FORKS | 4 | -6 | 2.81 | 1.11 | VICTORIA | 58 | 2 | 3.97 | -2.92 |
| SAVANNAH | 55 | 4 | 5.02 | -4.35 | JAMESTOWN | 10 | -3 | 0.97 | -0.37 | WACO | 51 | 3 | 2.06 | -5.41 |
| HI HILO | 73 | 2 | 32.13 | 1.74 | NE GRAND ISLAND | 31 | 4 | 0.32 | -1.54 | WICHITA FALLS | 46 | 3 | 1.80 | -2.72 |
| HONOLULU | 74 | 1 | 17.57 | 10.08 | LINCOLN | 30 | 3 | 0.45 | -1.95 | UT SALT LAKE CITY | 33 | 2 | 2.33 | -1.59 |
| KAHULUI | 74 | 1 | 7.59 | -0.48 | NORFOLK | 28 | 3 | 0.65 | -1.48 | VA LYNCHBURG | 41 | 4 | 7.85 | -1.40 |
| LIHUE | 73 | 1 | 14.72 | 2.63 | NORTH PLATTE | 30 | 3 | 0.83 | -0.52 | NORFOLK | 44 | 2 | 7.43 | -2.31 |
| IA BURLINGTON | 27 | -1 | 1.96 | -3.00 | OMAHA | 29 | 3 | 0.91 | -1.74 | RICHMOND | 43 | 3 | 7.06 | -1.93 |
| CEDAR RAPIDS | 21 | -1 | 1.48 | -2.11 | SCOTTSBLUFF | 31 | 3 | 1.43 | -0.14 | ROANOKE | 42 | 3 | 7.07 | -1.63 |
| DES MOINES | 26 | 0 | 4.35 | 0.62 | VALENTINE | 29 | 5 | 0.88 | -0.34 | WASH/DULLES | 39 | 3 | 6.52 | -1.82 |
| DUBUQUE | 22 | 0 | 2.13 | -2.32 | NH CONCORD | 26 | 2 | 10.02 | 1.52 | VT BURLINGTON | 23 | 1 | 5.87 | -0.32 |
| SIoux CITY | 26 | 3 | 0.81 | -1.30 | NJ ATLANTIC_CITY | 37 | 1 | 10.61 | 0.91 | WA OLYMPIA | 40 | 0 | 24.86 | 4.28 |
| WATERLOO | 21 | 0 | 2.08 | -1.00 | NEWARK | 36 | 2 | 7.71 | -2.44 | QUILLYUTE | 40 | -2 | 37.15 | -0.80 |
| ID BOISE | 32 | -1 | 2.78 | -1.05 | NM ALBUQUERQUE | 39 | 1 | 0.47 | -0.96 | SEATTLE-TACOMA | 40 | -2 | 16.40 | 1.99 |
| LEWISTON | 36 | 0 | 3.36 | 0.45 | NV ELY | 27 | 0 | 2.35 | 0.28 | SPOKANE | 30 | 0 | 4.27 | -1.17 |
| POCATELLO | 25 | -1 | 2.34 | -0.89 | LAS VEGAS | 51 | 1 | 0.33 | -1.51 | YAKIMA | 32 | 0 | 1.81 | -1.71 |
| IL CHICAGO/O_HARE | 29 | 2 | 5.67 | -0.09 | RENO | 38 | 1 | 3.33 | 0.21 | WI EAU CLAIRE | 15 | -2 | 0.33 | -2.46 |
| MOLINE | 27 | 1 | 4.07 | -1.22 | WINNEMUCCA | 32 | 1 | 2.55 | 0.01 | GREEN BAY | 21 | 1 | 2.19 | -1.57 |
| PEORIA | 29 | 1 | 4.65 | -1.35 | NY ALBANY | 28 | 2 | 15.30 | 7.63 | LA CROSSE | 20 | -1 | 2.57 | -0.98 |
| ROCKFORD | 26 | 1 | 3.95 | -0.81 | BINGHAMTON | 25 | 1 | 7.96 | 0.44 | MADISON | 22 | 1 | 2.56 | -1.85 |
| SPRINGFIELD | 32 | 2 | 2.43 | -3.71 | BUFFALO | 29 | 2 | 9.12 | -0.39 | MILWAUKEE | 27 | 2 | 3.65 | -1.77 |
| IN EVANSVILLE | 37 | 2 | 14.80 | 4.83 | ROCHESTER | 27 | 0 | 8.10 | 1.14 | WV BECKLEY | 37 | 3 | 11.33 | 2.80 |
| FORT WAYNE | 29 | 1 | 7.66 | 0.58 | SYRACUSE | 28 | 2 | 6.83 | -0.94 | CHARLESTON | 38 | 2 | 13.21 | 3.81 |
| INDIANAPOLIS | 33 | 2 | 9.67 | 1.59 | OH AKRON-CANTON | 31 | 3 | 11.19 | 3.47 | ELKINS | 34 | 3 | 11.00 | 1.46 |
| SOUTH BEND | 28 | 1 | 7.65 | 0.83 | CINCINNATI | 36 | 2 | 11.97 | 2.87 | HUNTINGTON | 39 | 3 | 13.74 | 4.44 |
| KS CONCORDIA | 34 | 4 | 0.50 | -1.78 | CLEVELAND | 31 | 1 | 8.07 | -0.02 | WY CASPER | 27 | 2 | 2.31 | 0.72 |
| DODGE CITY | 35 | 1 | 0.62 | -1.53 | COLUMBUS | 33 | 1 | 13.01 | 5.11 | CHEYENNE | 30 | 1 | 1.58 | 0.21 |
| GOODLAND | 32 | 1 | 1.07 | -0.33 | DAYTON | 33 | 3 | 11.63 | 3.63 | LANDER | 27 | 5 | 1.83 | 0.22 |
| TOPEKA | 35 | 3 | 1.24 | -2.33 | MANSFIELD | 30 | 2 | 13.19 | 4.68 | SHERIDAN | 27 | 2 | 2.19 | 0.52 |

International Weather and Crop Summary

March 13-19, 2022

International Weather and Crop Highlights and Summaries provided by USDA/WAOB

HIGHLIGHTS

EUROPE: Moderate to heavy rain further eased lingering deficits in Spain, while warmer weather renewed winter crop development over much of central and northern Europe.

MIDDLE EAST: Unseasonably cold weather intensified in Turkey and expanded eastward into Iraq as well as western and northern Iran.

