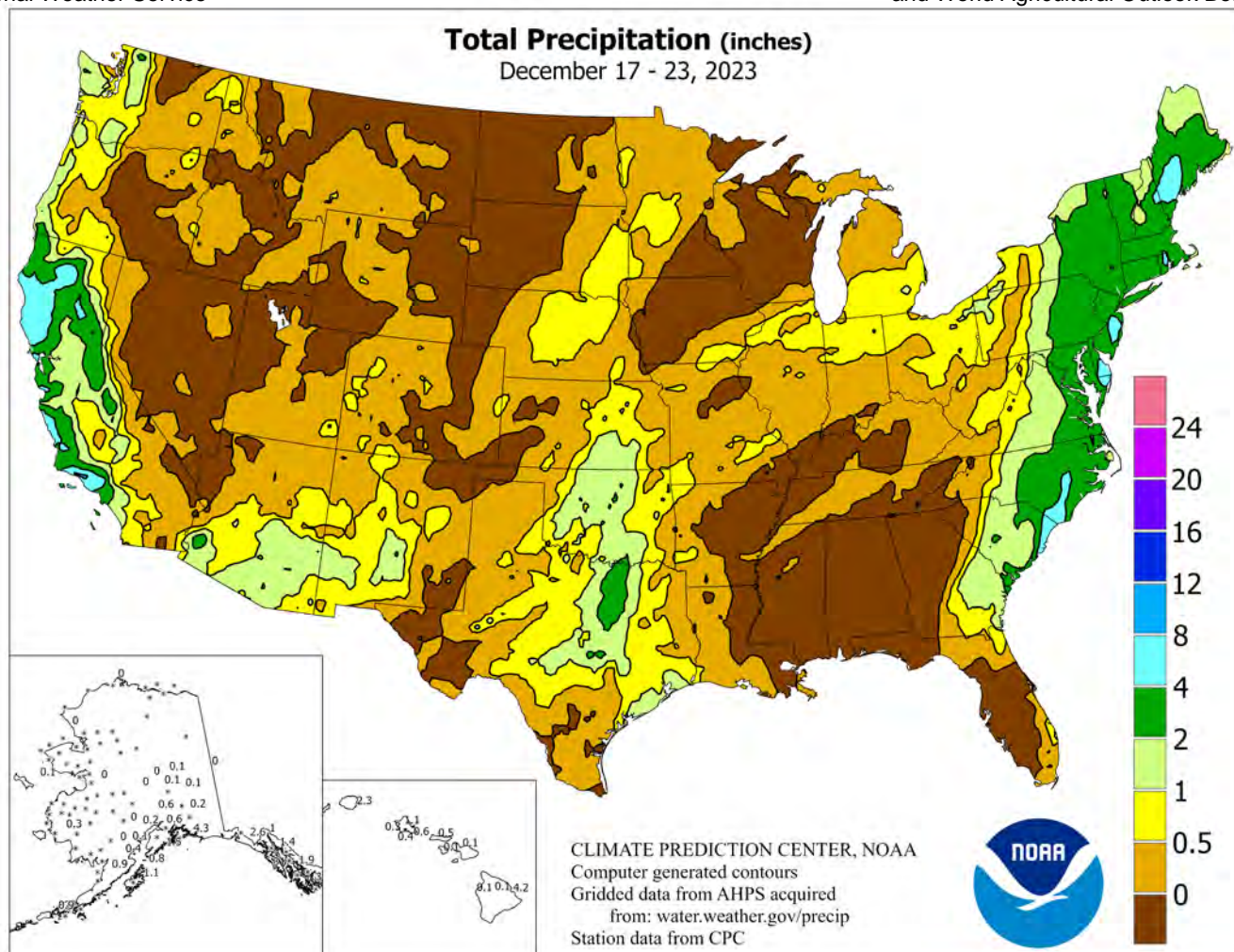


WEEKLY WEATHER AND CROP BULLETIN

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

December 17 – 23, 2023

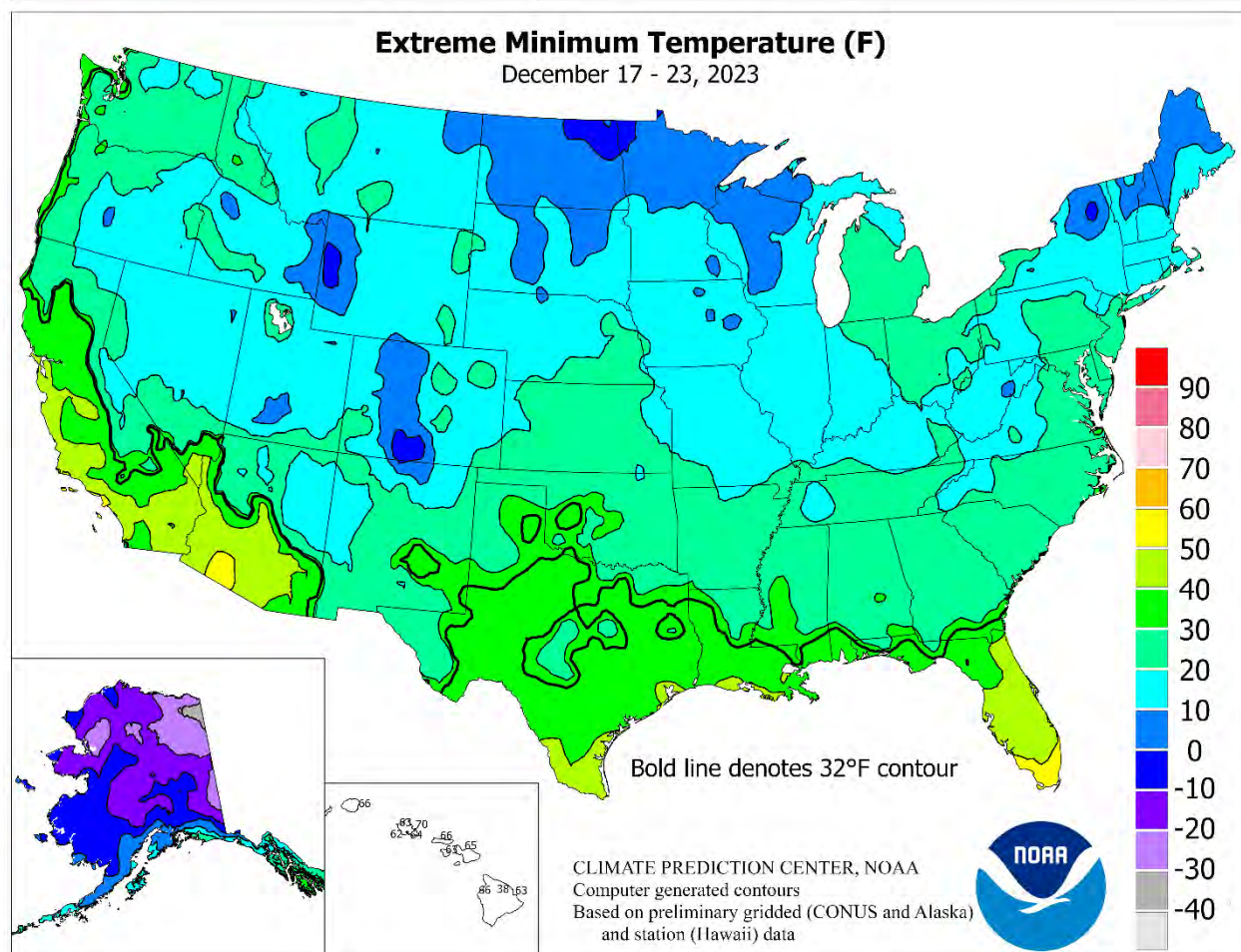
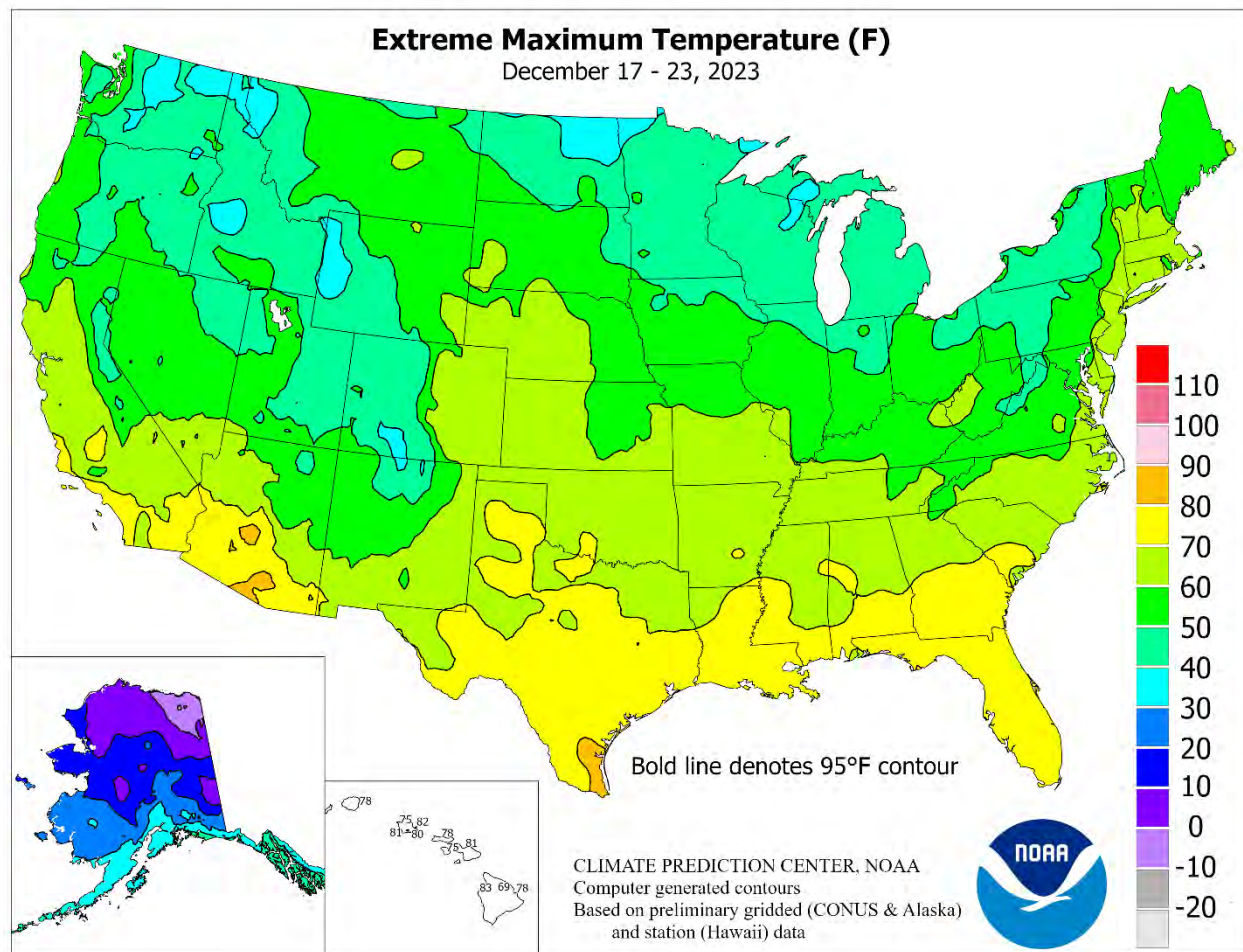
Highlights provided by USDA/WAOB

Early in the week, an **Atlantic** coastal storm pounded portions of the **East Coast States** with heavy rain, high winds, and pounding surf, with areas from the **Carolinas to New England** taking the most significant hit. Once-in-a-generation flooding struck parts of **Maine**, with water rising to the highest levels since April 1987 along portions of the **Androscoggin and Kennebec Rivers**. In addition, tens of thousands of customers in **Maine** lost electrical service at the height of the storm. Much of the remainder of the country received little or no precipitation, although

(Continued on page 3)

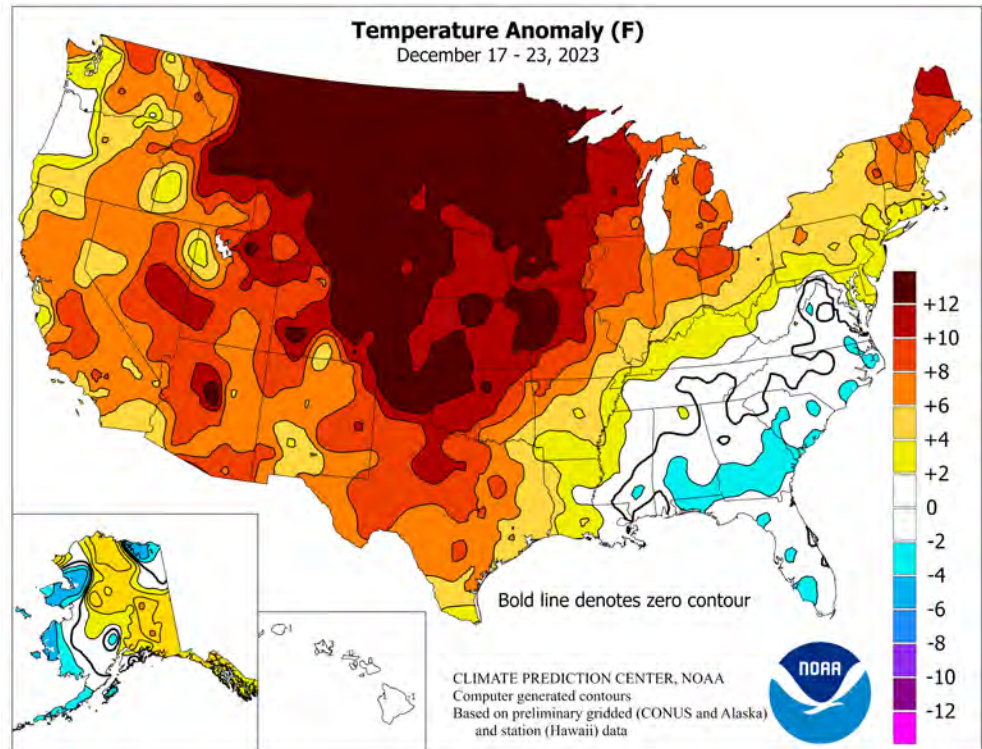
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(Continued from front cover)

heavy rain (and high-elevation snow) grazed **California** and eventually pushed inland across the **Southwest**. Still, the average water equivalency of the **Sierra Nevada** snowpack barely topped 2 inches by end of the week, according to the California Department of Water Resources, less than one-third of the late-December average. As the week ended, a complex storm system evolved across the **nation's mid-section**, preceded by unusually mild weather—and accompanied by increasingly showery weather. Through December 23, only spotty precipitation developed across the **Plains** and **Midwest**, with more substantial rain, snow, and wind occurring on December 24-25. Weekly temperatures averaged at least 10 to 15°F above normal throughout the **Plains** and **upper Midwest**, while significant warmth also covered much of the **West** and **Northeast**. In contrast, readings averaged as much as 5°F below normal in the **Southeast**, with the coolest weather, relative to normal, focused across **Georgia** and environs.

