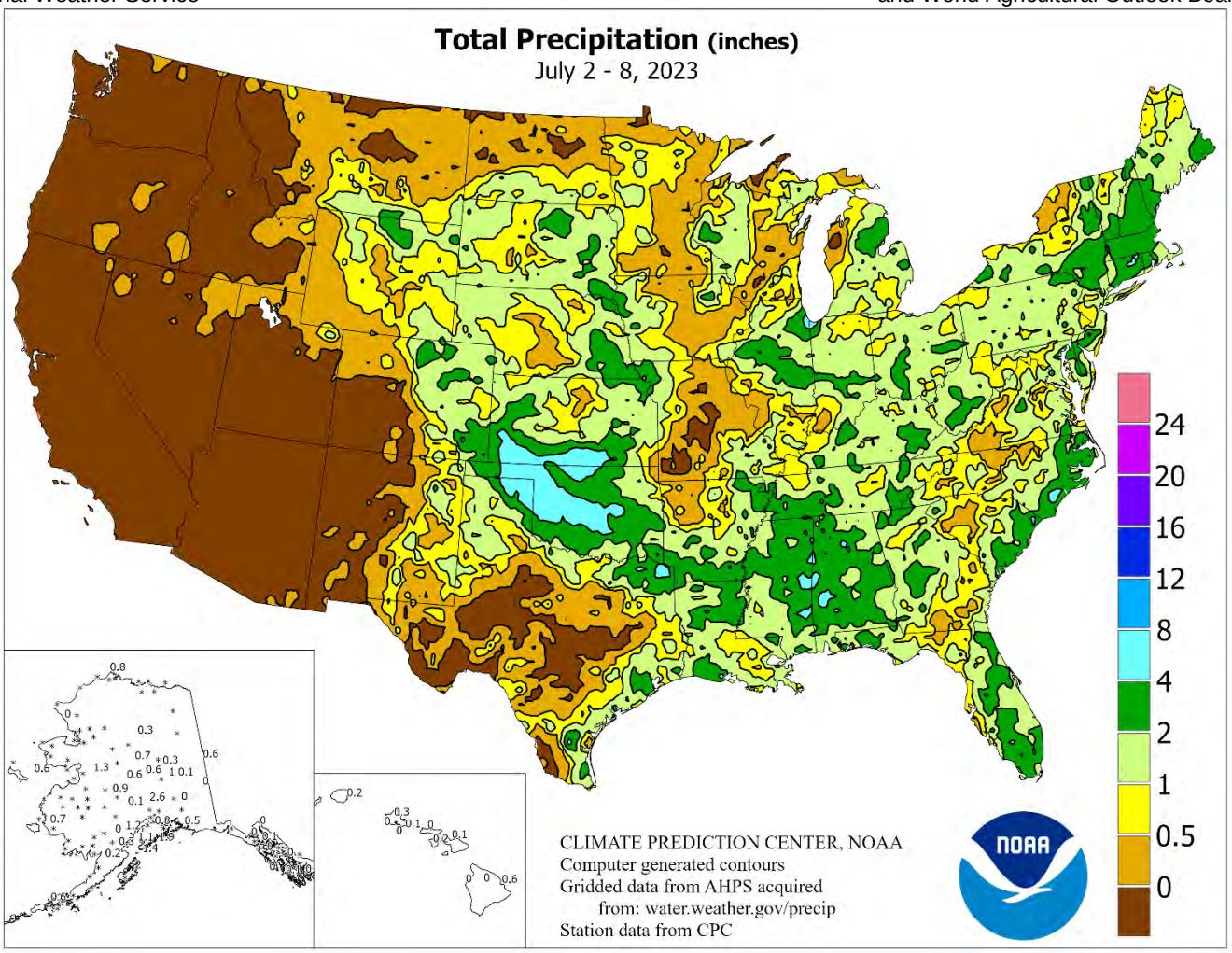
Volume 110, No. 28 www.usda.gov/oce/weather-drought-monitor July 11, 2023

# 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



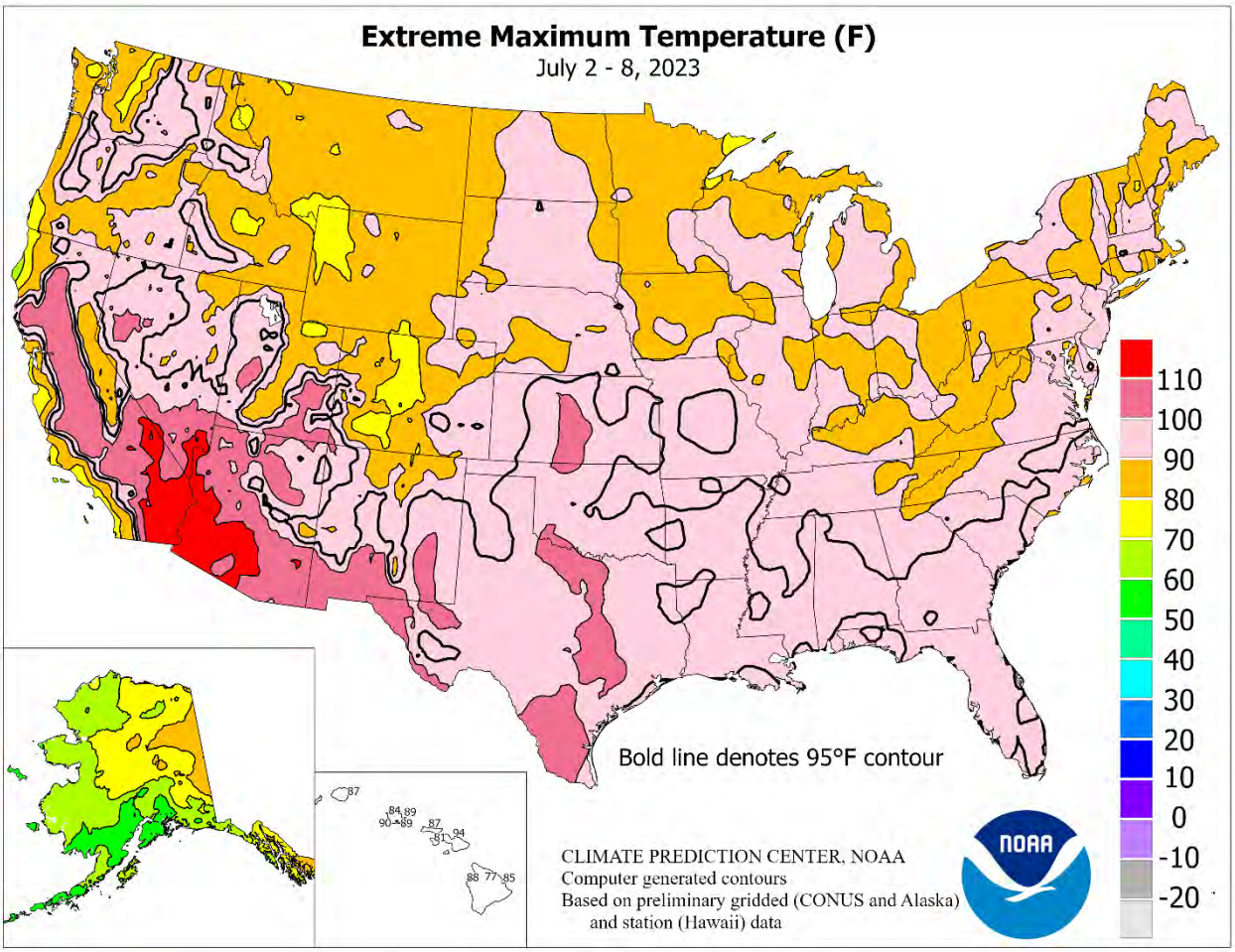

## HIGHLIGHTS
## July 2 – 8, 2023

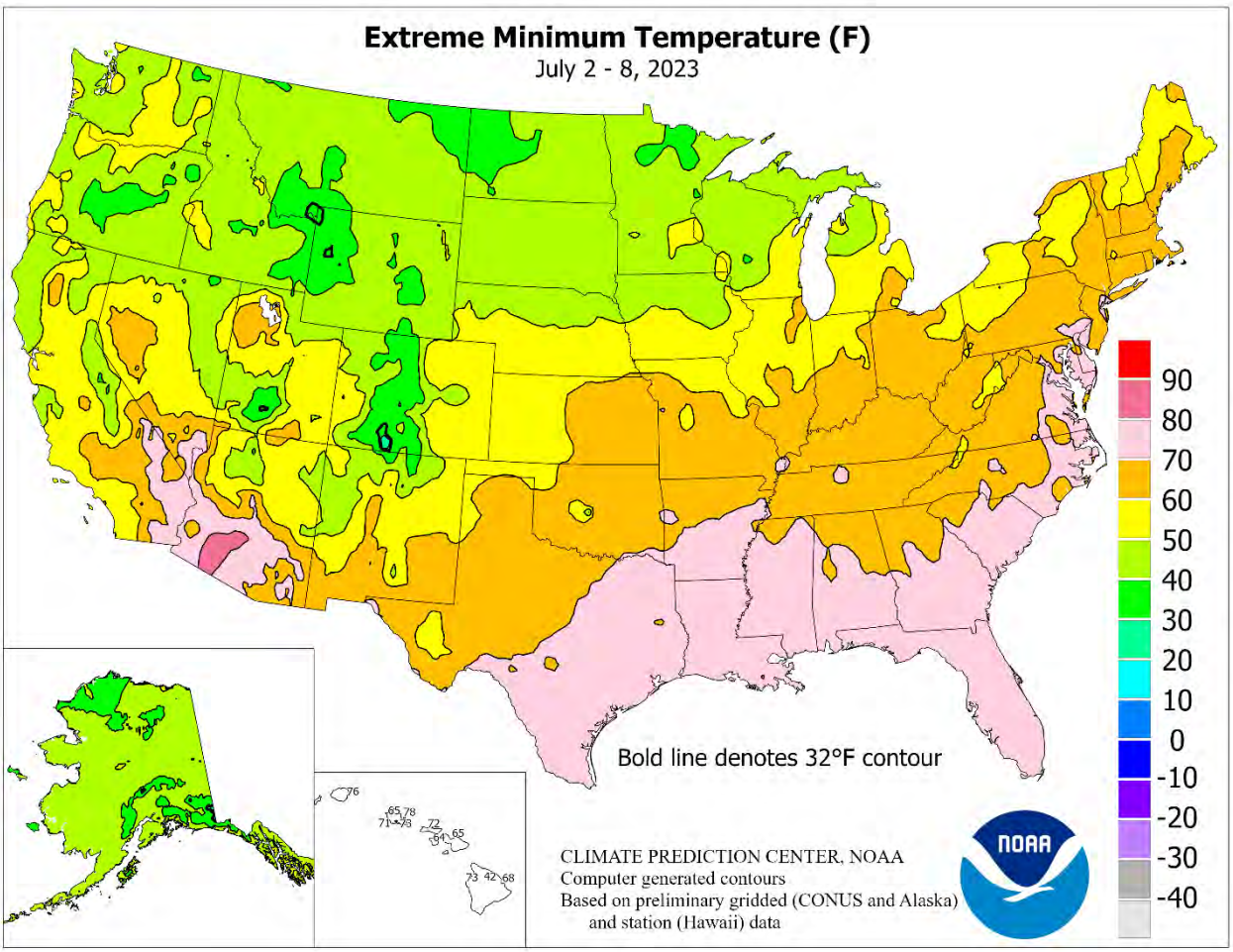
*Highlights provided by USDA/WAOB*

Variable showers **east of the Rockies** benefited summer crops, some of which were progressing through the heat- and moisture-sensitive reproductive stage of development. However, some areas—including much of **Texas** and parts of the **upper Midwest**—received little or no rain. However, heavy rain across portions of the **central Plains**, **central Corn Belt**, and **Northeast** benefited corn, soybeans, and other summer crops. Parts of the **South** also received meaningful rain, providing some relief during a string of hot, humid days. In contrast, dry weather—

*(Continued on page 3)*

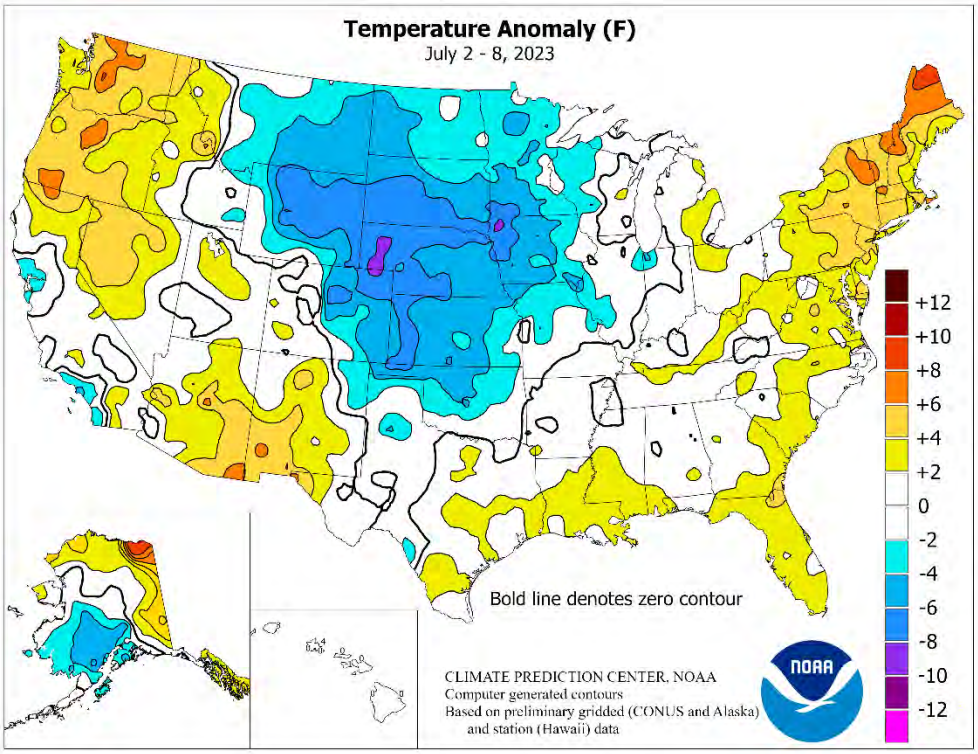
**Contents**


Extreme Maximum Temperature (F)
July 2 - 8, 2023
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
Bold line denotes 95°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS and Alaska)
and station (Hawaii) data
NOAA


Extreme Minimum Temperature (F)
July 2 - 8, 2023
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
Bold line denotes 32°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS and Alaska)
and station (Hawaii) data
NOAA

*(Continued from front cover)*

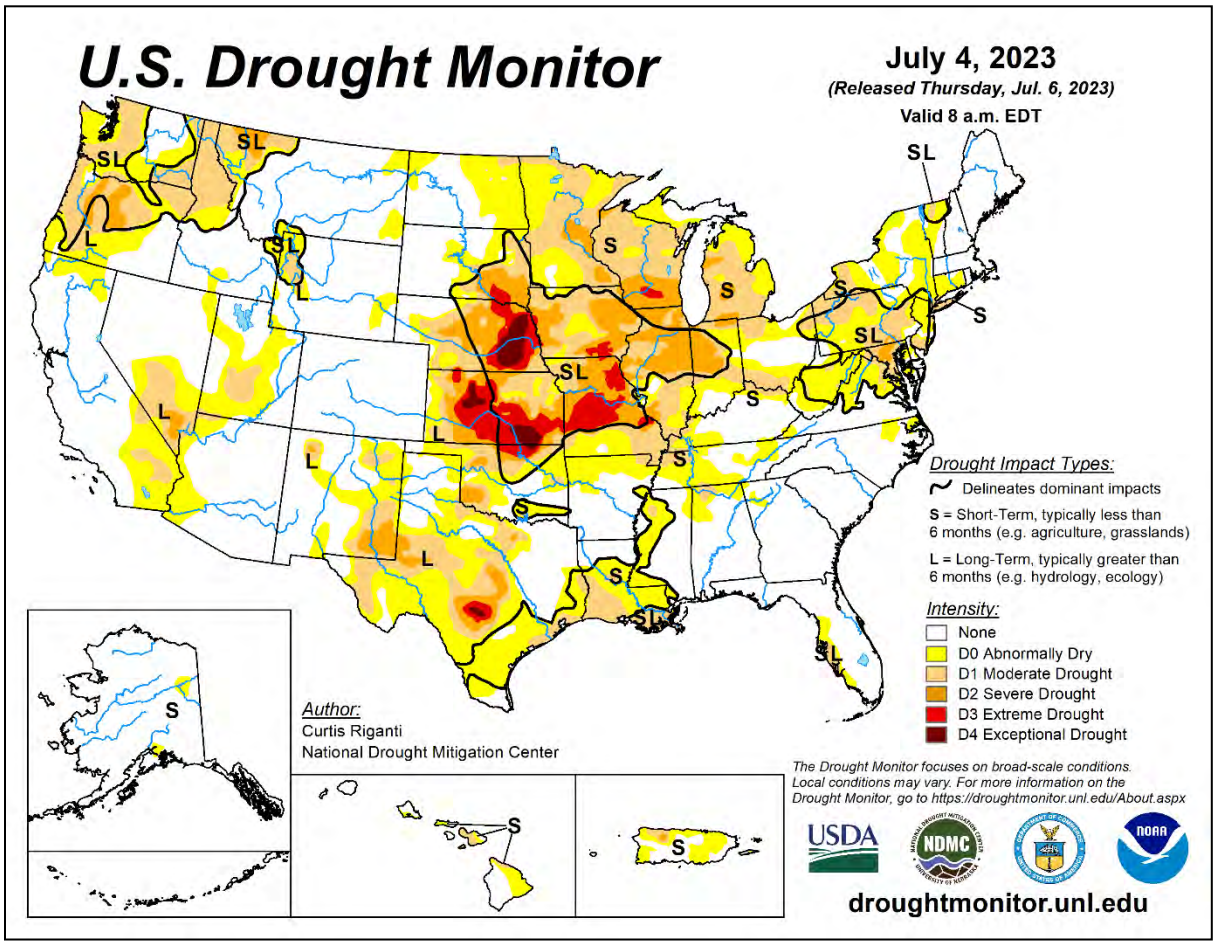
accompanied by locally elevated temperatures—prevailed in much of the **West**. Across the **interior Northwest**, hot, dry weather stressed some spring-sown crops. Meanwhile, late-week heat in the **Southwest** signaled a slightly delayed monsoon arrival, following last year's unusually early onset. During the first full week of July, hot weather dominated the **western, eastern, and southern U.S.** Weekly temperatures averaged more than 5°F above normal in several areas, including the **Northeast** and the **Pacific Northwest**. In **southeastern Arizona**, **southwestern New Mexico**, and **western Texas**, pre-monsoon heat led to temperatures averaging at least 5°F above normal. Conversely, readings averaged 5°F or more below normal across large sections of the **northern and central Plains** and the **western Corn Belt**.

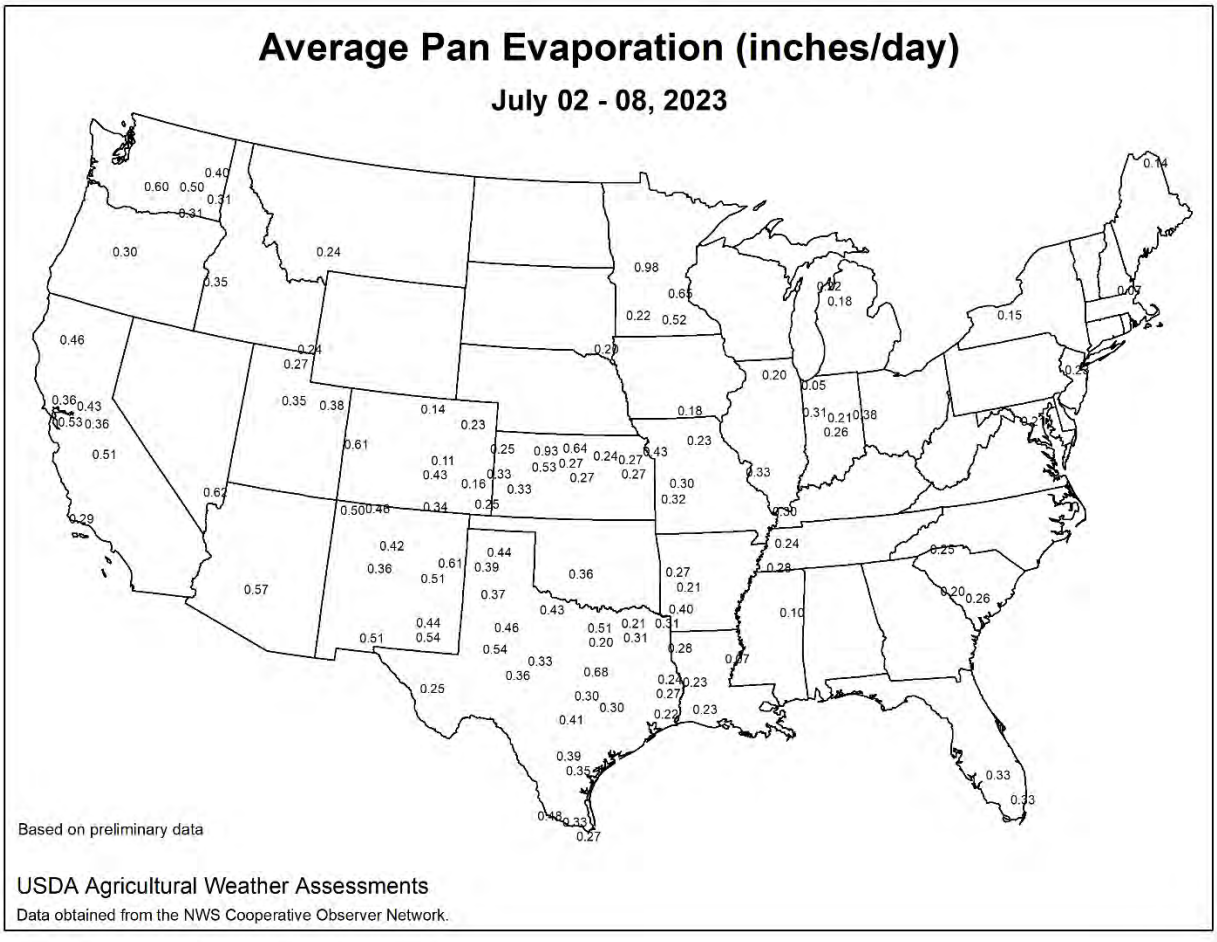


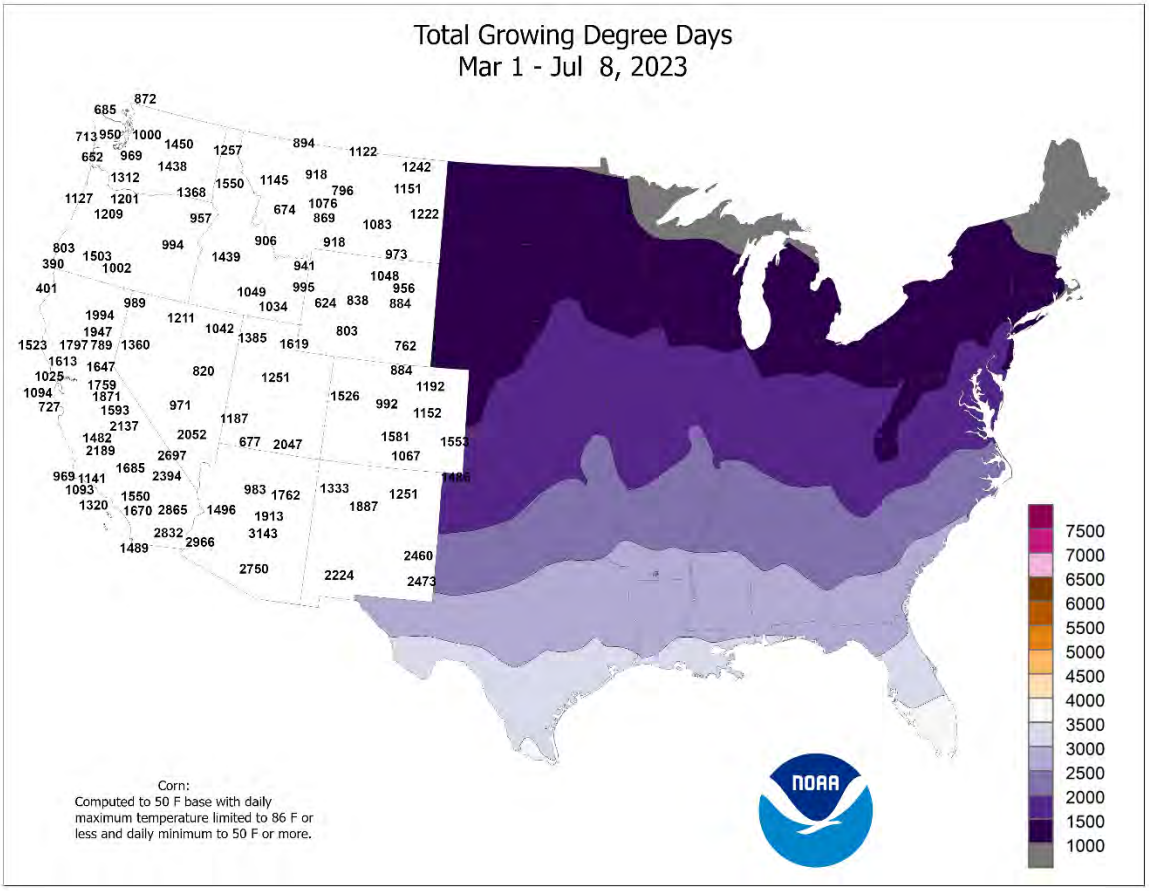

In early July, showers of varying intensity peppered the **Midwest**. In **Illinois**, some of the heaviest rain fell in **Chicago**, where daily-record totals included 4.68 inches at **Midway Airport** and 3.35 inches at **O'Hare Airport**. Heavy rain also soaked the **Northeast** on July 2, when daily-record amounts reached 3.30 inches in **Hartford, CT**, and 2.24 inches in **Worcester, MA**. By Independence Day, July 4, showers lingered in the **South** and **East**, while a new area of significant precipitation developed across the **north-central U.S.** It was the wettest Fourth of July on record in several communities, including **Hattiesburg, MS** (2.33 inches); **Mitchell, SD** (1.41 inches); and **Buffalo, WY** (1.23 inches). Soon, rain expanded to other parts of the **central and eastern U.S.**, with daily-record totals reaching or exceeding the 2-inch mark in locations such as **Monticello, AR** (2.90 inches on July 6); **Reading, PA** (2.39 inches on July 7); **Houston, TX** (2.18 inches on July 6); and **Wichita, KS** (2.00 inches on July 5). Some thunderstorms contained high winds and large hail, with some of the most notable severe weather occurring on July 2 in the **middle Atlantic and Southeastern States**; several tornadoes were observed as far north as **Pennsylvania**.

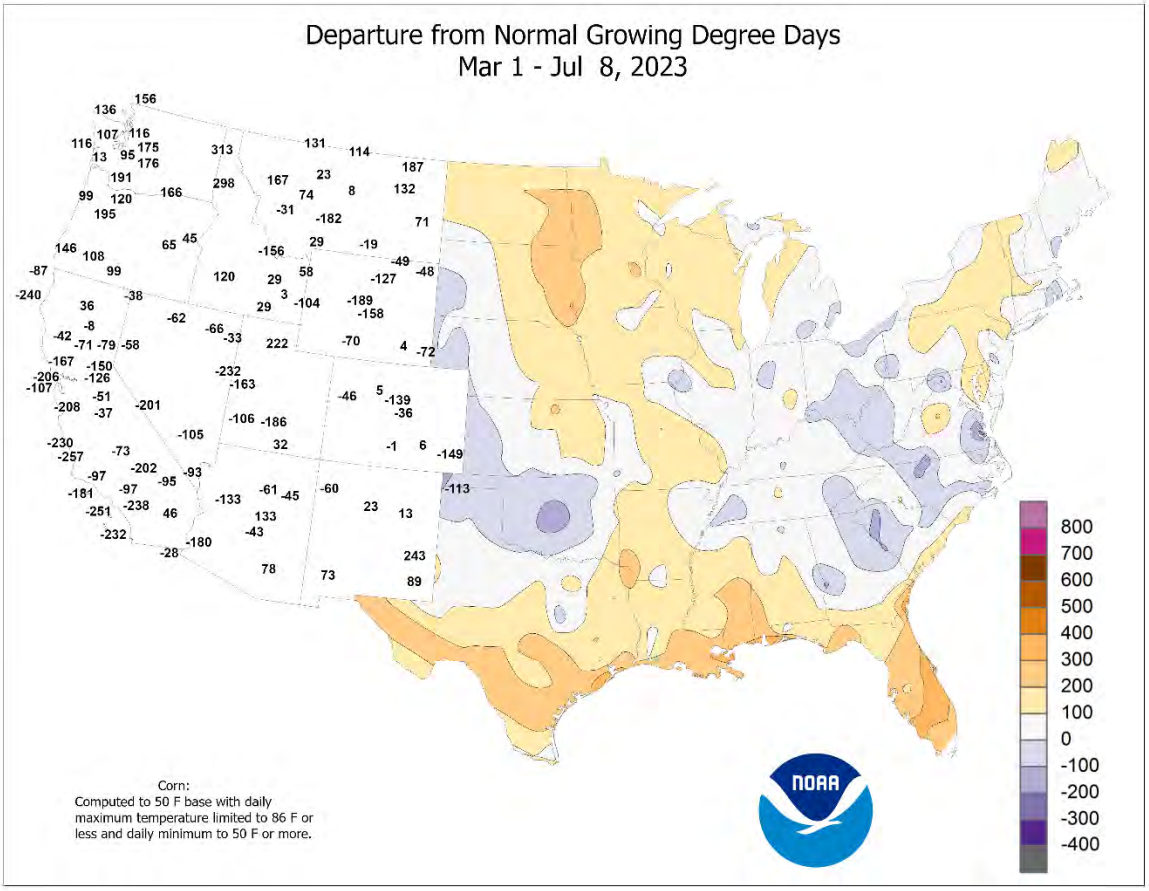
Early-week heat was focused across the **West** and **Deep South**. **Western** daily-record highs for July 2 reached 111°F in **Kingman, AZ**, and 109°F in **downtown Sacramento, CA**. Meanwhile, daily records across the **nation's southern tier** included 95°F (on July 2) in **Key West, FL**, and 99°F (on July 3) in **Corpus Christi, TX**. **Florida's** heat further intensified by July 4, as it became the hottest Independence Day on record in **Brooksville** (99°F, tying 1927); **Tampa** (97°F); and **Naples** (96°F, tying 1998). Heat also expanded in the **West**, with records for July 4 being set in **Eugene, OR** (98°F), and **Quillayute, WA** (93°F). **Pacific Northwestern** heat generally peaked on July 5, when daily-record highs in **Oregon** rose to 99°F in **Eugene** and 98°F in **Portland**. On the other side of the **northern Rockies**, however, cool air spread southward. By July 5, **Miles City, MT**, reported a daily-record low of 46°F. July 6 featured a slew of daily-record lows, including 35°F in **Hibbing, MN**; 44°F in **Sisseton, SD**; and 45°F in **Valentine, NE**. Later, additional records across the **nation's mid-section** dipped to 47°F (on July 7) in **Cedar Rapids, IA**, and 53°F (on July 8) in **Garden City, KS**. In contrast, portions of the **West**, **South**, and **East** continued to experience hot weather. In the **Northeast**, temperatures topped the 90-degree mark from July 5-7 as far north as **Maine**, where **Caribou** (91°F) registered a daily-record high on the 6th. **Eastern** heat was particularly persistent in **southern Florida**, where **Miami** tallied a trio of daily-record highs (95, 97, and 96°F) from July 6-8. In the **Florida Keys**, **Marathon** closed the week with five consecutive daily-record highs (95, 96, 95, 96, and 97°F) from July 4-8. Elsewhere, late-week heat also affected in parts of the **Southwest**, where daily-record highs surged to 110°F (on July 6) in **Tucson, AZ**, and 109°F (on July 7) in **El Paso, TX**.