NORTHWESTERN AFRICA: Widespread soaking rainfall provided late-season moisture for drought-afflicted winter grains in Morocco but further boosted wheat and barley prospects in Algeria and Tunisia.

EAST ASIA: Unseasonably high temperatures in China promoted winter and spring crop development but increased moisture demands.

SOUTHEAST ASIA: Showers throughout the region boosted moisture reserves for the next cycle of seasonal rice.

AUSTRALIA: Showers were more widely scattered in the east, aiding summer crop drydown and harvesting.

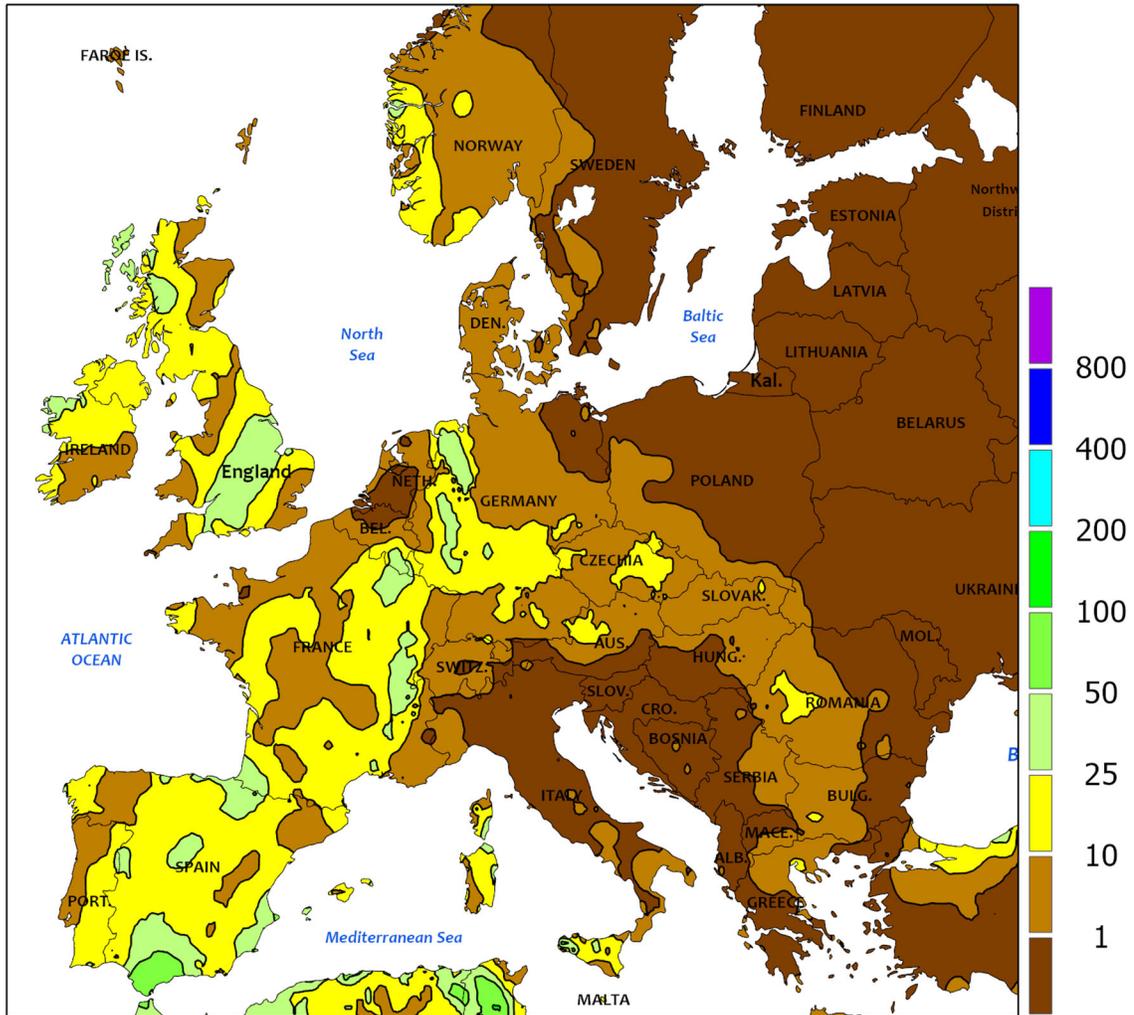
SOUTH AFRICA: Mild, showery weather maintained overall favorable conditions for immature corn.

ARGENTINA: Generally cool, overall drier conditions prevailed.

BRAZIL: Rain maintained generally favorable prospects for second-crop corn and cotton.