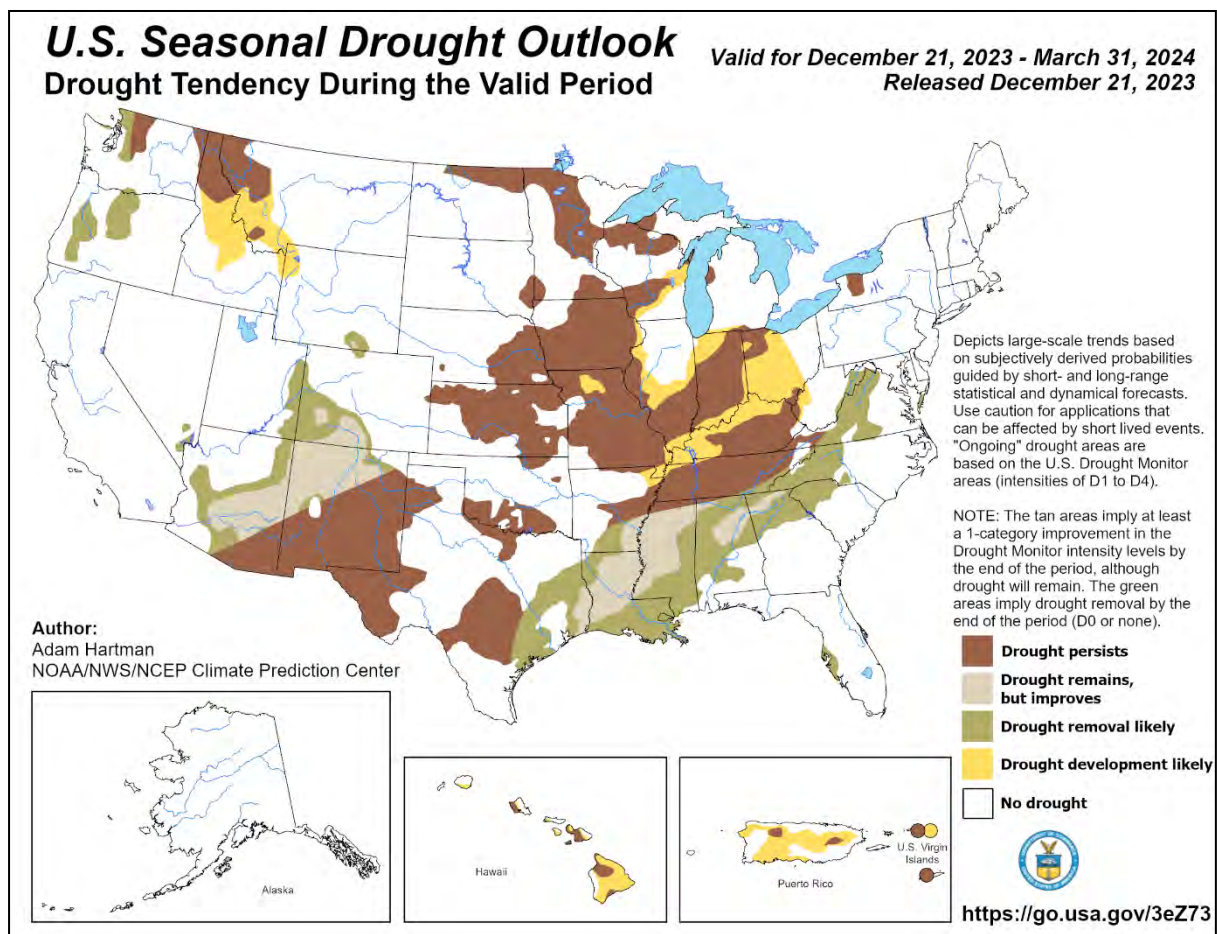
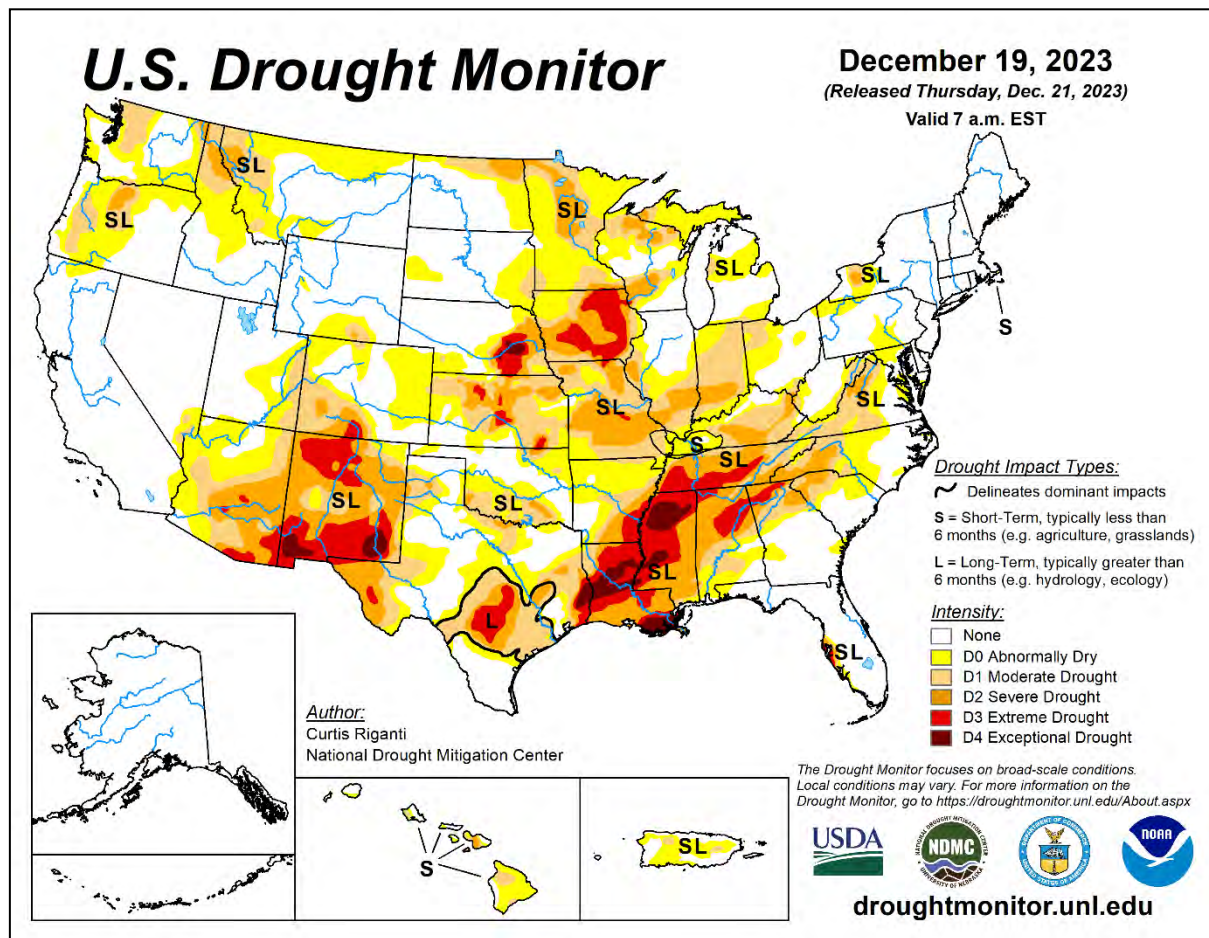


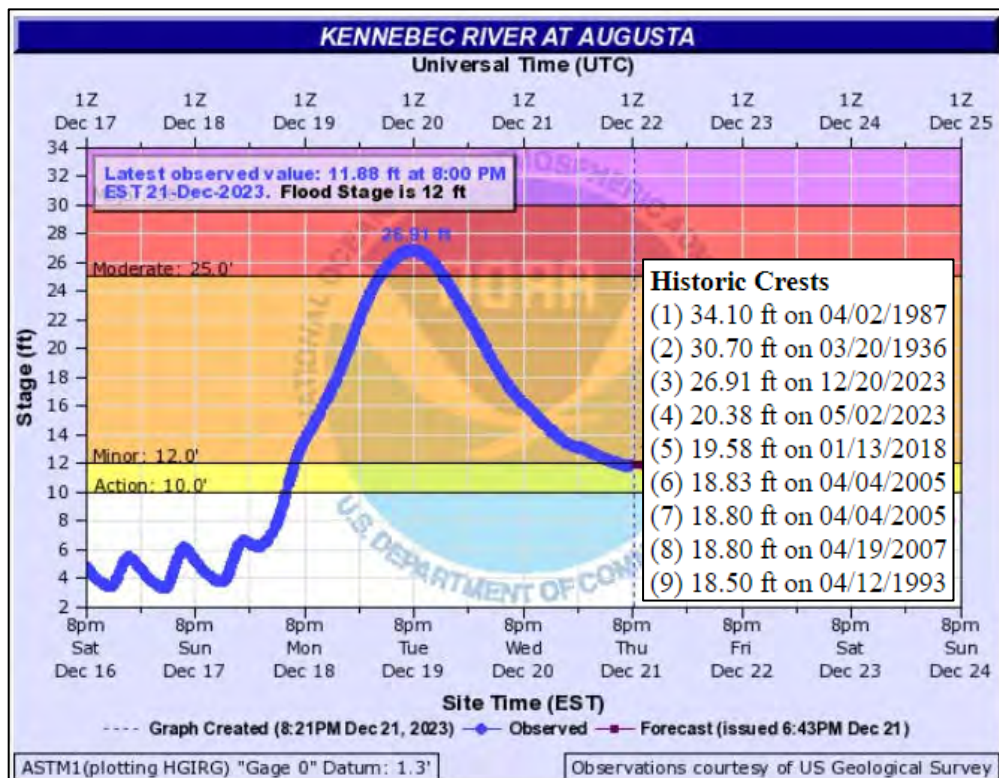
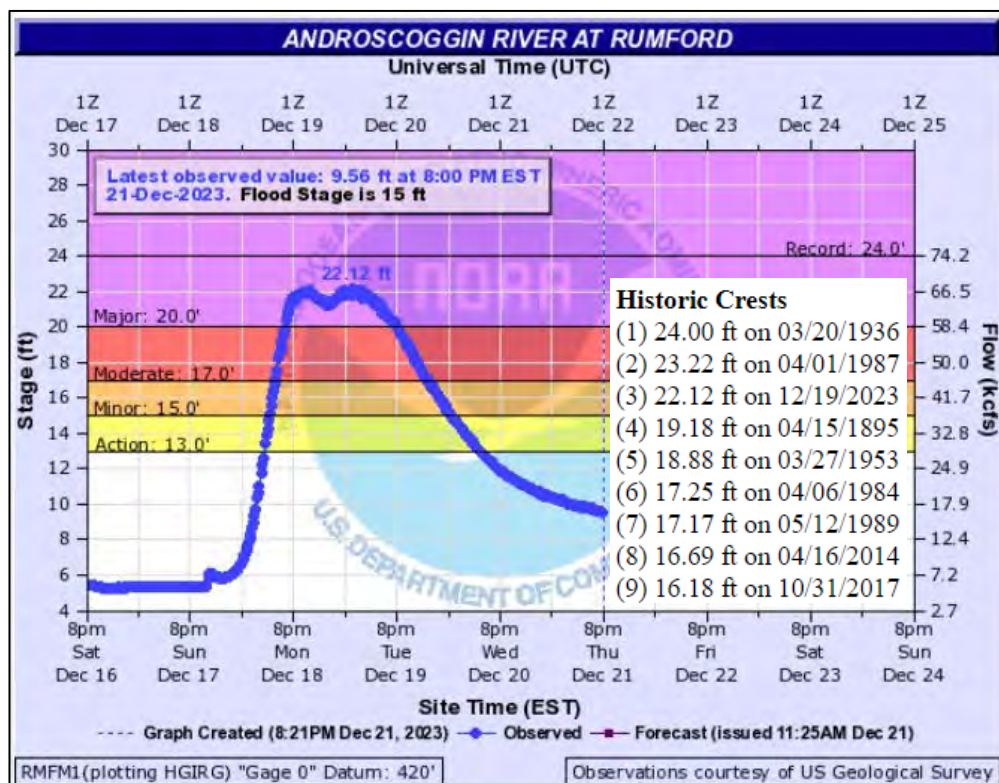
A storm system passing near the **Atlantic Seaboard** early in the week generated an impressive storm surge. On December 17 in **South Carolina**, **Charleston Harbor** experienced its fourth-highest water level on record—2.86 feet above flood stage—behind only the hurricane-induced high-water marks of September 22, 1989 (Hugo); August 11, 1940 (unnamed hurricane); and September 11, 2017 (Irma). Meanwhile, daily-record rainfall totals for the 17th ranged from 3 to 4 inches or more in locations such as **Lumberton, NC** (4.08 inches); **downtown Charleston, SC** (3.92 inches); **Wilmington, NC** (3.23 inches); and **Savannah, GA** (3.16 inches). For **Lumberton**, it was the wettest December day on record, topping 3.30 inches on December 26, 1943. **Downtown Charleston** also had a historically wet day, edging the monthly record of 3.82 inches, originally set on December 18, 2009. For the second time this month, **Richmond, VA**, experienced its wettest December day on record. **Richmond** netted 2.73 and 2.74 inches, respectively, on December 10 and 17. Prior to this year, **Richmond's** wettest December day had occurred in 2008, when 2.62 inches fell on the 11th. In **North Carolina**, peak wind gusts on December 17 were clocked to 66 mph on **Cherry Point** and 64 mph at **Billy Mitchell Airport**, near **Cape Hatteras**. The following day, the 18th, **Northeastern** peak gusts included 81 mph in **Eastport, ME**; 71 mph in **Bangor, ME**; 68 mph in **Boston, MA**; and 63 mph in **Providence, RI**. On December 17-18, **Salisbury, MD**, netted 5.18 inches of rain and reported a wind gust to 59 mph. With 4.04 inches on the 18th, it was also **Salisbury's** wettest December day (previously, 3.56 inches on December 18, 1977). Elsewhere on the 18th, daily-record totals included 3.00 inches in **Mount Pocono, PA**; 2.83 inches in **Worcester, MA**; 2.75 inches in **Newark, NJ**; 2.73 inches in **Concord, NH**; 2.52 inches in **Bangor, ME**; and 2.43 inches in **Providence, RI**. Farther west, storminess clipping **California** produced daily-record totals on December 18 in **Redding** (2.45 inches) and **Red Bluff** (2.05 inches). By December 20, heavy showers shifted into **southern California**, where daily-record amounts reached 1.68 inches in **Santa Maria** and 1.37 inches in **Paso Robles**. **Southern California's** wet weather continued through December 21, when daily-record amounts included 2.78 inches in **Oxnard** and 2.60 inches in **Santa Barbara**. Parts of **southern Arizona** received more than an inch of rain on December 22-23, with 2-day totals reaching 1.27 inches in **Tucson**, 1.19 inches in **Safford**, and 1.15 inches in **Nogales**. Farther east, late-

week, daily-record amounts included 0.77 inch (on the 22nd) in **Ottumwa, IA**, and 0.57 inch (on the 23rd) in **Pueblo, CO**.

A surge of warmth accompanied the early-week **Eastern** storminess, with daily-record highs for December 18 soaring to 64°F in **Hartford, CT**; 63°F in **Boston, MA**; 62°F in **Concord, NH**, and 61°F in **Bangor, ME**. Meanwhile, warmth in the **Pacific Coast States** expanded eastward. In **California**, daily-record highs rose to 78°F (on the 17th) in **Santa Barbara** and 71°F (on the 18th) in **Hanford**. By December 19 on the **High Plains**, daily-record highs topped the 65-degree mark in locations such as **Goodland, KS** (68°F); **Denver, CO** (67°F); and **Sidney, NE** (66°F). During the second half of the week, rampant warmth prevailed in advance of a **Western** storm system. On December 21, **Phoenix, AZ**, logged a daily-record high of 78°F. From December 20-22, **Livingston, MT**, tallied a trio of daily-record highs (56, 57, and 56°F). At week's end, warmth shifted further into the **Midwest**, where daily-record highs for the 23rd reached 56°F in **Aberdeen, SD**, and 52°F in **Waterloo, IA**.