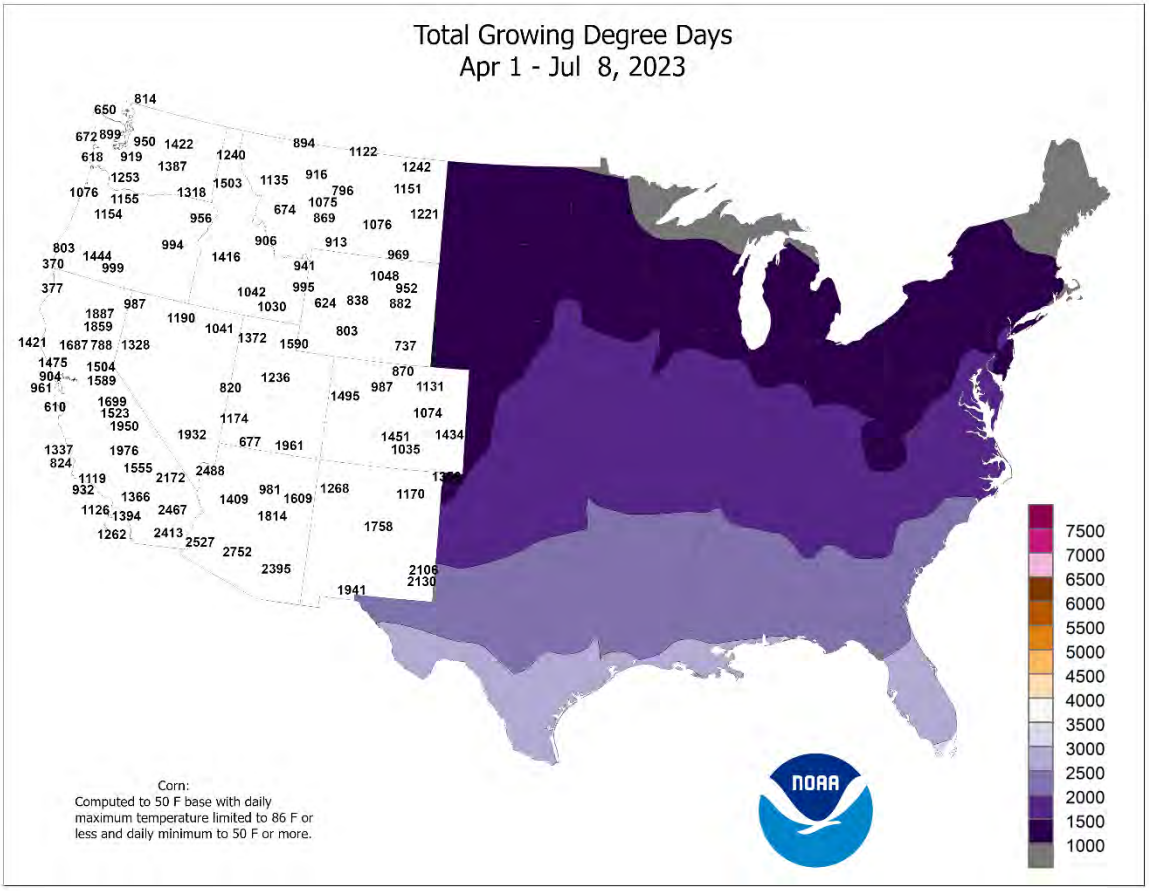
Warmth developed across **northern and eastern Alaska**, boosting weekly temperatures more than 5°F above normal in some locations. Late-week temperatures approached or reached the 90-degree mark near the **Canadian border**, with July 7 highs climbing to 89°F in **Tok** and 88°F in **Northway**. Meanwhile, chilly conditions lingered across **south-central Alaska**, where readings locally averaged at least 5°F below normal. **Anchorage** posted a daily record-tying low of 47°F on July 8. Elsewhere, mostly dry weather prevailed in **southeastern Alaska**, while occasional showers dotted the **Aleutians** and the **mainland**. During the first 8 days of July, rainfall in **Anchorage** totaled 1.02 inches, aided by a daily-record sum (0.34 inch) on July 6. Month-to-date rainfall through the 8th also topped an inch in **Bethel** (1.03 inches), **Cold Bay** (1.03 inches), and **Kodiak** (2.11 inches). In contrast, **Ketchikan**—in **southeastern Alaska**—received no measurable rain from July 1-8. Farther south, most of **Hawaii** continued to receive below-average rainfall. Through July 8, month-to-date rainfall at the state's major airport observation sites ranged from 0.01 inch (8 percent of normal) in **Honolulu, Oahu**, to 0.70 inch (32 percent) in **Hilo**, on the **Big Island**. Additionally, **Lihue, Kauai**, posted daily record-tying highs of 87°F on July 3, 5, and 8.

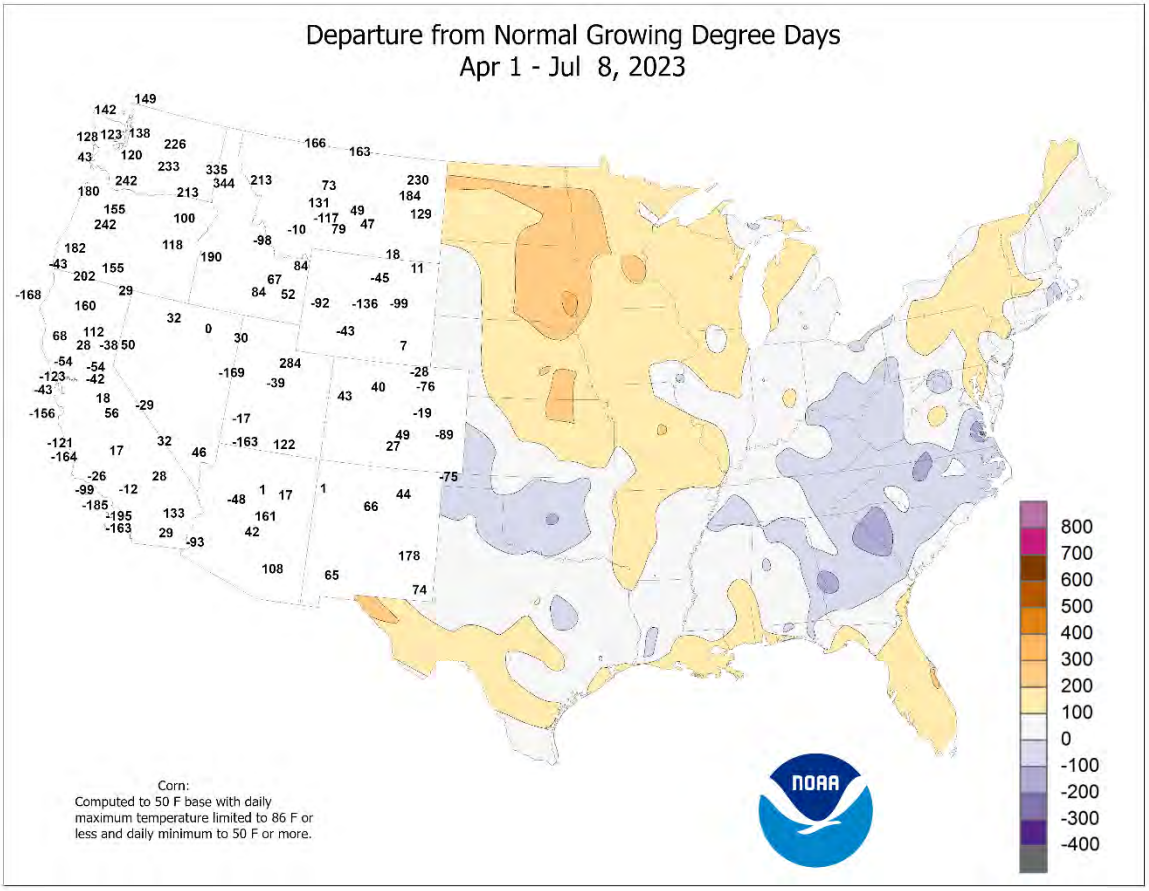

U.S. Drought Monitor
July 4, 2023
(Released Thursday, Jul. 6, 2023)
Valid 8 a.m. EDT
Drought Impact Types:
Delineates dominant impacts
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)
Intensity:
None
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought
Author:
Curtis Riganti
National Drought Mitigation Center
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx
droughtmonitor.unl.edu


Average Pan Evaporation (inches/day)
July 02 - 08, 2023
Based on preliminary data
USDA Agricultural Weather Assessments
Data obtained from the NWS Cooperative Observer Network.


Total Growing Degree Days
Mar 1 - Jul 8, 2023
Corn:
Computed to 50 F base with daily maximum temperature limited to 86 F or less and daily minimum to 50 F or more.
NOAA
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000


Departure from Normal Growing Degree Days
Mar 1 - Jul 8, 2023
Corn:
Computed to 50 F base with daily maximum temperature limited to 86 F or less and daily minimum to 50 F or more.
NOAA
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400


Total Growing Degree Days
Apr 1 - Jul 8, 2023
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
NOAA
Corn:
Computed to 50 F base with daily maximum temperature limited to 86 F or less and daily minimum to 50 F or more.


Departure from Normal Growing Degree Days
Apr 1 - Jul 8, 2023
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400
NOAA
Corn:
Computed to 50 F base with daily maximum temperature limited to 86 F or less and daily minimum to 50 F or more.

# National Weather Data for Selected Cities

## Weather Data for the Week Ending July 8, 2023

**Data Provided by Climate Prediction Center**

| STATES AND STATIONS | | TEMPERATURE ˚F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY PERCENT | | NUMBER OF DAYS TEMP. ˚F | | NUMBER OF DAYS PRECIP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 JUN 1 | PCT. NORMAL SINCE JUN 1 | TOTAL, IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| AK | ANCHORAGE | 60 | 50 | 61 | 48 | 55 | -4 | 1.02 | 0.69 | 0.33 | 2.77 | 198 | 7.52 | 157 | 95 | 67 | 0 | 0 | 7 | 0 |
| | BARROW | 52 | 37 | 65 | 35 | 45 | 0 | 0.84 | 0.67 | 0.43 | 1.84 | 295 | 4.40 | 271 | 96 | 77 | 0 | 0 | 4 | 0 |
| | FAIRBANKS | 74 | 55 | 82 | 49 | 65 | 1 | 0.32 | -0.15 | 0.30 | 1.96 | 97 | 4.74 | 107 | 83 | 36 | 0 | 0 | 2 | 0 |
| | JUNEAU | 71 | 51 | 85 | 48 | 61 | 5 | 0.03 | -1.02 | 0.03 | 4.52 | 90 | 27.08 | 104 | 92 | 47 | 0 | 0 | 1 | 0 |
| | KODIAK | 56 | 47 | 66 | 42 | 52 | -3 | 1.98 | 1.00 | 1.37 | 9.17 | 145 | 34.20 | 90 | 95 | 73 | 0 | 0 | 5 | 1 |
| | NOME | 58 | 50 | 64 | 49 | 54 | 1 | 0.62 | 0.23 | 0.41 | 1.39 | 97 | 7.36 | 128 | 93 | 66 | 0 | 0 | 4 | 0 |
| AL | BIRMINGHAM | 92 | 73 | 97 | 71 | 83 | 2 | 1.28 | 0.04 | 0.94 | 2.66 | 42 | 28.93 | 90 | 90 | 54 | 6 | 0 | 5 | 1 |
| | HUNTSVILLE | 90 | 72 | 92 | 70 | 81 | 0 | 0.42 | -0.74 | 0.29 | 4.30 | 79 | 26.11 | 85 | 99 | 60 | 4 | 0 | 5 | 0 |
| | MOBILE | 94 | 75 | 96 | 73 | 85 | 3 | 0.65 | -1.07 | 0.27 | 7.74 | 91 | 32.70 | 93 | 89 | 50 | 7 | 0 | 3 | 0 |
| | MONTGOMERY | 93 | 73 | 98 | 72 | 83 | 1 | 2.33 | 1.15 | 1.22 | 7.04 | 129 | 27.95 | 99 | 95 | 57 | 7 | 0 | 4 | 2 |
| AR | FORT SMITH | 92 | 73 | 97 | 71 | 82 | 0 | 0.97 | 0.08 | 0.40 | 3.76 | 67 | 22.39 | 87 | 87 | 49 | 6 | 0 | 3 | 0 |
| | LITTLE ROCK | 92 | 74 | 98 | 73 | 83 | 3 | 1.07 | 0.26 | 0.56 | 5.56 | 124 | 39.07 | 141 | 90 | 52 | 6 | 0 | 4 | 1 |
| AZ | FLAGSTAFF | 87 | 49 | 90 | 46 | 68 | 2 | 0.00 | -0.33 | 0.00 | 0.43 | 63 | 17.81 | 211 | 47 | 16 | 2 | 0 | 0 | 0 |
| | PHOENIX | 114 | 87 | 116 | 85 | 100 | 5 | 0.00 | -0.12 | 0.00 | 0.00 | 0 | 2.81 | 91 | 22 | 6 | 7 | 0 | 0 | 0 |
| | PRESCOTT | 94 | 60 | 99 | 57 | 77 | 1 | 0.00 | -0.30 | 0.00 | 0.00 | 0 | 5.92 | 117 | 38 | 11 | 7 | 0 | 0 | 0 |
| | TUCSON | 109 | 78 | 110 | 74 | 94 | 5 | 0.00 | -0.35 | 0.00 | 0.00 | 0 | 3.49 | 105 | 26 | 10 | 7 | 0 | 0 | 0 |
| CA | BAKERSFIELD | 99 | 72 | 107 | 66 | 85 | 2 | 0.00 | 0.00 | 0.00 | 0.35 | 733 | 7.17 | 162 | 64 | 16 | 7 | 0 | 0 | 0 |
| | EUREKA | 60 | 53 | 63 | 49 | 56 | -1 | 0.01 | -0.04 | 0.01 | 0.11 | 13 | 20.90 | 86 | 91 | 79 | 0 | 0 | 1 | 0 |
| | FRESNO | 98 | 69 | 108 | 62 | 84 | 1 | 0.00 | -0.01 | 0.00 | 0.00 | 0 | 12.44 | 161 | 58 | 17 | 7 | 0 | 0 | 0 |
| | LOS ANGELES | 69 | 59 | 71 | 58 | 64 | -5 | 0.00 | -0.01 | 0.00 | 0.01 | 14 | 19.07 | 223 | 94 | 67 | 0 | 0 | 0 | 0 |
| | REDDING | 101 | 70 | 110 | 67 | 85 | 3 | 0.00 | -0.03 | 0.00 | 0.14 | 17 | 28.26 | 133 | 62 | 19 | 7 | 0 | 0 | 0 |
| | SACRAMENTO | 88 | 59 | 105 | 54 | 73 | -2 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 13.29 | 110 | 79 | 32 | 2 | 0 | 0 | 0 |
| | SAN DIEGO | 70 | 62 | 72 | 61 | 66 | -3 | 0.00 | -0.02 | 0.00 | 0.03 | 50 | 11.05 | 166 | 86 | 65 | 0 | 0 | 0 | 0 |
| | SAN FRANCISCO | 70 | 57 | 80 | 55 | 64 | 0 | 0.00 | 0.00 | 0.00 | 0.01 | 8 | 19.90 | 158 | 84 | 55 | 0 | 0 | 0 | 0 |
| | STOCKTON | 92 | 60 | 105 | 56 | 76 | -2 | 0.00 | 0.00 | 0.00 | 0.00 | 0 | 13.27 | 149 | 76 | 26 | 3 | 0 | 0 | 0 |
| CO | ALAMOSA | 87 | 45 | 90 | 39 | 66 | 1 | 0.00 | -0.19 | 0.00 | 0.16 | 25 | 2.12 | 72 | 79 | 12 | 1 | 0 | 0 | 0 |
| | CO SPRINGS | 78 | 56 | 89 | 53 | 67 | -5 | 2.02 | 1.43 | 1.24 | 11.58 | 394 | 19.24 | 247 | 85 | 44 | 0 | 0 | 6 | 1 |
| | DENVER INTL | 79 | 56 | 86 | 54 | 68 | -6 | 0.93 | 0.52 | 0.63 | 6.89 | 286 | 15.07 | 191 | 90 | 47 | 0 | 0 | 6 | 1 |
| | GRAND JUNCTION | 97 | 64 | 99 | 60 | 81 | 2 | 0.00 | -0.11 | 0.00 | 0.27 | 51 | 4.28 | 100 | 41 | 9 | 7 | 0 | 0 | 0 |
| | PUEBLO | 90 | 59 | 98 | 53 | 74 | -2 | 0.22 | -0.13 | 0.20 | 3.69 | 219 | 7.85 | 125 | 84 | 33 | 3 | 0 | 3 | 0 |
| CT | BRIDGEPORT | 84 | 71 | 88 | 69 | 77 | 3 | 2.72 | 2.07 | 1.43 | 4.24 | 93 | 20.76 | 91 | 97 | 64 | 0 | 0 | 3 | 2 |
| | HARTFORD | 87 | 70 | 93 | 63 | 78 | 5 | 5.34 | 4.50 | 3.46 | 6.62 | 126 | 27.19 | 117 | 96 | 59 | 4 | 0 | 4 | 3 |
| DC | WASHINGTON | 91 | 74 | 93 | 72 | 83 | 2 | 2.43 | 1.42 | 0.91 | 4.76 | 88 | 14.83 | 68 | 90 | 54 | 6 | 0 | 4 | 3 |
| DE | WILMINGTON | 90 | 74 | 92 | 71 | 82 | 5 | 2.35 | 1.43 | 2.05 | 14.13 | 246 | 25.03 | 108 | 92 | 55 | 4 | 0 | 4 | 1 |
| FL | DAYTONA BEACH | 92 | 75 | 95 | 73 | 84 | 2 | 2.13 | 0.66 | 0.91 | 8.30 | 96 | 21.13 | 90 | 93 | 57 | 6 | 0 | 4 | 3 |
| | JACKSONVILLE | 96 | 75 | 98 | 74 | 86 | 3 | 2.28 | 0.68 | 2.02 | 8.00 | 84 | 21.75 | 86 | 92 | 49 | 7 | 0 | 2 | 1 |
| | KEY WEST | 92 | 84 | 96 | 83 | 88 | 3 | 0.00 | -0.80 | 0.00 | 2.60 | 50 | 6.79 | 44 | 79 | 62 | 7 | 0 | 0 | 0 |
| | MIAMI | 95 | 79 | 97 | 76 | 87 | 3 | 4.32 | 2.48 | 3.28 | 12.48 | 98 | 34.58 | 120 | 91 | 55 | 7 | 0 | 6 | 2 |
| | ORLANDO | 94 | 77 | 98 | 74 | 85 | 3 | 1.09 | -0.57 | 0.54 | 8.15 | 82 | 16.52 | 68 | 95 | 52 | 6 | 0 | 5 | 1 |
| | PENSACOLA | 94 | 79 | 95 | 77 | 87 | 3 | 0.76 | -0.96 | 0.36 | 14.55 | 156 | 35.42 | 104 | 83 | 52 | 7 | 0 | 6 | 0 |
| | TALLAHASSEE | 96 | 75 | 98 | 74 | 86 | 3 | 0.61 | -1.03 | 0.26 | 6.69 | 69 | 26.76 | 87 | 95 | 47 | 7 | 0 | 4 | 0 |
| | TAMPA | 94 | 80 | 97 | 79 | 87 | 3 | 0.68 | -1.17 | 0.32 | 4.89 | 51 | 12.25 | 54 | 83 | 55 | 6 | 0 | 4 | 0 |
| | WEST PALM BEACH | 93 | 78 | 100 | 75 | 85 | 2 | 0.37 | -1.01 | 0.29 | 11.57 | 114 | 29.61 | 105 | 93 | 59 | 6 | 0 | 4 | 0 |
| GA | ATHENS | 90 | 70 | 93 | 68 | 80 | -1 | 1.01 | -0.02 | 0.62 | 10.08 | 166 | 35.25 | 135 | 98 | 56 | 5 | 0 | 3 | 1 |
| | ATLANTA | 91 | 73 | 93 | 72 | 82 | 2 | 0.60 | -0.59 | 0.59 | 4.94 | 83 | 25.66 | 94 | 90 | 52 | 5 | 0 | 2 | 1 |
| | AUGUSTA | 94 | 72 | 96 | 70 | 83 | 1 | 1.33 | 0.33 | 1.20 | 7.04 | 119 | 32.96 | 140 | 98 | 48 | 7 | 0 | 4 | 1 |
| | COLUMBUS | 92 | 73 | 95 | 73 | 83 | 0 | 3.55 | 2.57 | 2.72 | 11.91 | 231 | 32.98 | 126 | 96 | 54 | 7 | 0 | 3 | 2 |
| | MACON | 94 | 73 | 98 | 71 | 83 | 1 | 0.71 | -0.46 | 0.35 | 6.74 | 116 | 29.85 | 120 | 98 | 53 | 7 | 0 | 3 | 0 |
| | SAVANNAH | 95 | 76 | 97 | 75 | 85 | 3 | 0.40 | -0.91 | 0.39 | 7.20 | 88 | 24.84 | 100 | 88 | 45 | 7 | 0 | 2 | 0 |
| HI | HILO | 83 | 70 | 85 | 68 | 76 | 0 | 0.57 | -1.33 | 0.20 | 5.08 | 53 | 65.39 | 115 | 93 | 62 | 0 | 0 | 6 | 0 |
| | HONOLULU | 88 | 75 | 89 | 73 | 81 | 0 | 0.00 | -0.12 | 0.00 | 0.39 | 62 | 9.47 | 113 | 80 | 51 | 0 | 0 | 0 | 0 |
| | KAHULUI | 89 | 72 | 94 | 65 | 80 | 0 | 0.14 | 0.05 | 0.10 | 0.26 | 95 | 9.07 | 96 | 83 | 47 | 2 | 0 | 3 | 0 |
| | LIHUE | 87 | 78 | 87 | 76 | 82 | 3 | 0.21 | -0.16 | 0.09 | 1.25 | 56 | 29.57 | 160 | 78 | 57 | 0 | 0 | 6 | 0 |
| IA | BURLINGTON | 82 | 63 | 89 | 56 | 73 | -3 | 2.66 | 1.63 | 1.23 | 7.97 | 131 | 18.72 | 91 | 97 | 55 | 0 | 0 | 4 | 2 |
| | CEDAR RAPIDS | 83 | 60 | 90 | 47 | 71 | -1 | 0.10 | -1.00 | 0.10 | 2.41 | 35 | 9.69 | 51 | 91 | 44 | 1 | 0 | 1 | 0 |
| | DES MOINES | 82 | 63 | 92 | 55 | 73 | -3 | 0.09 | -0.87 | 0.09 | 3.35 | 52 | 14.17 | 70 | 85 | 44 | 1 | 0 | 1 | 0 |
| | DUBUQUE | 82 | 62 | 88 | 51 | 72 | 0 | 0.39 | -0.67 | 0.31 | 2.59 | 40 | 13.27 | 66 | 91 | 49 | 0 | 0 | 3 | 0 |
| | SIOUX CITY | 82 | 56 | 96 | 49 | 69 | -5 | 1.80 | 0.96 | 1.16 | 3.59 | 67 | 13.04 | 83 | 99 | 48 | 2 | 0 | 2 | 2 |
| | WATERLOO | 83 | 59 | 90 | 48 | 71 | -4 | 0.31 | -0.79 | 0.24 | 3.99 | 57 | 12.79 | 64 | 90 | 46 | 1 | 0 | 3 | 0 |
| ID | BOISE | 94 | 62 | 98 | 56 | 78 | 4 | 0.00 | -0.06 | 0.00 | 0.25 | 30 | 5.18 | 71 | 45 | 12 | 6 | 0 | 0 | 0 |
| | LEWISTON | 94 | 61 | 99 | 54 | 78 | 5 | 0.00 | -0.14 | 0.00 | 1.01 | 71 | 4.41 | 55 | 47 | 14 | 7 | 0 | 0 | 0 |
| | POCATELLO | 87 | 47 | 92 | 41 | 67 | -1 | 0.00 | -0.11 | 0.00 | 0.38 | 35 | 6.62 | 95 | 85 | 17 | 1 | 0 | 0 | 0 |
| IL | CHICAGO/O_HARE | 83 | 66 | 92 | 63 | 75 | 0 | 3.93 | 3.17 | 3.33 | 6.74 | 135 | 19.44 | 99 | 87 | 50 | 2 | 0 | 4 | 1 |
| | MOLINE | 87 | 65 | 94 | 55 | 76 | 1 | 0.54 | -0.53 | 0.33 | 2.61 | 41 | 13.29 | 63 | 87 | 43 | 3 | 0 | 3 | 0 |
| | PEORIA | 84 | 66 | 91 | 60 | 75 | -1 | 2.15 | 1.31 | 0.97 | 4.31 | 91 | 17.25 | 85 | 99 | 51 | 3 | 0 | 4 | 1 |
| | ROCKFORD | 84 | 62 | 90 | 57 | 73 | -1 | 0.50 | -0.37 | 0.41 | 2.39 | 38 | 15.94 | 80 | 95 | 48 | 1 | 0 | 3 | 0 |
| | SPRINGFIELD | 84 | 64 | 90 | 60 | 74 | -2 | 1.73 | 0.81 | 1.12 | 4.97 | 87 | 17.54 | 84 | 98 | 60 | 1 | 0 | 4 | 1 |
| IN | EVANSVILLE | 90 | 71 | 91 | 68 | 80 | 1 | 0.37 | -0.72 | 0.37 | 4.52 | 79 | 27.64 | 101 | 92 | 51 | 4 | 0 | 1 | 0 |
| | FORT WAYNE | 86 | 65 | 91 | 62 | 75 | 1 | 1.39 | 0.44 | 0.86 | 2.93 | 52 | 19.76 | 92 | 93 | 51 | 2 | 0 | 3 | 1 |
| | INDIANAPOLIS | 86 | 67 | 90 | 65 | 77 | 1 | 2.59 | 1.49 | 1.57 | 4.85 | 78 | 22.25 | 90 | 93 | 51 | 2 | 0 | 4 | 2 |
| | SOUTH BEND | 83 | 63 | 91 | 57 | 73 | 0 | 1.26 | 0.43 | 0.59 | 3.42 | 68 | 19.52 | 97 | 95 | 54 | 2 | 0 | 3 | 1 |
| KS | CONCORDIA | 85 | 64 | 97 | 61 | 74 | -4 | 0.36 | -0.58 | 0.34 | 4.53 | 92 | 11.59 | 78 | 90 | 50 | 2 | 0 | 2 | 0 |
| | DODGE CITY | 85 | 64 | 97 | 59 | 74 | -5 | 2.35 | 1.64 | 0.85 | 8.32 | 202 | 13.23 | 113 | 92 | 48 | 3 | 0 | 5 | 3 |
| | GOODLAND | 81 | 58 | 91 | 53 | 69 | -6 | 2.21 | 1.57 | 1.05 | 7.71 | 208 | 13.63 | 137 | 95 | 49 | 1 | 0 | 5 | 2 |
| | TOPEKA | 88 | 66 | 98 | 64 | 77 | -2 | 0.40 | -0.54 | 0.40 | 2.22 | 37 | 12.38 | 63 | 90 | 46 | 3 | 0 | 1 | 0 |