EUROPE
Total Precipitation(mm)
March 13 - 19, 2022



CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

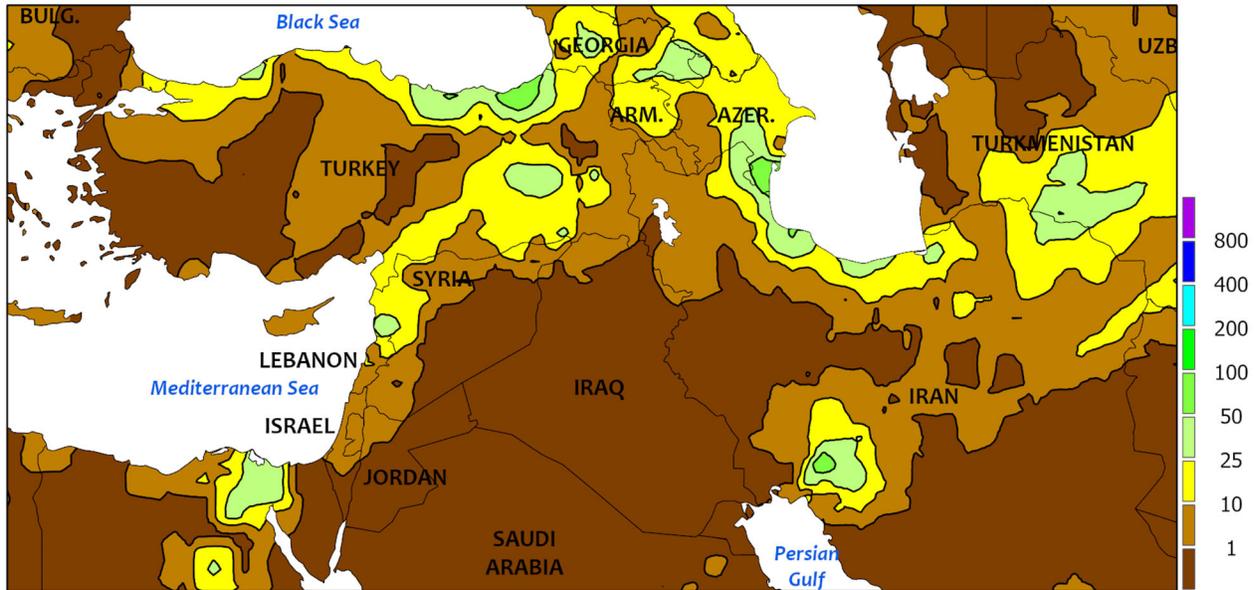


EUROPE

Locally heavy rain further eased lingering drought in Spain, while dry weather over eastern Europe contrasted with showers in western growing areas. Moderate to heavy showers (10-50 mm) over central and northern portions of the Iberian Peninsula maintained or boosted soil moisture for greening to vegetative winter grains. In previously drought-stricken Andalucía (southern Spain), heavy to excessive rainfall (25-130 mm) eased lingering long-term precipitation deficits and improved summer crop irrigation prospects. In contrast, short-term dryness in Italy continued to reduce topsoil moisture for greening to vegetative wheat and barley. Farther north,

warmer temperatures (2-5°C above normal) over much of central and northern Europe allowed winter crop green up (east) and vegetative development (west) to resume following recent chilly weather. However, cold conditions (up to 7°C below normal) lingered over Greece and the Balkans. Widespread showers over western Europe (2-25 mm, but up to 45 mm in England) improved topsoil moisture for winter wheat, barley, and rapeseed, while dry weather favored seasonal fieldwork in eastern Europe outside of a north-south ribbon of rain and snow (1-10 mm liquid equivalent) from northern Greece into Slovakia.

MIDDLE EAST
Total Precipitation(mm)
March 13 - 19, 2022



CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

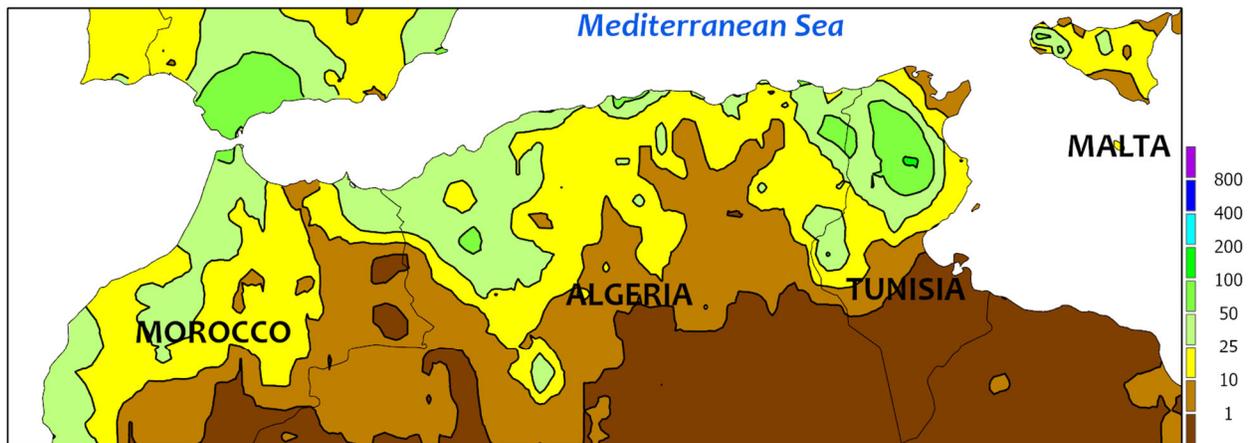


MIDDLE EAST

The cold snap which began last week over Turkey intensified and expanded eastward. Temperatures in Turkey averaged 10 to 13°C below normal on the Anatolian Plateau, with somewhat lesser anomalies (4-8°C below normal) rimming the country’s coastal perimeter. Despite the bitter cold (as low as -13°C in central Turkey), a shallow to moderate snow cover protected most wheat and barley from burnback or winterkill. Another round of moderate to heavy rain in southeastern Turkey’s GAP Region (10-30 mm) further eased this important growing area out of drought, while additional heavy snow in the Armenian Highlands (locally more than 100 mm liquid equivalent) boosted spring runoff prospects

for summer crop irrigation. The unusually cold weather (4-8°C below normal) expanded eastward and included locales from the eastern Mediterranean Coast into western and northern Iran. Freezes were common, though nighttime lows of -4 to -2°C did not pose a significant risk to vegetative winter grains in the climatologically warmer coastal and southern croplands. Rain and mountain snow accompanied the cold from coastal Syria into Lebanon (7-30 mm) in addition to Iran’s southwestern (4-50 mm) and northern (3-50 mm, locally more near the Caspian Sea Coast) growing areas. Moisture supplies across the region have improved considerably for spring growth following autumn drought.

NORTHWESTERN AFRICA
 Total Precipitation(mm)
 March 13 - 19, 2022



CLIMATE PREDICTION CENTER, NOAA
 Computer generated contours
 Based on preliminary data