Generally light precipitation accompanied variable temperatures across the **Alaskan mainland**, while heavy precipitation fell across the **state's southern tier**. The snow depth in **Anchorage** stood at 26 inches on December 20 and 21, boosted by 4- to 6-inch daily totals on December 7, 9, 12, 15, and 19. Through the 23rd, month-to-date snowfall in **Anchorage** totaled 34.8 inches, approaching the December 1955 record of 41.6 inches. In **southeastern Alaska**, December 1-23 precipitation totaled 14.38 inches (136 percent of normal) in **Yakutat** and 13.53 inches (210 percent) in **Sitka**. On the 23rd, **Yakutat** reported 1.56 inches of rain and clocked a peak wind gust to 62 mph. Farther south, relatively wet weather in **Hawaii** led to further drought erosion. In **Lihue, Kauai**, the December 17-23 rainfall total of 2.23 inches included a daily-record sum of 1.66 inches on the 20th. On the **Big Island, Hilo** received more than an inch of rain on December 20 and 22. Despite the rain, the December 1-23 total in **Lihue**—3.64 inches—was just 103 percent of normal, while month-to-date amounts were still substantially below normal in **Kahului, Maui** (0.45 inch, or 22 percent of normal), and **Honolulu, Oahu** (0.88 inch, or 56 percent).





In the wake of heavy rain associated with an Atlantic coastal storm, flooding broadly developed across New England for the second time this year. (On July 10-11, 2023, some of the worst flooding since the remnants of Hurricane Irene struck in late-August 2011 had unfolded in parts of Vermont and environs.) Given the storm's warmth, even New England's highest elevations received mostly rain, resulting in impressive runoff. Mount Washington, NH, New England's highest peak, received precipitation totaling 4.10 inches (0.1 inch of snow) on December 17-18. Elsewhere, daily-record rainfall totals for December 18 approached 3 inches in locations such as Worcester, MA (2.83 inches); Concord, NE (2.73 inches); and Bangor, ME (2.52 inches). Elsewhere in Maine, the worst flooding since April 1987 developed along portions of the Androscoggin and Kennebec Rivers, with the latter waterway rising 14.91 feet above flood stage in Augusta on the night of December 19-20. River flooding was reported as far south as northeastern Florida, while Atlantic coastal impacts included high winds and an impressive storm surge. In South Carolina, the seawater level in Charleston Harbor climbed 2.86 feet above flood stage on December 17, the highest-ever reading not associated with a hurricane. Higher water levels in Charleston were observed with Hurricane Hugo on September 22, 1989; an unnamed hurricane on August 11, 1940; and Hurricane Irma on September 11, 2017.

National Weather Data for Selected Cities

Weather Data for the Week Ending December 23, 2023

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 DEC 1 | PCT. NORMAL SINCE DEC 1 | TOTAL, IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | PRECIP | |
| | | | | | | | | | | | | | | | | | | | .01 INCH OR MORE | .50 INCH OR MORE |
| AK | ANCHORAGE | 27 | 17 | 35 | 8 | 22 | 3 | 0.55 | 0.29 | 0.28 | 1.62 | 179 | 25.48 | 157 | 92 | 77 | 0 | 7 | 4 | 0 |
| | BARROW | 3 | -3 | 9 | -11 | 0 | 0 | 0.00 | -0.04 | 0.00 | 0.00 | 0 | 4.59 | 87 | 87 | 76 | 0 | 7 | 0 | 0 |
| | FAIRBANKS | 11 | -7 | 24 | -14 | 2 | 7 | 0.08 | -0.05 | 0.03 | 0.89 | 212 | 10.37 | 90 | 83 | 70 | 0 | 7 | 4 | 0 |
| | JUNEAU | 38 | 31 | 44 | 24 | 34 | 4 | 1.39 | -0.02 | 0.63 | 7.61 | 151 | 72.72 | 111 | 93 | 77 | 0 | 4 | 5 | 1 |
| | KODIAK | 36 | 21 | 40 | 13 | 29 | -3 | 1.14 | -0.91 | 0.56 | 5.52 | 85 | 63.79 | 84 | 93 | 73 | 0 | 7 | 4 | 1 |
| AL | NOME | 10 | -5 | 20 | -19 | 2 | -6 | 0.07 | -0.16 | 0.06 | 0.32 | 40 | 21.72 | 128 | 82 | 65 | 0 | 7 | 2 | 0 |
| | BIRMINGHAM | 58 | 35 | 68 | 27 | 46 | -1 | 0.22 | -0.91 | 0.22 | 2.61 | 72 | 46.14 | 83 | 78 | 38 | 0 | 3 | 1 | 0 |
| | HUNTSVILLE | 56 | 33 | 67 | 24 | 44 | 0 | 0.30 | -1.04 | 0.30 | 3.64 | 81 | 42.25 | 79 | 88 | 41 | 0 | 4 | 1 | 0 |
| | MOBILE | 65 | 42 | 72 | 36 | 53 | 1 | 0.01 | -1.30 | 0.01 | 4.47 | 115 | 54.29 | 82 | 83 | 44 | 0 | 0 | 1 | 0 |
| | MONTGOMERY | 61 | 34 | 71 | 29 | 47 | -2 | 0.01 | -1.18 | 0.01 | 0.45 | 12 | 45.22 | 90 | 86 | 41 | 0 | 3 | 1 | 0 |
| AR | FORT SMITH | 58 | 38 | 69 | 27 | 48 | 6 | 0.04 | -0.74 | 0.03 | 0.52 | 19 | 40.09 | 86 | 89 | 50 | 0 | 3 | 2 | 0 |
| | LITTLE ROCK | 60 | 37 | 67 | 29 | 48 | 6 | 0.00 | -1.14 | 0.00 | 0.41 | 10 | 52.69 | 107 | 82 | 45 | 0 | 2 | 0 | 0 |
| AZ | FLAGSTAFF | 49 | 25 | 56 | 16 | 37 | 8 | 0.46 | 0.04 | 0.43 | 0.54 | 39 | 24.41 | 122 | 84 | 55 | 0 | 7 | 2 | 0 |
| | PHOENIX | 73 | 55 | 81 | 49 | 64 | 9 | 0.74 | 0.58 | 0.68 | 0.74 | 140 | 3.98 | 56 | 61 | 31 | 0 | 0 | 4 | 1 |
| | PRESCOTT | 59 | 35 | 67 | 26 | 47 | 9 | 0.60 | 0.39 | 0.60 | 0.60 | 86 | 9.90 | 78 | 75 | 38 | 0 | 2 | 1 | 1 |
| CA | TUCSON | 72 | 48 | 82 | 44 | 60 | 8 | 1.03 | 0.82 | 1.00 | 1.22 | 170 | 9.86 | 95 | 54 | 27 | 0 | 0 | 2 | 1 |
| | BAKERSFIELD | 64 | 49 | 74 | 44 | 56 | 8 | 0.47 | 0.20 | 0.29 | 0.47 | 61 | 9.06 | 150 | 88 | 57 | 0 | 0 | 3 | 0 |
| | EUREKA | 57 | 45 | 63 | 33 | 51 | 4 | 2.02 | 0.09 | 0.91 | 4.69 | 77 | 32.89 | 85 | 96 | 75 | 0 | 0 | 5 | 1 |
| | FRESNO | 63 | 50 | 67 | 42 | 56 | 9 | 0.51 | 0.06 | 0.38 | 0.51 | 41 | 13.33 | 127 | 90 | 62 | 0 | 0 | 3 | 0 |
| | LOS ANGELES | 67 | 57 | 72 | 52 | 62 | 5 | 2.94 | 2.41 | 1.19 | 2.94 | 197 | 24.75 | 215 | 93 | 57 | 0 | 0 | 4 | 3 |
| CO | REDDING | 62 | 44 | 67 | 35 | 53 | 7 | 3.41 | 1.94 | 2.19 | 4.57 | 97 | 36.91 | 115 | 87 | 55 | 0 | 0 | 4 | 3 |
| | SACRAMENTO | 61 | 47 | 65 | 39 | 54 | 7 | 2.79 | 2.00 | 1.60 | 3.44 | 138 | 17.79 | 103 | 97 | 67 | 0 | 0 | 4 | 2 |
| | SAN DIEGO | 69 | 54 | 73 | 47 | 62 | 4 | 0.48 | 0.10 | 0.47 | 0.56 | 47 | 13.93 | 150 | 88 | 52 | 0 | 0 | 2 | 0 |
| | SAN FRANCISCO | 62 | 53 | 65 | 48 | 58 | 7 | 2.32 | 1.34 | 1.29 | 2.45 | 80 | 23.79 | 128 | 87 | 63 | 0 | 0 | 4 | 2 |
| | STOCKTON | 62 | 47 | 67 | 37 | 54 | 7 | 1.38 | 0.81 | 0.41 | 1.48 | 84 | 15.42 | 120 | 98 | 65 | 0 | 0 | 4 | 0 |
| CT | ALAMOSA | 36 | 9 | 41 | -6 | 23 | 6 | 0.04 | -0.04 | 0.04 | 0.39 | 149 | 4.23 | 57 | 96 | 59 | 0 | 7 | 1 | 0 |
| | CO SPRINGS | 59 | 31 | 67 | 25 | 45 | 14 | 0.01 | -0.04 | 0.01 | 0.58 | 336 | 25.46 | 160 | 67 | 25 | 0 | 4 | 1 | 0 |
| | DENVER INTL | 59 | 30 | 67 | 22 | 45 | 14 | 0.00 | -0.08 | 0.00 | 0.11 | 43 | 18.47 | 128 | 64 | 20 | 0 | 5 | 0 | 0 |
| | GRAND JUNCTION | 47 | 26 | 52 | 19 | 36 | 9 | 0.41 | 0.28 | 0.41 | 0.54 | 122 | 7.41 | 83 | 85 | 46 | 0 | 7 | 1 | 0 |
| | PUEBLO | 58 | 27 | 69 | 20 | 43 | 12 | 0.19 | 0.13 | 0.19 | 0.91 | 405 | 12.33 | 103 | 88 | 31 | 0 | 7 | 1 | 0 |
| DC | BRIDGEPORT | 46 | 31 | 61 | 20 | 38 | 3 | 2.13 | 1.23 | 1.68 | 6.60 | 216 | 49.85 | 115 | 82 | 51 | 0 | 5 | 2 | 1 |
| | HARTFORD | 45 | 26 | 64 | 17 | 35 | 4 | 3.05 | 2.16 | 2.13 | 6.10 | 196 | 62.61 | 135 | 83 | 50 | 0 | 6 | 2 | 2 |
| DE | WASHINGTON | 50 | 35 | 57 | 29 | 43 | 2 | 2.41 | 1.65 | 2.23 | 5.05 | 192 | 34.19 | 83 | 82 | 49 | 0 | 3 | 2 | 1 |
| FL | WILMINGTON | 49 | 30 | 62 | 25 | 40 | 3 | 2.87 | 2.02 | 1.60 | 6.07 | 204 | 49.41 | 111 | 83 | 51 | 0 | 5 | 2 | 2 |
| | DAYTONA BEACH | 69 | 53 | 74 | 46 | 61 | 0 | 0.77 | 0.19 | 0.73 | 4.22 | 246 | 59.85 | 118 | 93 | 55 | 0 | 0 | 2 | 1 |
| | JACKSONVILLE | 64 | 45 | 73 | 37 | 54 | -2 | 3.17 | 2.50 | 3.17 | 6.06 | 290 | 51.29 | 97 | 90 | 56 | 0 | 0 | 1 | 1 |
| | KEY WEST | 75 | 67 | 78 | 63 | 71 | -2 | 0.12 | -0.37 | 0.12 | 3.33 | 202 | 32.13 | 80 | 96 | 62 | 0 | 0 | 1 | 0 |
| | MIAMI | 76 | 62 | 79 | 55 | 69 | -2 | 0.26 | -0.30 | 0.14 | 2.41 | 125 | 76.10 | 113 | 82 | 51 | 0 | 0 | 2 | 0 |
| GA | ORLANDO | 71 | 53 | 77 | 46 | 62 | -1 | 0.10 | -0.52 | 0.10 | 3.22 | 171 | 48.11 | 94 | 92 | 50 | 0 | 0 | 1 | 0 |
| | PENSACOLA | 63 | 45 | 70 | 39 | 54 | -1 | 0.00 | -1.23 | 0.00 | 4.06 | 101 | 57.18 | 85 | 74 | 40 | 0 | 0 | 0 | 0 |
| | TALLAHASSEE | 65 | 40 | 75 | 29 | 52 | -1 | 1.99 | 1.04 | 1.99 | 10.21 | 328 | 58.94 | 102 | 91 | 48 | 0 | 2 | 1 | 1 |
| | TAMPA | 70 | 54 | 77 | 47 | 62 | -2 | 0.18 | -0.48 | 0.18 | 3.91 | 207 | 35.93 | 73 | 86 | 51 | 0 | 0 | 1 | 0 |
| | WEST PALM BEACH | 74 | 60 | 79 | 50 | 67 | -2 | 0.43 | -0.37 | 0.35 | 3.53 | 134 | 71.93 | 118 | 87 | 55 | 0 | 0 | 2 | 0 |
| HI | ATHENS | 57 | 32 | 67 | 22 | 44 | -1 | 0.04 | -1.00 | 0.04 | 1.09 | 34 | 45.99 | 96 | 80 | 34 | 0 | 3 | 1 | 0 |
| | ATLANTA | 56 | 36 | 67 | 29 | 46 | 0 | 0.01 | -1.08 | 0.01 | 1.66 | 50 | 38.72 | 78 | 71 | 36 | 0 | 3 | 1 | 0 |
| | AUGUSTA | 58 | 33 | 70 | 23 | 45 | -4 | 2.68 | 1.72 | 2.68 | 3.85 | 138 | 61.32 | 142 | 93 | 35 | 0 | 4 | 1 | 1 |
| | COLUMBUS | 60 | 36 | 71 | 28 | 48 | -2 | 0.01 | -1.11 | 0.01 | 1.45 | 41 | 46.17 | 97 | 85 | 37 | 0 | 3 | 1 | 0 |
| | MACON | 60 | 34 | 72 | 22 | 47 | -2 | 0.19 | -0.92 | 0.19 | 1.63 | 49 | 43.28 | 94 | 92 | 37 | 0 | 3 | 1 | 0 |
| IA | SAVANNAH | 61 | 39 | 73 | 27 | 50 | -3 | 3.01 | 2.26 | 3.01 | 3.78 | 158 | 40.63 | 85 | 88 | 42 | 0 | 3 | 1 | 1 |
| | HILO | 75 | 66 | 78 | 63 | 71 | -1 | 4.16 | 1.61 | 1.26 | 6.92 | 73 | 100.17 | 85 | 99 | 79 | 0 | 0 | 6 | 3 |
| | HONOLULU | 78 | 69 | 80 | 64 | 73 | -2 | 0.35 | -0.20 | 0.24 | 0.89 | 56 | 13.41 | 85 | 93 | 67 | 0 | 0 | 3 | 0 |
| | KAHULUI | 79 | 69 | 81 | 65 | 74 | 0 | 0.06 | -0.65 | 0.03 | 0.46 | 22 | 10.93 | 70 | 87 | 59 | 0 | 0 | 3 | 0 |
| | LIHUE | 77 | 69 | 78 | 66 | 73 | -1 | 2.26 | 1.15 | 0.91 | 3.91 | 111 | 42.00 | 119 | 90 | 67 | 0 | 0 | 6 | 2 |
| ID | BURLINGTON | 46 | 32 | 56 | 15 | 39 | 10 | 0.19 | -0.23 | 0.18 | 1.26 | 86 | 26.40 | 70 | 89 | 63 | 0 | 3 | 2 | 0 |
| | CEDAR RAPIDS | 42 | 27 | 53 | 9 | 35 | 11 | 0.16 | -0.19 | 0.16 | 0.63 | 50 | 17.94 | 50 | 91 | 65 | 0 | 4 | 1 | 0 |
| | DES MOINES | 46 | 31 | 52 | 17 | 39 | 12 | 0.06 | -0.28 | 0.06 | 0.22 | 17 | 23.46 | 64 | 85 | 59 | 0 | 3 | 1 | 0 |
| | DUBUQUE | 40 | 27 | 47 | 11 | 34 | 11 | 0.06 | -0.33 | 0.06 | 0.86 | 61 | 30.24 | 80 | 89 | 66 | 0 | 5 | 1 | 0 |
| | SIOUX CITY | 45 | 26 | 54 | 19 | 35 | 13 | 0.01 | -0.21 | 0.01 | 0.47 | 63 | 23.64 | 81 | 96 | 67 | 0 | 7 | 1 | 0 |
| IL | WATERLOO | 43 | 27 | 52 | 10 | 35 | 11 | 0.00 | -0.32 | 0.00 | 0.13 | 11 | 21.53 | 60 | 85 | 56 | 0 | 4 | 0 | 0 |
| | BOISE | 38 | 28 | 43 | 25 | 33 | 2 | 0.05 | -0.30 | 0.04 | 1.20 | 105 | 10.87 | 97 | 96 | 75 | 0 | 7 | 2 | 0 |
| | LEWISTON | 45 | 33 | 52 | 28 | 39 | 5 | 0.16 | -0.11 | 0.08 | 0.98 | 116 | 10.41 | 82 | 87 | 64 | 0 | 4 | 3 | 0 |
| | POCATELLO | 43 | 20 | 47 | 10 | 32 | 7 | 0.06 | -0.19 | 0.06 | 1.02 | 120 | 14.08 | 122 | 96 | 65 | 0 | 7 | 1 | 0 |
| | CHICAGO/O'HARE | 43 | 32 | 49 | 17 | 37 | 8 | 0.51 | 0.06 | 0.50 | 2.21 | 137 | 32.51 | 87 | 88 | 61 | 0 | 3 | 2 | 1 |
| IN | MOLINE | 45 | 30 | 55 | 12 | 37 | 10 | 0.48 | 0.02 | 0.48 | 1.76 | 112 | 27.85 | 73 | 90 | 62 | 0 | 3 | 1 | 0 |
| | PEORIA | 45 | 34 | 54 | 16 | 40 | 10 | 0.48 | 0.00 | 0.46 | 1.96 | 119 | 32.36 | 87 | 86 | 60 | 0 | 3 | 2 | 0 |
| | ROCKFORD | 41 | 29 | 48 | 12 | 35 | 9 | 0.46 | 0.05 | 0.46 | 2.17 | 145 | 31.03 | 84 | 90 | 65 | 0 | 3 | 1 | 0 |
| | SPRINGFIELD | 46 | 34 | 54 | 16 | 40 | 8 | 0.28 | -0.18 | 0.28 | 2.05 | 129 | 32.80 | 87 | 91 | 64 | 0 | 3 | 1 | 0 |
| | EVANSVILLE | 53 | 33 | 58 | 19 | 43 | 6 | 0.06 | -0.76 | 0.03 | 1.30 | 45 | 39.41 | 84 | 79 | 43 | 0 | 4 | 2 | 0 |
| KS | FORT WAYNE | | | | | | | | | | | | | | | | | | | |