**Based on 1991-2020 normals** ***** Not Available**

## Weather Data for the Week Ending July 8, 2023

| STATES AND STATIONS | | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY PERCENT | | NUMBER OF DAYS TEMP. °F | | NUMBER OF DAYS PRECIP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 JUN 1 | PCT. NORMAL SINCE JUN 1 | TOTAL, IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| | WICHITA | 86 | 66 | 98 | 63 | 76 | -5 | 3.42 | 2.47 | 2.00 | 8.16 | 135 | 14.44 | 77 | 92 | 52 | 3 | 0 | 4 | 3 |
| KY | LEXINGTON | 88 | 69 | 91 | 66 | 78 | 2 | 1.46 | 0.35 | 1.24 | 9.34 | 149 | 28.50 | 103 | 88 | 51 | 1 | 0 | 3 | 1 |
| | LOUISVILLE | 89 | 73 | 91 | 71 | 81 | 1 | 1.93 | 1.01 | 1.10 | 6.59 | 123 | 27.73 | 103 | 87 | 50 | 2 | 0 | 3 | 2 |
| | PADUCAH | 91 | 71 | 93 | 69 | 81 | 1 | 0.71 | -0.31 | 0.63 | 2.06 | 36 | 29.53 | 104 | 93 | 49 | 7 | 0 | 2 | 1 |
| LA | BATON ROUGE | 96 | 78 | 98 | 77 | 87 | 5 | 0.16 | -1.18 | 0.15 | 3.70 | 46 | 30.61 | 91 | 90 | 49 | 7 | 0 | 2 | 0 |
| | LAKE CHARLES | 93 | 76 | 95 | 75 | 85 | 1 | 2.16 | 0.78 | 1.54 | 4.54 | 56 | 28.57 | 92 | 95 | 57 | 6 | 0 | 4 | 1 |
| | NEW ORLEANS | 94 | 79 | 96 | 77 | 86 | 3 | 0.32 | -1.35 | 0.30 | 1.87 | 19 | 16.03 | 47 | 88 | 53 | 6 | 0 | 2 | 0 |
| | SHREVEPORT | 93 | 75 | 93 | 73 | 84 | 1 | 0.00 | -0.95 | 0.00 | 0.00 | 0 | 0.00 | 0 | 93 | 53 | 7 | 0 | 0 | 0 |
| MA | BOSTON | 80 | 68 | 87 | 64 | 74 | 0 | 1.74 | 1.05 | 0.93 | 4.80 | 102 | 20.59 | 92 | 97 | 73 | 0 | 0 | 3 | 1 |
| | WORCESTER | 82 | 66 | 89 | 61 | 74 | 4 | 4.06 | 3.23 | 2.93 | 8.80 | 170 | 28.24 | 118 | 95 | 61 | 0 | 0 | 3 | 2 |
| MD | BALTIMORE | 92 | 73 | 93 | 72 | 82 | 4 | 1.42 | 0.51 | 0.63 | 5.69 | 113 | 15.60 | 70 | 93 | 51 | 7 | 0 | 5 | 1 |
| ME | CARIBOU | 85 | 64 | 91 | 61 | 74 | 8 | 0.70 | -0.34 | 0.61 | 3.90 | 76 | 16.36 | 83 | 97 | 57 | 2 | 0 | 4 | 1 |
| | PORTLAND | 78 | 64 | 86 | 61 | 71 | 2 | 2.30 | 1.50 | 1.80 | 7.84 | 155 | 28.74 | 118 | 99 | 73 | 0 | 0 | 3 | 1 |
| MI | ALPENA | 82 | 57 | 90 | 51 | 69 | 2 | 0.91 | 0.22 | 0.48 | 2.50 | 70 | 14.45 | 100 | 97 | 49 | 1 | 0 | 3 | 0 |
| | GRAND RAPIDS | 83 | 64 | 91 | 58 | 73 | 0 | 0.75 | -0.09 | 0.35 | 2.82 | 57 | 17.65 | 88 | 96 | 54 | 1 | 0 | 5 | 0 |
| | HOUGHTON LAKE | 82 | 55 | 90 | 45 | 68 | 1 | 1.10 | 0.51 | 0.54 | 3.51 | 124 | 12.77 | 112 | 100 | 49 | 2 | 0 | 5 | 1 |
| | LANSING | 85 | 64 | 92 | 58 | 74 | 3 | 0.82 | 0.14 | 0.31 | 2.36 | 52 | 16.46 | 94 | 91 | 51 | 2 | 0 | 5 | 0 |
| | MUSKEGON | 83 | 62 | 90 | 57 | 73 | 1 | 1.25 | 0.67 | 0.98 | 1.83 | 49 | 14.97 | 85 | 90 | 47 | 1 | 0 | 3 | 1 |
| | TRAVERSE CITY | 82 | 59 | 93 | 56 | 71 | 1 | 0.08 | -0.49 | 0.06 | 3.35 | 104 | 11.67 | 89 | 92 | 48 | 2 | 0 | 2 | 0 |
| MN | DULUTH | 75 | 54 | 86 | 48 | 65 | -1 | 0.14 | -0.91 | 0.13 | 4.21 | 75 | 15.67 | 105 | 91 | 50 | 0 | 0 | 2 | 0 |
| | INT_L FALLS | 75 | 48 | 84 | 37 | 61 | -3 | 0.35 | -0.74 | 0.19 | 3.14 | 62 | 11.69 | 95 | 93 | 45 | 0 | 0 | 4 | 0 |
| | MINNEAPOLIS | 82 | 63 | 95 | 56 | 73 | -2 | 0.55 | -0.45 | 0.55 | 1.46 | 25 | 12.65 | 79 | 81 | 38 | 2 | 0 | 1 | 1 |
| | ROCHESTER | 79 | 56 | 88 | 46 | 67 | -3 | 0.00 | -0.97 | 0.00 | 1.35 | 20 | 16.60 | 90 | 95 | 48 | 0 | 0 | 0 | 0 |
| | ST. CLOUD | 80 | 55 | 90 | 48 | 68 | -2 | 0.08 | -0.78 | 0.07 | 0.74 | 15 | 11.61 | 82 | 94 | 39 | 2 | 0 | 2 | 0 |
| MO | COLUMBIA | 88 | 67 | 98 | 62 | 78 | -1 | 0.08 | -0.95 | 0.06 | 3.48 | 64 | 14.66 | 65 | 86 | 43 | 3 | 0 | 2 | 0 |
| | KANSAS CITY | 83 | 64 | 94 | 62 | 74 | -4 | 0.94 | -0.23 | 0.93 | 3.61 | 54 | 17.82 | 85 | 97 | 51 | 2 | 0 | 2 | 1 |
| | SAINT LOUIS | 89 | 69 | 96 | 65 | 79 | -1 | 0.25 | -0.69 | 0.19 | 4.80 | 86 | 17.56 | 75 | 83 | 46 | 3 | 0 | 3 | 0 |
| | SPRINGFIELD | 88 | 67 | 93 | 66 | 78 | -1 | 0.09 | -0.81 | 0.09 | 2.10 | 38 | 22.83 | 94 | 92 | 48 | 3 | 0 | 1 | 0 |
| MS | JACKSON | 94 | 75 | 96 | 74 | 84 | 3 | 1.35 | 0.24 | 0.83 | 5.91 | 103 | 32.79 | 102 | 92 | 52 | 7 | 0 | 4 | 1 |
| | MERIDIAN | 93 | 73 | 96 | 71 | 83 | 1 | 1.88 | 0.70 | 0.66 | 10.37 | 172 | 41.79 | 129 | 96 | 59 | 7 | 0 | 5 | 2 |
| | TUPELO | 92 | 73 | 96 | 72 | 83 | 1 | 2.70 | 1.56 | 1.14 | 7.66 | 121 | 34.77 | 106 | 94 | 60 | 6 | 0 | 6 | 2 |
| MT | BILLINGS | 77 | 55 | 87 | 49 | 66 | -5 | 0.27 | -0.06 | 0.17 | 6.41 | 246 | 12.43 | 143 | 80 | 37 | 0 | 0 | 3 | 0 |
| | BUTTE | 76 | 43 | 82 | 39 | 59 | -2 | 0.07 | -0.22 | 0.07 | 4.98 | 178 | 10.43 | 136 | 87 | 24 | 0 | 0 | 1 | 0 |
| | CUT BANK | 76 | 46 | 82 | 45 | 61 | -1 | 0.39 | 0.02 | 0.39 | 2.05 | 64 | 4.71 | 71 | 87 | 26 | 0 | 0 | 1 | 0 |
| | GLASGOW | 81 | 53 | 90 | 46 | 67 | -3 | 0.12 | -0.39 | 0.12 | 2.48 | 72 | 9.80 | 124 | 78 | 28 | 1 | 0 | 1 | 0 |
| | GREAT FALLS | 78 | 47 | 83 | 42 | 63 | -2 | 0.42 | 0.07 | 0.42 | 3.82 | 122 | 11.69 | 128 | 85 | 29 | 0 | 0 | 1 | 0 |
| | HAVRE | 80 | 51 | 87 | 44 | 65 | -2 | 0.00 | -0.44 | 0.00 | 2.69 | 89 | 6.91 | 96 | 79 | 26 | 0 | 0 | 0 | 0 |
| | MISSOULA | 87 | 51 | 92 | 47 | 69 | 3 | 0.00 | -0.25 | 0.00 | 2.02 | 83 | 6.86 | 82 | 72 | 21 | 2 | 0 | 0 | 0 |
| NC | ASHEVILLE | 87 | 67 | 90 | 65 | 77 | 2 | 0.32 | -0.77 | 0.30 | 2.21 | 36 | 21.11 | 82 | 94 | 48 | 1 | 0 | 2 | 0 |
| | CHARLOTTE | 93 | 74 | 95 | 73 | 83 | 3 | 0.43 | -0.32 | 0.35 | 4.05 | 83 | 23.82 | 105 | 90 | 47 | 7 | 0 | 2 | 0 |
| | GREENSBORO | 90 | 71 | 92 | 69 | 81 | 2 | 0.16 | -0.67 | 0.16 | 3.29 | 65 | 23.80 | 107 | 92 | 49 | 4 | 0 | 1 | 0 |
| | HATTERAS | 81 | 72 | 82 | 68 | 76 | -5 | 0.69 | -0.33 | 0.51 | 6.40 | 115 | 21.62 | 78 | 100 | 90 | 0 | 0 | 3 | 1 |
| | RALEIGH | 94 | 74 | 96 | 70 | 84 | 4 | 0.51 | -0.46 | 0.39 | 2.78 | 55 | 21.66 | 97 | 92 | 51 | 7 | 0 | 3 | 0 |
| | WILMINGTON | 92 | 73 | 95 | 72 | 83 | 1 | 1.76 | 0.30 | 1.37 | 6.91 | 94 | 26.91 | 102 | 95 | 56 | 5 | 0 | 6 | 1 |
| ND | BISMARCK | 80 | 55 | 94 | 48 | 67 | -3 | 0.76 | 0.00 | 0.51 | 5.28 | 124 | 11.49 | 116 | 92 | 38 | 1 | 0 | 3 | 1 |
| | DICKINSON | 74 | 49 | 85 | 40 | 61 | -6 | 0.38 | -0.28 | 0.32 | 4.38 | 115 | 7.75 | 87 | 96 | 43 | 0 | 0 | 3 | 0 |
| | FARGO | 80 | 57 | 86 | 49 | 69 | -2 | 0.72 | -0.12 | 0.39 | 4.45 | 84 | 10.95 | 87 | 83 | 44 | 0 | 0 | 3 | 0 |
| | GRAND FORKS | 80 | 53 | 90 | 44 | 66 | -2 | 0.02 | -0.90 | 0.01 | 2.22 | 46 | 6.35 | 59 | 84 | 39 | 1 | 0 | 2 | 0 |
| | JAMESTOWN | 78 | 54 | 92 | 48 | 66 | -3 | 1.24 | 0.34 | 0.52 | 5.20 | 118 | 9.98 | 97 | 90 | 42 | 1 | 0 | 4 | 1 |
| NE | GRAND ISLAND | 83 | 61 | 94 | 57 | 72 | -4 | 0.75 | -0.03 | 0.75 | 2.91 | 59 | 7.43 | 49 | 88 | 44 | 2 | 0 | 1 | 1 |
| | LINCOLN | 82 | 62 | 94 | 57 | 72 | -5 | 0.98 | 0.15 | 0.98 | 6.51 | 119 | 10.43 | 64 | 90 | 52 | 2 | 0 | 1 | 1 |
| | NORFOLK | 81 | 58 | 91 | 50 | 70 | -5 | 1.94 | 1.15 | 1.23 | 5.36 | 101 | 9.50 | 64 | 90 | 49 | 1 | 0 | 2 | 2 |
| | NORTH PLATTE | 78 | 57 | 89 | 53 | 68 | -7 | 0.42 | -0.22 | 0.28 | 3.06 | 71 | 12.67 | 106 | 92 | 52 | 0 | 0 | 4 | 0 |
| | OMAHA | 82 | 61 | 92 | 55 | 72 | -6 | 0.94 | 0.11 | 0.80 | 5.04 | 93 | 12.30 | 73 | 94 | 47 | 2 | 0 | 3 | 1 |
| | SCOTTSBLUFF | 77 | 55 | 93 | 52 | 66 | -8 | 0.83 | 0.41 | 0.37 | 4.51 | 149 | 13.46 | 139 | 97 | 54 | 1 | 0 | 4 | 0 |
| | VALENTINE | 80 | 56 | 92 | 45 | 68 | -7 | 1.67 | 0.95 | 1.52 | 7.78 | 162 | 16.46 | 129 | 93 | 46 | 2 | 0 | 4 | 1 |
| NH | CONCORD | 84 | 64 | 92 | 60 | 74 | 3 | 0.65 | -0.12 | 0.43 | 4.59 | 98 | 18.64 | 91 | 100 | 60 | 3 | 0 | 3 | 0 |
| NJ | ATLANTIC_CITY | 88 | 70 | 93 | 67 | 79 | 3 | 0.05 | -0.88 | 0.04 | 2.59 | 55 | 18.12 | 80 | 95 | 56 | 1 | 0 | 2 | 0 |
| | NEWARK | 90 | 74 | 94 | 72 | 82 | 5 | 1.52 | 0.59 | 1.19 | 4.17 | 77 | 21.96 | 92 | 89 | 52 | 4 | 0 | 3 | 1 |
| NM | ALBUQUERQUE | 97 | 69 | 99 | 67 | 83 | 4 | 0.00 | -0.27 | 0.00 | 0.00 | 0 | 1.82 | 59 | 41 | 11 | 7 | 0 | 0 | 0 |
| NV | ELY | 87 | 48 | 91 | 47 | 67 | 0 | 0.00 | -0.11 | 0.00 | 0.98 | 143 | 6.85 | 127 | 83 | 51 | 2 | 0 | 0 | 0 |
| | LAS VEGAS | 105 | 83 | 111 | 78 | 94 | 1 | 0.00 | -0.07 | 0.00 | 0.20 | 170 | 1.65 | 76 | 16 | 5 | 7 | 0 | 0 | 0 |
| | RENO | 94 | 65 | 99 | 63 | 80 | 4 | 0.00 | -0.04 | 0.00 | 0.63 | 141 | 8.74 | 193 | 45 | 14 | 7 | 0 | 0 | 0 |
| | WINNEMUCCA | 96 | 56 | 100 | 50 | 76 | 4 | 0.00 | -0.04 | 0.00 | 0.33 | 61 | 5.00 | 110 | 47 | 11 | 7 | 0 | 0 | 0 |
| NY | ALBANY | 87 | 68 | 93 | 65 | 78 | 5 | 1.52 | 0.55 | 1.06 | 4.44 | 86 | 18.92 | 96 | 92 | 53 | 2 | 0 | 4 | 1 |
| | BINGHAMTON | 82 | 66 | 88 | 64 | 74 | 6 | 1.80 | 0.93 | 0.81 | 6.83 | 120 | 19.58 | 92 | 93 | 57 | 0 | 0 | 3 | 2 |
| | BUFFALO | 83 | 66 | 91 | 58 | 74 | 3 | 1.17 | 0.47 | 0.77 | 3.49 | 83 | 19.08 | 97 | 92 | 53 | 1 | 0 | 2 | 1 |
| | ROCHESTER | 82 | 63 | 91 | 58 | 73 | 1 | 1.82 | 1.04 | 0.70 | 5.01 | 117 | 18.34 | 106 | 98 | 57 | 1 | 0 | 3 | 2 |
| | SYRACUSE | 85 | 66 | 94 | 62 | 76 | 5 | 0.68 | -0.20 | 0.51 | 6.29 | 137 | 21.85 | 111 | 90 | 54 | 2 | 0 | 3 | 1 |
| OH | AKRON-CANTON | 84 | 64 | 89 | 59 | 74 | 0 | 0.73 | -0.23 | 0.52 | 3.28 | 59 | 19.96 | 90 | 98 | 55 | 0 | 0 | 3 | 1 |
| | CINCINNATI | 86 | 68 | 90 | 65 | 77 | 1 | 0.60 | -0.29 | 0.39 | 4.00 | 69 | 22.41 | 87 | 98 | 58 | 1 | 0 | 4 | 0 |
| | CLEVELAND | 83 | 67 | 90 | 64 | 75 | 1 | 1.29 | 0.45 | 0.54 | 5.42 | 113 | 21.88 | 104 | 91 | 53 | 1 | 0 | 4 | 1 |
| | COLUMBUS | 85 | 67 | 91 | 66 | 76 | 1 | 2.49 | 1.43 | 1.72 | 6.21 | 112 | 23.90 | 106 | 98 | 58 | 2 | 0 | 4 | 2 |
| | DAYTON | 85 | 68 | 89 | 65 | 76 | 0 | 1.73 | 0.81 | 0.59 | 6.06 | 116 | 22.91 | 99 | 90 | 55 | 0 | 0 | 4 | 2 |
| | MANSFIELD | 83 | 65 | 88 | 64 | 74 | 2 | 2.13 | 1.23 | 1.30 | 7.72 | 132 | 24.59 | 105 | 96 | 58 | 0 | 0 | 4 | 2 |

**Based on 1991-2020 normals** ***** Not Available**

## Weather Data for the Week Ending July 8, 2023

| STATES AND STATIONS | | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY PERCENT | | NUMBER OF DAYS TEMP. °F | | NUMBER OF DAYS PRECIP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 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 JUN 1 | PCT. NORMAL SINCE JUN 1 | TOTAL, IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| | TOLEDO | 87 | 68 | 92 | 65 | 78 | 2 | 0.57 | -0.15 | 0.46 | 2.86 | 66 | 16.33 | 86 | 91 | 49 | 2 | 0 | 2 | 0 |
| | YOUNGSTOWN | 84 | 61 | 89 | 54 | 73 | 1 | 2.33 | 1.42 | 1.17 | 4.32 | 87 | 19.69 | 93 | 97 | 53 | 0 | 0 | 5 | 2 |
| OK | OKLAHOMA CITY | 89 | 63 | 94 | 23 | 76 | -5 | 2.72 | 1.84 | 1.69 | 5.46 | 99 | 19.77 | 100 | 95 | 51 | 3 | 1 | 3 | 2 |
| | TULSA | 88 | 69 | 95 | 68 | 79 | -4 | 0.80 | -0.15 | 0.53 | 5.06 | 88 | 19.06 | 85 | 94 | 54 | 3 | 0 | 5 | 1 |
| OR | ASTORIA | 70 | 53 | 81 | 49 | 62 | 2 | 0.00 | -0.24 | 0.00 | 0.74 | 28 | 29.30 | 78 | 94 | 58 | 0 | 0 | 0 | 0 |
| | BURNS | 89 | 50 | 93 | 43 | 70 | 4 | 0.00 | -0.08 | 0.00 | 1.23 | 149 | 9.30 | 148 | 59 | 15 | 4 | 0 | 0 | 0 |
| | EUGENE | 90 | 55 | 99 | 52 | 72 | 6 | 0.00 | -0.11 | 0.00 | 0.14 | 10 | 14.26 | 63 | 79 | 23 | 4 | 0 | 0 | 0 |
| | MEDFORD | 97 | 62 | 100 | 57 | 79 | 6 | 0.00 | -0.07 | 0.00 | 0.44 | 56 | 5.69 | 56 | 57 | 13 | 7 | 0 | 0 | 0 |
| | PENDLETON | 94 | 57 | 100 | 54 | 76 | 6 | 0.02 | -0.06 | 0.02 | 0.09 | 7 | 4.39 | 55 | 48 | 14 | 6 | 0 | 1 | 0 |
| | PORTLAND | 87 | 60 | 98 | 58 | 74 | 6 | 0.00 | -0.16 | 0.00 | 1.22 | 67 | 17.11 | 86 | 72 | 28 | 3 | 0 | 0 | 0 |
| | SALEM | 87 | 58 | 96 | 55 | 73 | 5 | 0.00 | -0.07 | 0.00 | 0.25 | 18 | 17.21 | 79 | 69 | 23 | 2 | 0 | 0 | 0 |
| PA | ALLENTOWN | 88 | 69 | 91 | 67 | 78 | 3 | 1.34 | 0.26 | 0.72 | 5.32 | 94 | 19.29 | 85 | 94 | 54 | 2 | 0 | 3 | 2 |
| | ERIE | 81 | 65 | 89 | 56 | 73 | 1 | 0.51 | -0.22 | 0.43 | 5.98 | 131 | 23.75 | 115 | 91 | 56 | 0 | 0 | 3 | 0 |
| | MIDDLETOWN | 89 | 72 | 92 | 70 | 80 | 3 | 2.41 | 1.46 | 1.08 | 6.98 | 137 | 18.61 | 85 | 92 | 53 | 3 | 0 | 4 | 2 |
| | PHILADELPHIA | 90 | 73 | 93 | 72 | 82 | 3 | 0.92 | 0.07 | 0.24 | 5.13 | 102 | 17.11 | 78 | 95 | 49 | 5 | 0 | 5 | 0 |
| | PITTSBURGH | 83 | 65 | 89 | 61 | 74 | 1 | 1.16 | 0.20 | 1.08 | 5.32 | 101 | 16.53 | 78 | 91 | 52 | 0 | 0 | 3 | 1 |
| | WILKES-BARRE | 87 | 67 | 91 | 66 | 77 | 4 | 1.34 | 0.60 | 0.91 | 3.95 | 84 | 15.07 | 81 | 95 | 50 | 2 | 0 | 3 | 1 |
| | WILLIAMSPORT | 88 | 67 | 93 | 64 | 78 | 4 | 1.68 | 0.78 | 1.32 | 5.49 | 112 | 14.52 | 69 | 94 | 50 | 2 | 0 | 3 | 1 |
| RI | PROVIDENCE | 84 | 68 | 89 | 65 | 76 | 2 | 1.24 | 0.63 | 0.93 | 4.74 | 105 | 26.35 | 107 | 99 | 67 | 0 | 0 | 3 | 1 |
| SC | CHARLESTON | 95 | 75 | 98 | 73 | 85 | 3 | 4.04 | 2.58 | 1.76 | 8.26 | 104 | 22.64 | 93 | 92 | 52 | 7 | 0 | 5 | 3 |
| | COLUMBIA | 94 | 74 | 95 | 72 | 84 | 2 | 3.42 | 2.32 | 1.93 | 9.52 | 153 | 33.48 | 145 | 93 | 50 | 7 | 0 | 2 | 2 |
| | FLORENCE | 93 | 74 | 97 | 72 | 84 | 2 | 0.80 | -0.43 | 0.35 | 3.64 | 60 | 21.78 | 99 | 94 | 50 | 7 | 0 | 4 | 0 |
| | GREENVILLE | 91 | 70 | 94 | 68 | 80 | 1 | 0.21 | -0.76 | 0.12 | 5.73 | 114 | 34.93 | 136 | 90 | 48 | 6 | 0 | 3 | 0 |
| SD | ABERDEEN | 81 | 55 | 94 | 44 | 68 | -4 | 1.24 | 0.42 | 0.89 | 4.52 | 96 | 9.95 | 83 | 92 | 41 | 1 | 0 | 3 | 1 |
| | HURON | 79 | 57 | 92 | 48 | 68 | -5 | 1.77 | 1.13 | 1.38 | 5.23 | 113 | 8.48 | 66 | 94 | 46 | 1 | 0 | 2 | 1 |
| | RAPID CITY | 76 | 52 | 89 | 46 | 64 | -7 | 0.19 | -0.35 | 0.14 | 4.07 | 117 | 14.58 | 135 | 93 | 53 | 0 | 0 | 3 | 0 |
| | SIOUX FALLS | 80 | 58 | 93 | 48 | 69 | -5 | 0.35 | -0.39 | 0.18 | 1.75 | 34 | 8.35 | 55 | 87 | 44 | 2 | 0 | 2 | 0 |
| TN | BRISTOL | 88 | 66 | 90 | 63 | 77 | 1 | 0.34 | -0.69 | 0.15 | 3.63 | 71 | 22.79 | 94 | 95 | 51 | 1 | 0 | 4 | 0 |
| | CHATTANOOGA | 90 | 71 | 93 | 68 | 80 | 0 | 1.77 | 0.61 | 1.50 | 7.31 | 132 | 28.89 | 97 | 92 | 52 | 5 | 0 | 5 | 1 |
| | KNOXVILLE | 88 | 69 | 90 | 67 | 79 | 0 | 1.90 | 0.66 | 1.06 | 7.74 | 136 | 27.49 | 94 | 95 | 56 | 1 | 0 | 5 | 1 |
| | MEMPHIS | 91 | 72 | 94 | 70 | 82 | -1 | 2.70 | 1.66 | 1.02 | 7.76 | 150 | 36.87 | 119 | 92 | 55 | 5 | 0 | 7 | 2 |
| | NASHVILLE | 92 | 73 | 95 | 71 | 83 | 2 | 1.33 | 0.30 | 0.61 | 5.18 | 93 | 22.64 | 80 | 88 | 46 | 7 | 0 | 5 | 1 |
| TX | ABILENE | 92 | 73 | 97 | 66 | 82 | -1 | 0.10 | -0.41 | 0.10 | 5.74 | 142 | 15.18 | 115 | 83 | 43 | 6 | 0 | 1 | 0 |
| | AMARILLO | 91 | 64 | 93 | 60 | 77 | -2 | 0.40 | -0.24 | 0.24 | 4.61 | 128 | 13.55 | 138 | 90 | 34 | 5 | 0 | 4 | 0 |
| | AUSTIN | 97 | 78 | 102 | 75 | 87 | 3 | 0.00 | -0.53 | 0.00 | 1.08 | 25 | 13.13 | 68 | 83 | 41 | 7 | 0 | 0 | 0 |
| | BEAUMONT | 97 | 76 | 98 | 73 | 86 | 3 | 0.93 | -0.71 | 0.58 | 4.15 | 48 | 25.46 | 87 | 95 | 49 | 7 | 0 | 3 | 1 |
| | BROWNSVILLE | 95 | 79 | 98 | 77 | 87 | 1 | 0.51 | -0.07 | 0.51 | 1.60 | 45 | 12.60 | 116 | 92 | 55 | 6 | 0 | 1 | 1 |
| | CORPUS CHRISTI | 95 | 78 | 99 | 76 | 87 | 3 | 0.36 | -0.43 | 0.24 | 1.16 | 25 | 13.53 | 91 | 96 | 56 | 6 | 0 | 2 | 0 |
| | DEL RIO | 96 | 77 | 99 | 73 | 87 | 0 | 1.18 | 0.82 | 1.02 | 1.74 | 63 | 9.96 | 102 | 83 | 41 | 7 | 0 | 2 | 1 |
| | EL PASO | 105 | 78 | 109 | 72 | 92 | 7 | 0.00 | -0.31 | 0.00 | 0.03 | 2 | 0.79 | 28 | 43 | 12 | 7 | 0 | 0 | 0 |
| | FORT WORTH | 97 | 77 | 100 | 73 | 87 | 3 | 0.00 | -0.67 | 0.00 | 0.76 | 17 | 13.43 | 63 | 79 | 42 | 7 | 0 | 0 | 0 |
| | GALVESTON | 91 | 81 | 94 | 76 | 86 | 1 | 0.45 | -0.51 | 0.31 | 2.23 | 41 | 13.80 | 69 | 89 | 65 | 5 | 0 | 2 | 0 |
| | HOUSTON | 93 | 76 | 98 | 73 | 84 | 0 | 2.98 | 1.89 | 2.18 | 5.52 | 76 | 29.13 | 110 | 91 | 51 | 6 | 0 | 3 | 2 |
| | LUBBOCK | 94 | 68 | 96 | 64 | 81 | 0 | 0.12 | -0.44 | 0.08 | 1.89 | 58 | 7.99 | 82 | 82 | 34 | 7 | 0 | 3 | 0 |
| | MIDLAND | 96 | 72 | 98 | 66 | 84 | 0 | 0.00 | -0.35 | 0.00 | 0.39 | 17 | 1.76 | 27 | 83 | 30 | 7 | 0 | 0 | 0 |
| | SAN ANGELO | 96 | 71 | 99 | 67 | 83 | -1 | 0.01 | -0.29 | 0.01 | 2.48 | 93 | 8.84 | 82 | 89 | 37 | 7 | 0 | 1 | 0 |
| | SAN ANTONIO | 95 | 78 | 100 | 76 | 87 | 3 | 0.13 | -0.65 | 0.12 | 1.00 | 24 | 12.63 | 74 | 86 | 42 | 7 | 0 | 2 | 0 |
| | VICTORIA | 96 | 76 | 100 | 74 | 86 | 2 | 0.81 | -0.15 | 0.49 | 1.18 | 22 | 17.43 | 82 | 97 | 50 | 6 | 0 | 4 | 0 |
| | WACO | 95 | 75 | 100 | 70 | 85 | 1 | 0.00 | -0.50 | 0.00 | 0.40 | 10 | 15.59 | 76 | 91 | 42 | 6 | 0 | 0 | 0 |
| | WICHITA FALLS | 98 | 71 | 102 | 69 | 85 | 1 | 0.79 | 0.28 | 0.71 | 2.11 | 53 | 13.31 | 89 | 90 | 36 | 7 | 0 | 3 | 1 |
| UT | SALT LAKE CITY | 95 | 70 | 101 | 63 | 82 | 4 | 0.01 | -0.08 | 0.01 | 0.39 | 37 | 9.93 | 104 | 48 | 15 | 6 | 0 | 1 | 0 |
| VA | LYNCHBURG | 90 | 68 | 92 | 65 | 79 | 3 | 1.58 | 0.72 | 0.79 | 5.65 | 117 | 20.06 | 89 | 98 | 52 | 4 | 0 | 4 | 2 |
| | NORFOLK | 91 | 75 | 97 | 73 | 83 | 2 | 1.10 | 0.01 | 0.63 | 8.17 | 144 | 21.38 | 93 | 94 | 58 | 3 | 0 | 2 | 1 |
| | RICHMOND | 92 | 73 | 94 | 71 | 82 | 3 | 0.66 | -0.30 | 0.60 | 4.48 | 77 | 18.83 | 82 | 91 | 53 | 6 | 0 | 4 | 1 |
| | ROANOKE | 92 | 71 | 94 | 69 | 81 | 4 | 0.03 | -0.92 | 0.02 | 4.02 | 69 | 17.43 | 75 | 85 | 44 | 7 | 0 | 2 | 0 |
| | WASH/DULLES | 92 | 71 | 94 | 69 | 82 | 5 | 0.89 | -0.05 | 0.77 | 3.38 | 62 | 13.30 | 58 | 95 | 49 | 7 | 0 | 3 | 1 |
| VT | BURLINGTON | 86 | 68 | 93 | 65 | 77 | 5 | 0.11 | -0.88 | 0.07 | 4.03 | 74 | 16.18 | 88 | 92 | 53 | 3 | 0 | 2 | 0 |
| WA | OLYMPIA | 83 | 49 | 92 | 46 | 66 | 4 | 0.00 | -0.17 | 0.00 | 0.80 | 48 | 17.76 | 68 | 95 | 34 | 1 | 0 | 0 | 0 |
| | QUILLAYUTE | 74 | 51 | 92 | 46 | 63 | 5 | 0.00 | -0.41 | 0.00 | 0.67 | 17 | 38.27 | 71 | 84 | 47 | 1 | 0 | 0 | 0 |
| | SEATTLE-TACOMA | 82 | 57 | 91 | 54 | 69 | 4 | 0.00 | -0.17 | 0.00 | 1.19 | 72 | 13.77 | 67 | 75 | 31 | 1 | 0 | 0 | 0 |
| | SPOKANE | 87 | 60 | 95 | 54 | 74 | 6 | 0.00 | -0.13 | 0.00 | 0.87 | 65 | 6.33 | 67 | 49 | 15 | 2 | 0 | 0 | 0 |
| | YAKIMA | 93 | 57 | 97 | 54 | 75 | 5 | 0.00 | -0.06 | 0.00 | 0.07 | 13 | 3.58 | 79 | 59 | 15 | 5 | 0 | 0 | 0 |
| WI | EAU CLAIRE | 82 | 57 | 95 | 47 | 69 | -2 | 1.03 | 0.19 | 0.64 | 2.56 | 44 | 13.07 | 77 | 93 | 44 | 1 | 0 | 3 | 1 |
| | GREEN BAY | 84 | 61 | 91 | 53 | 73 | 2 | 0.48 | -0.37 | 0.40 | 4.02 | 79 | 14.33 | 89 | 90 | 42 | 2 | 0 | 2 | 0 |
| | LA CROSSE | 83 | 60 | 94 | 53 | 72 | -3 | 2.19 | 1.19 | 1.46 | 3.91 | 62 | 13.62 | 72 | 91 | 42 | 1 | 0 | 4 | 1 |
| | MADISON | 86 | 62 | 92 | 53 | 74 | 2 | 0.73 | -0.35 | 0.46 | 1.90 | 29 | 13.36 | 68 | 86 | 39 | 2 | 0 | 2 | 0 |
| | MILWAUKEE | 81 | 66 | 91 | 63 | 73 | 1 | 1.09 | 0.27 | 0.60 | 2.90 | 54 | 16.22 | 88 | 86 | 52 | 2 | 0 | 4 | 1 |
| WV | BECKLEY | 82 | 63 | 85 | 60 | 73 | 1 | 0.67 | -0.36 | 0.40 | 2.23 | 40 | 18.93 | 78 | 97 | 57 | 0 | 0 | 2 | 0 |
| | CHARLESTON | 87 | 67 | 91 | 65 | 77 | 1 | 0.59 | -0.55 | 0.27 | 2.50 | 41 | 18.67 | 73 | 99 | 53 | 1 | 0 | 4 | 0 |
| | ELKINS | 85 | 62 | 89 | 59 | 74 | 3 | 0.25 | -1.06 | 0.10 | 4.80 | 80 | 20.85 | 80 | 95 | 48 | 0 | 0 | 4 | 0 |
| | HUNTINGTON | 89 | 67 | 92 | 63 | 78 | 2 | 0.45 | -0.59 | 0.41 | 1.68 | 31 | 19.49 | 79 | 92 | 45 | 3 | 0 | 2 | 0 |
| WY | CASPER | 78 | 47 | 89 | 40 | 63 | -6 | 0.08 | -0.17 | 0.06 | 3.35 | 203 | 10.14 | 141 | 95 | 32 | 0 | 0 | 3 | 0 |
| | CHEYENNE | 73 | 52 | 87 | 49 | 62 | -6 | 1.27 | 0.84 | 0.63 | 4.76 | 179 | 10.56 | 121 | 89 | 45 | 0 | 0 | 5 | 2 |
| | LANDER | 75 | 49 | 87 | 45 | 62 | -7 | 0.23 | 0.13 | 0.12 | 3.40 | 282 | 11.57 | 136 | 89 | 39 | 0 | 0 | 3 | 0 |
| | SHERIDAN | 76 | 50 | 85 | 45 | 63 | -5 | 1.18 | 0.91 | 0.69 | 6.52 | 284 | 13.84 | 151 | 89 | 46 | 0 | 0 | 4 | 1 |

**Based on 1991-2020 normals** ***** Not Available**

# June Weather Summary

## Weather

*Weather summary provided by USDA/WAOB*

**Highlights:** For much of June, atmospheric blocking at high latitudes of North America maintained unusually dry weather across the heart of the Corn Belt. Several communities in Illinois and portions of neighboring states were on track for their driest June on record, until the arrival of late-month showers. However, some of the rain was accompanied by thunderstorm-induced high winds, especially on June 29 during a damaging derecho, which emerged early in the day from the central Plains before sweeping across northern Missouri, southern Iowa, central Illinois, and central and southern Indiana, with widespread gusts of 60 to 100 mph. Even with the late-month rain, only 51 percent of the U.S. corn crop was rated in good to excellent condition on July 2, lowest at that time of year since 2012, according to USDA/NASS. On the same date, Missouri led the nation with topsoil moisture rated 80 percent very short to short.

The high-pressure block also contributed to above-normal temperatures across the nation's northern tier, from the Pacific Northwest into the upper Great Lakes region. Monthly temperatures averaged 4 to 8°F above normal in North Dakota and environs, mostly on the strength of an early-June heat wave. Another area of anomalous warmth (a separate ridge of high pressure) stretched from southern New Mexico to the western Gulf Coast region, with extreme heat peaking in mid- to late June. Several all-time-record high temperatures were established in central and southern Texas, and it was the hottest June on record in locations such as Del Rio, TX (monthly average temperature of 90.4°F), and Baton Rouge, LA (84.5°F).

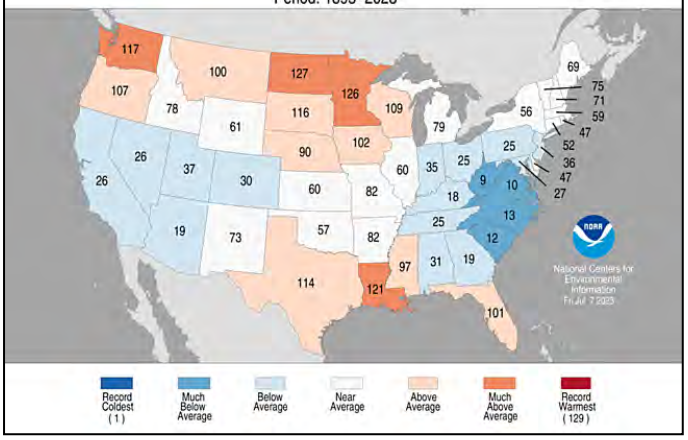
In contrast, relatively cool conditions covered the eastern U.S., excluding Florida's peninsula, as well as a broad area extending from California and the Great Basin to the central High Plains. Monthly temperatures averaged at least 4°F below normal in parts of the central Appalachians and adjacent foothills, as well as several locations in California, the Great Basin, and the Desert Southwest. Las Vegas, NV, recorded its first triple-digit temperature of the year on June 30, tying a 1965 record for its latest initial reading of 100°F or greater.

Seasonably dry weather accompanied the cool spell, with no sign of the Southwestern monsoon circulation developing by the end of June. Farther north and east, however, significant shower activity occurred during June across the Rockies and High Plains, as well as portions of the Intermountain West, further assisting in rangeland and pasture recovery. By July 2, more than 70 percent of the rangeland and pastures were rated in good to excellent condition in three Western States: Colorado, Idaho, and Wyoming. However, the High Plains' wet weather also slowed the winter wheat harvest, which was only 37 percent complete, nationally, by July 2, compared with the 5-year average of 46 percent. Meanwhile, Missouri led the nation on July 2 with pastures rated 70 percent very poor to poor. Elsewhere, ample rain kept pastures and summer crops well-watered across the eastern U.S., except in parts of the mid-Atlantic. On July 2, Pennsylvania led the East with pastures rated 34 percent very poor to poor, while pastures were rated more than three-quarters good to excellent in Alabama (90 percent) and North Carolina (77 percent).

During the 5-week period ending July 4, drought coverage in the Lower 48 States increased from 19 to 27 percent, according to the *U.S. Drought Monitor*. Notably, improving conditions across large sections of the Plains, Rockies, and Intermountain West were more than offset by worsening drought in the Midwest, as well as the western Gulf Coast region and the Pacific Northwest. By July 2, Oregon led the western U.S. in topsoil moisture rated 66 percent very poor to poor, followed by Washington at 65 percent. Extreme to exceptional (D3 to D4) drought covered 39 percent of Kansas by July 4, along with 25 percent of Nebraska and 24 percent of Missouri. D3 to D4 coverage stood at 1 to 5 percent in Iowa, Oklahoma, South Dakota, Texas, and Wisconsin.

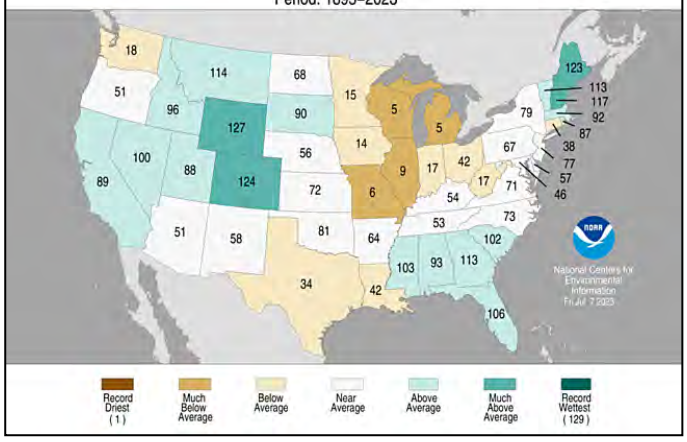
**Historical Perspective:** According to preliminary data provided by the National Centers for Environmental Information, the contiguous U.S. experienced its 52nd-warmest, 48th-driest June during the 129-year period of record. The nation's monthly average temperature of 69.0°F was 0.5°F above the 1901-2000 mean. Overall, it was the nation's coolest June since 2019, on the strength of below-normal temperatures in much of the East and Southwest. Meanwhile, June precipitation across the Lower 48 States averaged 2.85 inches, 97 percent of normal. Near-record dryness affected parts of the Midwest, despite late-month rainfall, rimmed by relatively wetter conditions.