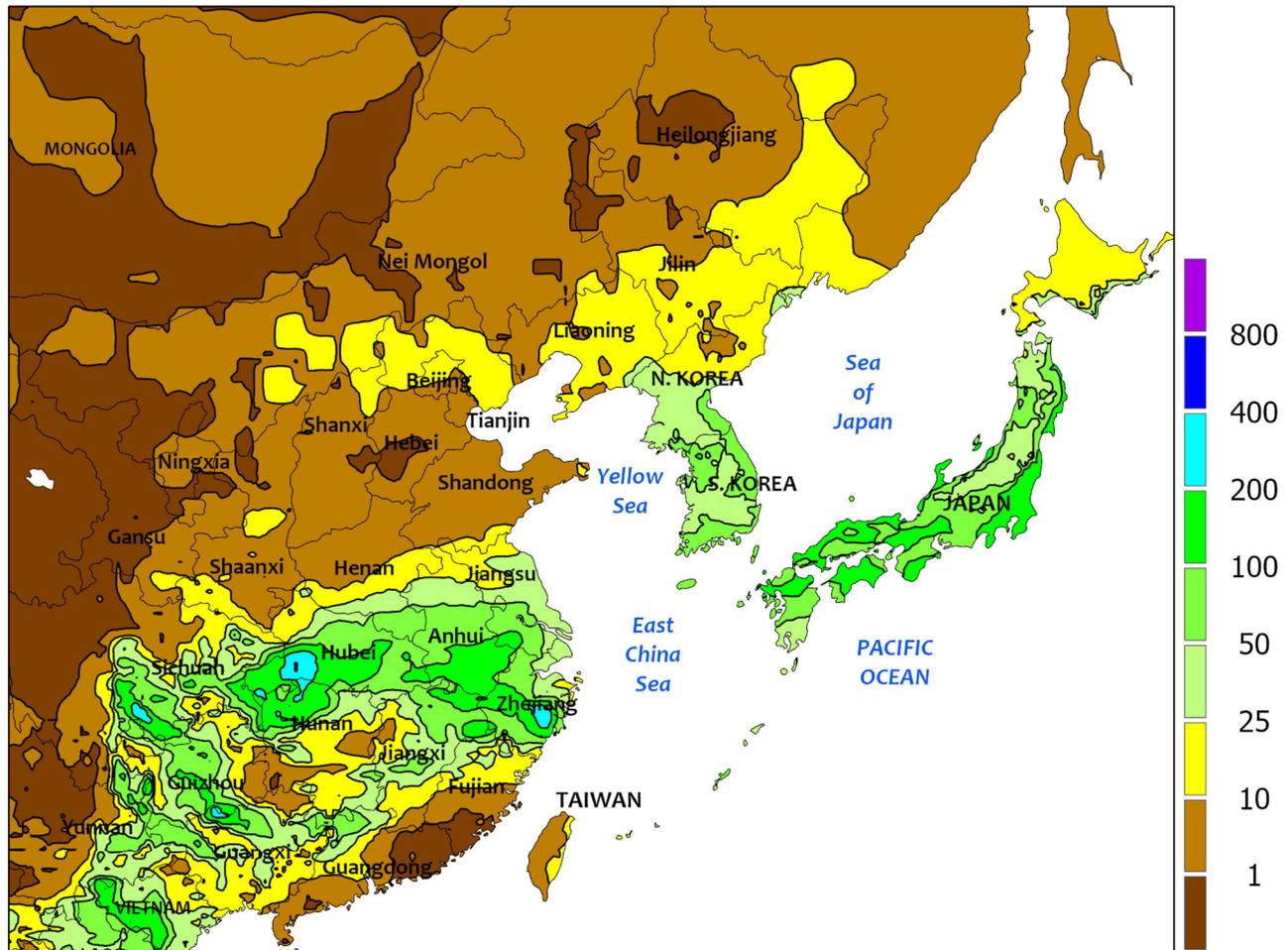


NORTHWESTERN AFRICA

Expanding and intensifying rainfall stabilized (west) or boosted (east) winter grain prospects across the region. Following recent highly variable showers in Morocco, a more widespread soaking rainfall (10-45 mm) this past week provided sorely needed moisture for winter grains, though the impacts of this season’s historic drought remained largely irreversible. However, yield prospects for winter wheat and barley in Morocco stabilized — or perhaps even improved — where crops had not yet progressed into the filling stages of development. However,

all of Morocco’s growing areas remained mired in the driest winter crop growing campaign (September – May) over the past 30 years despite this past week’s rain. In Algeria and Tunisia, another round of moderate to heavy showers (10-60 mm most areas) boosted soil moisture for winter grains approaching reproduction on the cooler Hautes Plateau and progressing through the heading and flowering stages of development closer to the coast and in the west. The last three weeks of well-timed rain have vastly improved wheat and barley prospects across Algeria and Tunisia.

EASTERN ASIA
Total Precipitation(mm)
March 13 - 19, 2022



CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

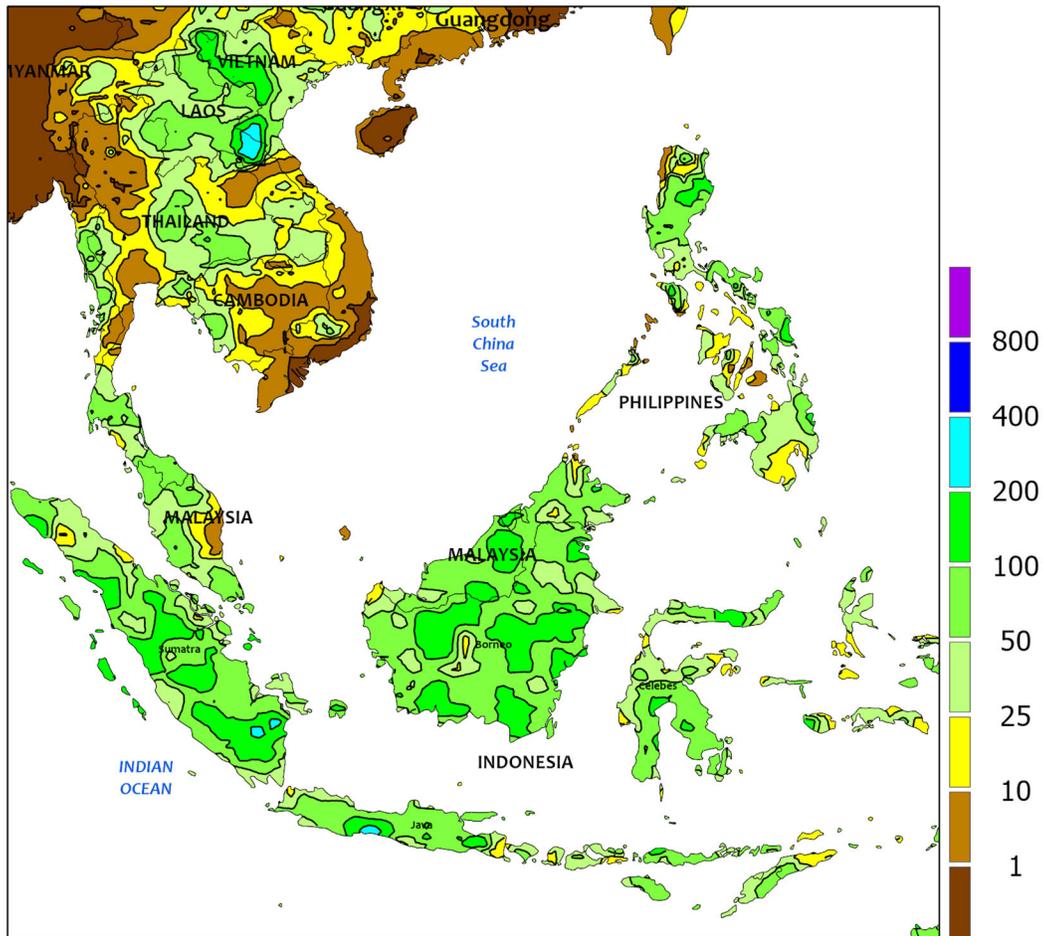


EASTERN ASIA

Much-warmer-than-normal weather at the beginning of the week in eastern and southern China was followed by showers and cooler weather by mid-week. Early spring heat engulfed much of China with temperatures averaging up to 11°C above normal in some locales in the southwest. The continued unseasonably high temperatures have set the month as the warmest March in the last 30 years. The conditions promoted rapid vegetative development of winter