Weather Data for the Week Ending December 23, 2023

| 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 DEC 1 | PCT. NORMAL SINCE DEC 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 | |
| KY | WICHITA | 55 | 36 | 59 | 26 | 45 | 11 | 0.69 | 0.41 | 0.33 | 1.63 | 172 | 29.41 | 86 | 89 | 62 | 0 | 3 | 3 | 0 | |
| | LEXINGTON | 56 | 36 | 59 | 30 | 46 | 9 | 0.05 | -0.74 | 0.05 | 1.49 | 48 | 39.86 | 81 | 68 | 39 | 0 | 1 | 1 | 0 | |
| | LOUISVILLE | 51 | 33 | 59 | 22 | 42 | 3 | 0.17 | -0.76 | 0.10 | 1.25 | 40 | 37.91 | 80 | 73 | 38 | 0 | 4 | 2 | 0 | |
| LA | PADUCAH | 52 | 33 | 60 | 20 | 42 | 4 | 0.01 | -0.94 | 0.01 | 1.26 | 39 | 53.46 | 108 | 84 | 44 | 0 | 4 | 1 | 0 | |
| | BATON ROUGE | 69 | 45 | 76 | 34 | 57 | 4 | 0.00 | -1.26 | 0.00 | 4.81 | 128 | 47.13 | 78 | 90 | 44 | 0 | 0 | 0 | 0 | |
| | LAKE CHARLES | 69 | 47 | 74 | 38 | 58 | 3 | 0.13 | -0.87 | 0.13 | 1.26 | 39 | 41.52 | 71 | 95 | 53 | 0 | 0 | 1 | 0 | |
| MA | NEW ORLEANS | 66 | 49 | 75 | 44 | 57 | 1 | 0.00 | -1.14 | 0.00 | 7.37 | 218 | 37.36 | 60 | 90 | 53 | 0 | 0 | 0 | 0 | |
| | SHREVEPORT | 64 | 44 | 70 | 36 | 54 | 5 | *** | *** | *** | *** | *** | *** | 84 | 47 | 0 | 0 | *** | *** | | |
| | BOSTON | 48 | 31 | 71 | 21 | 39 | 5 | 2.02 | 1.05 | 1.58 | 4.90 | 149 | 46.41 | 109 | 82 | 49 | 0 | 4 | 2 | 1 | |
| MD | WORCESTER | 44 | 27 | 61 | 16 | 35 | 6 | 3.26 | 2.31 | 2.81 | 6.63 | 202 | 62.35 | 131 | 81 | 48 | 0 | 5 | 2 | 1 | |
| | BALTIMORE | 50 | 33 | 57 | 23 | 41 | 4 | 2.69 | 1.87 | 2.23 | 5.34 | 188 | 40.11 | 90 | 81 | 51 | 0 | 3 | 2 | 1 | |
| | CARIBOU | 38 | 21 | 58 | 10 | 29 | 11 | 0.93 | 0.15 | 0.91 | 3.02 | 110 | 39.04 | 98 | 82 | 57 | 0 | 6 | 2 | 1 | |
| MI | PORTLAND | 44 | 25 | 59 | 16 | 35 | 5 | 2.32 | 1.31 | 1.28 | 5.59 | 163 | 54.07 | 115 | 87 | 48 | 0 | 6 | 2 | 2 | |
| | ALPENA | 39 | 30 | 47 | 18 | 35 | 9 | 0.23 | -0.16 | 0.09 | 0.72 | 51 | 28.46 | 97 | 92 | 71 | 0 | 4 | 4 | 0 | |
| | GRAND RAPIDS | 40 | 32 | 46 | 26 | 36 | 6 | 0.57 | 0.04 | 0.28 | 1.44 | 78 | 34.78 | 89 | 91 | 73 | 0 | 4 | 4 | 0 | |
| MN | HOUGHTON LAKE | 33 | 24 | 37 | 22 | 28 | 4 | 0.04 | -0.22 | 0.04 | 0.14 | 15 | 19.66 | 89 | 84 | 65 | 0 | 3 | 1 | 0 | |
| | LANSING | 41 | 31 | 46 | 25 | 36 | 7 | 0.72 | 0.31 | 0.38 | 1.68 | 119 | 35.74 | 108 | 88 | 69 | 0 | 4 | 4 | 0 | |
| | MUSKEGON | 43 | 34 | 48 | 27 | 38 | 8 | 0.42 | -0.10 | 0.23 | 1.24 | 67 | 30.39 | 88 | 84 | 66 | 0 | 4 | 4 | 0 | |
| MO | TRAVERSE CITY | 41 | 32 | 48 | 26 | 36 | 8 | 0.06 | -0.32 | 0.06 | 0.48 | 35 | 23.44 | 81 | 87 | 66 | 0 | 4 | 1 | 0 | |
| | DULUTH | 33 | 23 | 41 | 8 | 28 | 12 | 0.06 | -0.27 | 0.06 | 1.15 | 101 | 32.70 | 106 | 88 | 68 | 0 | 5 | 1 | 0 | |
| | INT_L FALLS | 32 | 20 | 42 | 4 | 26 | 16 | 0.01 | -0.21 | 0.01 | 0.08 | 10 | 22.75 | 90 | 88 | 66 | 0 | 5 | 1 | 0 | |
| MS | MINNEAPOLIS | 39 | 28 | 48 | 16 | 34 | 13 | 0.01 | -0.25 | 0.01 | 0.63 | 70 | 27.51 | 87 | 82 | 58 | 0 | 5 | 1 | 0 | |
| | ROCHESTER | 38 | 24 | 46 | 8 | 31 | 12 | 0.00 | -0.28 | 0.00 | 0.08 | 8 | 28.22 | 82 | 92 | 64 | 0 | 5 | 0 | 0 | |
| | ST. CLOUD | 38 | 27 | 45 | 12 | 32 | 16 | 0.02 | -0.18 | 0.02 | 0.94 | 142 | 25.25 | 89 | 85 | 63 | 0 | 5 | 1 | 0 | |
| MT | COLUMBIA | 51 | 36 | 59 | 18 | 44 | 10 | 0.15 | -0.32 | 0.15 | 1.83 | 118 | 32.45 | 79 | 87 | 53 | 0 | 2 | 1 | 0 | |
| | KANSAS CITY | 52 | 35 | 57 | 21 | 43 | 12 | 0.27 | -0.07 | 0.26 | 1.49 | 121 | 33.74 | 86 | 92 | 61 | 0 | 3 | 2 | 0 | |
| | SAINT LOUIS | 52 | 37 | 64 | 21 | 44 | 9 | 0.18 | -0.37 | 0.18 | 1.22 | 67 | 31.07 | 75 | 77 | 46 | 0 | 2 | 1 | 0 | |
| NC | SPRINGFIELD | 54 | 35 | 62 | 20 | 45 | 8 | 0.19 | -0.39 | 0.19 | 0.45 | 23 | 42.13 | 95 | 89 | 54 | 0 | 3 | 1 | 0 | |
| | JACKSON | 63 | 38 | 72 | 31 | 50 | 2 | 0.01 | -1.20 | 0.01 | 1.80 | 47 | 38.49 | 68 | 87 | 37 | 0 | 1 | 1 | 0 | |
| | MERIDIAN | 59 | 34 | 66 | 28 | 46 | -3 | 0.00 | -1.23 | 0.00 | 1.62 | 42 | 52.95 | 95 | 92 | 45 | 0 | 4 | 0 | 0 | |
| ND | TUPELO | 58 | 34 | 66 | 24 | 46 | 1 | 0.00 | -1.30 | 0.00 | 1.46 | 31 | 44.96 | 79 | 83 | 38 | 0 | 4 | 0 | 0 | |
| | BILLINGS | 53 | 31 | 58 | 23 | 42 | 15 | 0.23 | 0.10 | 0.23 | 0.35 | 84 | 16.88 | 119 | 69 | 32 | 0 | 3 | 1 | 0 | |
| | BUTTE | 44 | 15 | 50 | 9 | 29 | 11 | 0.16 | 0.06 | 0.16 | 0.32 | 90 | 17.63 | 139 | 87 | 45 | 0 | 7 | 1 | 0 | |
| NE | CUT BANK | 49 | 27 | 55 | 15 | 38 | 16 | 0.00 | -0.07 | 0.00 | 0.02 | 8 | 7.83 | 73 | 83 | 41 | 0 | 5 | 0 | 0 | |
| | GLASGOW | 45 | 22 | 54 | 15 | 33 | 17 | 0.00 | -0.10 | 0.00 | 0.08 | 26 | 12.81 | 96 | 89 | 47 | 0 | 7 | 0 | 0 | |
| | GREAT FALLS | 52 | 34 | 56 | 25 | 43 | 18 | 0.01 | -0.11 | 0.01 | 0.08 | 21 | 17.16 | 117 | 70 | 35 | 0 | 2 | 1 | 0 | |
| NH | HAVRE | 47 | 21 | 56 | 14 | 34 | 14 | 0.08 | -0.02 | 0.08 | 0.20 | 71 | 11.32 | 96 | 90 | 48 | 0 | 7 | 1 | 0 | |
| | MISSOULA | 37 | 24 | 44 | 14 | 30 | 7 | 0.04 | -0.21 | 0.04 | 0.47 | 58 | 12.95 | 93 | 96 | 72 | 0 | 7 | 1 | 0 | |
| | ASHEVILLE | 55 | 28 | 62 | 19 | 41 | 1 | 0.15 | -0.76 | 0.15 | 3.67 | 118 | 35.33 | 72 | 84 | 34 | 0 | 6 | 1 | 0 | |
| NJ | CHARLOTTE | 56 | 32 | 63 | 23 | 44 | 0 | 1.43 | 0.59 | 1.43 | 3.85 | 148 | 42.66 | 100 | 78 | 32 | 0 | 3 | 1 | 1 | |
| | GREENSBORO | 54 | 31 | 61 | 22 | 42 | 1 | 1.87 | 1.16 | 1.87 | 5.32 | 226 | 42.91 | 99 | 75 | 31 | 0 | 4 | 1 | 1 | |
| | HATTERAS | 57 | 45 | 72 | 39 | 51 | 0 | 1.80 | 0.69 | 1.69 | 4.70 | 131 | 47.14 | 78 | 91 | 54 | 0 | 0 | 2 | 1 | |
| NM | RALEIGH | 57 | 35 | 62 | 27 | 46 | 2 | 2.84 | 2.03 | 2.84 | 5.72 | 230 | 43.26 | 95 | 73 | 31 | 0 | 3 | 1 | 1 | |
| | WILMINGTON | 59 | 35 | 69 | 27 | 47 | -2 | 3.21 | 2.35 | 3.20 | 4.93 | 181 | 54.72 | 92 | 86 | 36 | 0 | 4 | 2 | 1 | |
| | BISMARCK | 40 | 18 | 46 | 9 | 29 | 13 | 0.00 | -0.14 | 0.00 | 0.22 | 50 | 20.17 | 106 | 93 | 61 | 0 | 7 | 0 | 0 | |
| NV | DICKINSON | 45 | 21 | 54 | 11 | 33 | 15 | 0.00 | -0.04 | 0.00 | 0.15 | 115 | 14.78 | 95 | 91 | 53 | 0 | 7 | 0 | 0 | |
| | FARGO | 37 | 26 | 45 | 8 | 32 | 18 | 0.59 | 0.38 | 0.59 | 0.74 | 113 | 19.46 | 82 | 83 | 64 | 0 | 4 | 1 | 1 | |
| | GRAND FORKS | 33 | 18 | 39 | -1 | 26 | 14 | 0.00 | -0.15 | 0.00 | 0.24 | 49 | 14.05 | 65 | 86 | 71 | 0 | 6 | 0 | 0 | |
| NY | JAMESTOWN | 39 | 21 | 51 | 8 | 30 | 16 | 0.00 | -0.08 | 0.00 | 0.09 | 36 | 15.98 | 81 | 85 | 60 | 0 | 7 | 0 | 0 | |
| | GRAND ISLAND | 50 | 26 | 62 | 20 | 38 | 10 | 0.06 | -0.13 | 0.06 | 0.61 | 95 | 14.87 | 56 | 94 | 59 | 0 | 6 | 1 | 0 | |
| | LINCOLN | 51 | 24 | 58 | 22 | 38 | 10 | 0.00 | -0.27 | 0.00 | 0.76 | 84 | 19.05 | 65 | 90 | 58 | 0 | 7 | 0 | 0 | |
| OH | NORFOLK | 47 | 25 | 55 | 22 | 36 | 12 | 0.14 | -0.04 | 0.14 | 0.24 | 37 | 25.09 | 94 | 94 | 56 | 0 | 7 | 1 | 0 | |
| | NORTH PLATTE | 56 | 22 | 62 | 15 | 39 | 12 | 0.02 | -0.08 | 0.02 | 0.07 | 23 | 20.95 | 100 | 91 | 38 | 0 | 7 | 1 | 0 | |
| | OMAHA | 48 | 27 | 56 | 22 | 37 | 10 | 0.01 | -0.26 | 0.01 | 0.30 | 31 | 23.39 | 74 | 90 | 64 | 0 | 7 | 1 | 0 | |
| PA | SCOTTSBLUFF | 58 | 22 | 65 | 17 | 40 | 13 | 0.00 | -0.12 | 0.00 | 0.08 | 21 | 19.53 | 125 | 86 | 32 | 0 | 7 | 0 | 0 | |
| | VALENTINE | 54 | 20 | 63 | 9 | 37 | 12 | 0.19 | 0.10 | 0.19 | 0.20 | 60 | 31.07 | 149 | 91 | 35 | 0 | 7 | 1 | 0 | |
| | CONCORD | 44 | 23 | 62 | 12 | 33 | 6 | 3.37 | 2.54 | 2.67 | 6.14 | 218 | 40.72 | 99 | 89 | 48 | 0 | 6 | 2 | 2 | |
| RI | ATLANTIC_CITY | 49 | 31 | 62 | 25 | 40 | 3 | 2.80 | 1.75 | 2.23 | 5.52 | 160 | 40.13 | 89 | 81 | 53 | 0 | 5 | 2 | 2 | |
| | NEWARK | 49 | 33 | 64 | 25 | 41 | 5 | 3.17 | 2.22 | 2.60 | 5.61 | 178 | 48.75 | 106 | 76 | 45 | 0 | 5 | 3 | 2 | |
| | ALBUQUERQUE | 51 | 33 | 54 | 30 | 42 | 6 | 0.48 | 0.36 | 0.46 | 1.00 | 243 | 5.30 | 60 | 90 | 45 | 0 | 5 | 3 | 0 | |
| TN | ELY | 49 | 22 | 55 | 11 | 36 | 11 | 0.00 | -0.15 | 0.00 | 0.04 | 7 | 11.43 | 124 | 77 | 33 | 0 | 6 | 0 | 0 | |
| | LAS VEGAS | 63 | 48 | 67 | 43 | 56 | 8 | 0.06 | -0.05 | 0.06 | 0.06 | 20 | 4.21 | 104 | 53 | 28 | 0 | 0 | 1 | 0 | |
| | RENO | 49 | 32 | 55 | 25 | 40 | 5 | 0.38 | 0.12 | 0.33 | 0.38 | 49 | 10.47 | 148 | 90 | 54 | 0 | 3 | 2 | 0 | |
| TX | WINNEMUCCA | 50 | 21 | 57 | 11 | 36 | 6 | 0.01 | -0.23 | 0.01 | 0.28 | 37 | 8.33 | 116 | 83 | 40 | 0 | 7 | 1 | 0 | |
| | ALBANY | 41 | 25 | 56 | 16 | 33 | 4 | 2.45 | 1.74 | 2.06 | 4.90 | 198 | 45.81 | 114 | 86 | 54 | 0 | 5 | 2 | 1 | |
| | BINGHAMTON | 39 | 25 | 49 | 16 | 32 | 5 | 2.48 | 1.82 | 1.90 | 4.80 | 206 | 44.12 | 106 | 91 | 66 | 0 | 6 | 4 | 1 | |
| UT | BUFFALO | 40 | 30 | 50 | 24 | 35 | 5 | 0.88 | 0.04 | 0.54 | 2.66 | 95 | 38.29 | 96 | 91 | 65 | 0 | 5 | 4 | 1 | |
| | ROCHESTER | 41 | 28 | 54 | 21 | 35 | 4 | 0.44 | -0.13 | 0.26 | 1.78 | | | | | | | | | | |