**Figure 1** Statewide Average Temperature Ranks
June 2023
Period: 1895–2023



State temperature rankings ranged from the ninth-coolest June in West Virginia to the third-warmest June in North Dakota (figure 1). Louisiana and Minnesota joined North Dakota on the top-ten list for June warmth, while Virginia recorded its tenth-coolest June. Meanwhile, state precipitation rankings ranged from the top-ten June dryness in Illinois, Michigan, Missouri, and Wisconsin to top-ten wetness in Colorado, Maine, and Wyoming (figure 2).

**Figure 2** Statewide Precipitation Ranks
June 2023
Period: 1895–2023




**Summary:** On June 2, Tropical Storm Arlene formed over the northeastern Gulf of Mexico. Arlene, a short-lived storm that never made landfall, drifted generally southward before degenerating a day later into a remnant low-pressure system while centered northwest of Cuba. However, tropical showers not directly associated with Arlene affected southern Florida. Daily-record rainfall totals for June 2 in Florida reached 2.80 inches in Brooksville and 1.99 inches in Winter Haven. Meanwhile in Montana, record-setting amounts for June 2 included 2.19 inches in Billings and 2.00 inches in Lewistown. Billings' June 1-4 rainfall reached exactly 4.00 inches. In fact, the first several days of the month featured almost daily showers across the northern High Plains and adjacent Rockies. Casper, WY, received 1.77 inches of rain during the first 10 days of the month, aided by a daily-record total of 0.51 inch on June 4. Similarly, Laramie, WY, measured 2.08 inches from June 1-10, with 0.76 inch (a record for the date) falling on the 7th. Elsewhere in Wyoming, Buffalo completed its wettest June of the 21st century to date, with a monthly sum of 5.85 inches (283 percent of normal). It was also the wettest June of the last one-quarter century in Wyoming locations such as Riverton (3.80 inches, or 404 percent of normal) and Greybull (3.72 inches, or 344 percent). During a streak of 9 consecutive days (May 30 – June 7) with 90-degree heat, Sisseton, SD, was pelted by 2.10 inches of rain, a record for the date, on June 5. In Montana, Butte (1.82 inches on the 6th) experienced its wettest June day in well over 100 years, surpassing 1.49 inches on June 14, 1948. Elsewhere in Montana, the airport in Bozeman endured its third-wettest day on record, with 1.89 inches falling on June 8. Wetter days at Bozeman Airport occurred on June 25, 1969, with 2.14 inches, and May 25, 1980, with 1.91 inches. Heavy, early-month showers were also scattered across the Plains and Northwest; daily-record amounts included 1.12 inches (on June 7) in Clayton, NM, and 0.61 inch (on June 9) in Burns, OR. Clayton collected another record-setting sum (1.88 inches) on June 10. Other daily-record totals for the 10th included 2.53 inches in Valentine, NE; 1.00 inch in Sheridan, WY; and 0.59 inch in Bishop, CA.

In early June, a low-pressure system developing and spinning over New England drew cool air southward—but also brought dense smoke from rampant Canadian wildfires. Before June ended, a modern record had been broken for annual Canadian wildfire acreage; previously, 17.55 million acres had burned in 1995, according to the Canadian Interagency Forest Fire Centre. By early July, Canadian wildfires had scorched more than 22 million acres of vegetation, mostly boreal forest. For reference, wildfire acreage in the U.S., including Alaska, has surpassed ten million acres only three times—in 2015, 2017, and 2020—with the record of 10.13 million acres being set in 2015. Prior to the wind shift that delivered dense smoke to the Northeast, an early-season heat wave engulfed the North. As the month began, daily-record highs for June 1 topped the 95-degree mark in Fargo, ND (97°F), and Burlington, VT (96°F). Consecutive daily-record highs were set on June 1-2 in Burlington (96 and 91°F); Augusta, ME (93 and 91°F); and Scranton, PA (93 and 95°F). By June 2, daily-record heat affected cities such as Baltimore, MD (97°F), and Harrisburg, PA (96°F). Lingering heat in the Great Lakes States led to record-setting highs for June 3 in Muskegon, MI (93°F), and Madison, WI (91°F). Farther east, however, Millinocket, ME, reported a maximum temperature of 50°F on June 3, just 2 days after achieving a daily-record high of 96°F. On the morning of June 4, scattered frost was noted across the interior Northeast, where Massena, NY, posted a daily-record low of 34°F. The following day, record-setting lows for June 5 were reported in Allentown, PA (45°F), and New Bern, NC (49°F). Scattered daily-record lows were observed as far west as the Great Lakes region, where Flint, MI, registered 39°F on June 7. Later, another round of cool air settled across the Midwest and East. By June 9, daily-record lows included 44°F in Bristol, TN; 46°F in Asheville, NC; and 49°F in Cape Girardeau, MO. Ironically, the cool, dry, northerly flow of air allowed dense smoke to waft across the heavily populated Northeastern corridor, leading to low visibility (locally one-half mile or less), poor air quality, and health concerns. By the afternoon of the June 7, the thickest smoke extended across eastern Pennsylvania to the Atlantic Coast, including Philadelphia and New York City. Farther west, Northern heat persisted. On June 7, for example, temperatures rose to 97°F in Huron, SD, and 82°F in Bellingham, WA. Meanwhile, heat began to intensify in parts of Texas. In the western Gulf Coast region, Corpus Christi, TX, collected a daily-record high (98°F) for June 9, followed by another record (100°F) on June 11.

Though the severe-weather season typically begins to wind down in June, the National Weather Service's preliminary

count of 224 June tornadoes topped the May total of 199. Additionally, there were four fatal tornadoes and nine tornado-related fatalities during the month. Those tornadoes occurred between June 15 and 25, during a time when a nearly stationary frontal boundary stretching from the central and southern Plains into the Southeast sparked daily showers and thunderstorms. On June 15, an EF-3 tornado devastated Perryton, TX, resulting in three fatalities and dozens of injuries. The same day a hailstone measuring 5.9 inches in diameter and weighing more than 13.5 ounces crashed down in Denton County, TX. A day earlier, on the 14th, a hailstone nearly 4.9 inches in diameter fell in Noxubee County, MS, near Brooksville, setting a state record for June. Heavy rain accompanied the storms, with Texarkana, AR, receiving a daily-record rainfall of 3.41 inches on June 13. The following day was the wettest June day on record in Georgia locations such as Albany (5.19 inches) and Columbus (4.40 inches). Previous records were 4.62 inches (on June 9, 2019) in Albany and 4.08 inches (on June 12, 1906) in Columbus. On the 15th, downpours near the Gulf Coast resulted in 9.30 inches of rain in Pensacola, FL—the wettest June day in that location since June 9, 2012, when 13.13 inches fell. With almost daily showers and thunderstorms peppering the High Plains and adjacent Rockies, Buffalo, WY, received measurable rain each day from June 7-12 and 14-16, totaling 3.99 inches. Farther south, Colorado Springs, CO, experienced its wettest June day on record on the 12th, with 4.02 inches. Previously, the wettest June day in Colorado Springs had occurred in 2015, when 3.16 inches fell on June 15. Around mid-month, a separate area of heavy rain affected the lower Great Lakes region and the Northeast, where record-setting totals for June 12 reached 3.55 inches in Wilmington, DE, and 1.71 inches in Binghamton, NY. For Wilmington, it was the wettest day since August 4, 2020, when 4.48 inches fell during the passage of Tropical Storm Isaias. With downpours lingering across the South, daily-record totals topped the 3-inch mark on June 19 in Meridian, MS (3.21 inches), and Miami, FL (3.04 inches). Two days later, Saint Petersburg, FL, collected a daily-record sum of 3.28 inches. Locally severe thunderstorms continued to accompany the Southern rain, with an EF-3 tornado ripping across the community of Matador, Motley County, TX, on June 21, resulting in four fatalities. Farther north, torrential rainfall and severe thunderstorms in eastern Colorado produced daily-record totals on the 21st in Akron (2.93 inches) and Denver (1.85 inches). Later in Georgia, daily-record rainfall totals for June 22 reached 3.03 inches in Augusta and 2.47 inches in Macon. As rain spread northward along the Atlantic Coast, record-setting rainfall totals for June 23 included 2.42 inches in Wilmington, DE, and 2.18 inches in Norfolk, VA. Some areas that avoided direct tornadic impacts were subjected to extreme, straight-line winds. Examples included a gust to 97 mph in Houston, TX, on June 21 at 9:06 pm CDT—a record for the international airport—and a gust to 76 mph in Jackson, MS, on June 25 at 11:04 pm CDT. Previously, Jackson's highest June wind had occurred in 2021, with a gust to 74 mph on June 2.

Less than a week after the Northeastern air largely cleared, the Midwest endured a spell of cool, smoky weather. The Midwestern cool spell peaked on June 12, with daily-record lows being observed in communities such as Madison, WI (38°F), and Cedar Rapids, IA (40°F). The chilly weather, along with smoky, hazy conditions from the Canadian forest fires, lingered for several days, with daily-record lows of 44°F occurring in Dubuque, IA (on June 16), and Pierre, SD (on June 17). Farther south, however, Corpus Christi, TX, posted daily-record highs of 100°F on June 11 and 17. Elsewhere in Texas, daily-record highs reached 103°F (on June 13) in McAllen and 107°F (on June 15) in Del Rio. Heat also extended eastward along the Gulf Coast and into southern Florida; highs soared to daily-record levels in New Orleans, LA (96°F on June 17), and Miami, FL (95°F on June 16). Mid-month overnight temperatures remained above the 80-degree mark near the Gulf Coast, tying June records in locations such as Gulfport, MS (lows of 84°F on June 14 and 15), and Baton Rouge, LA (lows of 81°F on June 14 and 15). Northwestern heat was also prominent, as daily-record highs for June 12 in Washington included 95°F in Ephrata and Yakima.

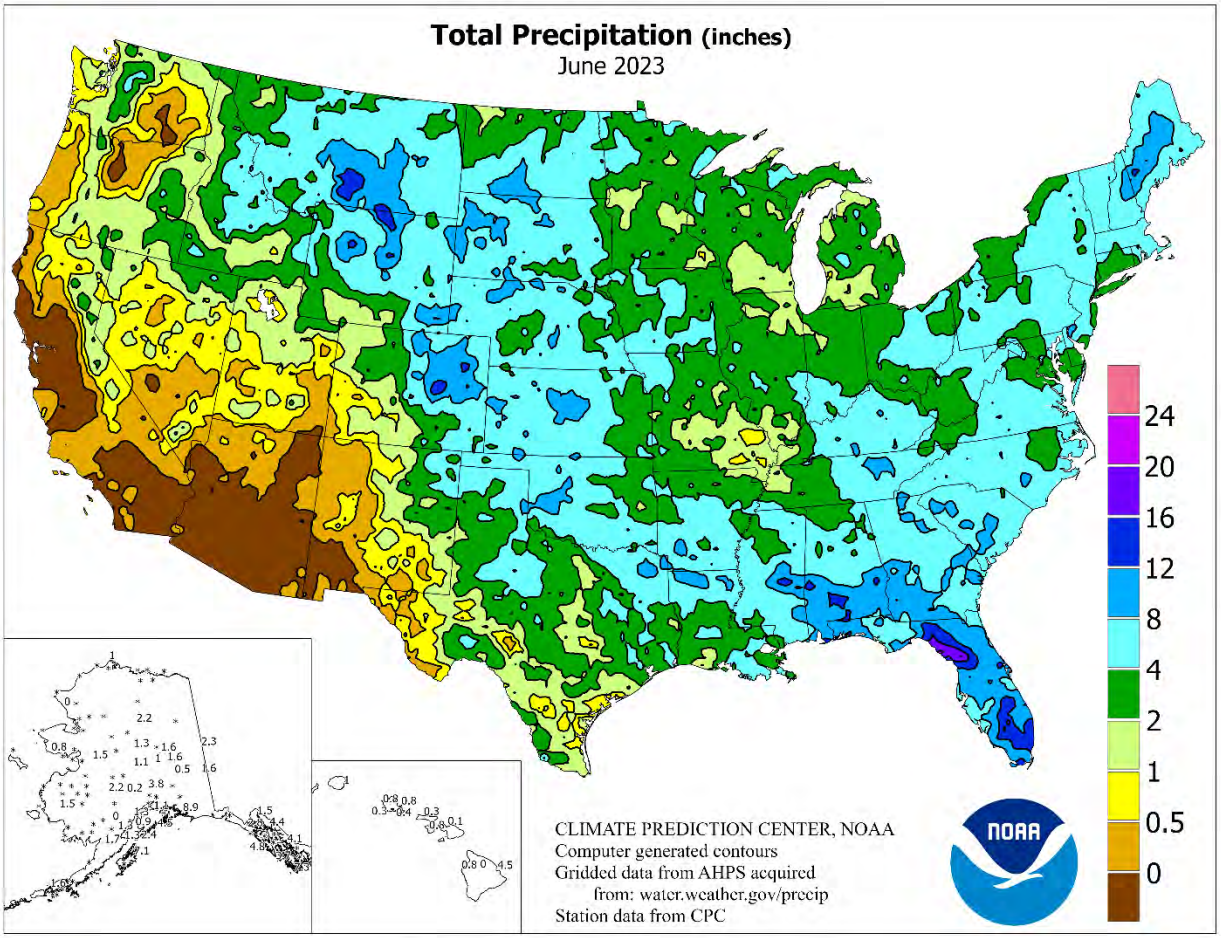
Extreme heat across Texas, possibly an early impact of an emerging El Niño, peaked during the second half of June. Hot weather also extended northward, although intense heat remained focused across the south-central U.S. Temperatures exceeded 110°F in parts of central, western, and southern Texas, with some communities reporting all-time-record highs. For example, San Angelo, TX, posted consecutive readings of 114°F on June 20 and 21; previously, that city had never experienced a high temperature greater than 111°F, with records back to 1907. Elsewhere in Texas, all-time records included 115°F in Laredo (on June 19) and Del Rio (on June 21). Previously, Laredo had also attained 115°F on May 7, 1927; June 11, 1942; and September 5, 1985. Prior to this year, Del Rio's highest readings had been 112°F on June 9, 1988, and July 13, 2020. Meanwhile in New Mexico, Roswell collected daily-record highs of 109 and 110°F, respectively, on June 21 and 24. Farther north, heat peaked on June 19-20, with consecutive daily-record highs (98 and 99°F, respectively) being reported in Jamestown, ND. On the 20th, Grand Forks, ND, reached 100°F, a record for the date. Back in Texas, Midland achieved a high of 103°F or greater for two full weeks—each day from June 15-28—including daily-record highs of 111°F on the 21st and 25th. Even on the Texas coast, Corpus Christi logged a daily-record high of 103°F on June 21. In contrast, chilly weather in the Northwest expanded. In Washington, Yakima collected a daily-record low of 35°F on June 19. Sub-freezing, daily-record lows occurred on June 21 in locations such as Cut Bank, MT (31°F), and Burns, OR (25°F). Kalispell, MT, noted consecutive daily-record lows (31 and 30°F, respectively) on June 21-22. Pocatello, ID, dipped to 31°F on June 22, a record for the date. By June 24, scattered freezes (and daily-record lows) were reported as far south as Arizona, where temperatures fell to 29°F in Flagstaff and 31°F in Window Rock.

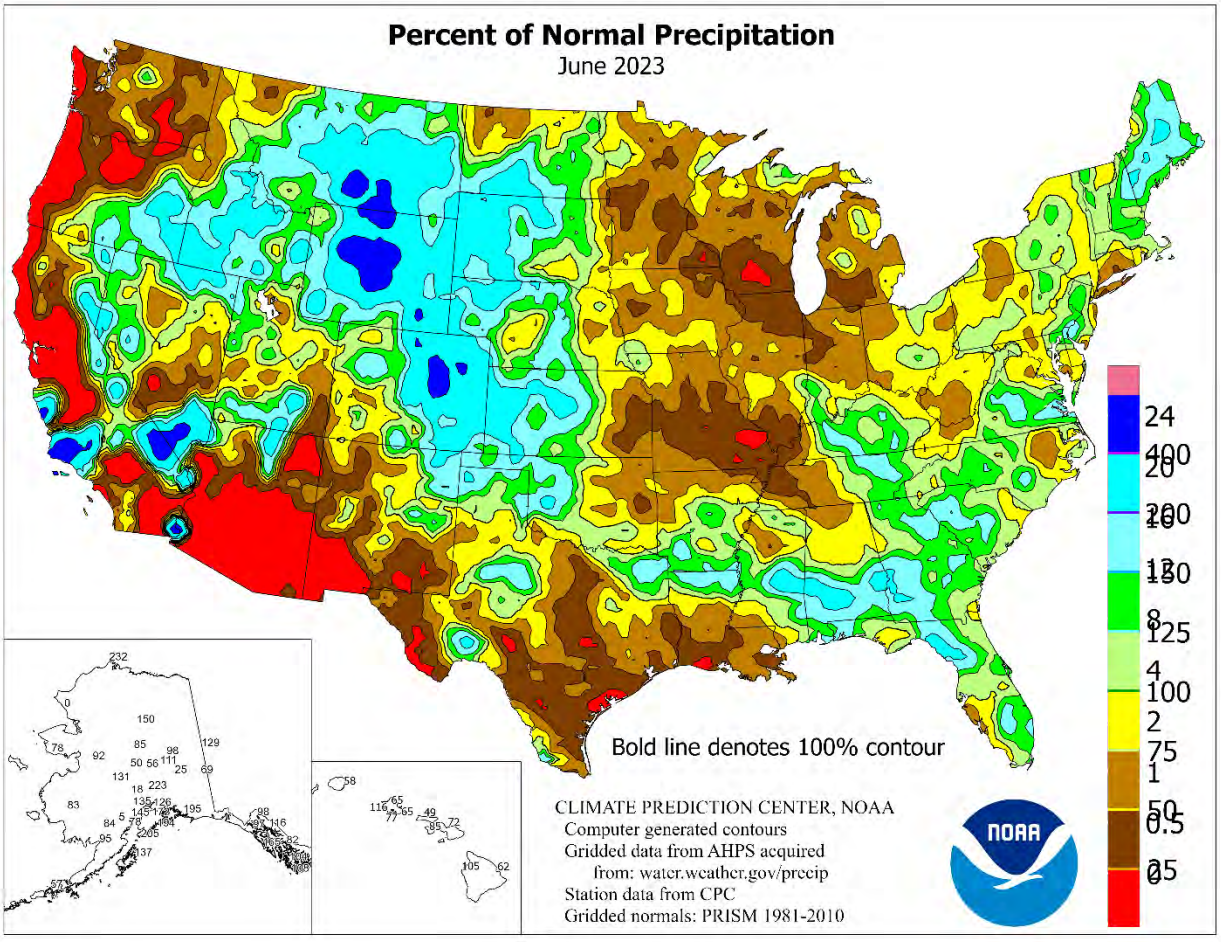
On June 29, amid another spell of active weather, a derecho tore across some of the Nation's hardest-hit drought areas, including central Illinois. The windstorm, which emerged from the central Plains early in the day, later raked southern Iowa, northern Missouri, central Illinois, and central and southern Indiana, later curling into the Tennessee Valley; widespread wind gusts ranged from 60 to 100 mph. However, thunderstorms associated with the derecho provided beneficial moisture, with showery weather extending to other days. Prior to the derecho's development, locally heavy showers extended as far west as northeastern California, where Alturas experienced its wettest June day on record with a 1.81-inch total on the 25th. Previously, the wettest June day in Alturas had occurred on June 7, 1952, with 1.27 inches. Farther east, heavy rain erupted across the Dakotas on June 24, when daily-record amounts totaled 2.79 inches in Jamestown, ND, and 2.32 inches in Mobridge, SD. A few days later, showers and thunderstorms peppered the Northeast, resulting in daily-record totals for June 26 in Wilmington, DE (3.31 inches), and Poughkeepsie, NY (1.77 inches). Elsewhere in New York, Syracuse netted a daily-record sum of 1.73 inches on June 27. Farther south, many areas remained dry, although spotty showers delivered locally heavy rain. For example, 4.03 inches—a record for the date—fell on June 27 in Vicksburg, MS. Later, record-setting rainfall totals for June 30 included 2.57 inches in Lexington, KY, and 2.40 inches in Crossville, TN. On June 29, the Midwestern derecho resulted in hundreds of reports of wind damage. In Illinois, peak June 29 wind gusts were officially clocked to 79 mph in Champaign, 75 mph in Decatur, 69 mph in Lawrenceville, and 65 mph in Springfield. In neighboring states, gusts included 70 mph in Indianapolis, IN, and 64 mph in Kirksville, MO. Severe thunderstorms, albeit less widespread, lingered through month's end, with Saint Joseph, MO, reporting a gust to 82 mph on June 30. On the same date, peak gusts in Kansas reached 80 mph in Hill City and 62 mph in Topeka. Lamoni, IA, recorded a thunderstorm gust to 66 mph on June 30, a day after measuring 67 mph. The late-June rain largely warded off record-setting dryness, although the monthly total of 0.30 inch (7 percent of normal) in Carbondale, IL, narrowly exceeded the June 1933 record low of 0.23 inch.

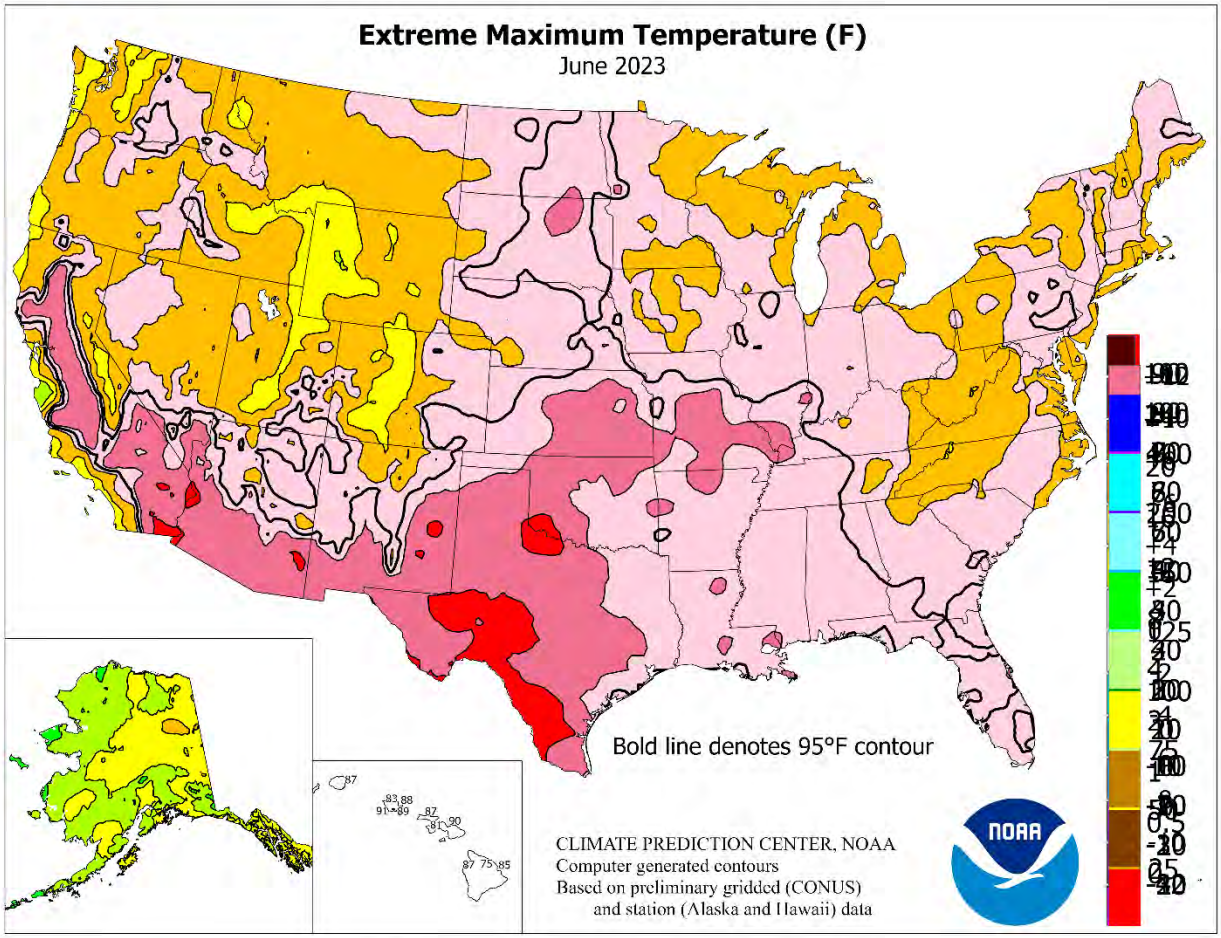
Although Texas' heat wave eased slightly late in the month, temperatures remained elevated. From June 18-28, Del Rio, TX, posted 11 consecutive daily-record highs, with readings ranging from 108 to 115°F. San Angelo, TX, easily set a record for any month with 5 days of 110-degree heat during June. Prior to this year, San Angelo's greatest number of 110-degree readings in a month had been 3 days in July 1944. The last time San Angelo had attained 110°F in June was June 28, 1994. As the month ended, it became the warmest June on record—eclipsing standards set just a year ago—in locations such as Del Rio, TX (average temperature of 90.4°F, or 5.3°F above normal), and Baton Rouge, LA (84.5°F, or 3.5°F above normal). With heat expanding northward in late June, triple-digit, daily-record highs included 105°F (on June 29) in Chanute, KS, and 104°F (on June 30) in Vichy-Rolla, MO. Conversely, an exceptionally cool May-June period wound down in coastal southern California, where downtown Los Angeles failed to achieve an 80-degree reading. The previous record had been 2 days with highs of 80°F or greater in May-June 1905, 1916, and 1935. A similar record was set for the first 6 months of 2023, with only 4 days reaching 80°F or higher in downtown Los Angeles. The previous record had been 5 days in 1878. Records for the fewest number of 80-degrees days during the January-June period were also shattered in southern California locations such as Long Beach (6 days) and Burbank (14 days). Meanwhile in Florida, it was the warmest January-June period on record in many communities, including Daytona Beach (average temperature of 71.6°F), Melbourne (73.5°F), and Vero Beach (73.6°F). The previous record in Daytona Beach, 70.9°F, had been set in 1932.

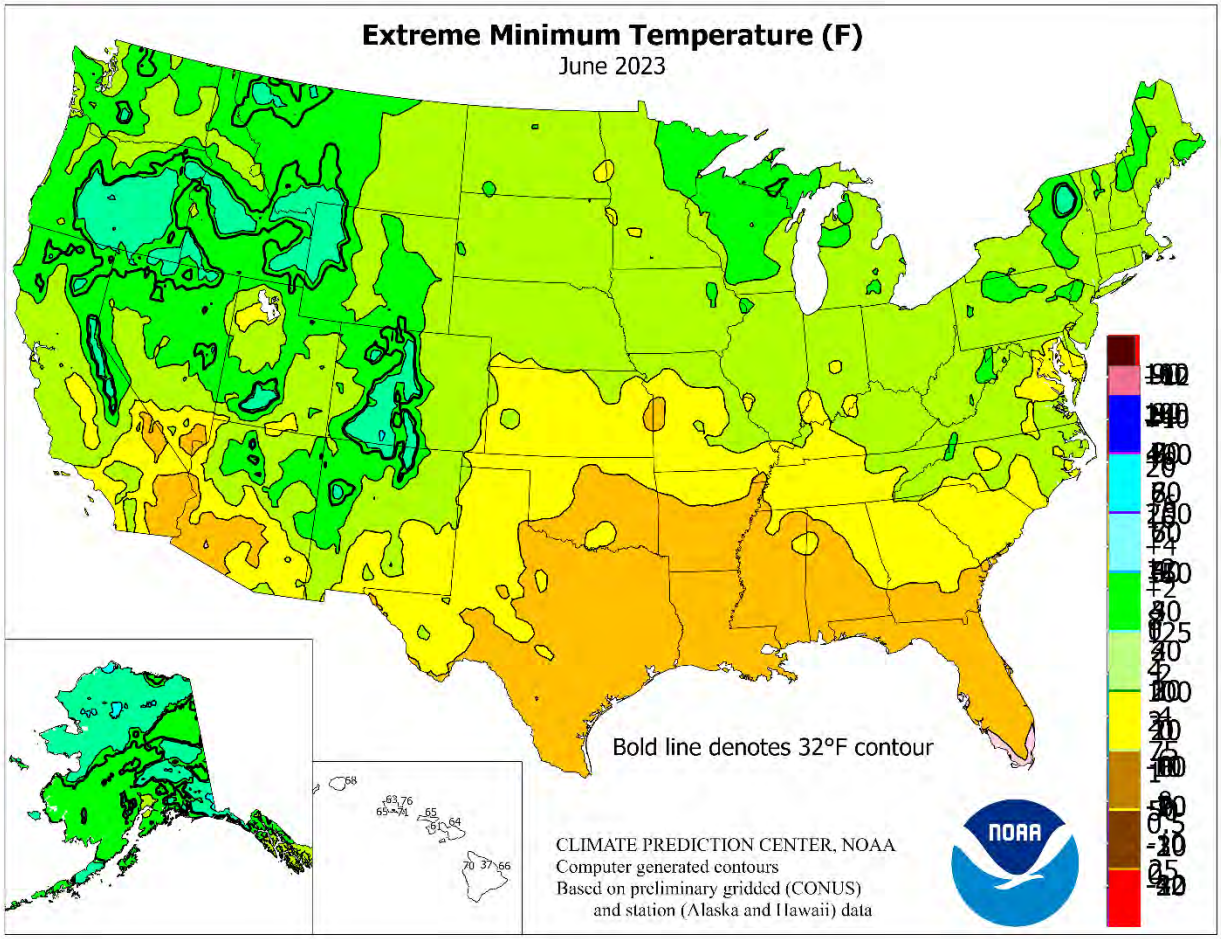
Near- or slightly below-normal temperatures dominated Alaska during June, except for warmer-than-normal conditions along the Arctic Coast. In fact, the month began on a very chilly note, with temperatures in Kotzebue remaining below 35°F on 5 consecutive days from May 30 – June 3. Farther inland, Bettles reported consecutive freezes (respective lows of 30 and 29°F) on June 2 and 3. Soon, Alaskan temperatures rebounded to near- or above-normal levels. On the Arctic Coast, Utqiagvik experienced its highest reading of the year to date (60°F) on June 13, followed the next day by a daily record-tying high of 58°F. In contrast, Kodiak notched a daily record-tying low of 35°F on June 13. Meanwhile, parts of southern Alaska received significant, mid-month precipitation, with more than an inch falling on June 16 in Yakutat (1.53 inches) and Sitka (1.26 inches, a record for the date). Later, on June 23, warmth in southern Alaska resulted in a daily-record high of 71°F in Sitka. Toward month's end, showery weather and mostly near- or below-normal temperatures prevailed. Anchorage received monthly rainfall totaling 1.74 inches (171 percent of normal), aided by a daily-record total of 0.52 inch on June 28. Additionally, June precipitation totaled 150 to 250 percent of normal in locations such as Utqiagvik (0.99 inch), Kotzebue (1.07 inches), Bettles (2.37 inches), Talkeetna (3.59 inches), and Sitka (4.82 inches). Talkeetna's wettest day of the month was June 29, with 1.07 inches.

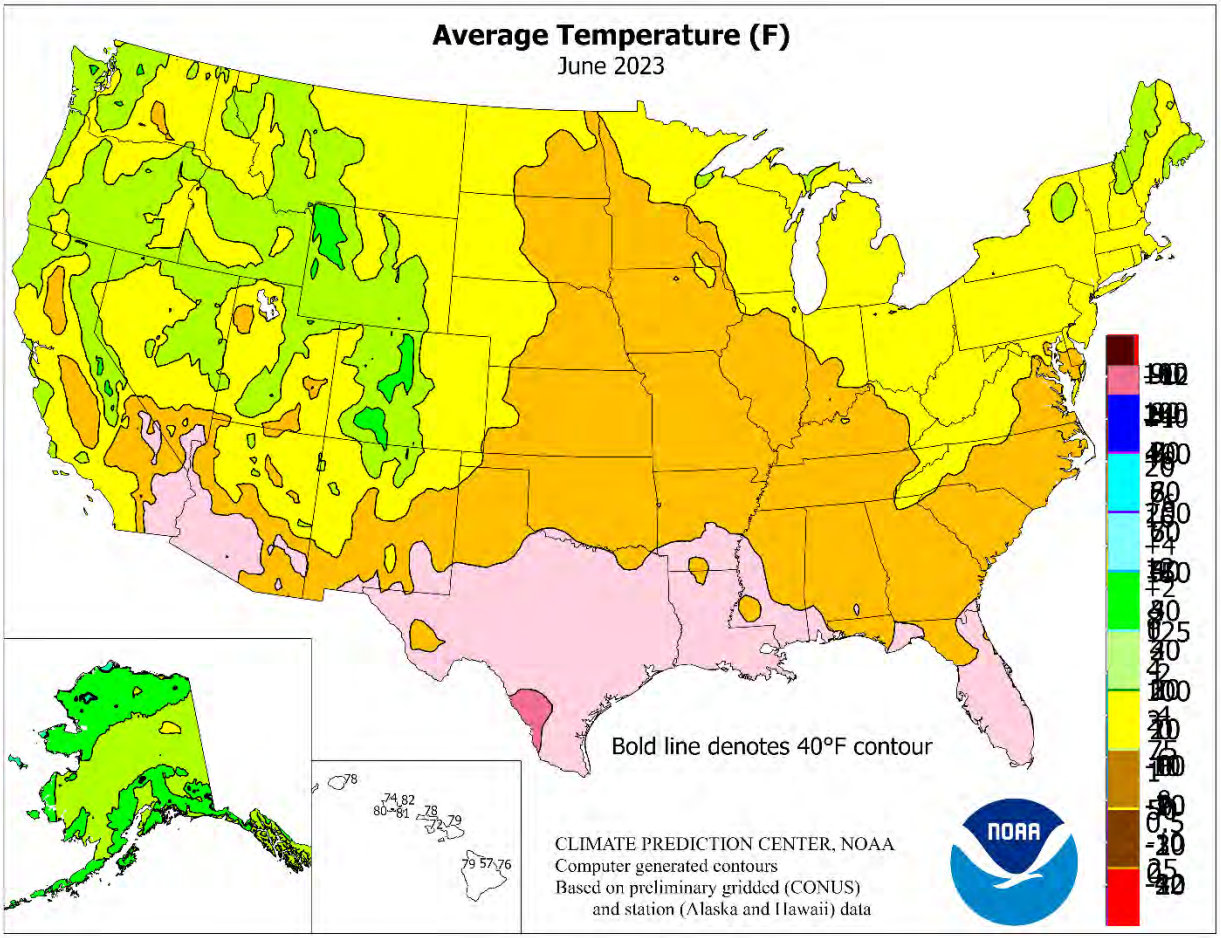
June is typically a rather quiet month in Hawaii, and this year was no exception, although many locations reported even lighter rain than usual. As a result, moderate drought (D1) covered more than 10 percent of Hawaii by the end of June, versus no drought at the beginning of the month. There were also some scattered daily-record highs, with Lihue, Kauai, reporting 87°F on June 22. At the state's major airport observation sites, June rainfall ranged from 0.12 inch (71 percent of normal) in Kahului, Maui, to 4.38 inches (60 percent) in Hilo, on the Big Island.