and spring crops but also increased water demands. By mid-week, however, showers (less than 10 mm in wheat areas, upwards of 100 mm for rapeseed and rice) brought needed moisture and lower temperatures (nearly 15°C cooler in some areas). In other parts of the region, warmth along with widespread rain (25-100 mm or more) facilitated rice sowing along southern portions of the Korean Peninsula and the southern half of Japan.

SOUTHEAST ASIA
Total Precipitation(mm)
March 13 - 19, 2022



CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

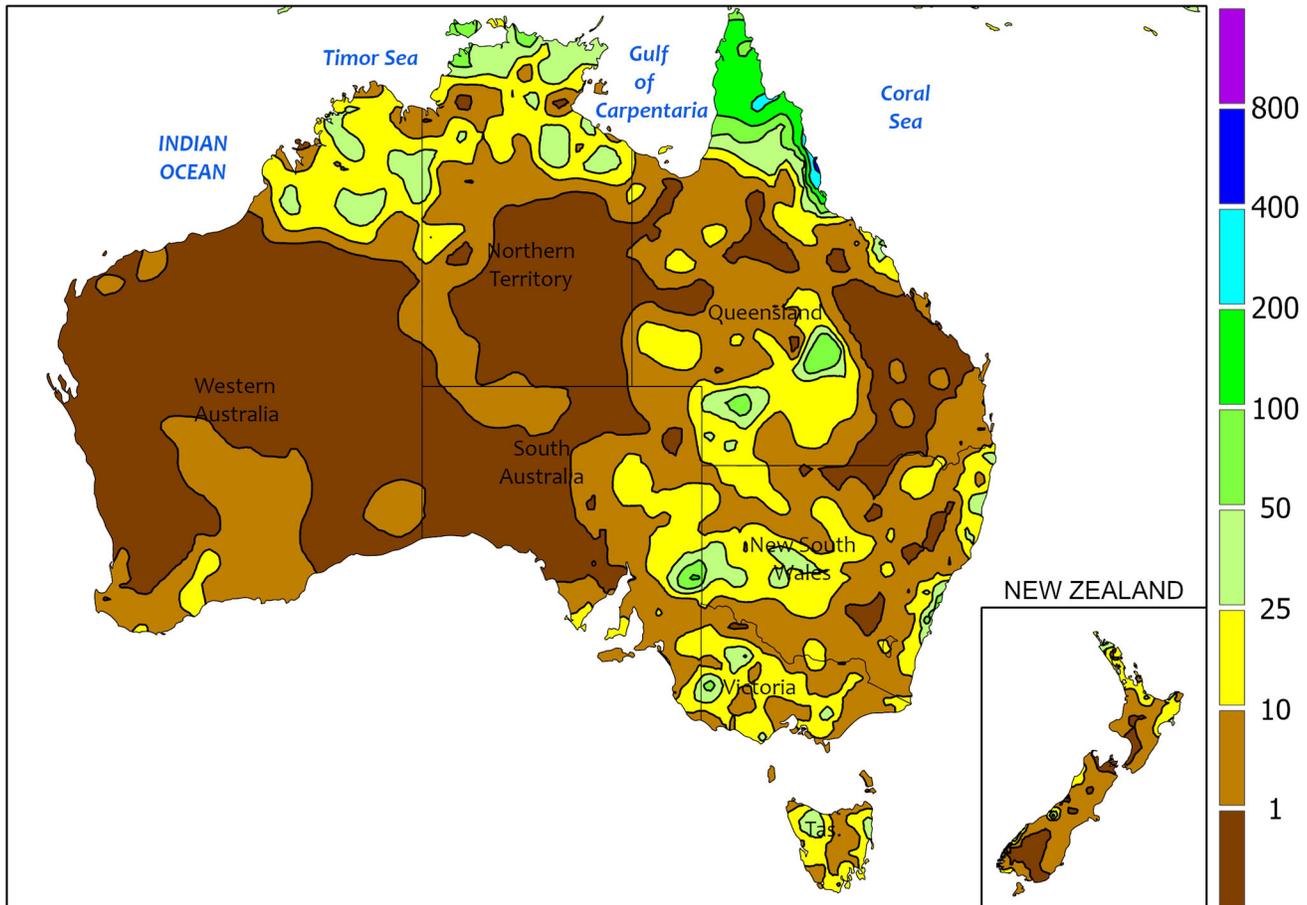


SOUTHEAST ASIA

Rainfall prevailed across much of the region, with the seasonably wetter south receiving the highest totals. Late-season showers (25-100 mm) in southern Indonesia (Java) maintained one of the wettest water years (August-July) in the last 30 years (third wettest with over 1,700 mm) and ensured ample irrigation reserves for dry-season rice and other crops sown in the coming weeks. Continued wet

weather has also sustained good moisture conditions for oil palm in other parts of Indonesia and neighboring Malaysia. Elsewhere, heat was building across Thailand and its neighbors earlier than normal as temperatures soared to 40°C in some western sections, causing stress to second-crop rice and other crops. Typically, these temperatures are not achieved until mid-April.