Weather Data for the Week Ending December 23, 2023

| 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 DEC 1 | PCT. NORMAL SINCE DEC 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 |
| OK | TOLEDO | 46 | 35 | 52 | 27 | 40 | 9 | 0.57 | 0.03 | 0.21 | 1.41 | 78 | 30.49 | 88 | 87 | 61 | 0 | 4 | 4 | 0 |
| | YOUNGSTOWN | 41 | 30 | 48 | 19 | 36 | 5 | 0.73 | 0.02 | 0.35 | 1.48 | 63 | 34.69 | 86 | 87 | 59 | 0 | 4 | 4 | 0 |
| | OKLAHOMA CITY | 60 | 40 | 66 | 28 | 50 | 11 | 0.10 | -0.31 | 0.08 | 1.05 | 76 | 34.10 | 94 | 90 | 55 | 0 | 3 | 3 | 0 |
| OR | TULSA | 58 | 40 | 65 | 25 | 49 | 10 | 0.27 | -0.29 | 0.16 | 0.68 | 36 | 35.74 | 88 | 89 | 53 | 0 | 3 | 2 | 0 |
| | ASTORIA | 50 | 37 | 56 | 32 | 44 | 1 | 0.94 | -1.43 | 0.58 | 10.42 | 132 | 55.72 | 82 | 97 | 77 | 0 | 2 | 3 | 1 |
| | BURNS | 38 | 25 | 49 | 18 | 32 | 7 | 0.26 | -0.10 | 0.23 | 1.52 | 133 | 13.57 | 135 | 92 | 73 | 0 | 7 | 3 | 0 |
| PA | EUGENE | 47 | 38 | 59 | 31 | 42 | 2 | 0.50 | -1.15 | 0.37 | 5.77 | 105 | 27.63 | 70 | 98 | 84 | 0 | 1 | 3 | 0 |
| | MEDFORD | 50 | 36 | 59 | 28 | 43 | 4 | 0.19 | -0.64 | 0.15 | 1.93 | 72 | 12.72 | 72 | 98 | 68 | 0 | 3 | 4 | 0 |
| | PENDLETON | 39 | 33 | 43 | 28 | 36 | 2 | 0.20 | -0.15 | 0.10 | 1.27 | 114 | 9.80 | 78 | 94 | 80 | 0 | 3 | 3 | 0 |
| RI | PORTLAND | 48 | 37 | 51 | 30 | 42 | 1 | 0.86 | -0.44 | 0.50 | 7.68 | 175 | 34.38 | 96 | 90 | 67 | 0 | 2 | 2 | 1 |
| | SALEM | 47 | 35 | 58 | 29 | 41 | 0 | 0.57 | -1.00 | 0.39 | 6.69 | 127 | 35.09 | 91 | 99 | 79 | 0 | 2 | 3 | 0 |
| | ALLENTOWN | 46 | 28 | 58 | 21 | 37 | 3 | 3.26 | 2.43 | 1.73 | 6.04 | 203 | 43.41 | 93 | 82 | 51 | 0 | 6 | 3 | 2 |
| SC | ERIE | 42 | 32 | 50 | 26 | 37 | 4 | 0.58 | -0.35 | 0.30 | 2.27 | 73 | 41.00 | 97 | 88 | 56 | 0 | 5 | 4 | 0 |
| | MIDDLETOWN | 47 | 34 | 55 | 29 | 40 | 6 | 2.62 | 1.87 | 2.00 | 4.39 | 167 | 36.75 | 84 | 76 | 51 | 0 | 3 | 2 | 2 |
| | PHILADELPHIA | 49 | 33 | 62 | 29 | 41 | 3 | 2.89 | 2.00 | 1.89 | 6.07 | 199 | 40.00 | 92 | 76 | 50 | 0 | 5 | 2 | 2 |
| SD | PITTSBURGH | 44 | 32 | 54 | 20 | 38 | 6 | 0.53 | -0.09 | 0.43 | 1.36 | 64 | 29.67 | 76 | 84 | 47 | 0 | 4 | 4 | 0 |
| | WILKES-BARRE | 42 | 29 | 52 | 21 | 36 | 4 | 2.96 | 2.35 | 1.82 | 4.97 | 233 | 44.56 | 117 | 86 | 56 | 0 | 5 | 4 | 2 |
| | WILLIAMSPORT | 43 | 30 | 52 | 24 | 37 | 5 | 2.16 | 1.48 | 1.18 | 4.13 | 164 | 40.26 | 94 | 83 | 54 | 0 | 4 | 2 | 2 |
| TN | PROVIDENCE | 46 | 28 | 60 | 19 | 37 | 3 | 2.84 | 1.81 | 2.17 | 5.65 | 156 | 55.49 | 119 | 87 | 50 | 0 | 5 | 2 | 2 |
| | CHARLESTON | 62 | 38 | 71 | 27 | 49 | -2 | 3.10 | 2.31 | 3.10 | 3.41 | 137 | 50.09 | 97 | 87 | 37 | 0 | 3 | 1 | 1 |
| | COLUMBIA | 58 | 32 | 68 | 22 | 45 | -2 | 2.20 | 1.31 | 2.20 | 3.00 | 112 | 53.09 | 120 | 95 | 39 | 0 | 5 | 1 | 1 |
| TX | FLORENCE | 58 | 33 | 67 | 25 | 46 | -3 | 2.08 | 1.23 | 2.08 | 2.78 | 110 | 40.19 | 90 | 89 | 37 | 0 | 4 | 1 | 1 |
| | GREENVILLE | 58 | 30 | 63 | 22 | 44 | 0 | 0.26 | -0.79 | 0.26 | 2.07 | 61 | 47.62 | 98 | 75 | 27 | 0 | 5 | 1 | 0 |
| | ABERDEEN | 45 | 19 | 56 | 10 | 32 | 15 | 0.16 | 0.02 | 0.16 | 0.26 | 58 | 22.02 | 101 | 89 | 57 | 0 | 7 | 1 | 0 |
| UT | HURON | 45 | 19 | 51 | 10 | 32 | 13 | 0.35 | 0.21 | 0.35 | 0.38 | 77 | 17.76 | 76 | 93 | 55 | 0 | 7 | 1 | 0 |
| | RAPID CITY | 56 | 24 | 63 | 17 | 40 | 15 | 0.00 | -0.08 | 0.00 | 0.00 | 0 | 20.59 | 118 | 76 | 32 | 0 | 7 | 0 | 0 |
| | SIOUX FALLS | 46 | 24 | 54 | 17 | 35 | 14 | 0.27 | 0.09 | 0.27 | 0.31 | 49 | 17.12 | 61 | 89 | 54 | 0 | 7 | 1 | 0 |
| VA | BRISTOL | 51 | 27 | 58 | 18 | 39 | 0 | 0.09 | -0.72 | 0.06 | 3.23 | 112 | 38.53 | 89 | 88 | 39 | 0 | 6 | 2 | 0 |
| | CHATTANOOGA | 54 | 31 | 65 | 25 | 42 | -1 | 0.47 | -0.67 | 0.47 | 4.20 | 105 | 44.95 | 83 | 83 | 36 | 0 | 5 | 1 | 0 |
| | KNOXVILLE | 52 | 30 | 62 | 25 | 41 | 0 | 0.14 | -0.94 | 0.14 | 4.91 | 128 | 45.30 | 89 | 85 | 41 | 0 | 5 | 1 | 0 |
| WV | MEMPHIS | 57 | 38 | 66 | 29 | 47 | 4 | 0.34 | -0.87 | 0.34 | 1.60 | 38 | 52.91 | 98 | 77 | 42 | 0 | 1 | 1 | 0 |
| | NASHVILLE | 53 | 33 | 62 | 25 | 43 | 1 | 0.36 | -0.59 | 0.32 | 2.00 | 58 | 36.33 | 73 | 79 | 36 | 0 | 5 | 2 | 0 |
| | ABILENE | 66 | 47 | 71 | 34 | 57 | 10 | 0.10 | -0.20 | 0.08 | 1.14 | 119 | 22.35 | 89 | 88 | 54 | 0 | 0 | 2 | 0 |
| WY | AMARILLO | 64 | 35 | 77 | 30 | 50 | 12 | 0.52 | 0.35 | 0.52 | 1.72 | 336 | 17.37 | 89 | 88 | 36 | 0 | 1 | 1 | 1 |
| | AUSTIN | 69 | 50 | 72 | 37 | 59 | 6 | 0.54 | -0.08 | 0.28 | 1.07 | 53 | 24.16 | 68 | 93 | 58 | 0 | 0 | 3 | 0 |
| | BEAUMONT | 70 | 49 | 74 | 37 | 60 | 5 | 0.42 | -0.67 | 0.42 | 1.37 | 37 | 37.11 | 61 | 92 | 53 | 0 | 0 | 1 | 0 |
| WY | BROWNSVILLE | 78 | 56 | 81 | 45 | 67 | 3 | 0.01 | -0.26 | 0.01 | 0.11 | 11 | 20.86 | 78 | 98 | 54 | 0 | 0 | 1 | 0 |
| | CORPUS CHRISTI | 75 | 54 | 79 | 42 | 65 | 6 | 0.03 | -0.43 | 0.02 | 0.51 | 35 | 26.23 | 83 | 96 | 57 | 0 | 0 | 2 | 0 |
| | DEL RIO | 72 | 51 | 75 | 36 | 61 | 8 | 0.01 | -0.15 | 0.01 | 0.43 | 77 | 14.53 | 73 | 87 | 51 | 0 | 0 | 1 | 0 |
| WY | EL PASO | 64 | 40 | 70 | 28 | 52 | 7 | 0.17 | 0.02 | 0.16 | 0.19 | 39 | 4.21 | 48 | 73 | 33 | 0 | 2 | 2 | 0 |
| | FORT WORTH | 65 | 48 | 72 | 37 | 56 | 9 | 1.42 | 0.77 | 1.16 | 2.02 | 96 | 26.72 | 73 | 90 | 56 | 0 | 0 | 3 | 1 |
| | GALVESTON | 67 | 57 | 72 | 50 | 62 | 5 | 0.21 | -0.69 | 0.21 | 2.13 | 65 | 27.63 | 59 | 93 | 70 | 0 | 0 | 1 | 0 |
| WY | HOUSTON | 70 | 50 | 75 | 40 | 60 | 5 | 0.16 | -0.76 | 0.16 | 1.81 | 59 | 40.09 | 78 | 94 | 58 | 0 | 0 | 1 | 0 |
| | LUBBOCK | 62 | 38 | 71 | 30 | 50 | 10 | 0.00 | -0.18 | 0.00 | 0.58 | 103 | 16.46 | 90 | 94 | 47 | 0 | 2 | 0 | 0 |
| | MIDLAND | 64 | 43 | 69 | 33 | 53 | 8 | 0.39 | 0.26 | 0.39 | 0.56 | 125 | 7.40 | 55 | 96 | 50 | 0 | 0 | 1 | 0 |
| WY | SAN ANGELO | 68 | 43 | 71 | 32 | 55 | 8 | 0.66 | 0.45 | 0.60 | 2.03 | 305 | 19.03 | 91 | 95 | 50 | 0 | 1 | 2 | 1 |
| | SAN ANTONIO | 70 | 51 | 73 | 36 | 61 | 8 | 0.18 | -0.26 | 0.14 | 0.54 | 35 | 19.06 | 59 | 93 | 55 | 0 | 0 | 2 | 0 |
| | VICTORIA | 73 | 50 | 76 | 36 | 62 | 6 | 0.44 | -0.06 | 0.28 | 0.63 | 36 | 29.79 | 74 | 93 | 56 | 0 | 0 | 3 | 0 |
| WY | WACO | 67 | 44 | 71 | 28 | 56 | 7 | 0.89 | 0.22 | 0.59 | 1.27 | 61 | 27.06 | 76 | 96 | 58 | 0 | 2 | 3 | 1 |
| | WICHITA FALLS | 63 | 41 | 71 | 32 | 52 | 9 | 0.03 | -0.30 | 0.03 | 1.07 | 88 | 21.28 | 77 | 91 | 59 | 0 | 1 | 1 | 0 |
| | SALT LAKE CITY | 44 | 29 | 54 | 22 | 37 | 6 | 0.22 | -0.10 | 0.20 | 0.96 | 91 | 17.56 | 115 | 97 | 66 | 0 | 6 | 2 | 0 |
| WY | LYNCHBURG | 51 | 28 | 56 | 18 | 40 | 1 | 1.44 | 0.70 | 1.44 | 4.38 | 163 | 42.35 | 101 | 85 | 40 | 0 | 6 | 1 | 1 |
| | NORFOLK | 54 | 37 | 67 | 32 | 46 | 1 | 3.79 | 3.00 | 2.62 | 6.06 | 248 | 48.17 | 99 | 87 | 52 | 0 | 2 | 2 | 2 |
| | RICHMOND | 53 | 31 | 59 | 26 | 42 | 1 | 2.81 | 2.02 | 2.80 | 7.03 | 263 | 41.00 | 91 | 84 | 42 | 0 | 5 | 2 | 1 |
| WY | ROANOKE | 53 | 31 | 59 | 23 | 42 | 2 | 0.63 | 0.00 | 0.63 | 2.42 | 102 | 31.24 | 74 | 74 | 38 | 0 | 4 | 1 | 1 |
| | WASH/DULLES | 48 | 29 | 54 | 22 | 39 | 2 | 2.25 | 1.52 | 2.17 | 4.67 | 184 | 33.57 | 79 | 83 | 48 | 0 | 5 | 2 | 1 |
| | BURLINGTON | 39 | 26 | 53 | 14 | 32 | 6 | 2.46 | 1.94 | 2.19 | 4.97 | 264 | 43.30 | 117 | 85 | 55 | 0 | 5 | 3 | 1 |
| WY | OLYMPIA | 48 | 37 | 55 | 31 | 43 | 4 | 0.52 | -1.20 | 0.21 | 9.22 | 159 | 39.49 | 81 | 93 | 79 | 0 | 2 | 3 | 0 |
| | QUILLAYUTE | 53 | 43 | 56 | 34 | 48 | 7 | 2.02 | -1.06 | 0.91 | 12.02 | 117 | 78.54 | 80 | 87 | 76 | 0 | 0 | 5 | 2 |
| | SEATTLE-TACOMA | 48 | 39 | 51 | 33 | 44 | 2 | 0.84 | -0.43 | 0.67 | 7.37 | 173 | 33.50 | 88 | 95 | 71 | 0 | 0 | 3 | 1 |
| WY | SPOKANE | 38 | 31 | 43 | 23 | 34 | 6 | 0.33 | -0.20 | 0.17 | 3.21 | 185 | 13.33 | 84 | 96 | 85 | 0 | 3 | 3 | 0 |
| | YAKIMA | 41 | 34 | 45 | 24 | 38 | 8 | 0.29 | -0.07 | 0.22 | 1.27 | 120 | 6.78 | 88 | 89 | 72 | 0 | 2 | 2 | 0 |
| | EAU CLAIRE | 39 | 25 | 45 | 11 | 32 | 13 | 0.09 | -0.20 | 0.08 | 0.49 | 46 | 25.17 | 77 | 85 | 58 | 0 | 5 | 2 | 0 |
| WY | GREEN BAY | 39 | 28 | 44 | 15 | 34 | 11 | 0.00 | -0.38 | 0.00 | 0.55 | 41 | 24.81 | 79 | 89 | 67 | 0 | 4 | 0 | 0 |
| | LA CROSSE | 41 | 28 | 47 | 14 | 35 | 11 | 0.00 | -0.32 | 0.00 | 0.30 | 26 | 22.69 | 65 | 84 | 58 | 0 | 5 | 0 | 0 |
| | MADISON | 40 | 26 | 46 | 11 | 33 | 9 | 0.00 | -0.34 | 0.00 | 0.71 | 55 | 28.41 | 77 | 91 | 65 | 0 | 5 | 0 | 0 |
| WY | MILWAUKEE | 43 | 32 | 49 | 18 | 38 | 9 | 0.25 | -0.14 | 0.24 | 1.59 | 111 | 32.40 | 94 | 81 | 59 | 0 | 3 | 2 | 0 |
| | BECKLEY | 47 | 27 | 56 | 15 | 37 | 2 | 0.39 | -0.31 | 0.20 | 2.16 | 86 | 39.51 | 92 | 82 | 41 | 0 | 5 | 3 | 0 |
| | CHARLESTON | 50 | 29 | 61 | 19 | 39 | 2 | 0.19 | -0.58 | 0.14 | 1.55 | 56 | 34.75 | 76 | 96 | 40 | 0 | 5 | 2 | 0 |
| WY | ELKINS | 46 | 22 | 56 | 9 | 34 | 0 | 0.44 | -0.33 | 0.20 | 2.02 | 74 | 41.49 | 89 | 96 | 48 | 0 | 6 | 4 | 0 |