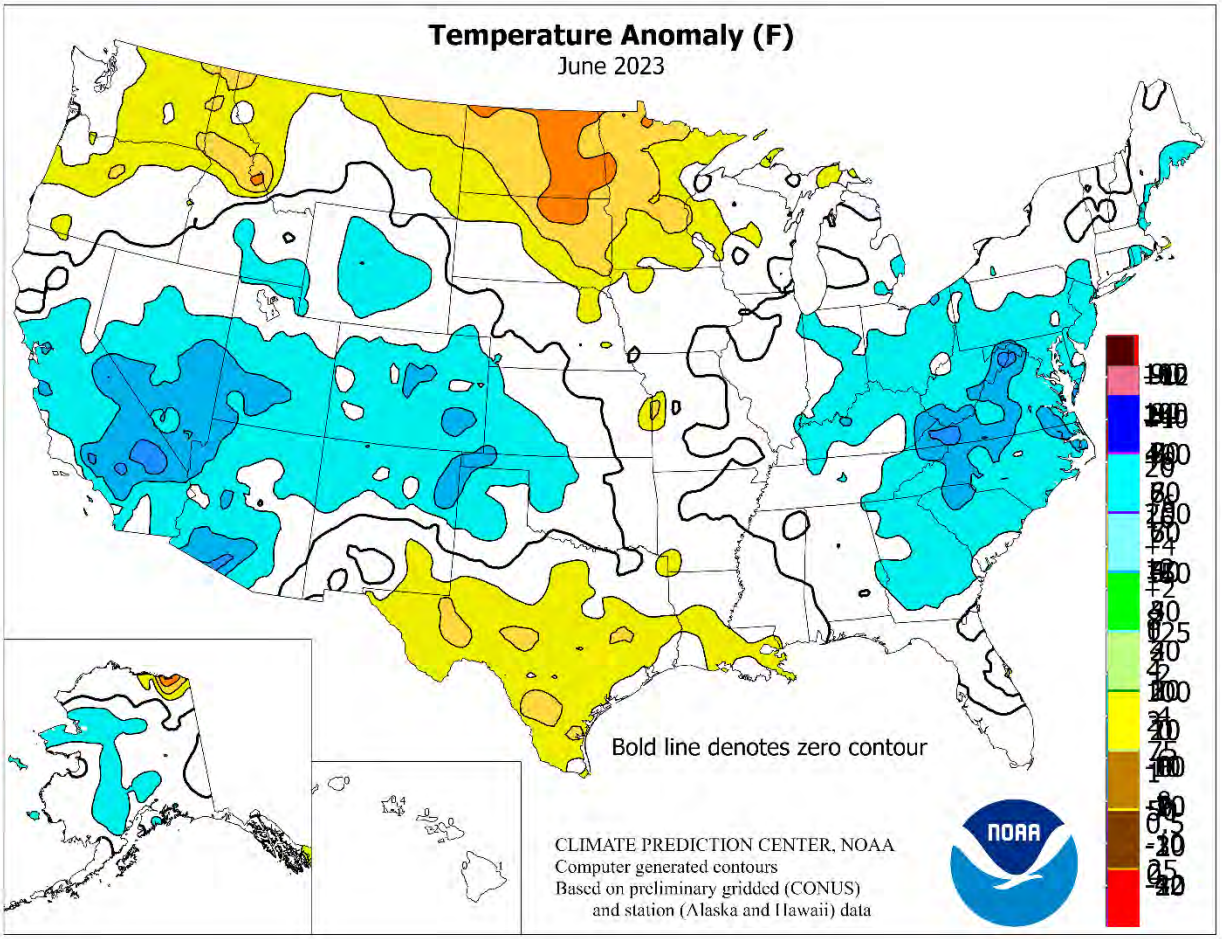

Total Precipitation (inches)
June 2023
24
20
16
12
8
4
2
1
0.5
0
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Gridded data from AHPS acquired
from: water.weather.gov/precip
Station data from CPC
NOAA


Percent of Normal Precipitation
June 2023
24
20
16
12
8
4
2
1
0.5
0
Bold line denotes 100% contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Gridded data from AHPS acquired
from: water.weather.gov/precip
Station data from CPC
Gridded normals: PRISM 1981-2010
NOAA


Extreme Maximum Temperature (F)
June 2023
Bold line denotes 95°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS)
and station (Alaska and Hawaii) data
NOAA


Extreme Minimum Temperature (F)
June 2023
Bold line denotes 32°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS)
and station (Alaska and Hawaii) data
NOAA


Average Temperature (F)
June 2023
Bold line denotes 40°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS)
and station (Alaska and Hawaii) data
NOAA


Temperature Anomaly (F)
June 2023
Bold line denotes zero contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS)
and station (Alaska and Hawaii) data
NOAA

# National Weather Data for Selected Cities

## June 2023

### Data Provided by Climate Prediction Center

| STATES AND STATIONS | TEMP, ˚F | | PRECIP. | |
|---|---|---|---|---|
| | AVERAGE | DEPARTURE | TOTAL | DEPARTURE |
| AK ANCHORAGE | 54 | -2 | 1.75 | 0.73 |
| BARROW | 37 | 0 | 1.00 | 0.57 |
| FAIRBANKS | 61 | 0 | 1.64 | 0.16 |
| JUNEAU | 55 | 1 | 4.43 | 0.61 |
| KODIAK | 50 | -1 | 7.10 | 1.93 |
| NOME | 47 | -1 | 0.77 | -0.22 |
| AL BIRMINGHAM | 78 | 0 | 1.37 | -3.42 |
| HUNTSVILLE | 77 | -1 | 3.31 | -0.75 |
| MOBILE | 82 | 2 | 7.09 | 0.54 |
| MONTGOMERY | 79 | -1 | 4.71 | 0.63 |
| AR FORT SMITH | 80 | 2 | 2.78 | -1.78 |
| LITTLE ROCK | 81 | 3 | 4.49 | 0.94 |
| AZ FLAGSTAFF | 57 | -4 | 0.43 | 0.13 |
| PHOENIX | 89 | -2 | 0.00 | -0.02 |
| PRESCOTT | 67 | -5 | 0.00 | -0.35 |
| TUCSON | 85 | -1 | 0.00 | -0.24 |
| CA BAKERSFIELD | 75 | -4 | 0.35 | 0.30 |
| EUREKA | 55 | -1 | 0.09 | -0.61 |
| FRESNO | 75 | -3 | 0.00 | -0.24 |
| LOS ANGELES | 63 | -3 | 0.01 | -0.06 |
| REDDING | 77 | 0 | 0.14 | -0.61 |
| SACRAMENTO | 69 | -3 | 0.00 | -0.23 |
| SAN DIEGO | 65 | -2 | 0.03 | -0.02 |
| SAN FRANCISCO | 62 | -1 | 0.01 | -0.13 |
| STOCKTON | 71 | -3 | 0.00 | -0.10 |
| CO ALAMOSA | 58 | -2 | 0.16 | -0.27 |
| CO SPRINGS | 64 | -3 | 9.56 | 7.30 |
| DENVER INTL | 64 | -4 | 5.96 | 4.02 |
| GRAND JUNCTION | 71 | -2 | 0.27 | -0.14 |
| PUEBLO | 69 | -3 | 3.47 | 2.20 |
| CT BRIDGEPORT | 67 | -3 | 1.52 | -2.24 |
| HARTFORD | 68 | -1 | 1.28 | -3.00 |
| DC WASHINGTON | 74 | -2 | 2.06 | -2.14 |
| DE WILMINGTON | 71 | -1 | 11.78 | 7.11 |
| FL DAYTONA BEACH | 81 | 0 | 6.17 | -0.76 |
| JACKSONVILLE | 80 | 0 | 5.72 | -1.89 |
| KEY WEST | 85 | 1 | 2.59 | -1.65 |
| MIAMI | 84 | 1 | 7.69 | -2.81 |
| ORLANDO | 82 | 1 | 7.06 | -0.98 |
| PENSACOLA | 82 | 0 | 13.78 | 6.46 |
| TALLAHASSEE | 81 | 0 | 5.66 | -2.10 |
| TAMPA | 83 | 0 | 4.21 | -3.15 |
| WEST PALM BEACH | 82 | 1 | 11.20 | 2.72 |
| GA ATHENS | 74 | -4 | 7.89 | 3.01 |
| ATLANTA | 77 | -1 | 4.33 | -0.20 |
| AUGUSTA | 75 | -5 | 5.63 | 0.87 |
| COLUMBUS | 78 | -3 | 7.78 | 3.75 |
| MACON | 77 | -3 | 6.03 | 1.59 |
| SAVANNAH | 78 | -2 | 6.80 | 0.15 |
| HI HILO | 76 | 0 | 4.50 | -2.80 |
| HONOLULU | 81 | 0 | 0.38 | -0.11 |
| KAHULUI | 79 | 0 | 0.12 | -0.05 |
| LIHUE | 78 | 0 | 1.03 | -0.76 |
| IA BURLINGTON | 72 | -1 | 2.81 | -2.06 |
| CEDAR RAPIDS | 71 | 1 | 2.25 | -3.30 |
| DES MOINES | 74 | 1 | 3.19 | -2.07 |
| DUBUQUE | 70 | 1 | 2.19 | -3.00 |
| SIOUX CITY | 72 | 1 | 1.79 | -2.56 |
| WATERLOO | 72 | 1 | 2.16 | -3.56 |
| ID BOISE | 69 | 1 | 0.25 | -0.50 |
| LEWISTON | 71 | 5 | 1.01 | -0.24 |
| POCATELLO | 61 | -1 | 0.38 | -0.55 |
| IL CHICAGO/O_HARE | 71 | 0 | 2.34 | -1.76 |
| MOLINE | 73 | 1 | 1.99 | -3.01 |
| PEORIA | 74 | 1 | 1.50 | -2.22 |
| ROCKFORD | 70 | -1 | 1.88 | -3.35 |
| SPRINGFIELD | 72 | -1 | 1.37 | -3.24 |
| IN EVANSVILLE | 74 | -1 | 3.09 | -1.35 |
| FORT WAYNE | 69 | -2 | 1.30 | -3.18 |
| INDIANAPOLIS | 71 | -1 | 1.43 | -3.52 |
| SOUTH BEND | 68 | 0 | 2.13 | -1.92 |
| KS CONCORDIA | 76 | 1 | 3.54 | -0.28 |
| DODGE CITY | 72 | -3 | 5.96 | 2.67 |
| GOODLAND | 68 | -2 | 5.50 | 2.53 |
| TOPEKA | 77 | 2 | 1.82 | -3.10 |
| WICHITA | 76 | -1 | 4.66 | -0.27 |
| KY LEXINGTON | 71 | -2 | 6.67 | 1.70 |
| LOUISVILLE | 74 | -2 | 4.12 | -0.15 |
| PADUCAH | 76 | -1 | 1.07 | -3.44 |
| LA BATON ROUGE | 84 | 3 | 3.54 | -2.92 |
| LAKE CHARLES | 81 | -1 | 2.38 | -4.16 |
| NEW ORLEANS | 85 | 2 | 1.55 | -6.06 |
| SHREVEPORT | 83 | 2 | 0.00 | -4.78 |
| MA BOSTON | 66 | -2 | 3.06 | -0.83 |
| WORCESTER | 65 | -1 | 4.74 | 0.53 |
| MD BALTIMORE | 72 | -2 | 4.28 | 0.30 |
| ME CARIBOU | 61 | 0 | 3.20 | -0.69 |
| PORTLAND | 61 | -3 | 5.55 | 1.40 |
| MI ALPENA | 63 | 0 | 1.57 | -1.17 |
| GRAND RAPIDS | 69 | 0 | 1.67 | -2.26 |
| HOUGHTON LAKE | 62 | -1 | 2.16 | 0.02 |
| LANSING | 69 | 1 | 0.88 | -2.88 |
| MUSKEGON | 69 | 1 | 0.58 | -2.47 |
| TRAVERSE CITY | 66 | 0 | 3.28 | 0.71 |
| MN DULUTH | 63 | 2 | 4.07 | -0.32 |
| INT_L FALLS | 66 | 5 | 2.79 | -0.99 |
| MINNEAPOLIS | 75 | 5 | 0.91 | -3.67 |
| ROCHESTER | 70 | 2 | 1.35 | -4.00 |
| ST. CLOUD | 71 | 5 | 0.66 | -3.09 |
| MO COLUMBIA | 76 | 1 | 2.86 | -1.37 |
| KANSAS CITY | 75 | 1 | 2.48 | -2.78 |
| SAINT LOUIS | 77 | 1 | 3.07 | -1.42 |
| SPRINGFIELD | 75 | 0 | 1.99 | -2.48 |
| MS JACKSON | 81 | 1 | 4.56 | 0.13 |
| MERIDIAN | 80 | 0 | 8.49 | 3.85 |
| TUPELO | 80 | 0 | 4.96 | -0.04 |
| MT BILLINGS | 64 | -1 | 6.11 | 3.89 |
| BUTTE | 55 | 0 | 4.71 | 2.26 |
| CUT BANK | 60 | 2 | 1.66 | -1.07 |
| GLASGOW | 69 | 4 | 2.19 | -0.64 |
| GREAT FALLS | 60 | 1 | 3.40 | 0.68 |
| HAVRE | 65 | 2 | 2.69 | 0.20 |
| MISSOULA | 64 | 4 | 2.02 | -0.11 |
| NC ASHEVILLE | 68 | -4 | 1.89 | -2.90 |
| CHARLOTTE | 74 | -3 | 3.62 | -0.37 |
| GREENSBORO | 70 | -5 | 3.13 | -0.96 |
| HATTERAS | 73 | -4 | 5.71 | 1.31 |
| RALEIGH | 75 | -2 | 2.23 | -1.66 |
| WILMINGTON | 76 | -2 | 5.14 | -0.53 |
| ND BISMARCK | 71 | 5 | 4.52 | 1.15 |
| DICKINSON | 67 | 4 | 4.00 | 0.95 |
| FARGO | 75 | 8 | 3.73 | -0.56 |
| GRAND FORKS | 71 | 7 | 2.20 | -1.57 |
| JAMESTOWN | 72 | 7 | 3.95 | 0.59 |
| NE GRAND ISLAND | 74 | 1 | 1.93 | -2.09 |
| LINCOLN | 75 | 2 | 4.53 | 0.04 |
| NORFOLK | 73 | 3 | 3.30 | -1.07 |
| NORTH PLATTE | 69 | 0 | 2.54 | -1.00 |
| OMAHA | 75 | 2 | 2.50 | -1.95 |
| SCOTTSBLUFF | 67 | -1 | 3.68 | 1.14 |
| VALENTINE | 69 | 0 | 5.79 | 1.83 |
| NH CONCORD | 64 | -1 | 3.94 | 0.17 |
| NJ ATLANTIC_CITY | 68 | -4 | 2.54 | -1.04 |
| NEWARK | 71 | -1 | 2.66 | -1.68 |
| NM ALBUQUERQUE | 75 | -2 | 0.00 | -0.57 |
| NV ELY | 56 | -5 | 0.98 | 0.42 |
| LAS VEGAS | 83 | -5 | 0.20 | 0.16 |
| RENO | 66 | -3 | 0.63 | 0.22 |
| WINNEMUCCA | 63 | -3 | 0.33 | -0.17 |
| NY ALBANY | 67 | -1 | 2.92 | -1.14 |
| BINGHAMTON | 65 | 0 | 5.01 | 0.31 |
| BUFFALO | 67 | 0 | 2.33 | -1.04 |
| ROCHESTER | 66 | -2 | 2.53 | -0.84 |
| SYRACUSE | 67 | 0 | 5.57 | 2.00 |
| OH AKRON-CANTON | 65 | -5 | 2.36 | -2.06 |
| CINCINNATI | 71 | -2 | 2.90 | -1.85 |
| CLEVELAND | 67 | -4 | 3.98 | 0.15 |
| COLUMBUS | 69 | -3 | 3.65 | -0.69 |
| DAYTON | 69 | -3 | 3.03 | -1.11 |
| MANSFIELD | 66 | -3 | 5.59 | 0.80 |
| TOLEDO | 69 | -2 | 2.26 | -1.19 |
| YOUNGSTOWN | 66 | -2 | 1.95 | -1.95 |
| OK OKLAHOMA CITY | 77 | 0 | 2.74 | -1.75 |
| TULSA | 79 | 0 | 4.21 | -0.44 |
| OR ASTORIA | 57 | 0 | 0.74 | -1.57 |
| BURNS | 60 | 1 | 1.23 | 0.50 |
| EUGENE | 65 | 4 | 0.14 | -1.09 |
| MEDFORD | 70 | 3 | 0.44 | -0.25 |
| PENDLETON | 68 | 3 | 0.07 | -0.98 |
| PORTLAND | 66 | 2 | 1.22 | -0.41 |
| SALEM | 65 | 2 | 0.25 | -1.00 |
| PA ALLENTOWN | 67 | -4 | 3.96 | -0.44 |
| ERIE | 65 | -3 | 5.47 | 1.77 |
| MIDDLETOWN | 70 | -3 | 4.32 | 0.35 |
| PHILADELPHIA | 70 | -3 | 4.20 | 0.17 |
| PITTSBURGH | 66 | -3 | 3.77 | -0.36 |
| WILKES-BARRE | 67 | -2 | 2.46 | -1.34 |
| WILLIAMSPORT | 68 | -1 | 3.16 | -0.69 |
| RI PROVIDENCE | 63 | -5 | 3.50 | -0.31 |
| SC CHARLESTON | 78 | -1 | 4.22 | -1.99 |
| COLUMBIA | 76 | -3 | 6.11 | 1.14 |
| FLORENCE | 75 | -4 | 2.84 | -1.76 |
| GREENVILLE | 72 | -4 | 5.52 | 1.62 |
| SD ABERDEEN | 74 | 6 | 3.29 | -0.47 |
| HURON | 73 | 5 | 3.46 | -0.42 |
| RAPID CITY | 65 | 0 | 3.89 | 1.02 |
| SIOUX FALLS | 75 | 5 | 1.40 | -2.83 |
| TN BRISTOL | 69 | -4 | 3.29 | -0.63 |
| CHATTANOOGA | 75 | -3 | 5.46 | 1.28 |
| KNOXVILLE | 72 | -3 | 5.84 | 1.60 |
| MEMPHIS | 79 | -1 | 5.06 | 1.07 |
| NASHVILLE | 76 | -1 | 3.34 | -1.02 |
| TX ABILENE | 82 | 1 | 4.04 | 0.60 |
| AMARILLO | 73 | -3 | 4.07 | 1.22 |
| AUSTIN | 86 | 3 | 1.08 | -2.60 |
| BEAUMONT | 83 | 1 | 3.22 | -3.47 |
| BROWNSVILLE | 87 | 2 | 1.09 | -1.77 |
| CORPUS CHRISTI | 87 | 3 | 0.80 | -2.76 |
| DEL RIO | 90 | 5 | 0.09 | -2.22 |
| EL PASO | 86 | 2 | 0.03 | -0.70 |
| FORT WORTH | 84 | 2 | 0.76 | -2.94 |
| GALVESTON | 83 | 0 | 1.78 | -2.45 |
| HOUSTON | 85 | 2 | 2.54 | -3.46 |
| LUBBOCK | 79 | 0 | 1.69 | -0.89 |
| MIDLAND | 85 | 2 | 0.06 | -1.74 |
| SAN ANGELO | 86 | 3 | 1.61 | -0.70 |
| SAN ANTONIO | 86 | 3 | 0.87 | -2.41 |
| VICTORIA | 85 | 3 | 0.37 | -3.84 |
| WACO | 83 | 1 | 0.40 | -2.94 |
| WICHITA FALLS | 82 | 2 | 1.17 | -2.19 |
| UT SALT LAKE CITY | 71 | 0 | 0.38 | -0.56 |
| VA LYNCHBURG | 69 | -3 | 4.07 | 0.25 |
| NORFOLK | 73 | -4 | 7.07 | 2.65 |
| RICHMOND | 72 | -3 | 3.62 | -1.02 |
| ROANOKE | 71 | -3 | 3.99 | -0.67 |
| WASH/DULLES | 70 | -2 | 2.27 | -2.04 |
| VT BURLINGTON | 67 | -1 | 3.87 | -0.38 |
| WA OLYMPIA | 60 | 1 | 0.80 | -0.66 |
| QUILLAYUTE | 57 | 1 | 0.67 | -2.63 |
| SEATTLE-TACOMA | 62 | 0 | 1.19 | -0.26 |
| SPOKANE | 67 | 4 | 0.87 | -0.30 |
| YAKIMA | 69 | 3 | 0.07 | -0.43 |
| WI EAU CLAIRE | 70 | 3 | 1.53 | -3.30 |
| GREEN BAY | 68 | 1 | 3.54 | -0.56 |
| LA CROSSE | 73 | 2 | 1.72 | -3.36 |
| MADISON | 69 | 1 | 1.13 | -4.15 |
| MILWAUKEE | 67 | 0 | 1.81 | -2.57 |
| WV BECKLEY | 64 | -4 | 1.56 | -2.74 |
| CHARLESTON | 68 | -4 | 1.91 | -2.81 |
| ELKINS | 63 | -4 | 4.13 | -0.35 |
| HUNTINGTON | 69 | -4 | 1.14 | -3.06 |
| WY CASPER | 60 | -2 | 3.26 | 1.92 |
| CHEYENNE | 61 | -2 | 3.50 | 1.33 |
| LANDER | 60 | -3 | 3.15 | 2.06 |
| SHERIDAN | 63 | 1 | 5.33 | 3.35 |

**Based on 1991-2020 normals**

***** Not Available**

# National Agricultural Summary

**July 3 - 9, 2023**

*Weekly National Agricultural Summary provided by USDA/NASS*

## HIGHLIGHTS

**During the week ending July 9, while most of the Pacific Northwest, Southern Rockies, and Southwest remained drier than normal, parts of the Mid-Atlantic, Midwest, Northeast, Great Plains, Central and Northern Rockies, and South recorded at least twice the normal amount of precipitation. Locations in southern Kansas recorded 7 inches or more of rain for the week. Most of the eastern half of the Nation, as well as most of the Pacific Northwest, Southwest, and Texas, were warmer than normal for the week ending July 9. Parts of Maine and Washington recorded temperatures 8°F or more above normal. In contrast, much of the California coast, Midwest, Great Plains, and Rockies were cooler than normal. Parts of the Central and Northern Plains recorded temperatures 8°F or more below normal.**

**Corn:** By July 9, twenty-two percent of the Nation's corn acreage had reached the silking stage, 8 percentage points ahead of last year and 1 percentage point ahead of the 5-year average. By July 9, three percent of the corn acreage was at or beyond the dough stage, 1 percentage point ahead of both last year and the 5-year average. On July 9, fifty-five percent of the Nation's corn acreage was rated in good to excellent condition, 4 percentage points above the previous week but 9 percentage points below the previous year. In Iowa, the largest corn producing State, 61 percent of the corn crop was rated in good to excellent condition.

**Soybean:** By July 9, thirty-nine percent of the Nation's soybean acreage had reached the blooming stage, 9 percentage points ahead of last year and 4 percentage points ahead of the 5-year average. Nationally, 10 percent of the Nation's soybean acreage had begun setting pods, 4 percentage points ahead of last year and 3 percentage points ahead of the 5-year average. On July 9, fifty-one percent of the Nation's soybean acreage was rated in good to excellent condition, 1 percentage point above the previous week but 11 percentage points below the previous year.

**Winter Wheat:** Forty-six percent of the 2023 winter wheat acreage had been harvested by July 9, sixteen percentage points behind last year and 13 percentage points behind the 5-year average. On July 9, forty percent of the 2023 winter wheat crop was reported in good to excellent condition, unchanged from the previous week but 9 percentage points above the same time last year. In Kansas, the largest winter wheat producing State, 51 percent of the winter wheat crop was rated in poor to very poor condition.

**Cotton:** Fifty-five percent of the Nation's cotton acreage had reached the squaring stage by July 9, equal to both last year and the 5-year average. By July 9, seventeen percent of the Nation's cotton acreage had begun setting bolls, 4 percentage points behind last year and 1 percentage point behind the 5-year average. On July 9, forty-eight percent of the 2023 cotton acreage was rated in good to excellent condition, unchanged from the previous week but 9 percentage points above the previous year.

**Sorghum:** Ninety-six percent of the Nation's sorghum acreage was planted by July 9, three percentage points behind both the previous year and the 5-year average. By July 9, twenty-five percent of the Nation's sorghum acreage had reached the headed stage, 1 percentage point ahead of last year but equal to the 5-year average. Fifteen percent of the Nation's sorghum acreage was at or beyond the coloring stage by July 9, equal to both last year and the 5-year average. Fifty-five percent of the Nation's sorghum acreage was rated in good to excellent condition on July 9, unchanged from the previous week but 15 percentage points above the previous year.

**Rice:** By July 9, thirty percent of the Nation's rice acreage had reached the headed stage, 10 percentage points ahead of both the previous year and the 5-year average. On July 9, seventy-six percent of the Nation's rice acreage was rated in good to excellent condition, 6 percentage points above the previous week but 1 percentage point below the same time last year.

**Small Grains:** Eighty-seven percent of the Nation's oat acreage had headed by July 9, eleven percentage points ahead of last year and 1 percentage point ahead of the 5-year average. On July 9, forty-seven percent of the Nation's oat acreage was rated in good to excellent condition, 2 percentage points above the previous week but 11 percentage points below the same time last year.

Sixty-four percent of the Nation's barley acreage had reached the headed stage by July 9, four percentage points ahead of last year but 4 percentage points behind the 5-year average. On July 9, fifty-two percent of the Nation's barley acreage was rated in good to excellent condition, 1 percentage point above the previous week but 6 percentage points below the same time last year.

By July 9, seventy-two percent of the Nation's spring wheat crop had reached the headed stage, 31 percentage points ahead of the previous year and 5 percentage points ahead of the 5-year average. On July 9, forty-seven percent of the Nation's spring wheat was rated in good to excellent condition, 1 percentage point below the previous week and 23 percentage points below the same time last year.

**Other Crops:** By July 9, fifty-four percent of the Nation's peanut crop had reached the pegging stage, 7 percentage points behind the previous year and 6 percentage points behind the 5-year average. In Georgia, the largest peanut producing State, 65 percent of the peanut crop had reached the pegging stage, 8 percentage points behind the previous year and 9 percentage points behind the 5-year average. On July 9, sixty-five percent of the Nation's peanut acreage was rated in good to excellent condition, 1 percentage point above the previous week and 2 percentage points above the same time last year.

# Crop Progress and Condition

## Week Ending July 9, 2023

Weekly U.S. Progress and Condition Data provided by USDA/NASS

### Corn Percent Silking

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| CO | 9 | 0 | 0 | 6 |
| IL | 13 | 5 | 27 | 33 |
| IN | 14 | 7 | 15 | 22 |
| IA | 6 | 4 | 22 | 17 |
| KS | 32 | 19 | 36 | 35 |
| KY | 48 | 23 | 38 | 50 |
| MI | 2 | 0 | 3 | 3 |
| MN | 2 | 3 | 15 | 8 |
| MO | 33 | 21 | 52 | 43 |
| NE | 7 | 3 | 21 | 15 |
| NC | 67 | 55 | 74 | 75 |
| ND | 9 | 3 | 9 | 5 |
| OH | 6 | 0 | 8 | 11 |
| PA | 2 | 0 | 0 | 6 |
| SD | 0 | 1 | 7 | 6 |
| TN | 64 | 51 | 71 | 66 |
| TX | 73 | 73 | 75 | 74 |
| WI | 1 | 0 | 2 | 4 |
| 18 Sts | 14 | 8 | 22 | 21 |

These 18 States planted 92% of last year's corn acreage.

### Corn Percent Dough

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| CO | 3 | NA | 0 | 1 |
| IL | 0 | NA | 1 | 1 |
| IN | 0 | NA | 0 | 0 |
| IA | 0 | NA | 1 | 0 |
| KS | 2 | NA | 4 | 4 |
| KY | 3 | NA | 2 | 3 |
| MI | 0 | NA | 0 | 0 |
| MN | 0 | NA | 1 | 0 |
| MO | 2 | NA | 3 | 1 |
| NE | 0 | NA | 0 | 0 |
| NC | 27 | 10 | 25 | 24 |
| ND | 0 | NA | 0 | 0 |
| OH | 0 | NA | 0 | 0 |
| PA | 0 | NA | 0 | 0 |
| SD | 0 | NA | 0 | 0 |
| TN | 10 | 4 | 15 | 17 |
| TX | 52 | 45 | 57 | 54 |
| WI | 0 | NA | 0 | 0 |
| 18 Sts | 2 | NA | 3 | 2 |

These 18 States planted 92% of last year's corn acreage.

### Corn Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| CO | 2 | 10 | 13 | 60 | 15 |
| IL | 9 | 17 | 35 | 33 | 6 |
| IN | 4 | 9 | 34 | 48 | 5 |
| IA | 2 | 7 | 30 | 53 | 8 |
| KS | 5 | 8 | 32 | 47 | 8 |
| KY | 2 | 8 | 37 | 43 | 10 |
| MI | 8 | 14 | 42 | 30 | 6 |
| MN | 2 | 8 | 29 | 48 | 13 |
| MO | 12 | 27 | 36 | 23 | 2 |
| NE | 5 | 10 | 23 | 41 | 21 |
| NC | 0 | 2 | 17 | 72 | 9 |
| ND | 1 | 5 | 27 | 62 | 5 |
| OH | 1 | 4 | 28 | 57 | 10 |
| PA | 4 | 16 | 40 | 30 | 10 |
| SD | 2 | 7 | 35 | 47 | 9 |
| TN | 2 | 6 | 24 | 51 | 17 |
| TX | 3 | 7 | 26 | 51 | 13 |
| WI | 3 | 14 | 38 | 39 | 6 |
| 18 Sts | 4 | 10 | 31 | 45 | 10 |
| Prev Wk | 4 | 11 | 34 | 43 | 8 |
| Prev Yr | 3 | 7 | 26 | 52 | 12 |

### Soybeans Percent Blooming

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| AR | 75 | 80 | 84 | 70 |
| IL | 26 | 25 | 40 | 34 |
| IN | 29 | 13 | 22 | 31 |
| IA | 31 | 25 | 46 | 38 |
| KS | 14 | 16 | 32 | 27 |
| KY | 29 | 18 | 33 | 25 |
| LA | 92 | 73 | 85 | 86 |
| MI | 33 | 10 | 23 | 23 |
| MN | 20 | 29 | 51 | 34 |
| MS | 85 | 78 | 84 | 74 |
| MO | 18 | 22 | 37 | 23 |
| NE | 38 | 20 | 43 | 42 |
| NC | 36 | 20 | 32 | 25 |
| ND | 20 | 10 | 37 | 25 |
| OH | 29 | 4 | 11 | 32 |
| SD | 17 | 13 | 23 | 27 |
| TN | 32 | 39 | 55 | 32 |
| WI | 27 | 8 | 22 | 32 |
| 18 Sts | 30 | 24 | 39 | 35 |

These 18 States planted 95% of last year's soybean acreage.

### Soybeans Percent Setting Pods

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| AR | 40 | 40 | 49 | 34 |
| IL | 2 | 1 | 10 | 7 |
| IN | 4 | 0 | 2 | 7 |
| IA | 3 | 2 | 7 | 6 |
| KS | 1 | 1 | 10 | 3 |
| KY | 3 | 2 | 6 | 4 |
| LA | 77 | 29 | 53 | 63 |
| MI | 6 | 0 | 1 | 2 |
| MN | 1 | 1 | 12 | 4 |
| MS | 45 | 38 | 61 | 34 |
| MO | 3 | 2 | 6 | 4 |
| NE | 2 | 0 | 3 | 5 |
| NC | 10 | 1 | 6 | 6 |
| ND | 0 | 0 | 6 | 1 |
| OH | 4 | 0 | 1 | 3 |
| SD | 0 | 0 | 0 | 2 |
| TN | 6 | 8 | 21 | 8 |
| WI | 1 | 0 | 1 | 4 |
| 18 Sts | 6 | 4 | 10 | 7 |

These 18 States planted 95% of last year's soybean acreage.