AUSTRALIA
Total Precipitation(mm)
March 13 - 19, 2022



Gridded data from the Australian Bureau of Meteorology: www.bom.gov.au/
Creative Commons License found at:
<https://creativecommons.org/licenses/by/3.0/au/legalcode>

CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

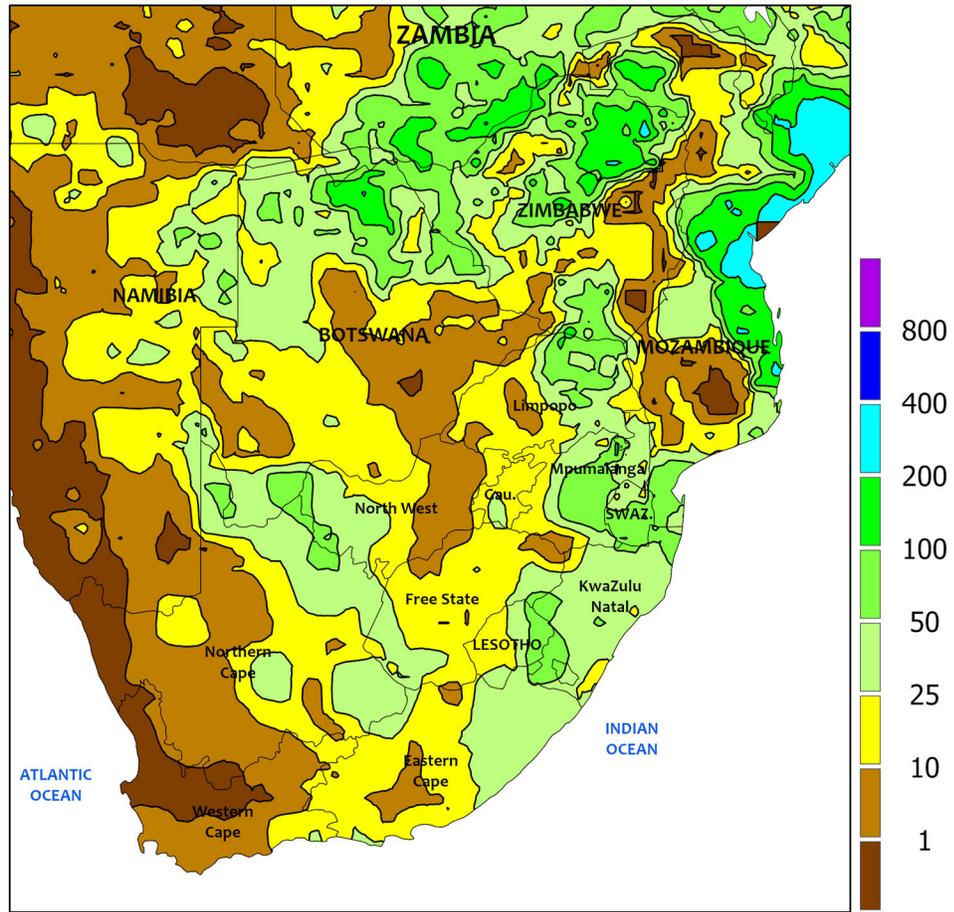


AUSTRALIA

In the wake of last week’s widespread rain, showers were more widely scattered across eastern Australia. In major summer crop producing areas of New South Wales, rainfall amounts approached 25 mm in the wettest areas, while lesser amounts were observed in most other locations. Farther north, mostly dry (less than 5 mm) weather benefited cotton and sorghum in southern Queensland, aiding drydown of

mature crops and helping the harvest gain momentum. Additionally, the drier weather helped reduce local flooding, which lingered in only a few locations as swollen rivers continued to recede. Temperatures averaged near to below normal (up to 2°C below normal) in eastern Australia, with maximum temperatures mostly in the upper 20s and lower 30s (degrees C).

SOUTH AFRICA
Total Precipitation(mm)
March 13 - 19, 2022



CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data



SOUTH AFRICA

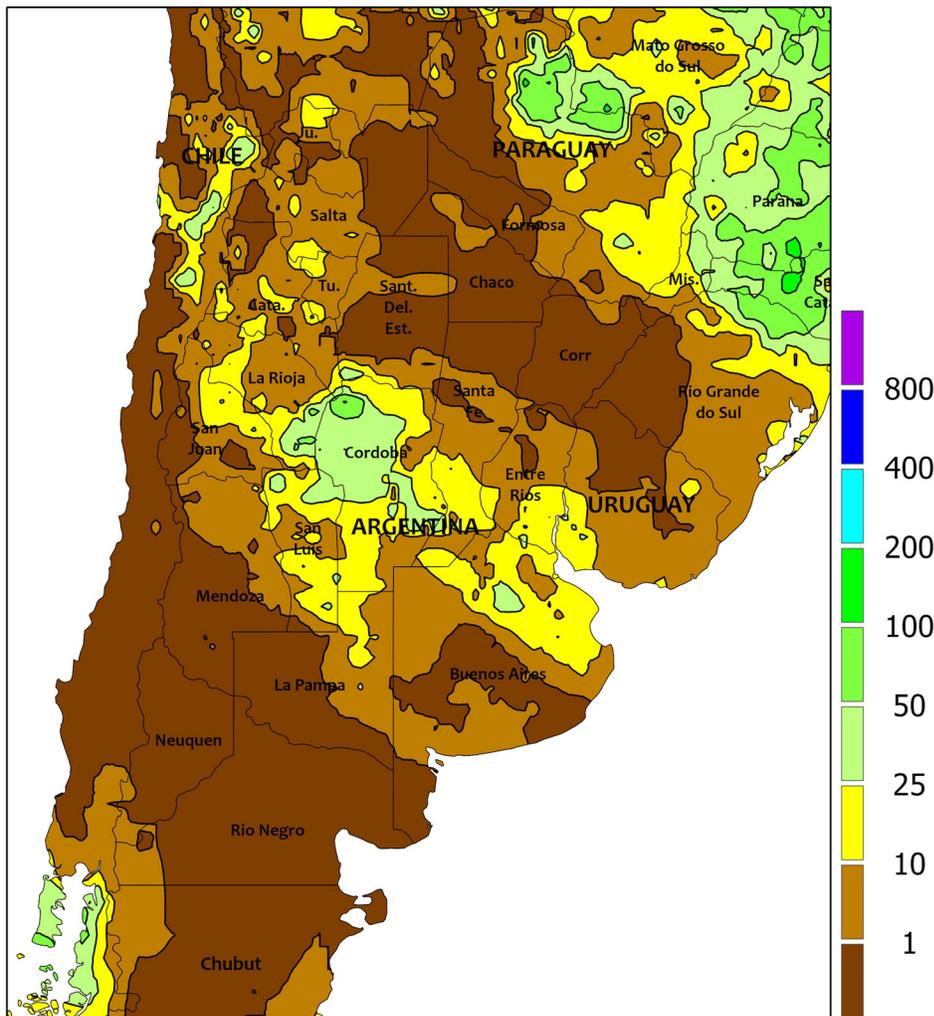
Mild, showery weather maintained overall favorable conditions for corn and other summer crops in many major eastern farming areas. Rainfall totaled 25 to 50 mm – locally higher – from eastern Limpopo southward through KwaZulu-Natal and neighboring locations in Eastern Cape. Drier conditions (rainfall totaling as little as 3 mm) prevailed from western Limpopo southward through central Free State, while heavier rain (25-85 mm) fell at