International Weather and Crop Summary

December 17-23, 2023

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

HIGHLIGHTS

EUROPE: Unseasonable warmth persisted, with additional rain in central and northern Europe contrasting with drier weather in western and southern growing areas.

MIDDLE EAST: Warm and wet weather maintained favorable conditions for winter grains over western and central growing areas.

NORTHWESTERN AFRICA: Additional drought-easing rain in the east juxtaposed with intensifying drought in the west.

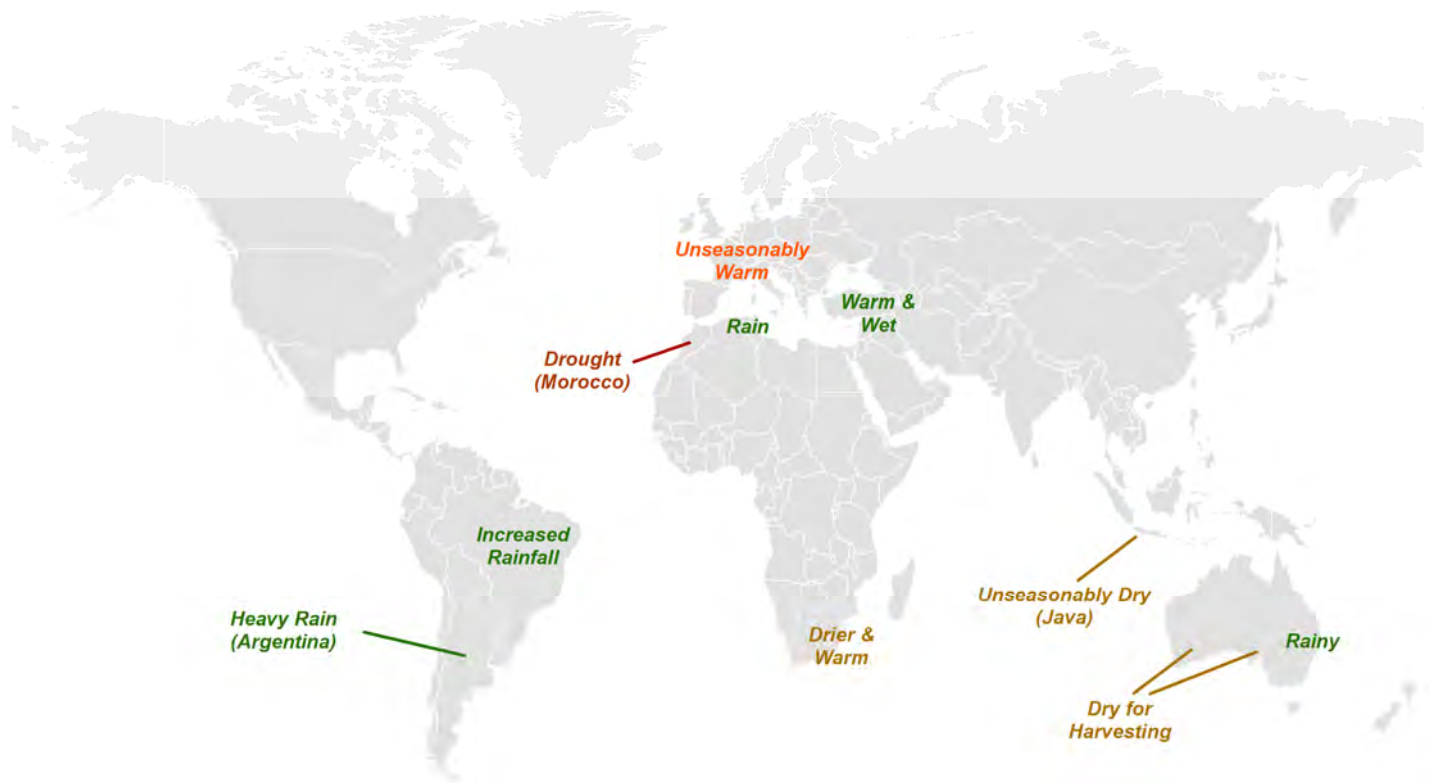
SOUTHEAST ASIA: Continued unseasonable dryness in Java, Indonesia, further degraded moisture conditions for rice.

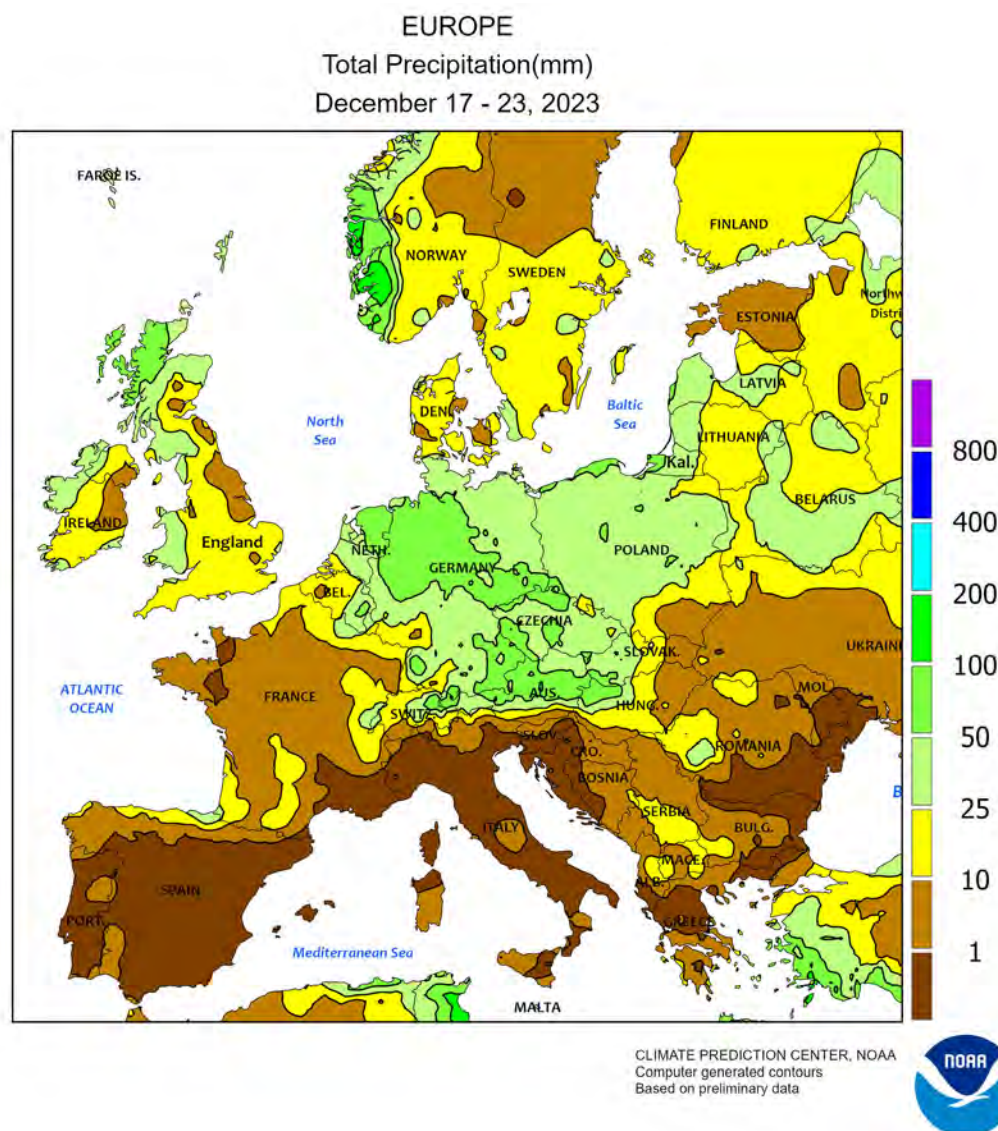
AUSTRALIA: Rain in the east benefited summer crops, while dry weather in the south and west aided winter crop harvesting.

SOUTH AFRICA: Following last week's timely showers, warmer, drier weather returned to western sections of the corn belt.

ARGENTINA: Moderate to heavy showers maintained favorable prospects for emerging summer crops.

BRAZIL: Showers intensified over central and northeastern farming areas, helping to stabilize the condition of immature soybeans.



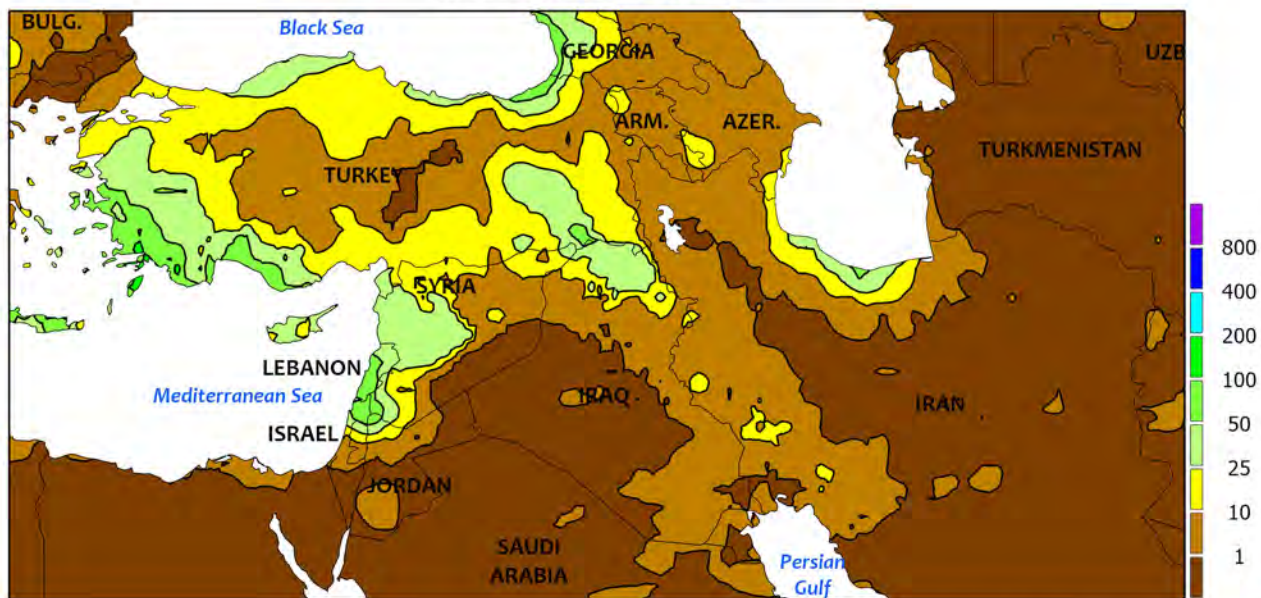


EUROPE

Unseasonable warmth persisted for a second consecutive week, with continued wet weather in central and northern Europe contrasting with drier conditions in the west and south. Temperatures during the monitoring period averaged 2 to 6°C above normal nearly everywhere save for the western Iberian Peninsula (1-4°C below normal). Consequently, most of the continent's primary winter crop areas were devoid of a protective snow cover at week's end except for northeastern Poland and the Baltic States.