### Soybean Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| AR | 1 | 9 | 29 | 49 | 12 |
| IL | 11 | 18 | 35 | 31 | 5 |
| IN | 3 | 8 | 34 | 49 | 6 |
| IA | 4 | 8 | 36 | 46 | 6 |
| KS | 2 | 7 | 34 | 51 | 6 |
| KY | 1 | 10 | 34 | 47 | 8 |
| LA | 0 | 4 | 17 | 71 | 8 |
| MI | 9 | 18 | 43 | 25 | 5 |
| MN | 2 | 6 | 31 | 52 | 9 |
| MS | 2 | 5 | 21 | 57 | 15 |
| MO | 9 | 23 | 42 | 23 | 3 |
| NE | 7 | 12 | 26 | 41 | 14 |
| NC | 0 | 1 | 27 | 66 | 6 |
| ND | 2 | 10 | 37 | 47 | 4 |
| OH | 1 | 6 | 34 | 50 | 9 |
| SD | 2 | 8 | 37 | 46 | 7 |
| TN | 1 | 6 | 28 | 48 | 17 |
| WI | 4 | 16 | 38 | 37 | 5 |
| 18 Sts | 4 | 11 | 34 | 44 | 7 |
| Prev Wk | 4 | 11 | 35 | 44 | 6 |
| Prev Yr | 2 | 7 | 29 | 52 | 10 |

# Crop Progress and Condition

## Week Ending July 9, 2023

Weekly U.S. Progress and Condition Data provided by USDA/NASS

### Cotton Percent Squaring

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| AL | 78 | 64 | 75 | 70 |
| AZ | 97 | 57 | 77 | 93 |
| AR | 89 | 78 | 89 | 87 |
| CA | 63 | 45 | 55 | 64 |
| GA | 74 | 53 | 69 | 73 |
| KS | 64 | 41 | 57 | 52 |
| LA | 93 | 61 | 74 | 88 |
| MS | 65 | 40 | 65 | 62 |
| MO | 71 | 72 | 76 | 57 |
| NC | 55 | 34 | 52 | 61 |
| OK | 37 | 23 | 30 | 36 |
| SC | 66 | 27 | 42 | 58 |
| TN | 62 | 55 | 80 | 63 |
| TX | 44 | 36 | 46 | 46 |
| VA | 76 | 47 | 59 | 60 |
| 15 Sts | 55 | 42 | 55 | 55 |

These 15 States planted 99% of last year's cotton acreage.

### Cotton Percent Setting Bolls

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| AL | 27 | 5 | 13 | 23 |
| AZ | 56 | 17 | 36 | 42 |
| AR | 29 | 22 | 36 | 38 |
| CA | 14 | 0 | 5 | 15 |
| GA | 23 | 10 | 17 | 25 |
| KS | 4 | 3 | 5 | 2 |
| LA | 48 | 8 | 28 | 41 |
| MS | 23 | 8 | 19 | 17 |
| MO | 30 | 0 | 6 | 18 |
| NC | 7 | 2 | 4 | 11 |
| OK | 0 | 0 | 0 | 2 |
| SC | 26 | 0 | 7 | 16 |
| TN | 20 | 15 | 26 | 15 |
| TX | 19 | 13 | 18 | 16 |
| VA | 35 | 2 | 8 | 12 |
| 15 Sts | 21 | 11 | 17 | 18 |

These 15 States planted 99% of last year's cotton acreage.

### Cotton Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| AL | 0 | 3 | 22 | 70 | 5 |
| AZ | 1 | 1 | 6 | 50 | 42 |
| AR | 1 | 5 | 25 | 45 | 24 |
| CA | 0 | 0 | 5 | 95 | 0 |
| GA | 2 | 7 | 29 | 54 | 8 |
| KS | 7 | 10 | 33 | 42 | 8 |
| LA | 0 | 1 | 11 | 83 | 5 |
| MS | 0 | 6 | 21 | 65 | 8 |
| MO | 0 | 1 | 30 | 67 | 2 |
| NC | 0 | 4 | 34 | 60 | 2 |
| OK | 0 | 7 | 42 | 50 | 1 |
| SC | 0 | 2 | 36 | 60 | 2 |
| TN | 0 | 4 | 25 | 54 | 17 |
| TX | 15 | 25 | 27 | 28 | 5 |
| VA | 0 | 0 | 2 | 98 | 0 |
| 15 Sts | 9 | 16 | 27 | 41 | 7 |
| Prev Wk | 7 | 14 | 31 | 41 | 7 |
| Prev Yr | 13 | 14 | 34 | 34 | 5 |

### Sorghum Percent Planted

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| CO | 98 | 92 | 98 | 98 |
| KS | 97 | 87 | 93 | 98 |
| NE | 100 | 100 | 100 | 100 |
| OK | 98 | 91 | 95 | 95 |
| SD | 99 | 100 | 100 | 100 |
| TX | 100 | 100 | 100 | 100 |
| 6 Sts | 99 | 92 | 96 | 99 |

These 6 States planted 100% of last year's sorghum acreage.

### Sorghum Percent Headed

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| CO | 0 | 0 | 0 | 0 |
| KS | 5 | 5 | 8 | 6 |
| NE | 6 | 2 | 3 | 9 |
| OK | 9 | 5 | 7 | 11 |
| SD | 10 | 20 | 24 | 10 |
| TX | 68 | 64 | 70 | 68 |
| 6 Sts | 24 | 21 | 25 | 25 |

These 6 States planted 100% of last year's sorghum acreage.

### Sorghum Percent Coloring

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| CO | 0 | 0 | 0 | 0 |
| KS | 0 | 1 | 2 | 0 |
| NE | 0 | 0 | 0 | 0 |
| OK | 0 | 0 | 0 | 0 |
| SD | 0 | 0 | 0 | 0 |
| TX | 49 | 40 | 50 | 50 |
| 6 Sts | 15 | 12 | 15 | 15 |

These 6 States planted 100% of last year's sorghum acreage.

### Sorghum Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| CO | 0 | 8 | 10 | 73 | 9 |
| KS | 3 | 7 | 42 | 44 | 4 |
| NE | 1 | 4 | 28 | 58 | 9 |
| OK | 0 | 2 | 34 | 58 | 6 |
| SD | 3 | 7 | 37 | 51 | 2 |
| TX | 3 | 8 | 30 | 43 | 16 |
| 6 Sts | 3 | 7 | 35 | 47 | 8 |
| Prev Wk | 2 | 6 | 37 | 49 | 6 |
| Prev Yr | 9 | 12 | 39 | 36 | 4 |

### Peanuts Percent Pegging

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| AL | 54 | 32 | 39 | 60 |
| FL | 70 | 55 | 66 | 65 |
| GA | 73 | 49 | 65 | 74 |
| NC | 48 | 28 | 48 | 49 |
| OK | 29 | 0 | 5 | 32 |
| SC | 70 | 48 | 71 | 65 |
| TX | 12 | 10 | 13 | 14 |
| VA | 55 | 33 | 46 | 43 |
| 8 Sts | 61 | 41 | 54 | 60 |

These 8 States planted 96% of last year's peanut acreage.

### Peanut Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| AL | 0 | 0 | 20 | 74 | 6 |
| FL | 0 | 1 | 20 | 79 | 0 |
| GA | 2 | 6 | 36 | 50 | 6 |
| NC | 0 | 0 | 23 | 73 | 4 |
| OK | 0 | 0 | 3 | 97 | 0 |
| SC | 0 | 0 | 16 | 83 | 1 |
| TX | 4 | 6 | 42 | 43 | 5 |
| VA | 0 | 0 | 2 | 98 | 0 |
| 8 Sts | 1 | 4 | 30 | 60 | 5 |
| Prev Wk | 1 | 3 | 32 | 60 | 4 |
| Prev Yr | 1 | 4 | 32 | 56 | 7 |

# Crop Progress and Condition

## Week Ending July 9, 2023

Weekly U.S. Progress and Condition Data provided by USDA/NASS

### Winter Wheat Percent Harvested

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| AR | 98 | 93 | 97 | 99 |
| CA | 78 | 40 | 50 | 79 |
| CO | 25 | 0 | 1 | 32 |
| ID | 0 | 0 | 1 | 2 |
| IL | 91 | 82 | 88 | 88 |
| IN | 80 | 36 | 62 | 71 |
| KS | 93 | 46 | 59 | 84 |
| MI | 7 | 0 | 3 | 8 |
| MO | 97 | 88 | 95 | 90 |
| MT | 1 | 0 | 0 | 0 |
| NE | 34 | 3 | 12 | 25 |
| NC | 90 | 86 | 93 | 91 |
| OH | 77 | 5 | 32 | 63 |
| OK | 100 | 80 | 95 | 98 |
| OR | 1 | 0 | 6 | 6 |
| SD | 9 | 1 | 9 | 6 |
| TX | 97 | 86 | 93 | 94 |
| WA | 2 | 0 | 1 | 3 |
| 18 Sts | 62 | 37 | 46 | 59 |

These 18 States harvested 90% of last year's winter wheat acreage.

### Winter Wheat Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| AR | 1 | 14 | 26 | 48 | 11 |
| CA | 0 | 0 | 20 | 60 | 20 |
| CO | 2 | 12 | 27 | 48 | 11 |
| ID | 2 | 12 | 33 | 50 | 3 |
| IL | 0 | 4 | 19 | 43 | 34 |
| IN | 2 | 4 | 22 | 59 | 13 |
| KS | 25 | 26 | 31 | 16 | 2 |
| MI | 4 | 20 | 55 | 20 | 1 |
| MO | 1 | 5 | 34 | 48 | 12 |
| MT | 1 | 2 | 45 | 35 | 17 |
| NE | 8 | 19 | 39 | 31 | 3 |
| NC | 1 | 1 | 8 | 65 | 25 |
| OH | 1 | 2 | 25 | 59 | 13 |
| OK | 10 | 12 | 33 | 44 | 1 |
| OR | 6 | 40 | 35 | 19 | 0 |
| SD | 17 | 19 | 35 | 26 | 3 |
| TX | 11 | 21 | 29 | 30 | 9 |
| WA | 2 | 13 | 31 | 49 | 5 |
| 18 Sts | 11 | 17 | 32 | 33 | 7 |
| Prev Wk | 12 | 17 | 31 | 34 | 6 |
| Prev Yr | 24 | 19 | 26 | 25 | 6 |

### Rice Percent Headed

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| AR | 4 | 8 | 15 | 5 |
| CA | 14 | 12 | 15 | 16 |
| LA | 63 | 56 | 69 | 60 |
| MS | 27 | 39 | 51 | 24 |
| MO | 6 | 12 | 22 | 6 |
| TX | 54 | 46 | 63 | 64 |
| 6 Sts | 20 | 21 | 30 | 20 |

These 6 States planted 100% of last year's rice acreage.

### Rice Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| AR | 1 | 5 | 18 | 61 | 15 |
| CA | 0 | 0 | 0 | 70 | 30 |
| LA | 1 | 1 | 38 | 53 | 7 |
| MS | 0 | 5 | 29 | 51 | 15 |
| MO | 0 | 0 | 24 | 64 | 12 |
| TX | 0 | 3 | 20 | 70 | 7 |
| 6 Sts | 1 | 3 | 20 | 61 | 15 |
| Prev Wk | 1 | 4 | 25 | 59 | 11 |
| Prev Yr | 0 | 3 | 20 | 58 | 19 |

### Spring Wheat Percent Headed

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| ID | 79 | 62 | 84 | 78 |
| MN | 30 | 67 | 90 | 79 |
| MT | 37 | 33 | 65 | 54 |
| ND | 34 | 47 | 65 | 66 |
| SD | 79 | 89 | 95 | 84 |
| WA | 72 | 90 | 98 | 89 |
| 6 Sts | 41 | 51 | 72 | 67 |

These 6 States planted 100% of last year's spring wheat acreage.

### Spring Wheat Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| ID | 1 | 4 | 29 | 62 | 4 |
| MN | 0 | 4 | 34 | 62 | 0 |
| MT | 1 | 7 | 42 | 47 | 3 |
| ND | 7 | 15 | 36 | 40 | 2 |
| SD | 12 | 17 | 42 | 28 | 1 |
| WA | 1 | 20 | 31 | 44 | 4 |
| 6 Sts | 4 | 12 | 37 | 45 | 2 |
| Prev Wk | 3 | 9 | 40 | 46 | 2 |
| Prev Yr | 1 | 4 | 25 | 63 | 7 |

### Barley Percent Headed

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| ID | 87 | 58 | 78 | 78 |
| MN | 37 | 66 | 81 | 80 |
| MT | 56 | 17 | 50 | 59 |
| ND | 42 | 42 | 70 | 68 |
| WA | 82 | 86 | 95 | 89 |
| 5 Sts | 60 | 37 | 64 | 68 |

These 5 States planted 84% of last year's barley acreage.

### Barley Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| ID | 1 | 2 | 20 | 74 | 3 |
| MN | 2 | 5 | 33 | 59 | 1 |
| MT | 1 | 6 | 50 | 35 | 8 |
| ND | 4 | 12 | 39 | 43 | 2 |
| WA | 1 | 8 | 34 | 56 | 1 |
| 5 Sts | 2 | 7 | 39 | 47 | 5 |
| Prev Wk | 1 | 6 | 42 | 49 | 2 |
| Prev Yr | 2 | 14 | 26 | 52 | 6 |

# Crop Progress and Condition

## Week Ending July 9, 2023

Weekly U.S. Progress and Condition Data provided by USDA/NASS

### Oats Percent Headed

| | Prev Year | Prev Week | Jul 9 2023 | 5-Yr Avg |
|---|---|---|---|---|
| IA | 94 | 99 | 99 | 95 |
| MN | 54 | 70 | 86 | 83 |
| NE | 99 | 83 | 96 | 97 |
| ND | 37 | 32 | 53 | 60 |
| OH | 86 | 86 | 92 | 92 |
| PA | 64 | 85 | 90 | 77 |
| SD | 86 | 94 | 98 | 87 |
| TX | 100 | 100 | 100 | 100 |
| WI | 77 | 77 | 86 | 80 |
| 9 Sts | 76 | 78 | 87 | 86 |

These 9 States planted 69% of last year's oat acreage.

### Oat Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| IA | 2 | 7 | 39 | 47 | 5 |
| MN | 3 | 10 | 40 | 44 | 3 |
| NE | 3 | 9 | 37 | 46 | 5 |
| ND | 2 | 9 | 37 | 51 | 1 |
| OH | 0 | 1 | 19 | 74 | 6 |
| PA | 0 | 1 | 34 | 59 | 6 |
| SD | 3 | 15 | 32 | 40 | 10 |
| TX | 19 | 8 | 45 | 26 | 2 |
| WI | 3 | 13 | 38 | 43 | 3 |
| 9 Sts | 6 | 9 | 38 | 43 | 4 |
| Prev Wk | 7 | 9 | 39 | 42 | 3 |
| Prev Yr | 12 | 11 | 19 | 51 | 7 |

### Pasture and Range Condition by Percent
### Week Ending MMDD, YYYY

| | VP | P | F | G | EX | | | VP | P | F | G | EX |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AL | 0 | 2 | 8 | 84 | 6 | | NH | 0 | 0 | 45 | 48 | 7 |
| AZ | 21 | 33 | 25 | 11 | 10 | | NJ | 0 | 2 | 3 | 63 | 32 |
| AR | 3 | 7 | 41 | 42 | 7 | | NM | 15 | 11 | 31 | 19 | 24 |
| CA | 0 | 10 | 15 | 35 | 40 | | NY | 1 | 5 | 36 | 45 | 13 |
| CO | 1 | 3 | 28 | 49 | 19 | | NC | 1 | 4 | 13 | 79 | 3 |
| CT | 0 | 0 | 90 | 10 | 0 | | ND | 1 | 6 | 27 | 61 | 5 |
| DE | 2 | 7 | 48 | 35 | 8 | | OH | 1 | 3 | 29 | 63 | 4 |
| FL | 0 | 2 | 20 | 45 | 33 | | OK | 1 | 5 | 23 | 65 | 6 |
| GA | 2 | 8 | 31 | 51 | 8 | | OR | 2 | 11 | 66 | 14 | 7 |
| ID | 0 | 5 | 25 | 50 | 20 | | PA | 13 | 24 | 37 | 25 | 1 |
| IL | 15 | 24 | 46 | 15 | 0 | | RI | 0 | 5 | 55 | 40 | 0 |
| IN | 4 | 11 | 37 | 45 | 3 | | SC | 1 | 2 | 31 | 63 | 3 |
| IA | 12 | 24 | 40 | 22 | 2 | | SD | 6 | 13 | 29 | 43 | 9 |
| KS | 10 | 18 | 38 | 31 | 3 | | TN | 2 | 8 | 28 | 51 | 11 |
| KY | 1 | 5 | 33 | 52 | 9 | | TX | 16 | 28 | 29 | 23 | 4 |
| LA | 3 | 12 | 38 | 40 | 7 | | UT | 0 | 2 | 31 | 55 | 12 |
| ME | 25 | 0 | 22 | 50 | 3 | | VT | 0 | 0 | 0 | 35 | 65 |
| MD | 9 | 20 | 44 | 24 | 3 | | VA | 1 | 15 | 30 | 52 | 2 |
| MA | 0 | 0 | 10 | 50 | 40 | | WA | 2 | 20 | 43 | 31 | 4 |
| MI | 13 | 40 | 33 | 12 | 2 | | WV | 3 | 13 | 31 | 42 | 11 |
| MN | 4 | 17 | 36 | 36 | 7 | | WI | 7 | 23 | 35 | 33 | 2 |
| MS | 2 | 5 | 36 | 50 | 7 | | WY | 0 | 1 | 20 | 67 | 12 |
| MO | 30 | 41 | 25 | 4 | 0 | | 48 Sts | 8 | 15 | 30 | 37 | 10 |
| MT | 1 | 8 | 32 | 49 | 10 | | | | | | | |
| NE | 3 | 11 | 34 | 44 | 8 | | Prev Wk | 8 | 17 | 30 | 35 | 10 |
| NV | 0 | 0 | 50 | 40 | 10 | | Prev Yr | 21 | 25 | 26 | 25 | 3 |

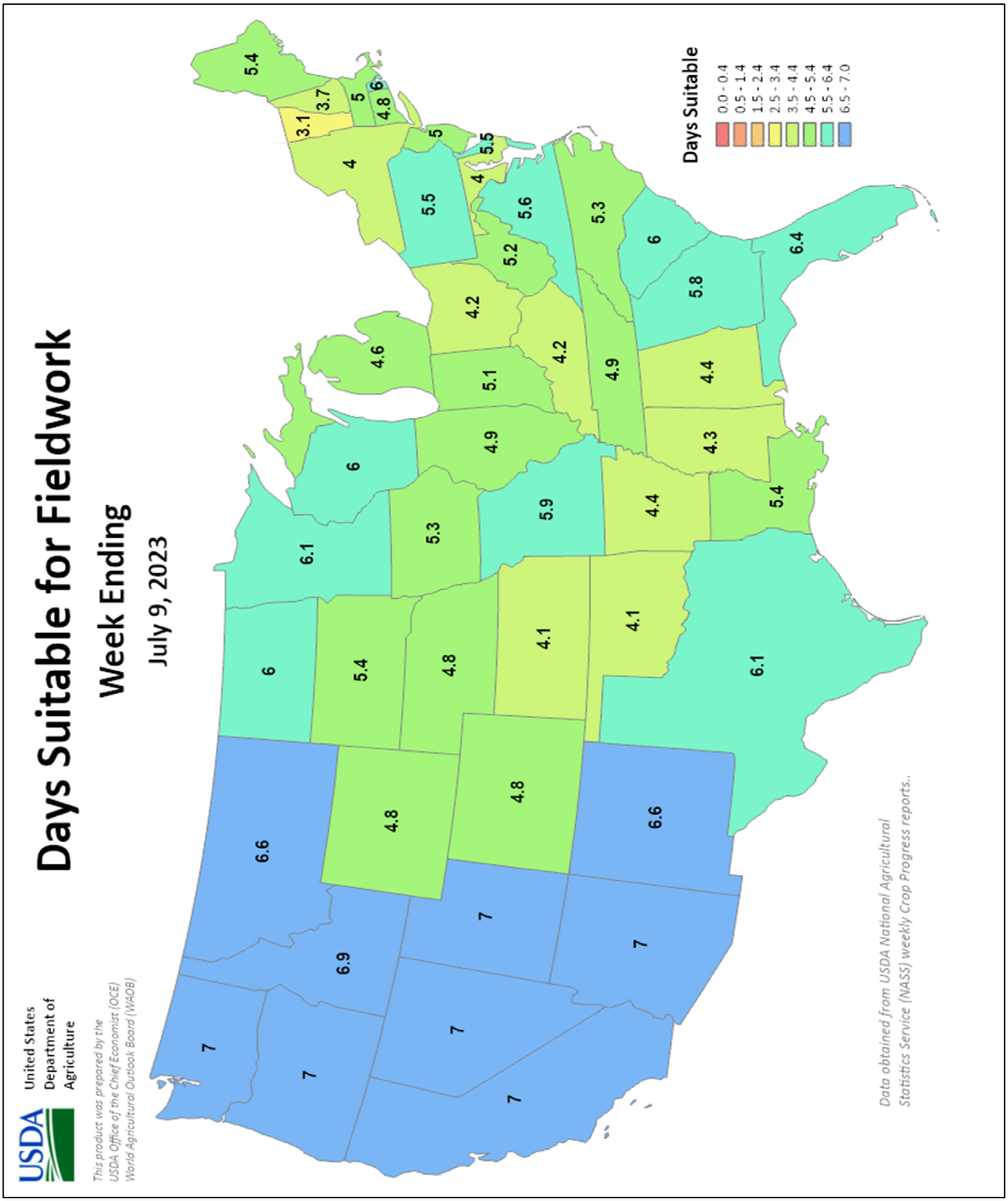
**VP - Very Poor;** **P - Poor;** **F - Fair;** **G - Good;** **EX - Excellent**

**NA - Not Available;** ***Revised**

## Crop Progress and Condition

### Week Ending July 9, 2023

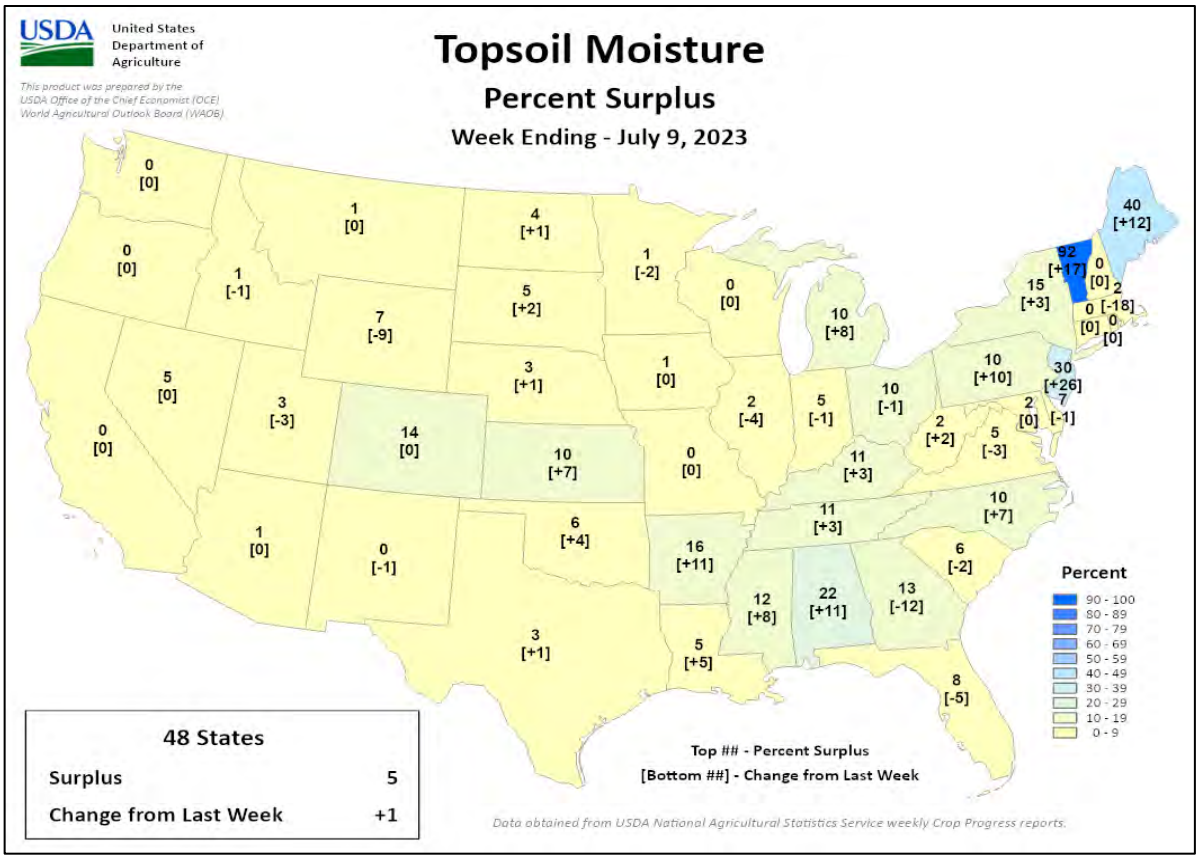
Weekly U.S. Progress and Condition Data provided by USDA/NASS

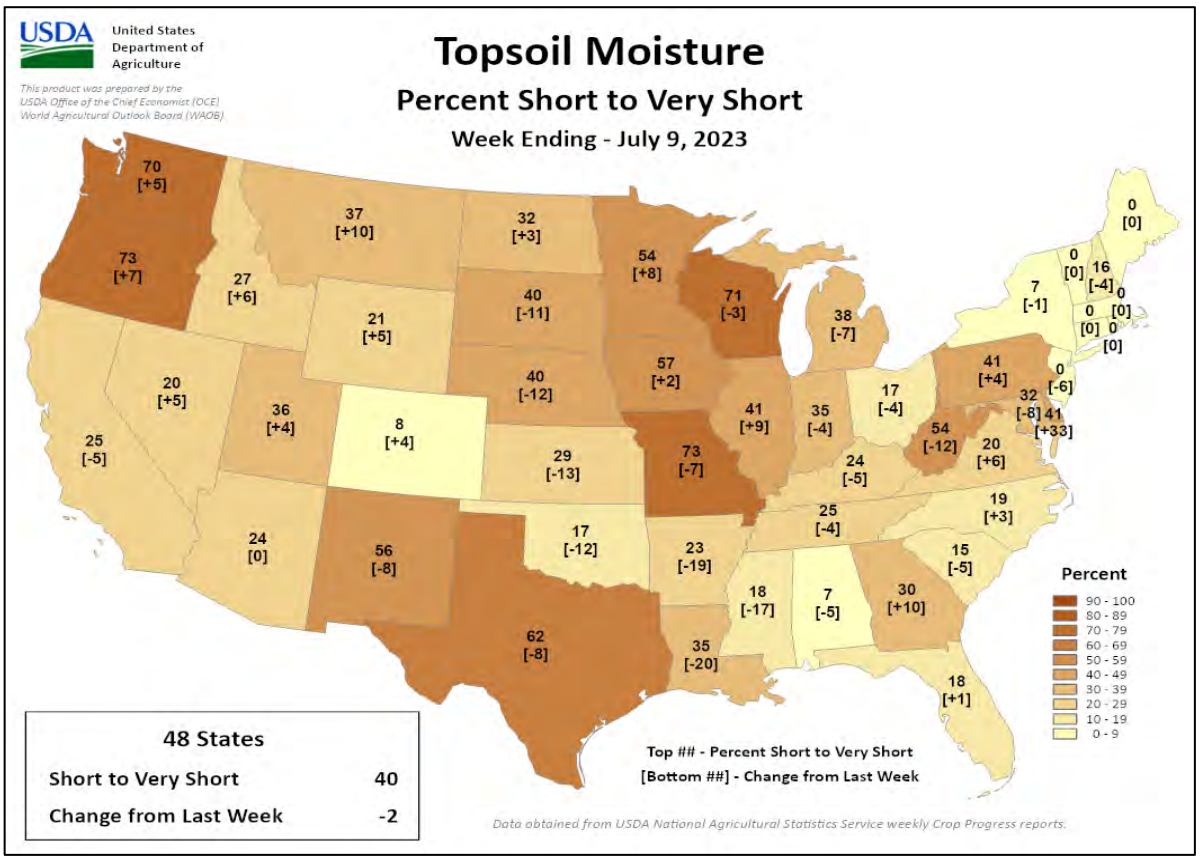


# Crop Progress and Condition

## Week Ending July 9, 2023

Weekly U.S. Progress and Condition Data provided by USDA/NASS

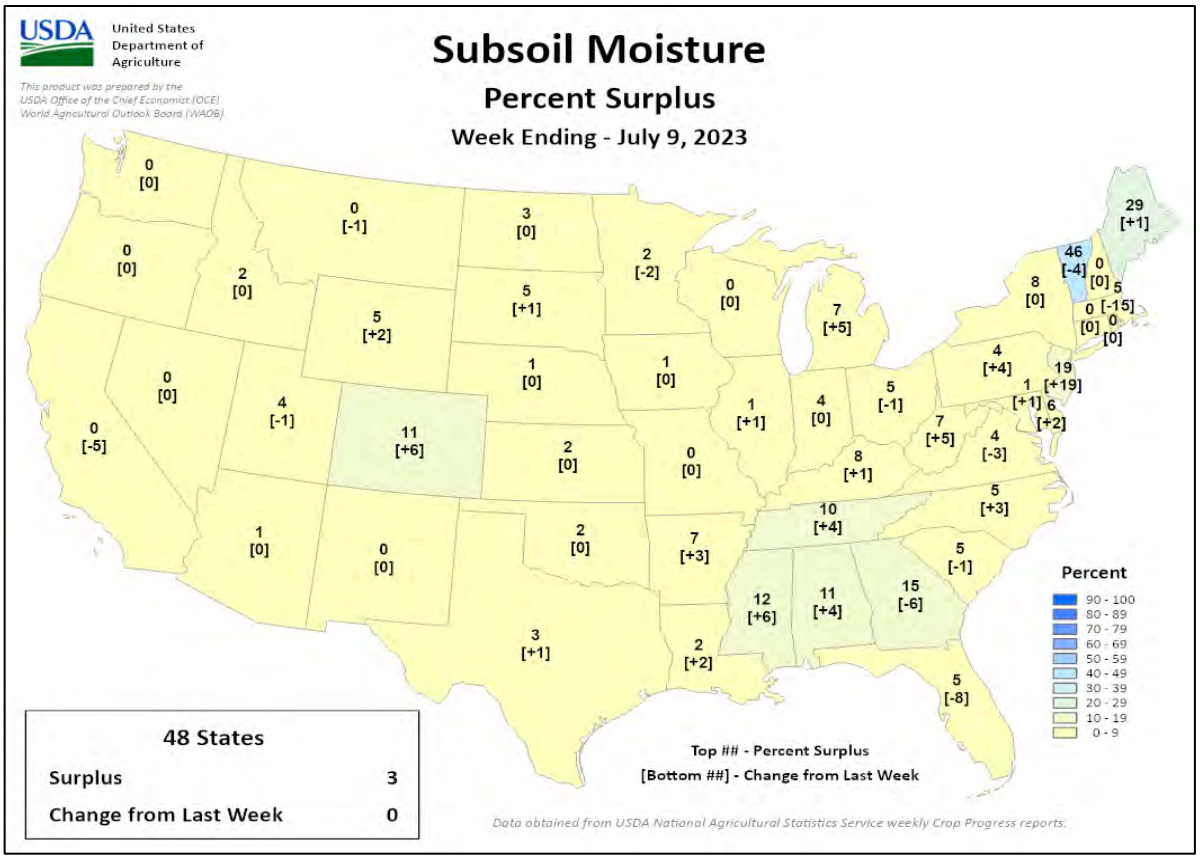


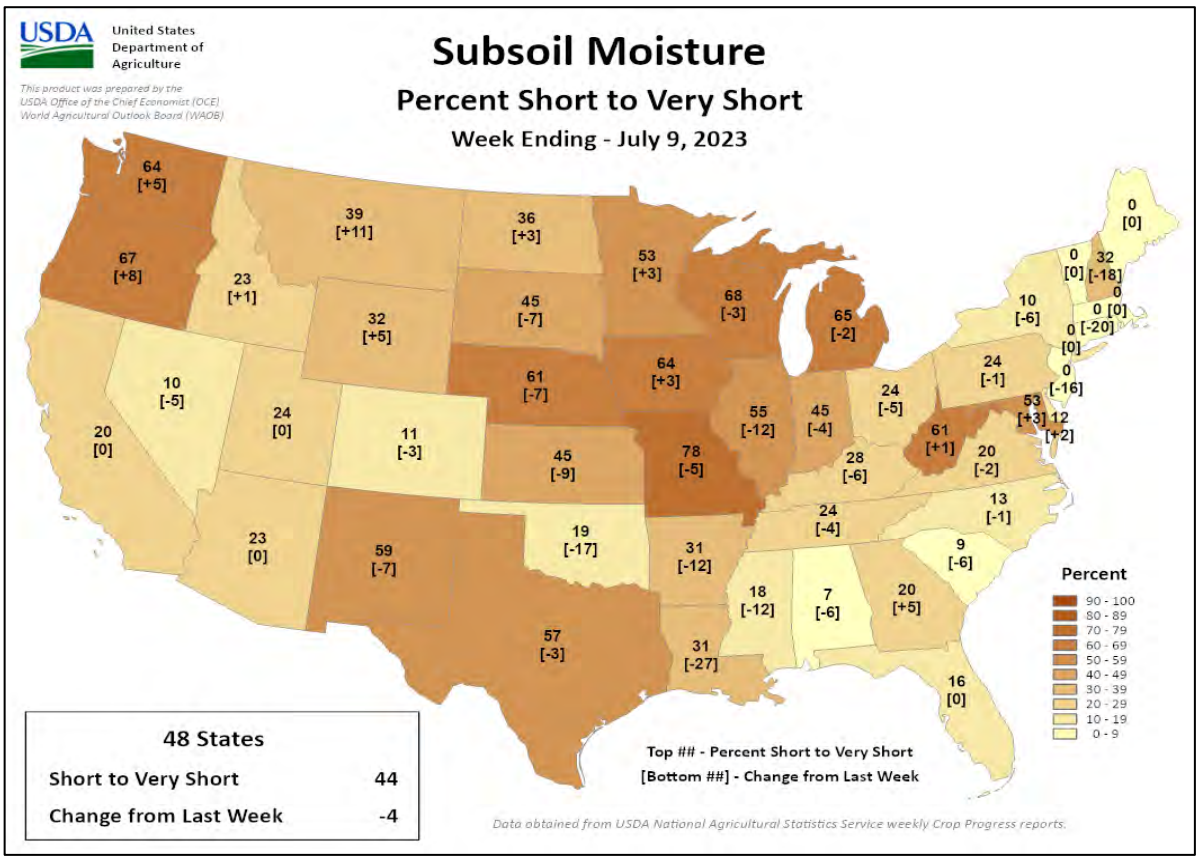



# Crop Progress and Condition

## Week Ending July 9, 2023

Weekly U.S. Progress and Condition Data provided by USDA/NASS



# International Weather and Crop Summary

**July 2-8, 2023**

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

## HIGHLIGHTS

**EUROPE:** Warm, showery weather continued over much of the continent, though dry albeit not as hot weather persisted on the Iberian Peninsula.