the western edge of the corn belt and in farming areas of the Orange River Valley (northeastern sections of Northern Cape). Meanwhile, mostly dry, sunny weather prevailed in tree and vine crop areas of Western Cape. Near- to below-average temperatures (highest daytime temperatures ranging from the middle and upper 20s to the lower 30s degrees C) favored growth of rain-fed summer crops in the absence of stressful heat.

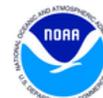
ARGENTINA

Total Precipitation(mm)

March 13 - 19, 2022



CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

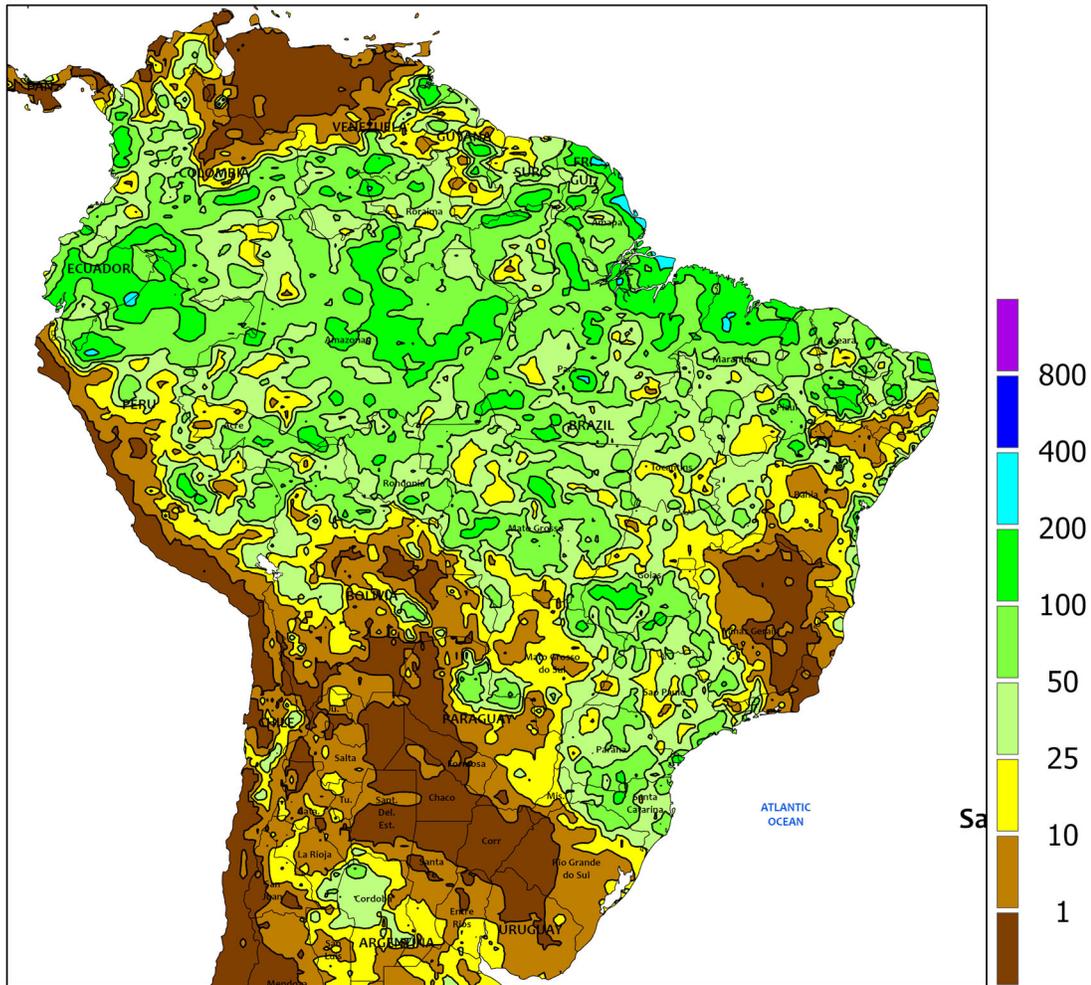


ARGENTINA

Cooler, albeit considerably drier weather lowered moisture demands and growth rates of summer grains, oilseeds, and cotton throughout the main agricultural districts. Moderate to locally heavy showers (rainfall totaling 10-25 mm) were mostly confined to locations stretching from northern Cordoba to northern Buenos Aires and southern Uruguay. Lighter rain (less than 10 mm) fell farther south, while much of northern Argentina (Salta eastward through Corrientes) was completely dry. Weekly temperatures averaged near to below normal nationwide, although daytime highs reached the middle

and upper 30s (degrees C) in far northern production areas (Formosa and environs). Highest daytime temperatures in central Argentina reached the lower 30s; nighttime lows dropped below 10°C throughout the region, though frost – if any – was likely confined to traditionally cooler locations in southern Buenos Aires. According to the government of Argentina, sunflowers were 38 percent harvested as of March 17, 19 points behind last year’s pace; harvesting was 18 percent completed in Buenos Aires, Argentina’s largest producer, compared with 43 percent last year.