Meanwhile, a series of Atlantic storms produced moderate to heavy showers (10-100 mm, locally more) from England and eastern France eastward. The rain continued to hamper late-season fieldwork but maintained abundant moisture reserves for dormant winter grains and oilseeds. Conversely, favorably drier weather across the remainder of France allowed previously delayed fieldwork to resume. Sunny skies also promoted seasonal fieldwork and winter grain development in Portugal, Spain, and Italy.

MIDDLE EAST
Total Precipitation(mm)
December 17 - 23, 2023



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



MIDDLE EAST

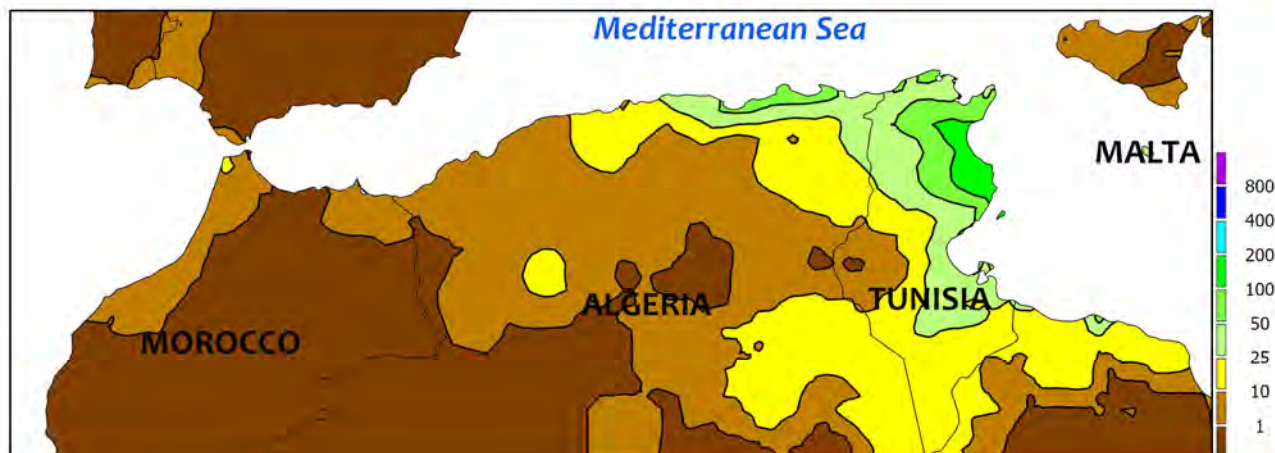
Warm weather prevailed over much of the region, with additional rain observed in western and central growing areas. In Turkey, another week with widespread albeit highly variable showers (5-30 mm on the Anatolian Plateau, but locally more than 50 mm along the country's perimeter) further boosted prospects for winter wheat and barley establishment. Light to moderate showers (2-35 mm) continued along the eastern Mediterranean Coast, though locally excessive rain (50-130 mm) was reported in northern Israel and environs. Showers (1-25 mm) also kept soils favorably moist from northern Iraq into

western Iran. Overall, moisture conditions remained favorable for winter crops after a dry start to the growing campaign. However, drier-than-normal weather lingered in northeastern Iran's Khorasan Province; since October 15, rainfall in this key barley growing area has tallied a meager 43 percent of normal. Temperatures up to 5°C above normal kept winter crops from going dormant in the climatologically colder northern growing areas, although wheat and barley approached dormancy in northern Iran and on Turkey's Anatolian Plateau by the end of the monitoring period.

NORTHWESTERN AFRICA

Total Precipitation(mm)

December 17 - 23, 2023



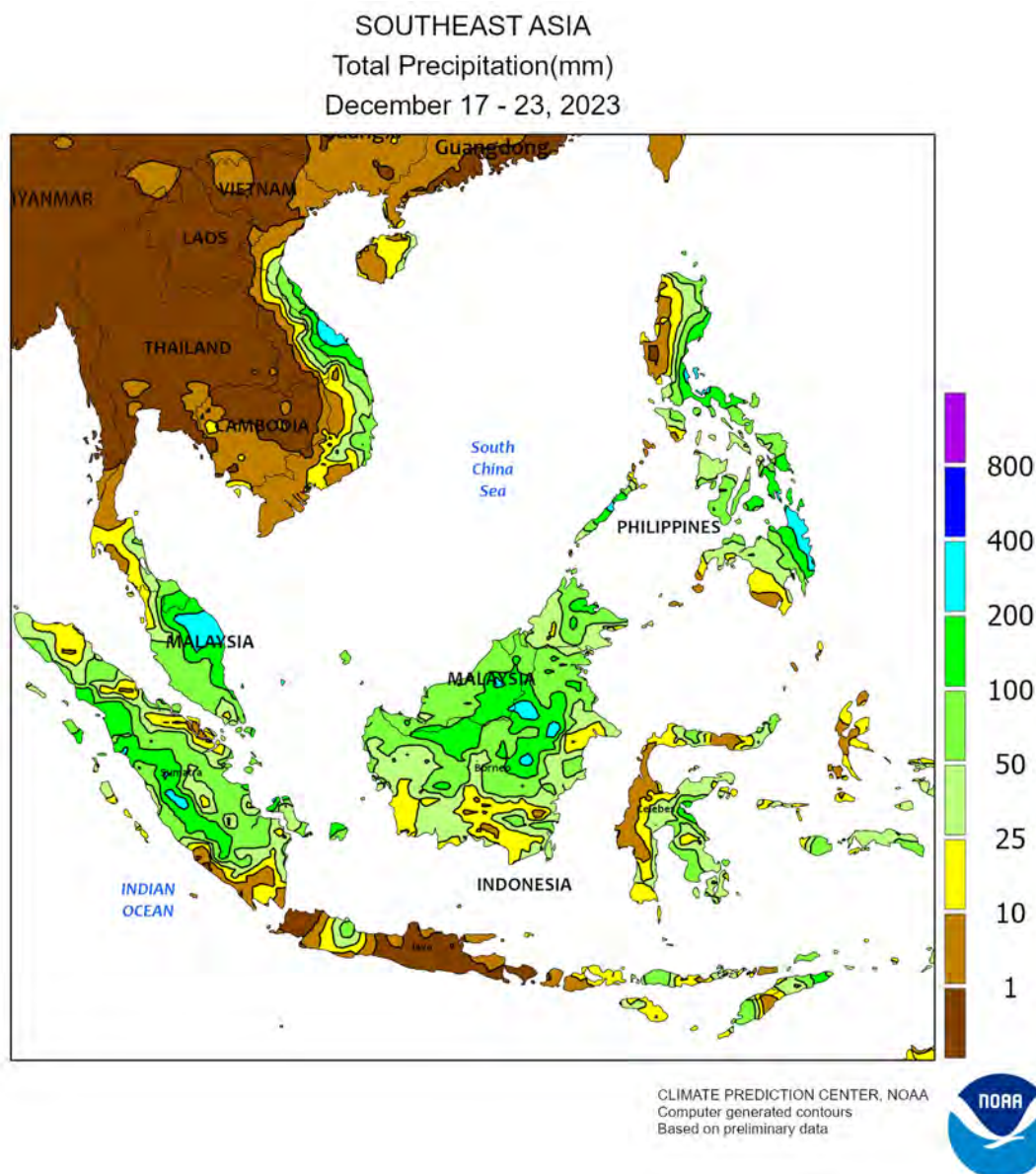
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data



NORTHWESTERN AFRICA

For the third consecutive week, drought-easing rain in the east juxtaposed with increasing drought in Morocco and western Algeria. Additional moderate to heavy rain (10-75 mm) from north-central Algeria into northern Tunisia further eased drought and improved prospects for winter grain establishment and early development. A pocket of heavy to excessive rainfall (75-135 mm) in east-central Tunisia likely caused localized flooding but fell outside of the country's primary growing areas. Conversely,

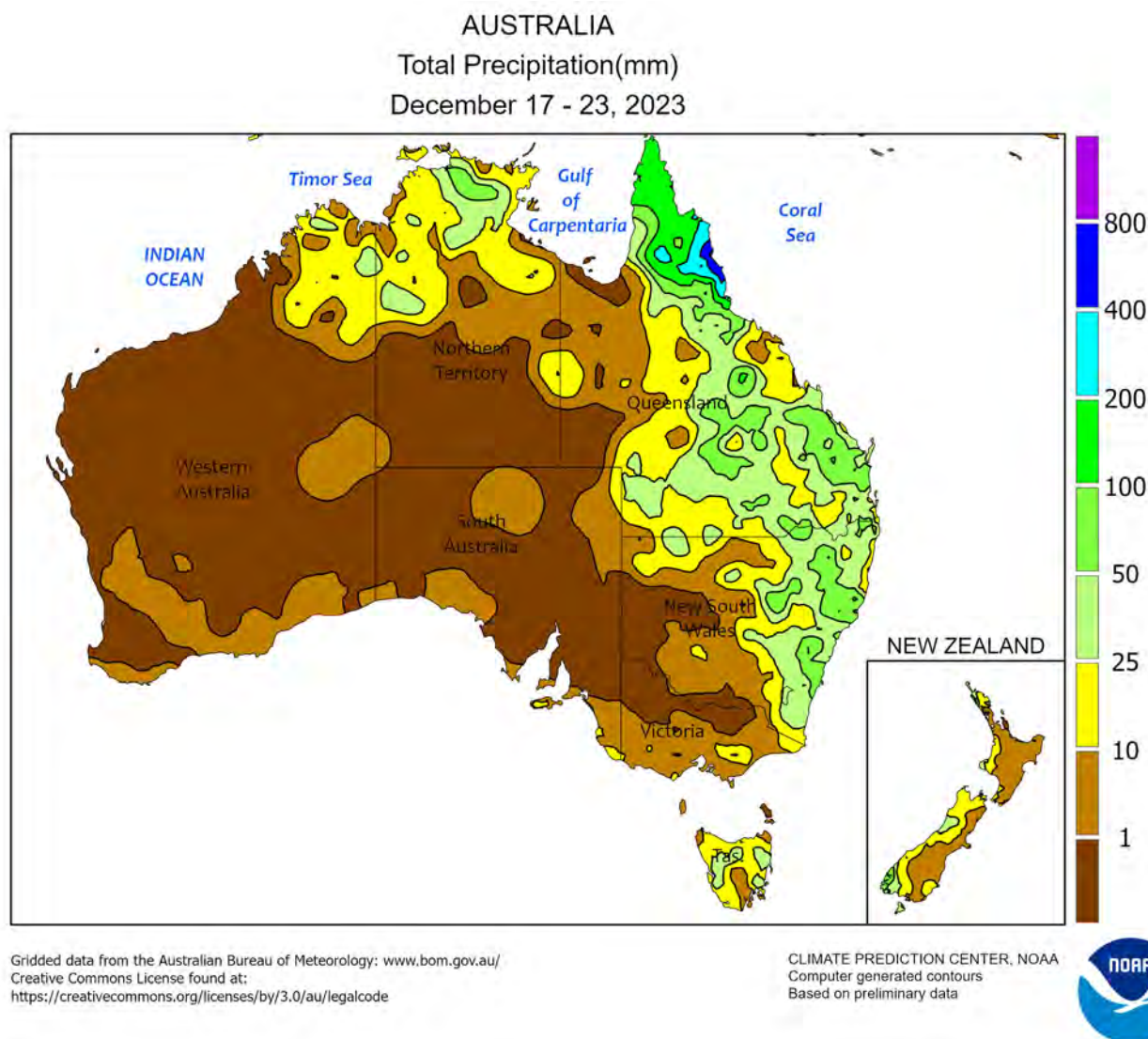
dry weather in Morocco ushered the country deeper into drought. As of December 24, rainfall since September 1 in Morocco's primary growing areas slipped below 45 percent of normal and was now the fifth driest of the past 30 years. Likewise, season-to-date rainfall in western Algeria dropped to 45 percent of normal, the driest of the past 30 years. Time is quickly running out for drought-afflicted western growing areas to receive rain for this season's wheat and barley.



SOUTHEAST ASIA

Unseasonable dryness persisted across Java, Indonesia, with little if any rainfall limiting moisture for rice. The late onset and poor establishment of seasonal rains has resulted in the third driest season to date (beginning August 1) in the last 30 years with little more than half the normal rainfall. More moisture is needed soon to prevent yield declines in rice as well as other crops. In contrast, most oil palm areas of Indonesia and neighboring

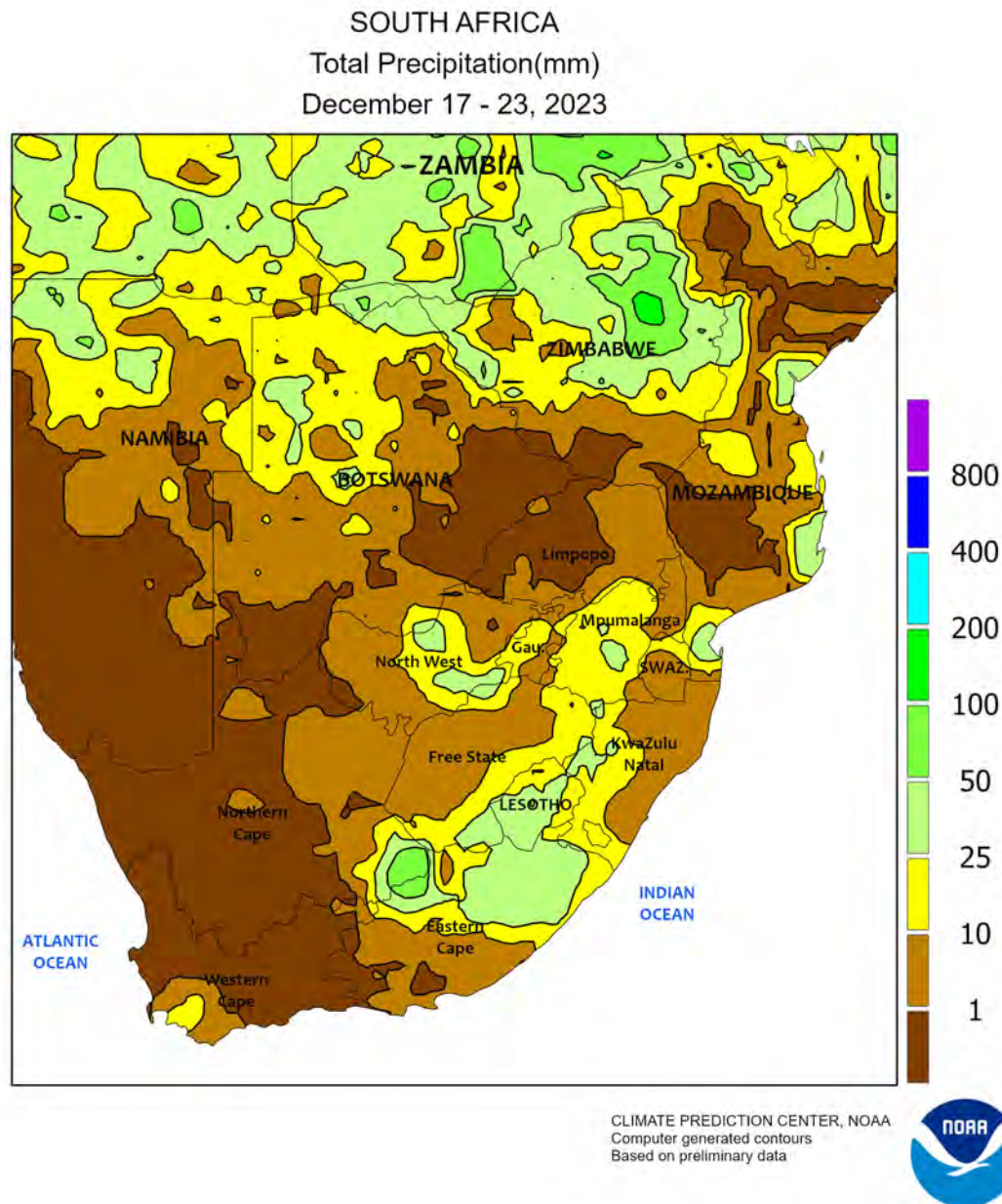
Malaysia continued to benefit from consistent albeit somewhat below-average showers (25-100 mm or more). Meanwhile, precipitation overspread nearly all corners of the Philippines with the exception of traditionally drier northwestern- and southwestern-most locales. Most areas recorded well in excess of 25 mm of rain and locally over 200 mm in the northeast. Although some flooding was likely, the moisture helped ease seasonal dryness.