**WESTERN FSU**: Heavy rain further improved soil moisture in western growing areas, while dry and hot weather favored fieldwork and crop development in Russia after recent wetness.

**EASTERN FSU**: Hot weather and highly variable showers persisted across the spring grain belt, while seasonable heat and dryness persisted over cotton areas to the south.

**MIDDLE EAST**: Hit and miss showers and thunderstorms in Turkey maintained abundant moisture supplies locally.

**SOUTH ASIA:** Widespread heavy monsoon showers improved moisture conditions and encouraged sowing.

**EAST ASIA:** A shifting weather pattern brought increased rainfall to previously dry portions of northeastern China.

**SOUTHEAST ASIA:** Heavy monsoon showers prevailed in some areas while other locales reported little if any precipitation.

**AUSTRALIA:** Welcome rain overspread southern Queensland and northern New South Wales.

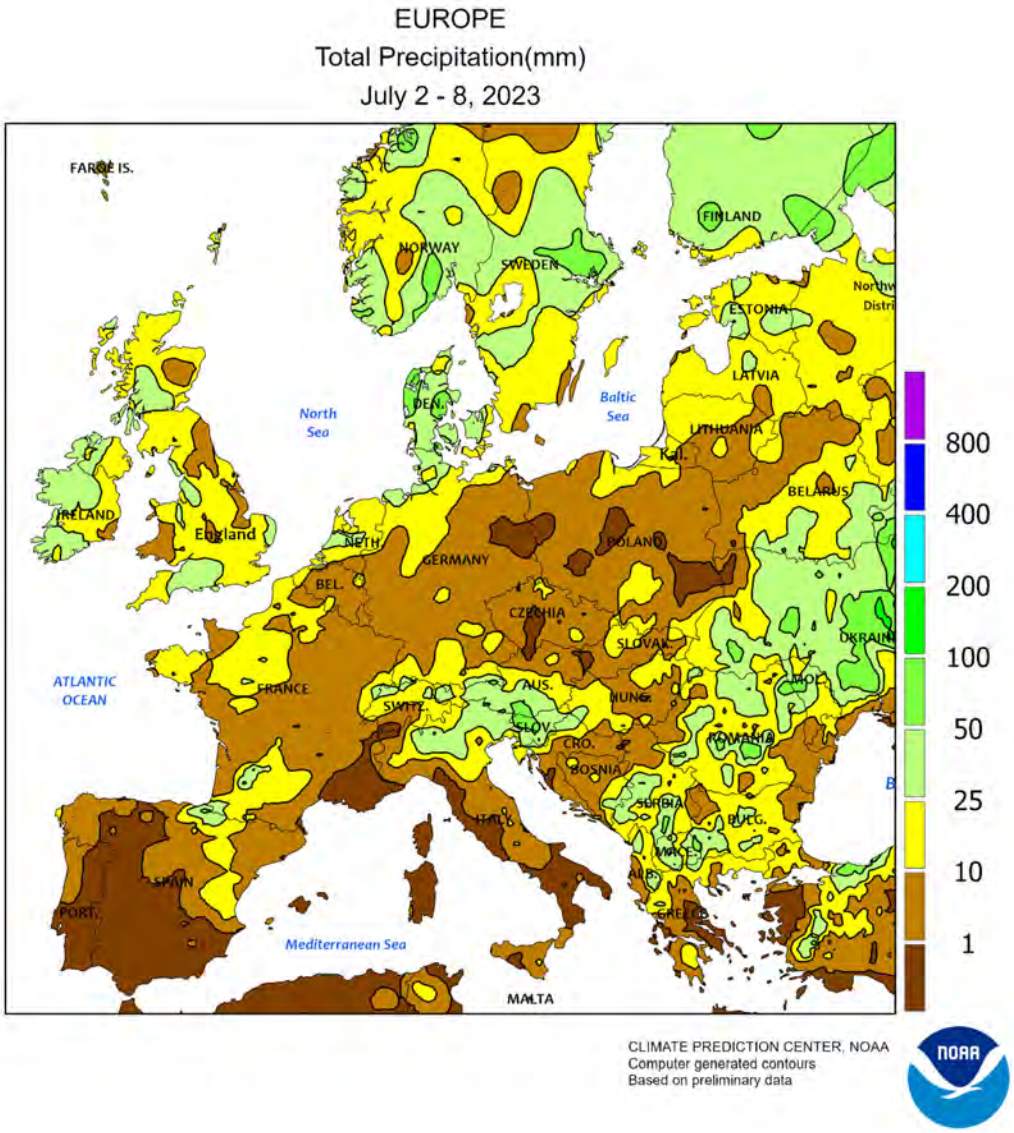
**ARGENTINA**: Rain further improved winter grain prospects in southern production areas.

**BRAZIL:** Rain benefited wheat in southern production areas, while drier conditions elsewhere favored harvesting of corn and cotton.

**MEXICO:** Warm, showery weather helped to further improve conditions for corn and other summer crops on the southern plateau.

**CANADIAN PRAIRIES:** Sunny albeit cool weather dominated the Prairies, as crops entered reproduction with variable levels of moisture for normal crop development.

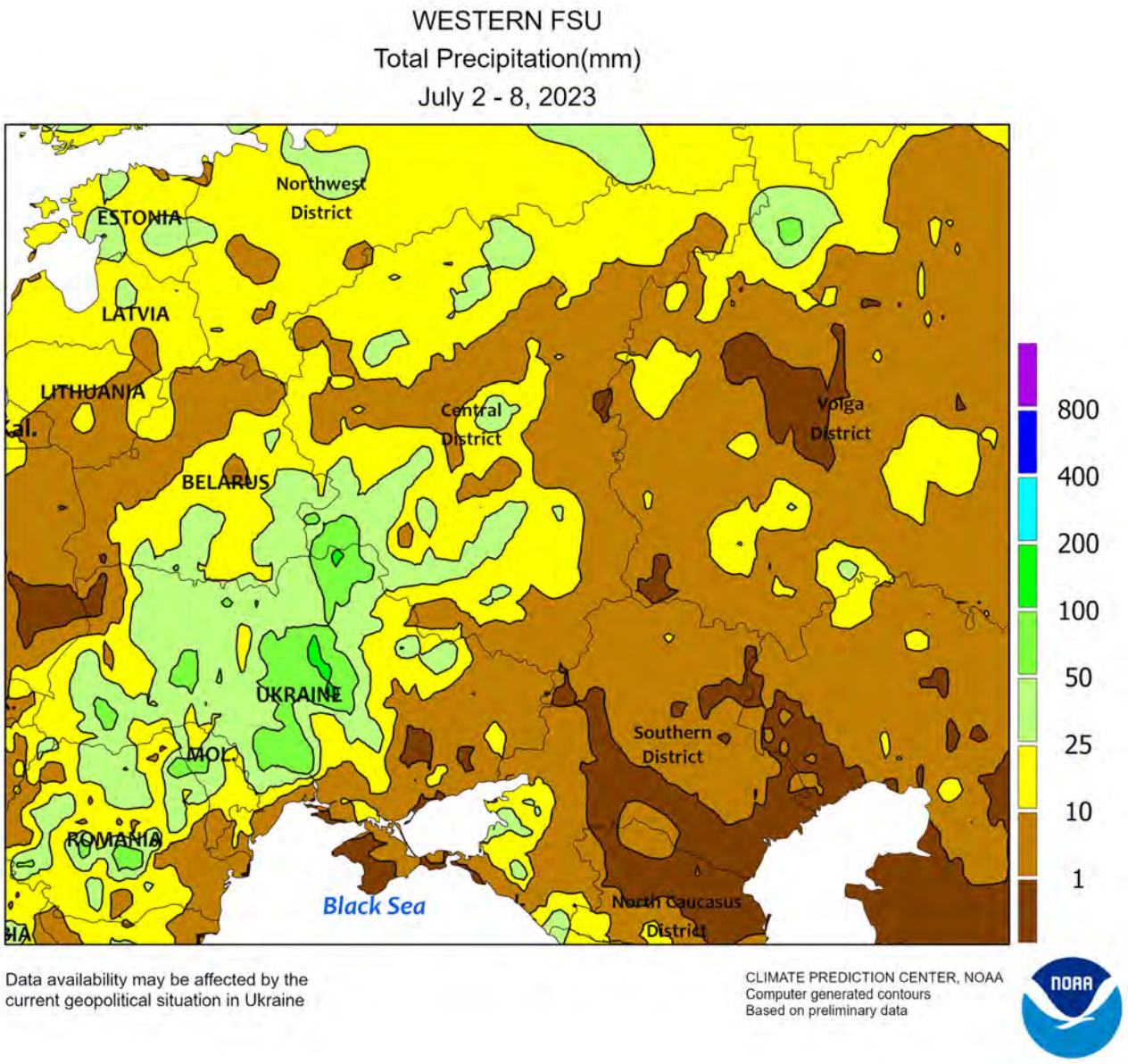
**SOUTHEASTERN CANADA:** Summer warmth spurred rapid growth of crops and pastures.




## EUROPE

A typical summertime weather pattern prevailed, with widespread albeit highly variable showers and thunderstorms coupled with near- to above-normal temperatures over most growing areas. As is typical for this time of year, rainfall totals ranged from less than 5 mm to locally more than 50 mm from eastern Spain, France, and southeastern England into northern Italy and the Balkans. The rain maintained overall favorable conditions for reproductive corn, soybeans, and sunflowers. However, short-term dryness remained a concern from eastern France into southern Germany as well as Poland and the Baltic States. Meanwhile a potent slow-moving storm system produced a separate area of very heavy rain (25-125 mm) and strong gusty winds from northern Germany into Denmark, Sweden, and Norway, causing local flooding, halting fieldwork, and damaging infrastructure. In southern Spain, the recent blistering heat wave abated somewhat, with highs during the past week ranging from 37 to 40°C in Andalucía; nevertheless, temperatures in southern Spain averaged 2 to 5°C above normal for the week. Temperature anomalies elsewhere over Europe ranged from up to 3°C below normal in Scandinavia to 2°C above normal in central and southern France and the lower Danube River Valley.

**For additional information contact:** mark.brusberg@usda.gov

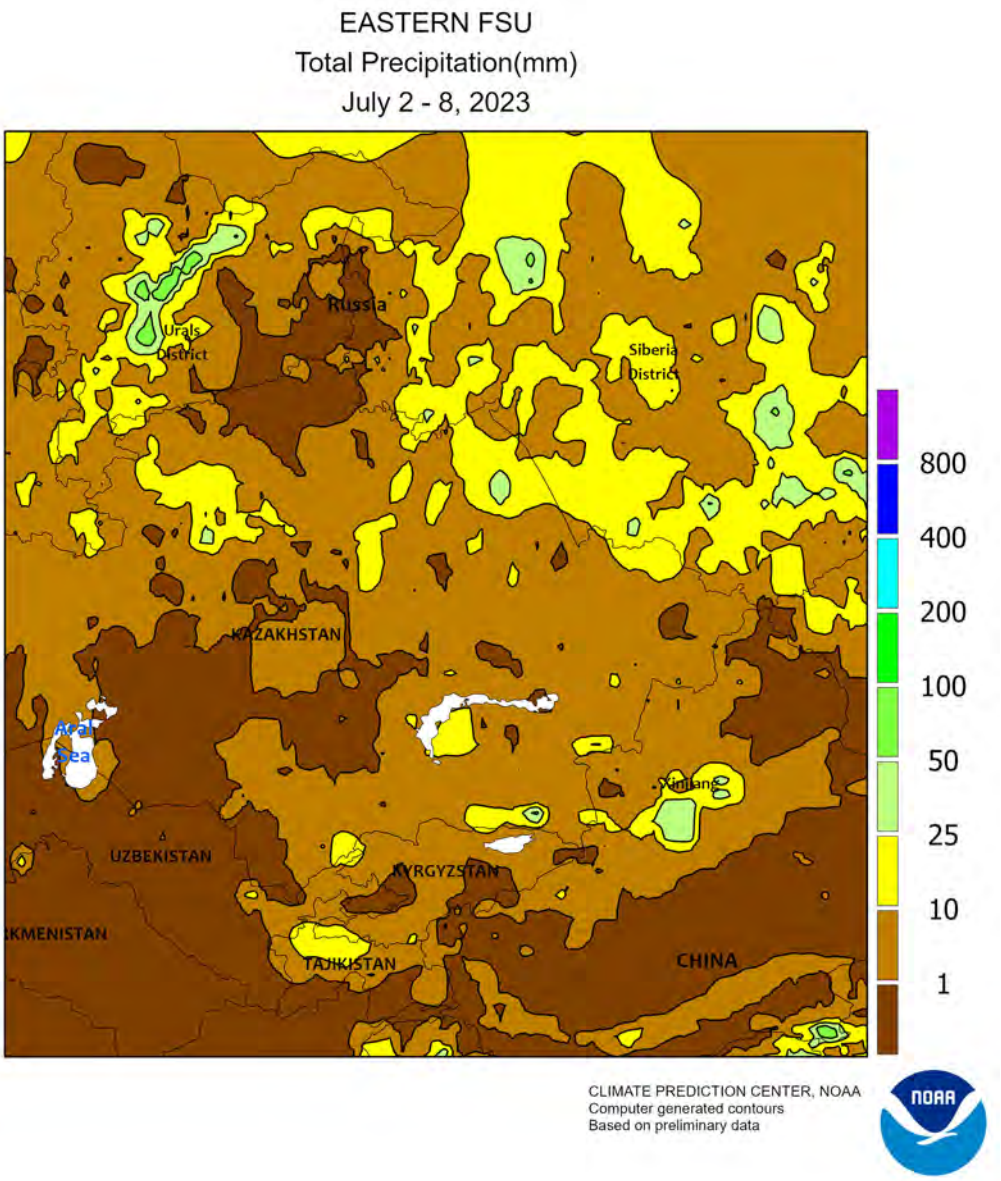



## WESTERN FSU

Showers intensified across the western half of the region, while hot, mostly drier weather settled over western Russia. Rain totaled 25 to 100 mm from northern Moldova and southwestern Ukraine northeastward into southern Belarus and northwestern Russia, easing or eradicating lingering moisture deficits and boosting prospects for vegetative to reproductive spring grains and summer crops. Conversely, showers were lighter (5 mm or less) over much of southwestern Russia, favoring winter wheat harvesting and summer crop development. However, heavier showers (10-30 mm) were noted in Krasnodar Krai in far southwestern Russia, maintaining moisture supplies locally for reproductive corn and sunflowers. Hot weather (35-38°C) developed from southern Ukraine into Russia's Southern District, though summer crops were well equipped with abundant soil moisture from recent heavy rain to withstand the heat without significant impacts. The heat also bled into southern portions of the Central and Volga Districts, likely stressing reproductive to filling spring barley where temperatures were highest.

*The WWCB focuses entirely on weather and resultant crop conditions; conflict and unrest are beyond the scope of this publication.*

**For additional information contact:** mark.brusberg@usda.gov




## EASTERN FSU

Abruptly hotter weather arrived over the spring grain belt, while seasonably hot and dry conditions prevailed across cotton areas to the south. After two weeks of favorably cool weather following extreme early-June heat in northern Kazakhstan and central Russia, daytime highs surged back into the lower and middle 30s (degrees C). The highest temperatures (35-37°C) were noted in northeastern Kazakhstan, while the rest of central Russia and northern Kazakhstan saw highs between 32° and 35°C. The returning heat renewed stress on late-vegetative to reproductive spring wheat and barley. Rain was highly variable, ranging from complete dryness in north-central Kazakhstan and central Russia to more than 25 mm in northeastern Kazakhstan and Russia's Siberia District. Lighter showers (2-15 mm) were also reported in northwestern Kazakhstan. The recent albeit inconsistent rain has eased the region's widespread extreme drought, though deficits and sub-par vegetative health lingered. Farther south over the Commonwealth of Independent States (CIS), seasonably sunny skies and somewhat cooler temperatures prevailed. Temperatures across the CIS averaged near normal in northern cotton areas and up to 3°C below normal in the far south. The cooler weather was favorable for flowering cotton, which can be adversely impacted by excessive heat.

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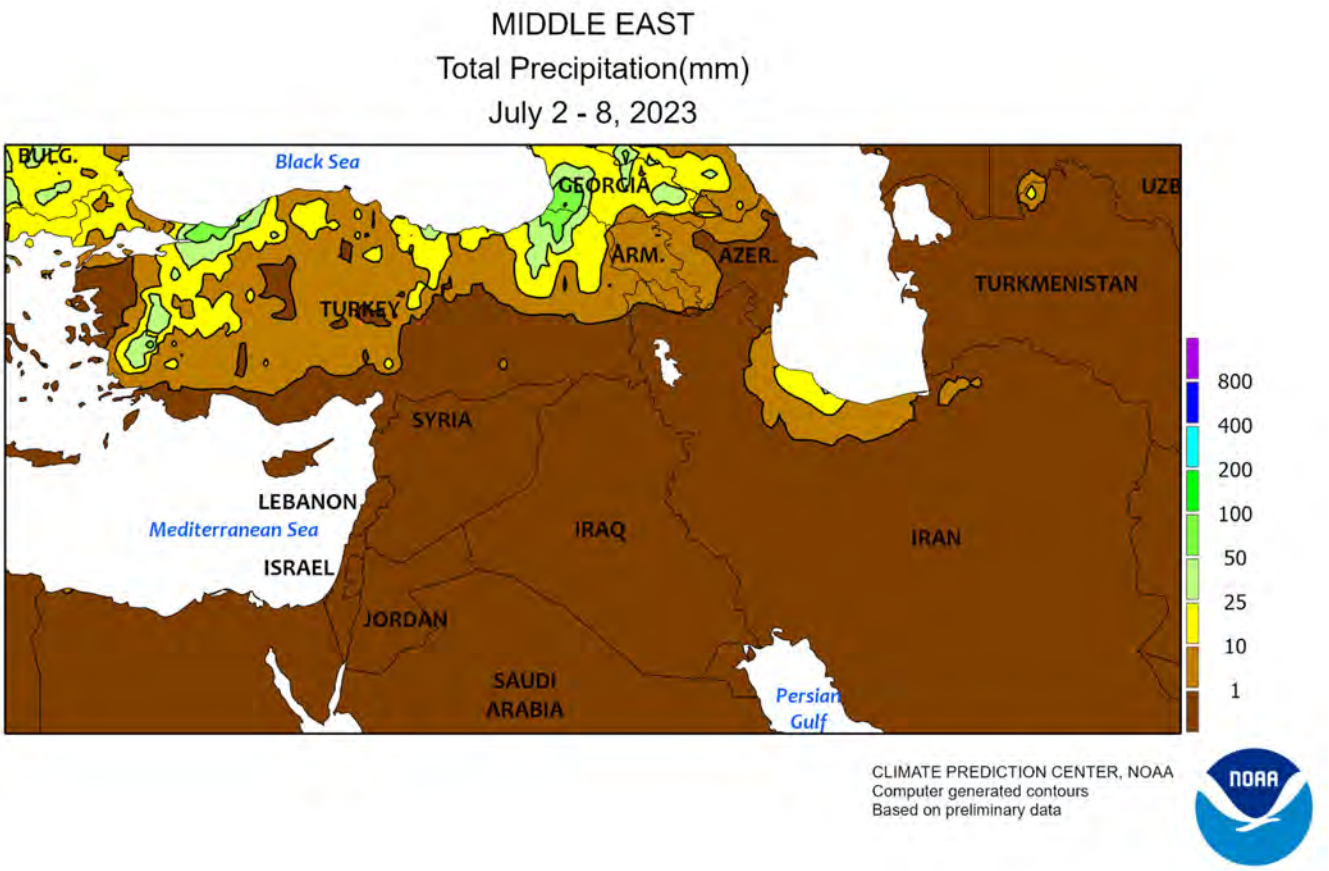


## MIDDLE EAST

Showers and thunderstorms returned to Turkey, though coverage and intensity were not as widespread and heavy as earlier in the summer. Rainfall totals varied considerably, ranging from 0 to as much as 11 mm on the Anatolian Plateau (central Turkey), 45 mm in the Aegean Region (west), as much as 62 mm in Marmara (northwest), and locally more than 50 mm along the Black Sea Coast. The rain interrupted fieldwork but maintained adequate to abundant moisture supplies for vegetative to reproductive summer crops. Turkey's southeastern crop areas — the Adana and GAP Regions — were seasonably dry, promoting fieldwork and the development of irrigated corn and cotton. Elsewhere in the Middle East, dry weather facilitated winter crop harvesting and other seasonal fieldwork from the eastern Mediterranean Coast into Iran. Temperatures during the monitoring period averaged near normal in many primary growing areas but up to 3°C above normal in northern Turkey and western Iran.

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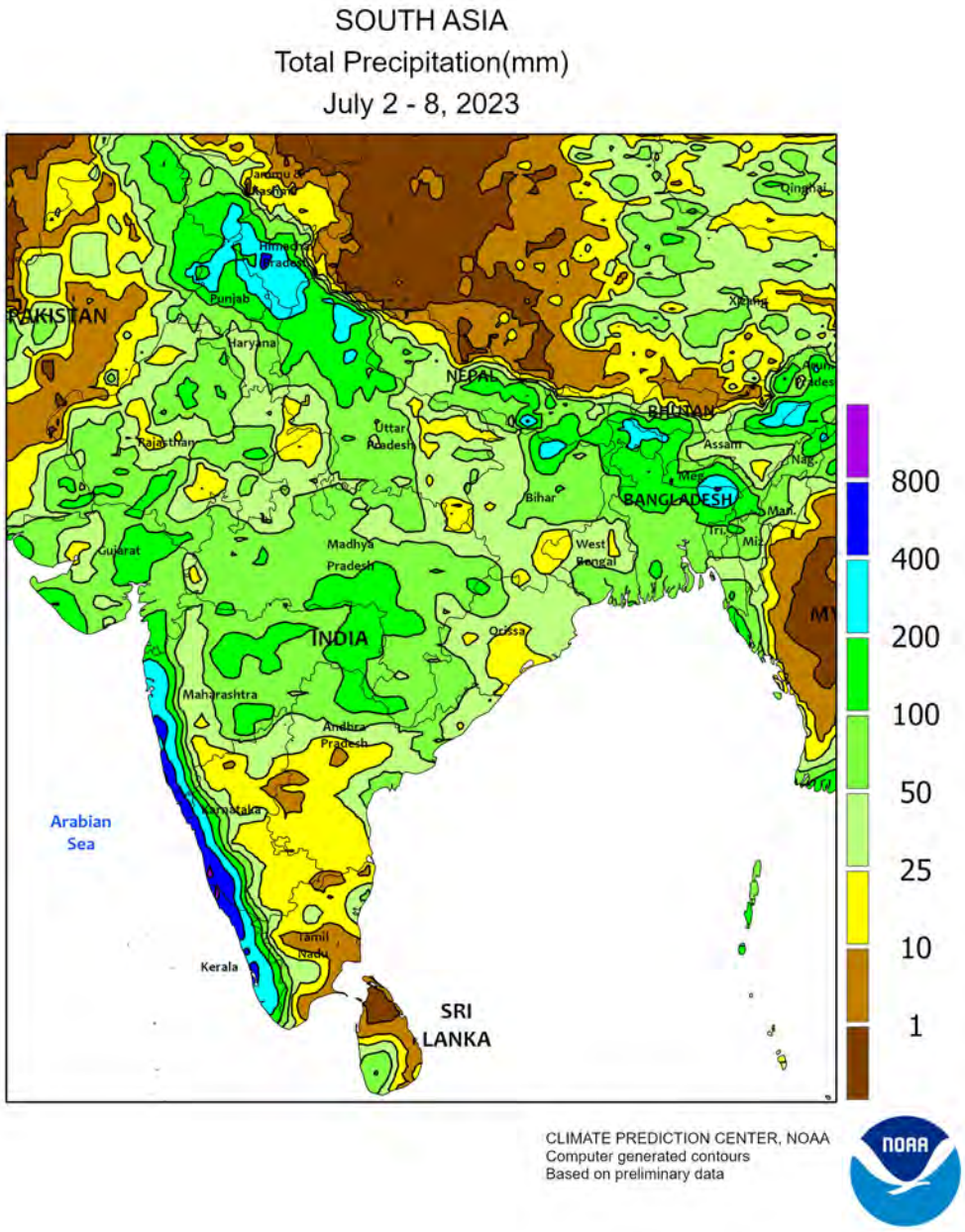


## SOUTH ASIA

Rainfall increased dramatically across the region, with nearly all sections recording over 25 mm. In fact, many kharif crop areas in India reported 50 to 100 mm of rain. The influx of moisture encouraged sowing, as sorghum, millet, and groundnuts now outpaced last year as of July 7. Despite the increased rainfall, seasonal (since June 1) moisture deficits still persisted in key eastern rice areas and southern cotton areas; planting remained behind for these crops (soybeans and corn were also lagging in overlapping areas). Meanwhile, showers (25-100 mm or more) in northern Pakistan added to already ample irrigation supplies, maintaining favorable yield prospects for cotton and rice.

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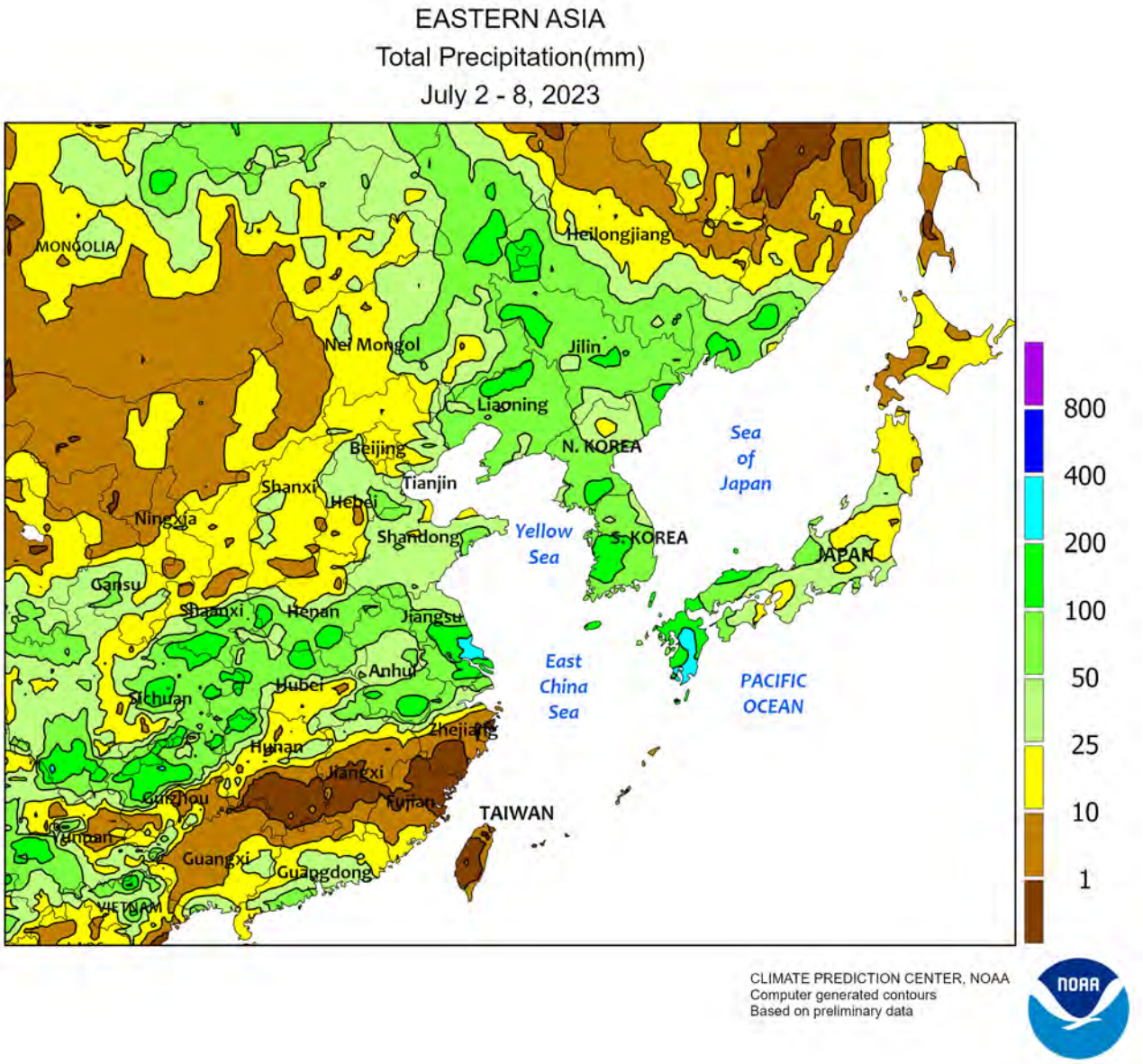


## EASTERN ASIA

A shifting weather pattern brought increased rainfall to portions of northeastern China. Some previously dry sections received in excess of 100 mm, greatly improving moisture conditions for corn and soybeans nearing reproduction. The wet weather extended onto the North China Plain and into the Yangtze Valley, benefiting summer crops there as well. However, a strip of southern China continued to experience drier-than-normal conditions (90-day rainfall totals at a 14-year low) along with unseasonable heat (daytime temperatures in the upper 30s degrees C), stressing rice. Meanwhile, growing conditions remained favorable for irrigated cotton in western China, though yield prospects are still a concern due to a shortened growing season following a late-spring cold spell. Elsewhere, more rainfall (50-100 mm or more) in South Korea has all but eradicated developing early-season drought.

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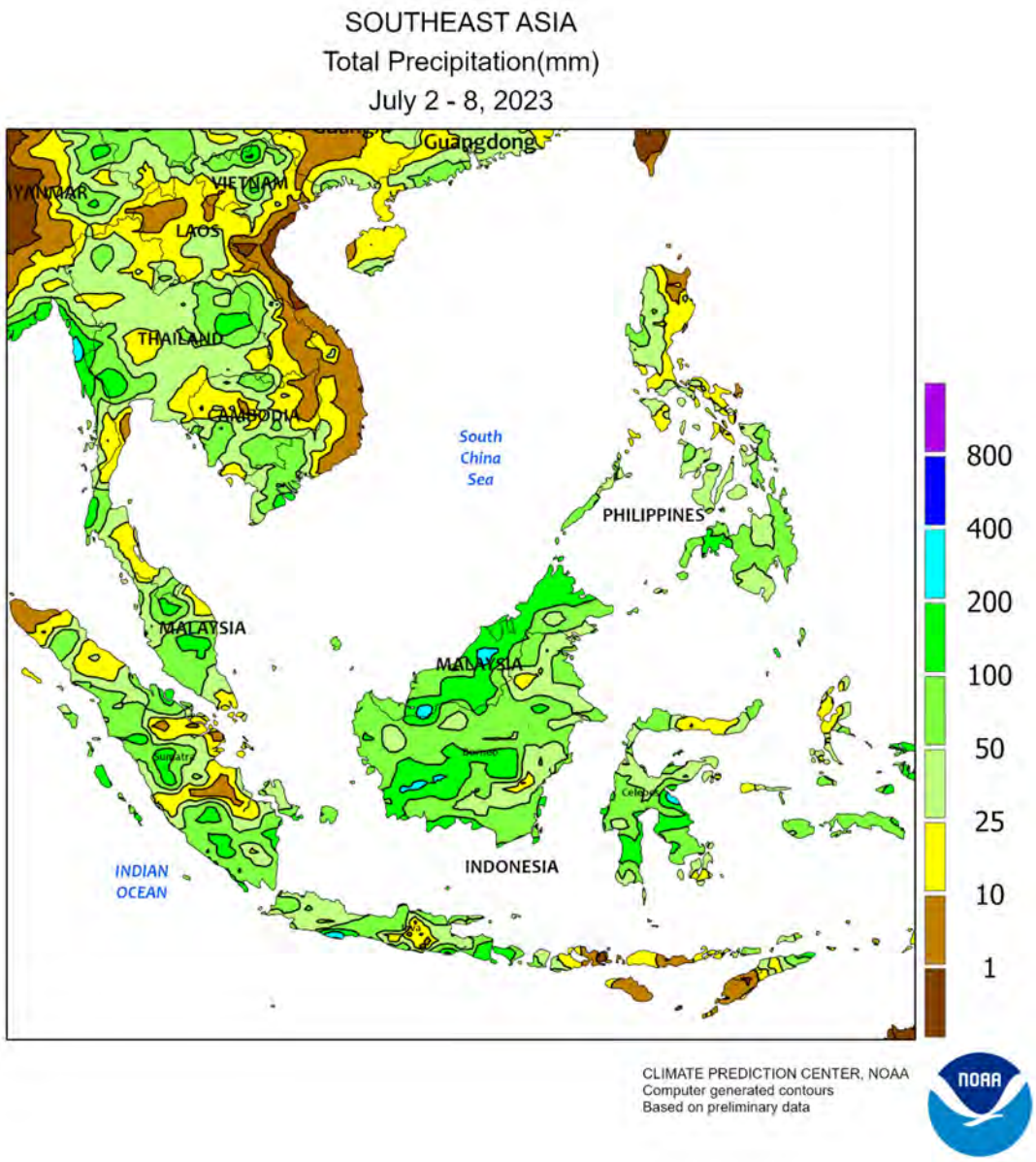


## SOUTHEAST ASIA

Monsoon rainfall remained widespread in the region though variable. Some portions of the region recorded over 100 mm while other areas totaled little if any. For example, key rice areas in northeastern Thailand continued to benefit from consistent moisture, while below-average moisture persisted in other locales of Thailand and Indochina as a whole. A similar situation was playing out in the Philippines, with most of the country receiving favorable rainfall except for a key growing area in the northeast (Cagayan Valley). Meanwhile, unusually wet weather prevailed in seasonally drier southern locations (Malaysia and Indonesia), where 25 to 100 mm or more benefited oil palm and dry-season rice.