BRAZIL
 Total Precipitation(mm)
 March 13 - 19, 2022



CLIMATE PREDICTION CENTER, NOAA
 Computer generated contours
 Based on preliminary data

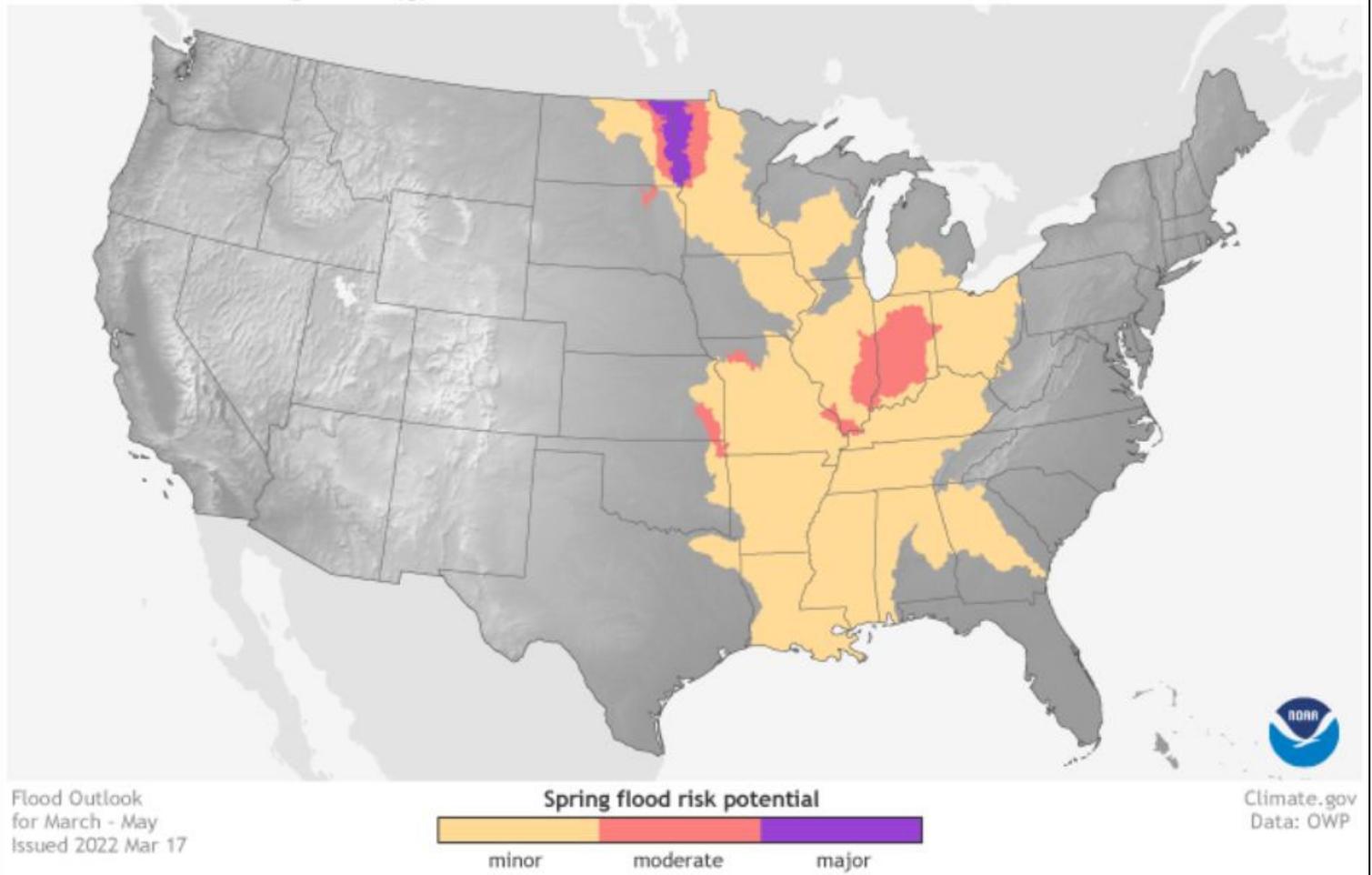


BRAZIL

Moderate to heavy showers overspread much of the south, bringing additional drought relief to immature summer crops. The heaviest rainfall (25-50 mm) spanned farming areas from Paraná to southwestern Minas Gerais, benefiting corn and specialty crops, including sugarcane and coffee. Pockets of dryness (rainfall totaling below 10 mm) persisted, however, in Mato Grosso do Sul and Rio Grande do Sul, where moisture remained limited for crops that included late-planted soybeans and second-crop corn. According to the government of Paraná, first-crop corn and soybeans were 75 and 68 percent harvested, respectively, as of March 14, with 87 percent of the second corn crop planted. In Rio Grande do Sul, corn was 68 percent harvested as of March 17, with only 13 percent of the

crop still immature; meanwhile, 9 percent of soybeans have been harvested and 53 percent of the crop was in flowering to filling stages of development. Abundant rainfall (25-100 mm, locally higher) covered key farming areas farther north (Mato Grosso and Goiás northeastward into Maranhão), maintaining favorable prospects for second-crop corn and cotton. According to the government of Mato Grosso, soybeans were 97 percent harvested as of March 11, 6 points ahead of the 5-year average pace, and corn was 98 percent planted, 2 points above average. Weekly average temperatures were within 1°C of normal in nearly every major Brazilian farming area, with highest daytime temperatures mostly reaching the lower and middle 30s (degrees C).

Spring 2022: U.S. Flood Outlook



The *Weekly Weather and Crop Bulletin* (ISSN 0043-1974) is jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the *Weekly Weather Chronicle*. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53rd Congress, 3rd Session. The contents may be redistributed freely with proper credit.

Correspondence to the meteorologists should be directed to:
***Weekly Weather and Crop Bulletin*, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 4443B, Washington, DC 20250.**

Internet URL: www.usda.gov/oc/weather-drought-monitor

E-mail address: brad.rippy@usda.gov

An archive of past *Weekly Weather and Crop Bulletins* can be found at <https://usda.library.cornell.edu/>, keyword search "*Weekly Weather and Crop Bulletin*".

U.S. DEPARTMENT OF AGRICULTURE

World Agricultural Outlook Board

Managing Editor..... **Brad Rippey** (202) 720-2397

Production Editor..... **Brian Morris** (202) 720-3062

International Editor..... **Mark Brusberg** (202) 720-2012

Agricultural Weather Analysts..... **Harlan Shannon
and Eric Luebehusen**

National Agricultural Statistics Service

Agricultural Statistician and State Summaries Editor.....
Irwin Anolik (202) 720-7621

U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration

National Weather Service/Climate Prediction Center

Meteorologists.....**Brad Pugh, Adam Allgood, and Rich Tinker**

USDA is an equal opportunity provider and employer. To file a complaint of discrimination, write: USDA, Office of the Assistant Secretary for Civil Rights, Office of Adjudication, 1400 Independence Ave., SW, Washington, DC 20250-9410 or call (866) 632-9992 (Toll-Free Customer Service), (800) 877-8339 (Local or Federal relay), (866) 377-8642 (Relay voice users).