AUSTRALIA

In southern Queensland and northern New South Wales, widespread showers (10-50 mm, locally more) maintained average to above-average root zone soil moisture for cotton, sorghum, and other summer crops. The rain slowed local fieldwork but helped counter relatively large evaporative losses. Maximum temperatures climbed into the upper 30s and lower 40s (degrees C), which elevated evaporation rates and accelerated summer crop development. Elsewhere in the

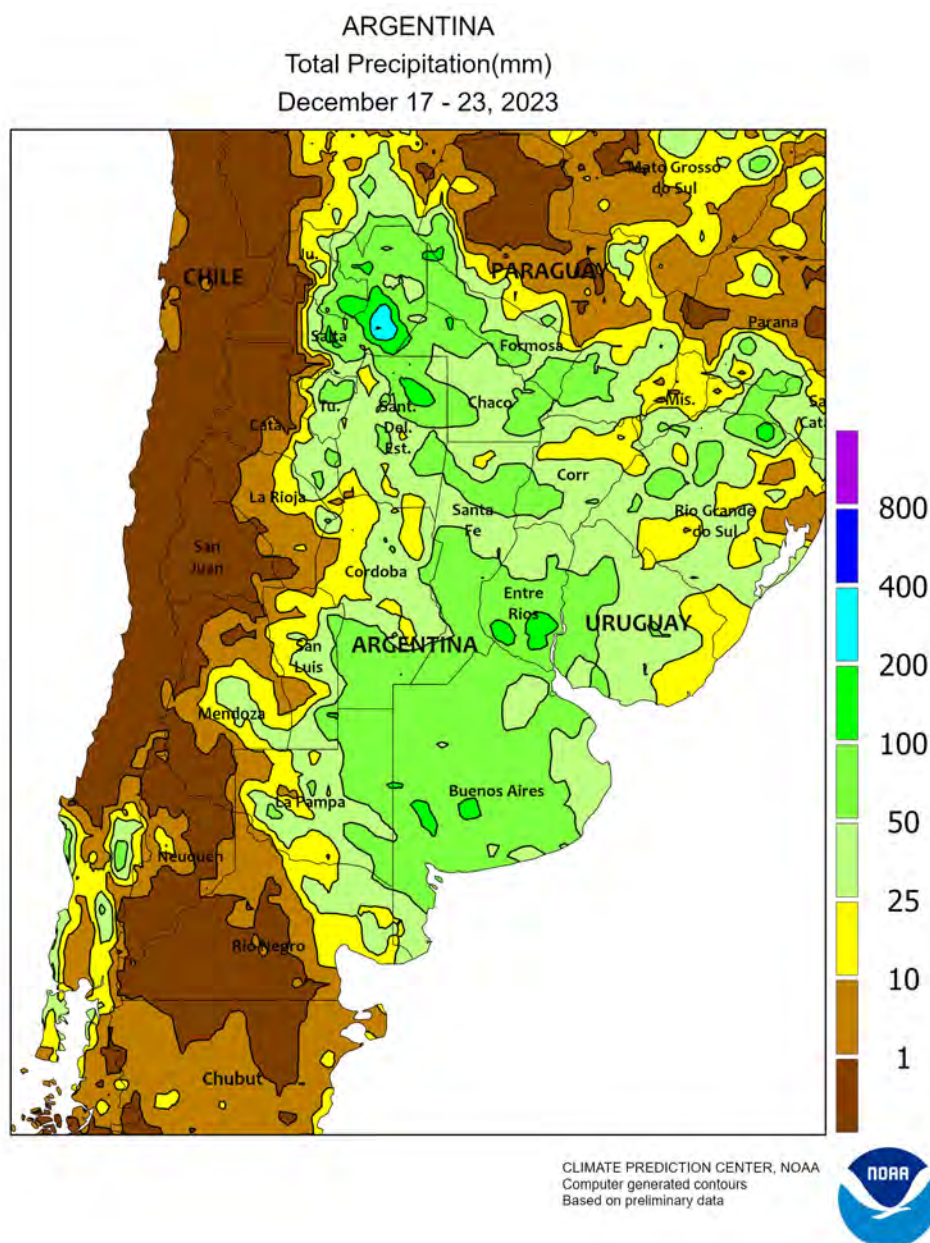
wheat belt, mostly dry weather in the south and west aided wheat, barley, and canola harvesting. In the wake of last week's soaking rain in the southeast, the drier weather helped winter crop harvesting regain momentum. In Western Australia, the continued dryness favored final winter grain and oilseed harvests. Temperatures averaged near normal in Western Australia but somewhat below normal (about 1°C below normal) in the southeast.



SOUTH AFRICA

Following last week's heavy showers, rainfall tapered off across most of the region, allowing temperatures to return to above-normal levels. Rain was patchy and mostly light across the corn belt (North West and Free State north and eastward through Limpopo and Mpumalanga), with many locations recording less than 10 mm. A similar pattern prevailed in sugarcane areas of KwaZulu-Natal and eastern Mpumalanga. Weekly temperatures averaged 2 to 3°C

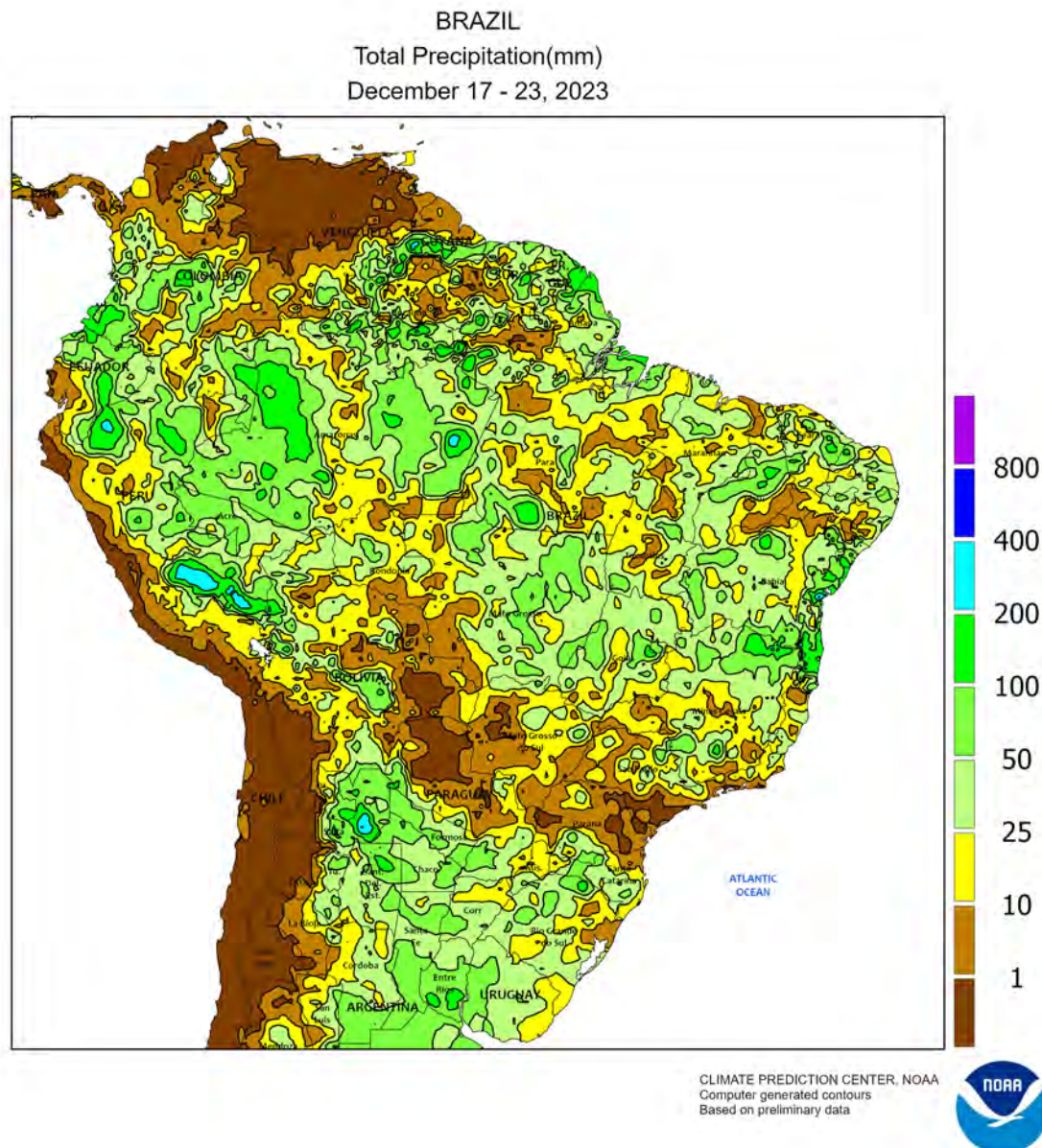
above normal throughout the aforementioned eastern farming areas, with highest daytime temperatures ranging from the lower to upper 30s (degrees C). Elsewhere, locally heavy rain (25-50 mm, locally higher) fell in the vicinity of Eastern Cape and southern Free State, increasing moisture in watersheds feeding the Orange River. Meanwhile, seasonably warm, sunny weather benefited growth of tree and vine crops in Western Cape.



ARGENTINA

Widespread, heavy showers maintained favorable prospects for summer grains, oilseeds, and cotton. Rainfall totaled 25 to 100 mm over most of the region, including previously dry northwestern farming areas (notably Santiago del Estero and Salta); while favorable for germination and establishment of summer crops, the heavy nature of the rain hampered winter grain harvesting and may have caused some lodging. Unseasonably mild weather accompanied the wetness, with weekly temperatures averaging 2 to 4°C below normal as far

north as Santiago del Estero. Despite the generally cooler-than-normal conditions, highest daytime temperatures reached the lower 30s (degrees C) in the cooler southern areas and the lower 40s in traditionally warmer northwestern areas. According to the government of Argentina, corn and soybeans were 69 and 71 percent planted, respectively, as of December 21; cotton was 61 percent planted, compared with 47 percent last year, while wheat was 66 percent harvested, 15 points behind last year's pace.



BRAZIL

Showers intensified over central and northeastern Brazil, helping to stabilize the condition of soybeans and other crops after another brief outbreak of heat and dryness. Rainfall totaled 10 to 50 mm – locally higher – from Mato Grosso eastward to the Atlantic Coast, although a few pockets of dryness lingered over the northeastern interior. The rain helped to bring temperatures down to more seasonable levels following a warm start to the week (daytime highs reaching 40°C in spots). According to the government of Mato Grosso, soybean harvesting had begun in isolated locations as of December 22, reaching about 1 percent completed in total. Farther south, moderate to heavy showers (10-35 mm, locally exceeding 50 mm) maintained generally favorable conditions

for summer crops in Rio Grande do Sul, while drier weather prevailed to the north, including Paraná, Mato Grosso do Sul, and São Paulo. As in the north, daytime highs reached the upper 30s (degrees C) in some of the drier southern areas as the week began but temperatures moderated despite the dryness. According to the government of Rio Grande do Sul, corn was 89 percent planted as of December 21, with just over 70 percent of the crop currently in the ground ranging from flowering to mature; 90 percent of soybeans were planted, but early planted crops were just beginning to flower. In Paraná, nearly 90 percent of the first-crop corn had reached reproduction as of December 18, as had 70 percent of soybeans.

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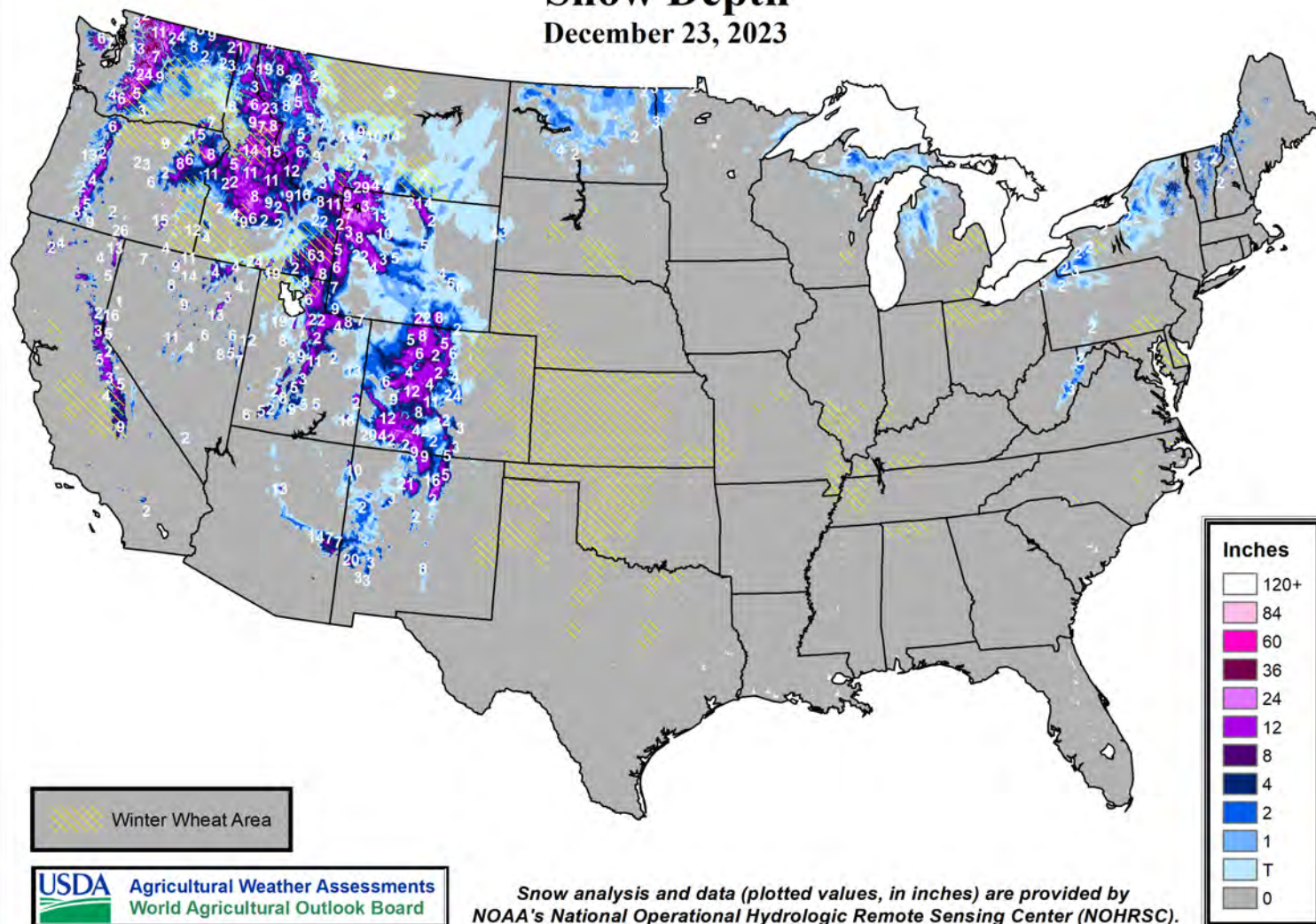
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Snow Depth

December 23, 2023



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