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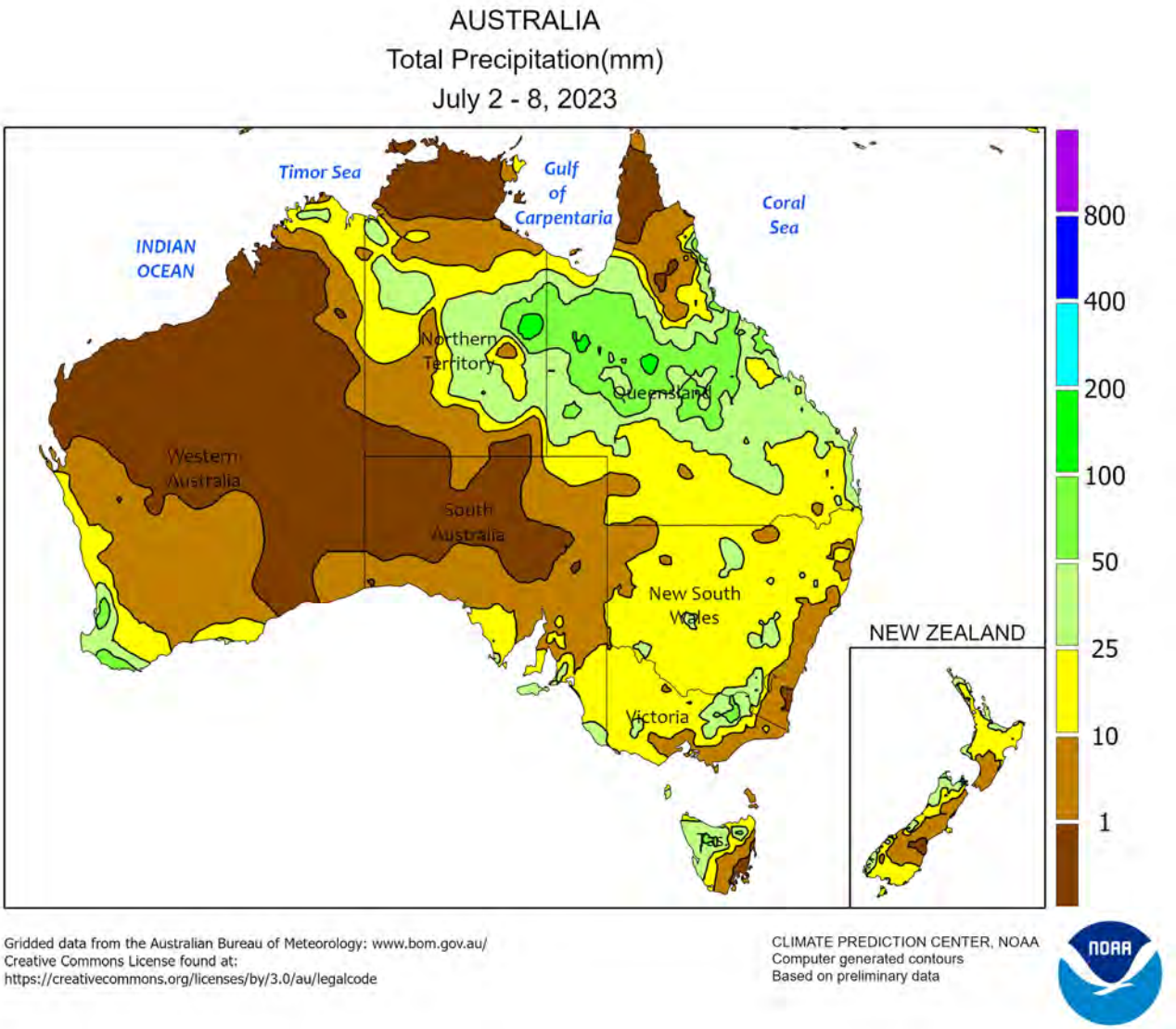


## AUSTRALIA

Welcome rain (10-30 mm) overspread southern Queensland and northern New South Wales, increasing topsoil moisture for wheat and other winter crops. Indeed, the rain helped lift root zone soil moisture to near normal, aiding early winter crop development in the wake of a drier-than-normal start to the growing season. Elsewhere in the wheat belt, widespread showers (10-20 mm) in the south and west further benefited wheat, barley, and canola. Root zone soil moisture remained near to above normal in most areas, helping to sustain good crop conditions. The exception was northern portions of the Western Australia wheat belt, where soil moisture has trended drier during the last few weeks. Temperatures were generally seasonable throughout the entire wheat belt, with maximum temperatures mostly in the middle to upper 10s (degrees C).

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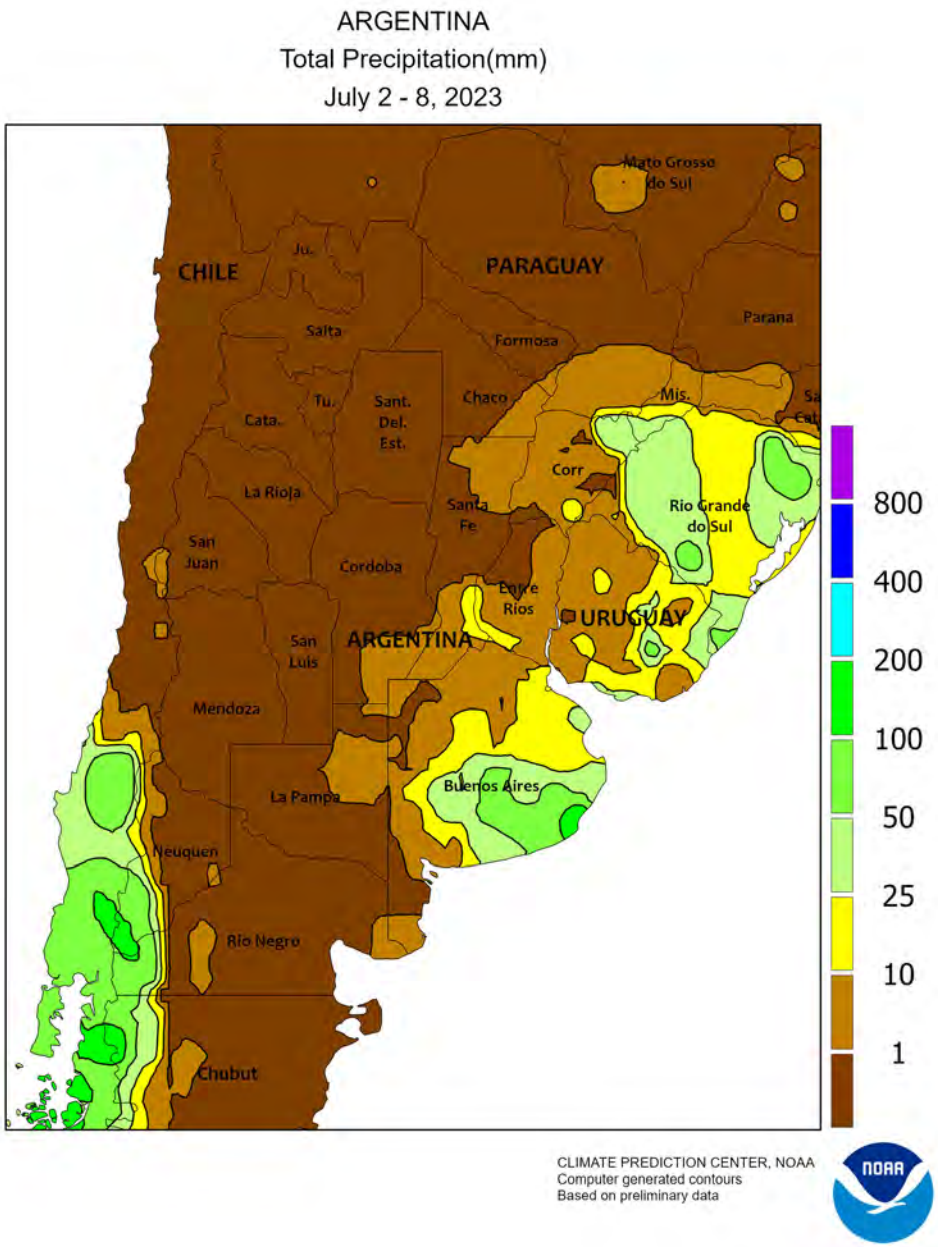


## ARGENTINA

Showers provided additional relief from dryness to emerging winter grains in southern production areas. Rainfall totaled 10 to 100 mm over southeastern Buenos Aires, including key agricultural districts in Tandil and Tres Arroyos. Lighter rain (10-50 mm) fell in the far northeast (northern Entre Rios and Corrientes), otherwise dry weather prevailed throughout the region. The dry areas included high-yielding farming areas of the lower Paraná River Valley, which typically receive more rain this time of year. Weekly average temperatures ranged from 2 to 4°C above normal in La Pampa and southern Buenos Aires to as much as 8°C above normal farther north (including portions of Chaco, Santa Fe, and Santiago del Estero), and frost was confined to traditionally cooler production areas in La Pampa and Buenos Aires. According to the government of Argentina, corn was 66 percent harvested as of July 6 versus 78 percent last year. Cotton was 80 percent harvested, compared with 74 percent last year. Meanwhile, wheat and barley were 76 percent and 69 percent planted, respectively.

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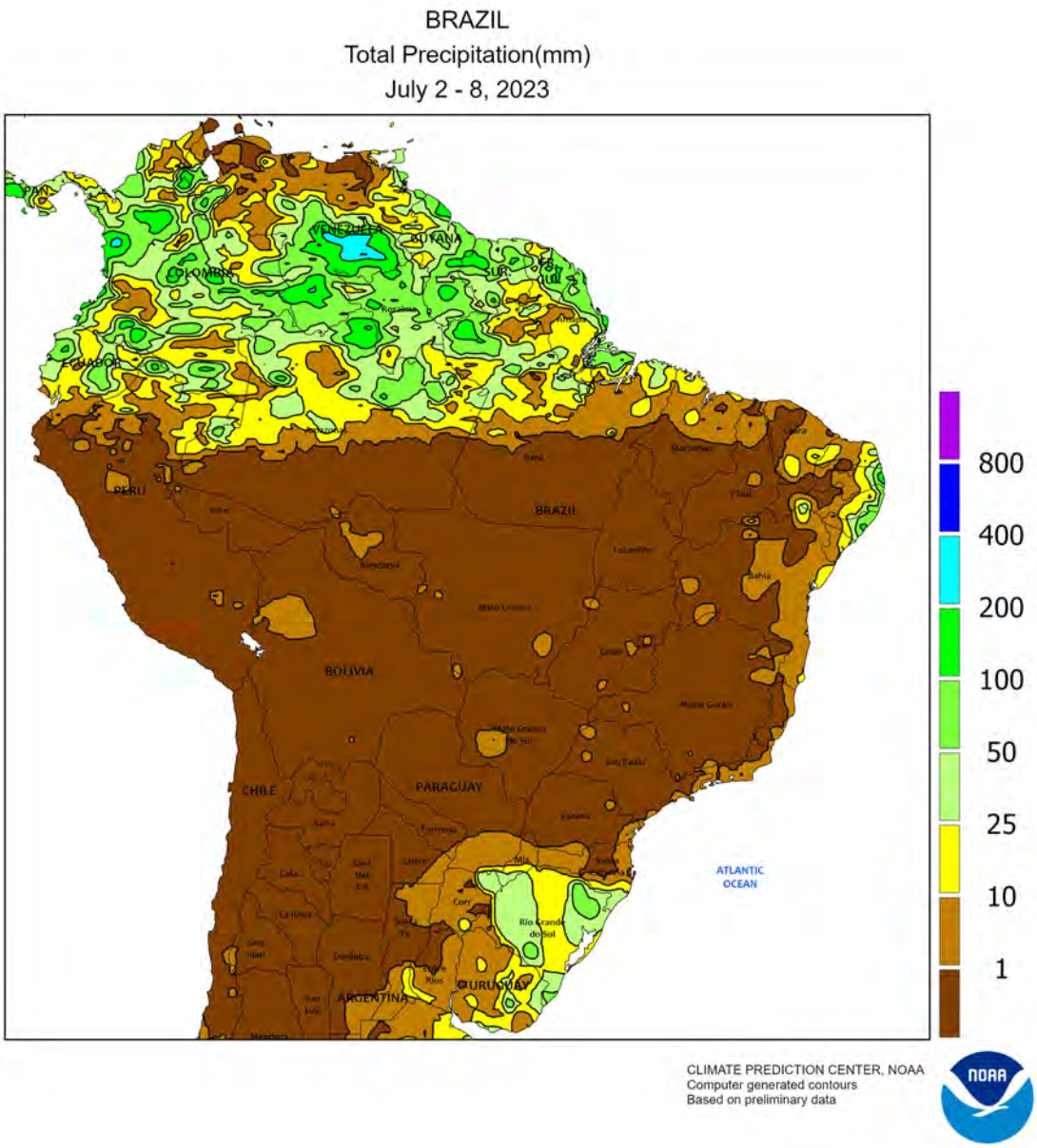


## BRAZIL

Beneficial rain in southern-most wheat areas contrasted with near complete dryness elsewhere. Rainfall totaling 10 to 50 mm provided much-needed relief from dryness in Rio Grande do Sul; however, dryness continued elsewhere, including Paraná, another leading producer of wheat. According to the government of Paraná, 3 percent of second-crop corn was harvested, and another 32 percent had reached maturity as of July 3; wheat was 96 percent planted, with 30 percent of the crop having reached flowering. In Rio Grande do Sul, wheat was 82 percent planted as of July 6. Dry, seasonably warm weather prevailed farther north, an exception being a small region along the northeastern coast (Bahia northward), where seasonal rainfall (10-100 mm, heaviest along the coast) increased moisture reserves for sugarcane and other crops grown during that region's rainy season. According to the government of Mato Grosso, corn was 49 percent harvested as of July 7, compared with 74 percent last year, and cotton was 3 percent harvested (16 percent last year). Farther south, highest daytime temperatures generally ranged from the middle 20s to lower 30s (degrees C), but the combination of the warmth and dryness sustained high water requirements of wheat in varying stages of development.

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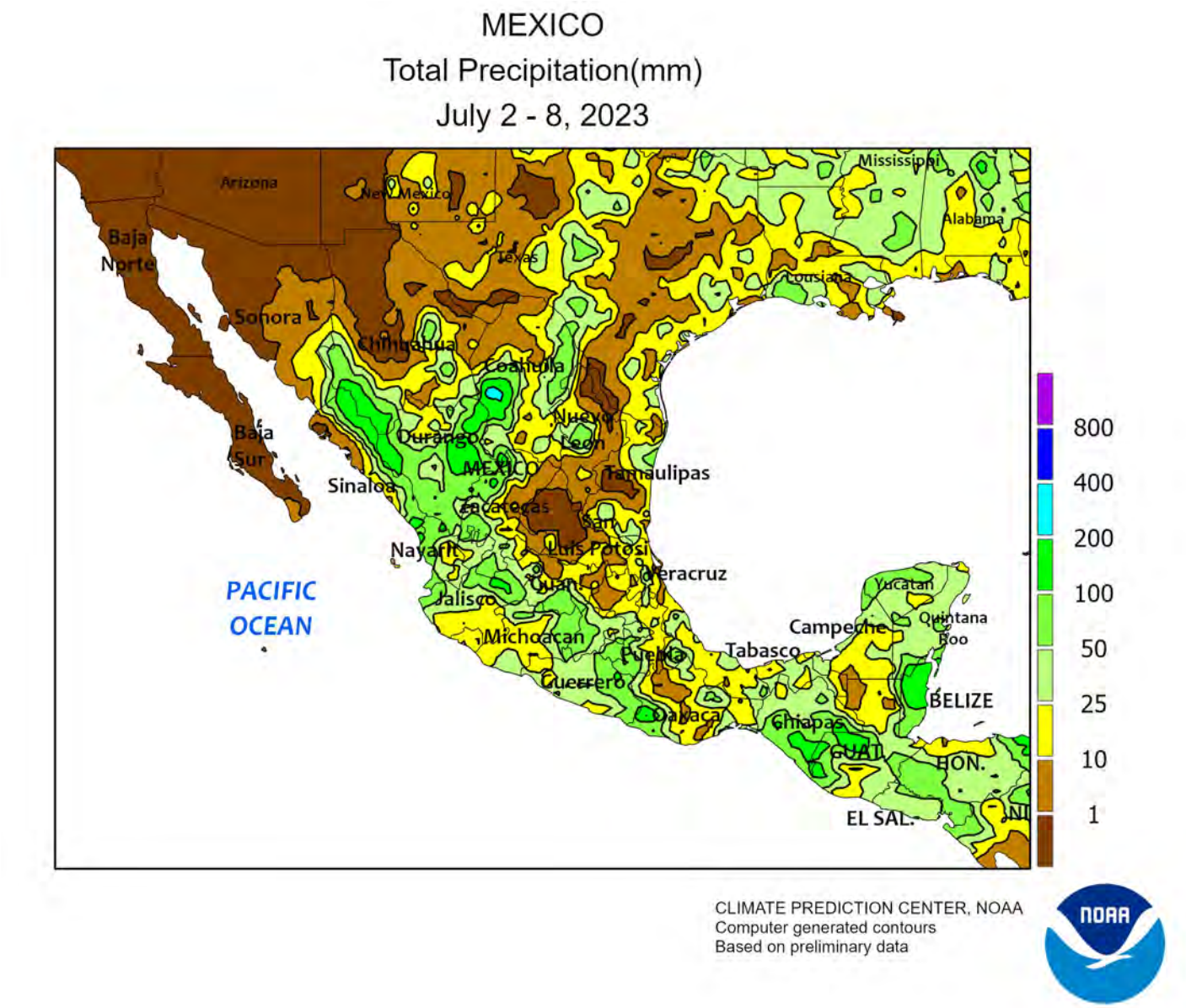


## MEXICO

A second week of widespread, locally heavy showers brought much-needed moisture to previously dry farming areas in southern and western Mexico. Rainfall was highly variable across the southern Plateau, with amounts ranging from below 10 mm to locally more than 100 mm. A similar distribution of rainfall was observed in the southeast, and along the Gulf Coast from Veracruz to Tamaulipas. Above-normal temperatures maintained high rates of evaporative losses in the aforementioned areas, with daytime highs reaching the upper 30s and lower 40s (degrees C) in the warmest locations. Farther west, heavy monsoon showers (25-100 mm, locally in excess of 200 mm) erupted over a large area stretching from Zacatecas northward, including watersheds feeding reservoirs from Sinaloa to Coahuila.

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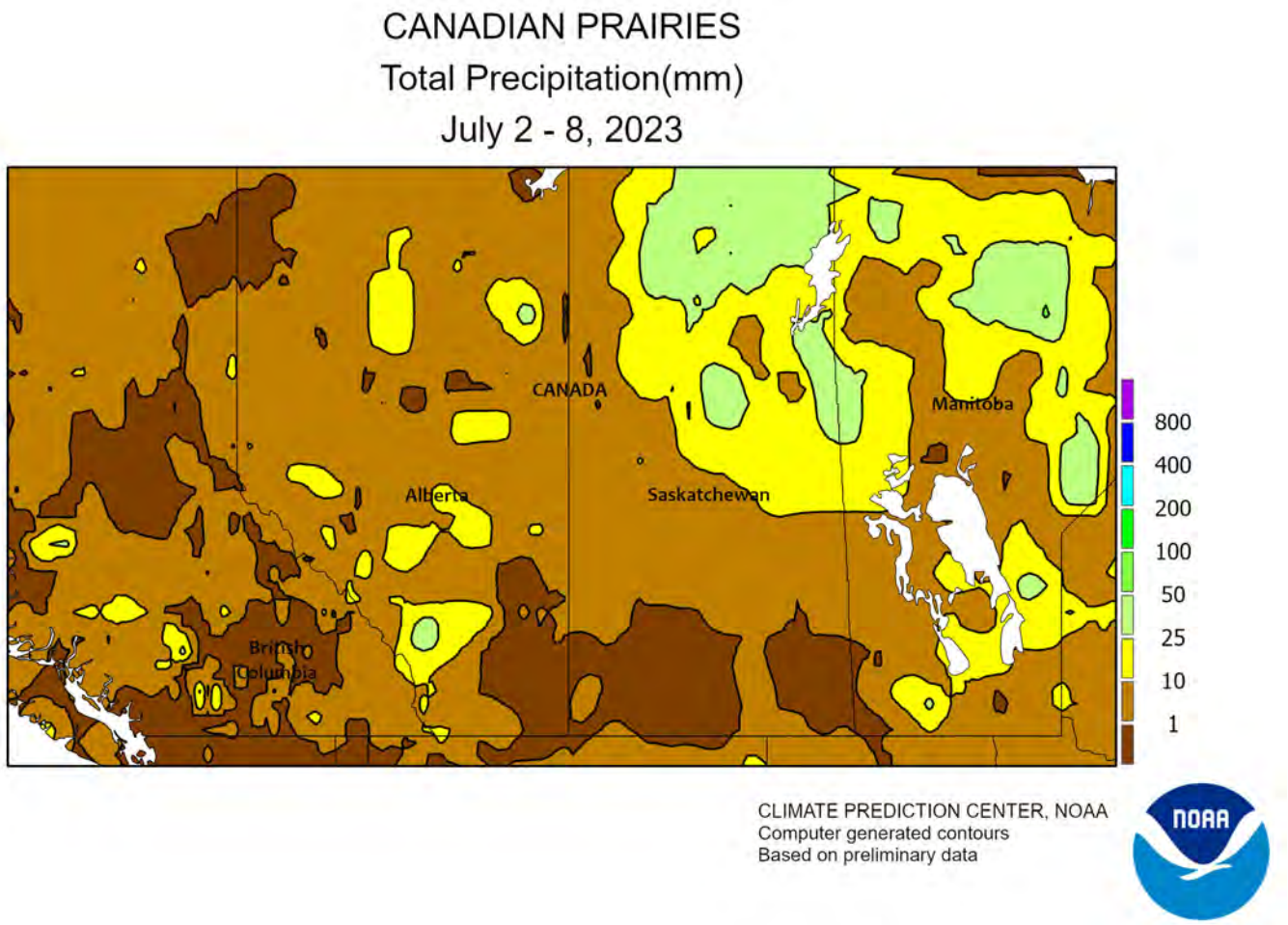


## CANADIAN PRAIRIES

Mostly dry albeit mild weather prevailed across the Prairies, where spring grains ranged from vegetative to reproductive stages of development. Weekly average temperatures ranged from near to slightly below normal in Alberta to 2 to 3°C below normal in much of Saskatchewan and Manitoba; nighttime lows dropped below 5°C across large sections of Saskatchewan but no freeze was reported. Similarly, daytime highs were capped from the middle 20s to lower 30s (degrees C), promoting growth of spring crops and pastures in the absence of stressful heat. Rainfall in the main agricultural districts totaled below 10 mm, with near complete dryness stretching from southeastern Alberta to southwestern Manitoba further limiting moisture for crops already growing with limited soil moisture reserves. According to the government of Saskatchewan, spring grains were 43 percent heading as of July 3, and canola was 60 percent flowering. On the same date in Manitoba, spring crops were also reportedly well into reproduction and like Saskatchewan, rain was needed soon in many locations due to the high variability of soil moisture.

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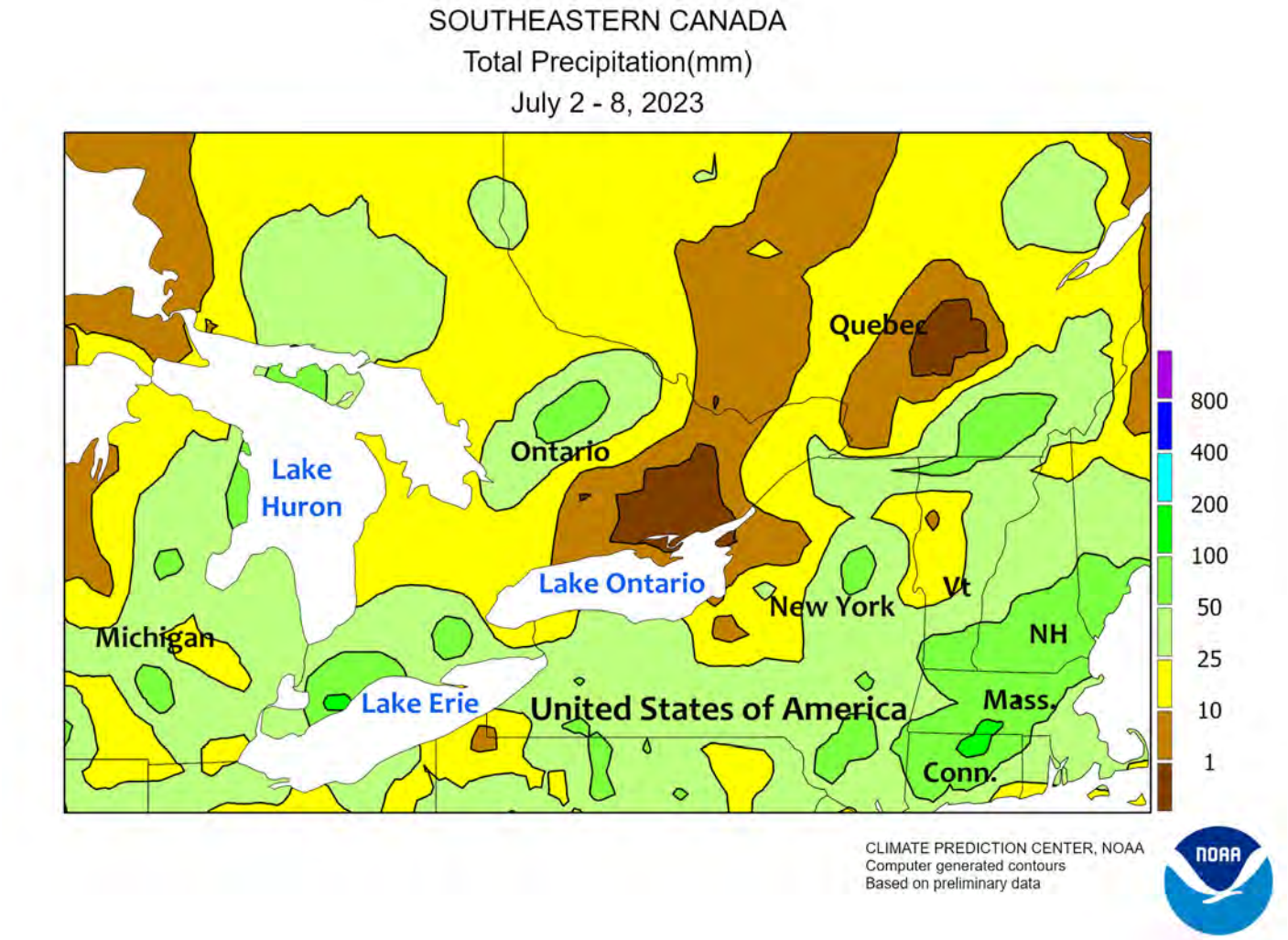


## SOUTHEASTERN CANADA

Unseasonable warmth maintained rapid rates of development for winter wheat, summer crops, and pastures. Weekly average temperatures ranged from 1 to 2°C above normal in Ontario's southwestern agricultural districts to 4°C above normal in Quebec. All locations recorded daytime highs in the lower 30s on several days during the middle part of the week. Rainfall was variable, with highest amounts (25-50 mm) concentrated over Ontario's northern and southern-most agricultural districts and those in southeastern Quebec. However, the sporadic nature of the rain likely allowed for seasonal fieldwork, including management of pests and diseases.

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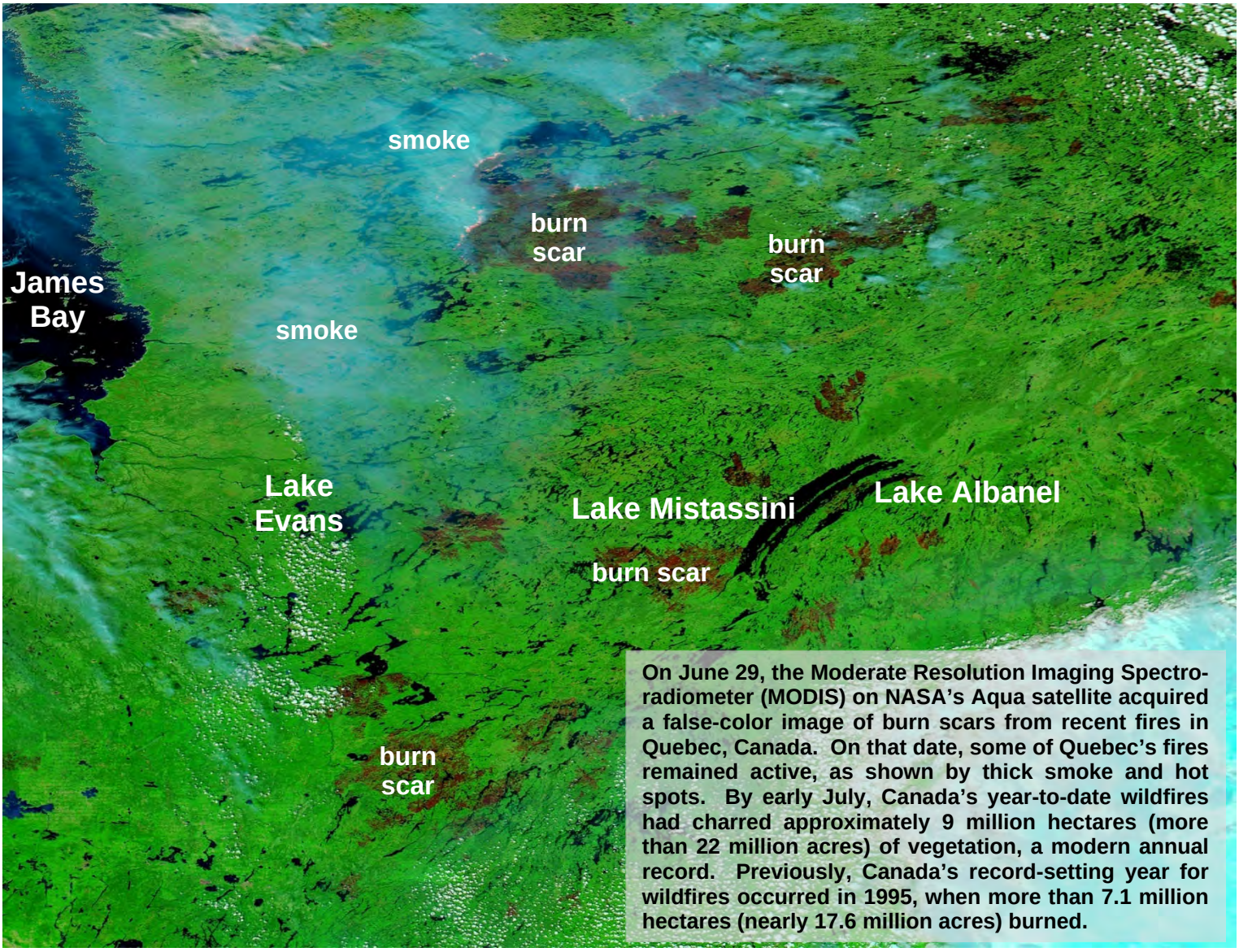


**On June 29, the Moderate Resolution Imaging Spectro-radiometer (MODIS) on NASA's Aqua satellite acquired a false-color image of burn scars from recent fires in Quebec, Canada. On that date, some of Quebec's fires remained active, as shown by thick smoke and hot spots. By early July, Canada's year-to-date wildfires had charred approximately 9 million hectares (more than 22 million acres) of vegetation, a modern annual record. Previously, Canada's record-setting year for wildfires occurred in 1995, when more than 7.1 million hectares (nearly 17.6 million acres) burned.**

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