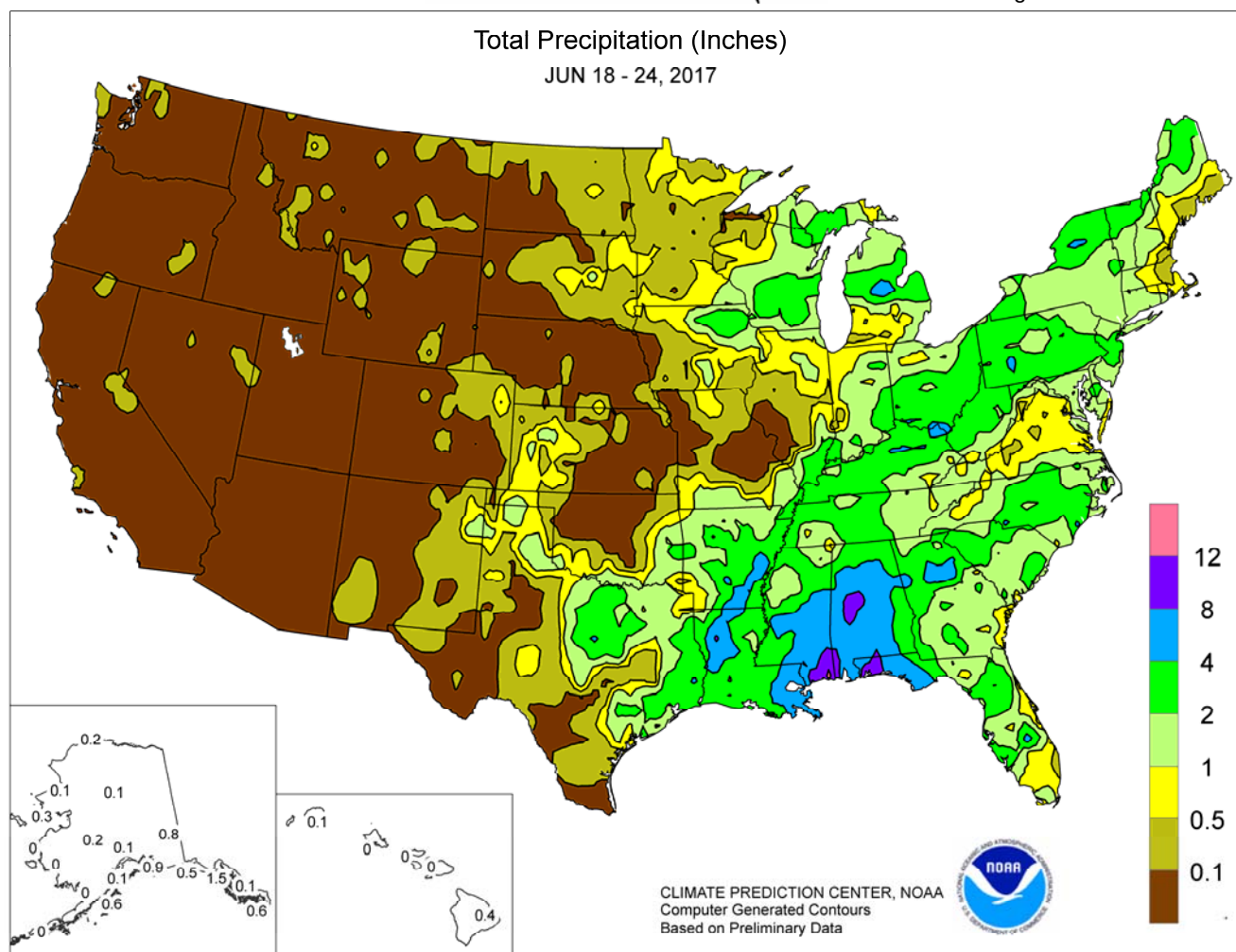


# WEEKLY WEATHER AND CROP BULLETIN

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

**June 18 – 24, 2017**

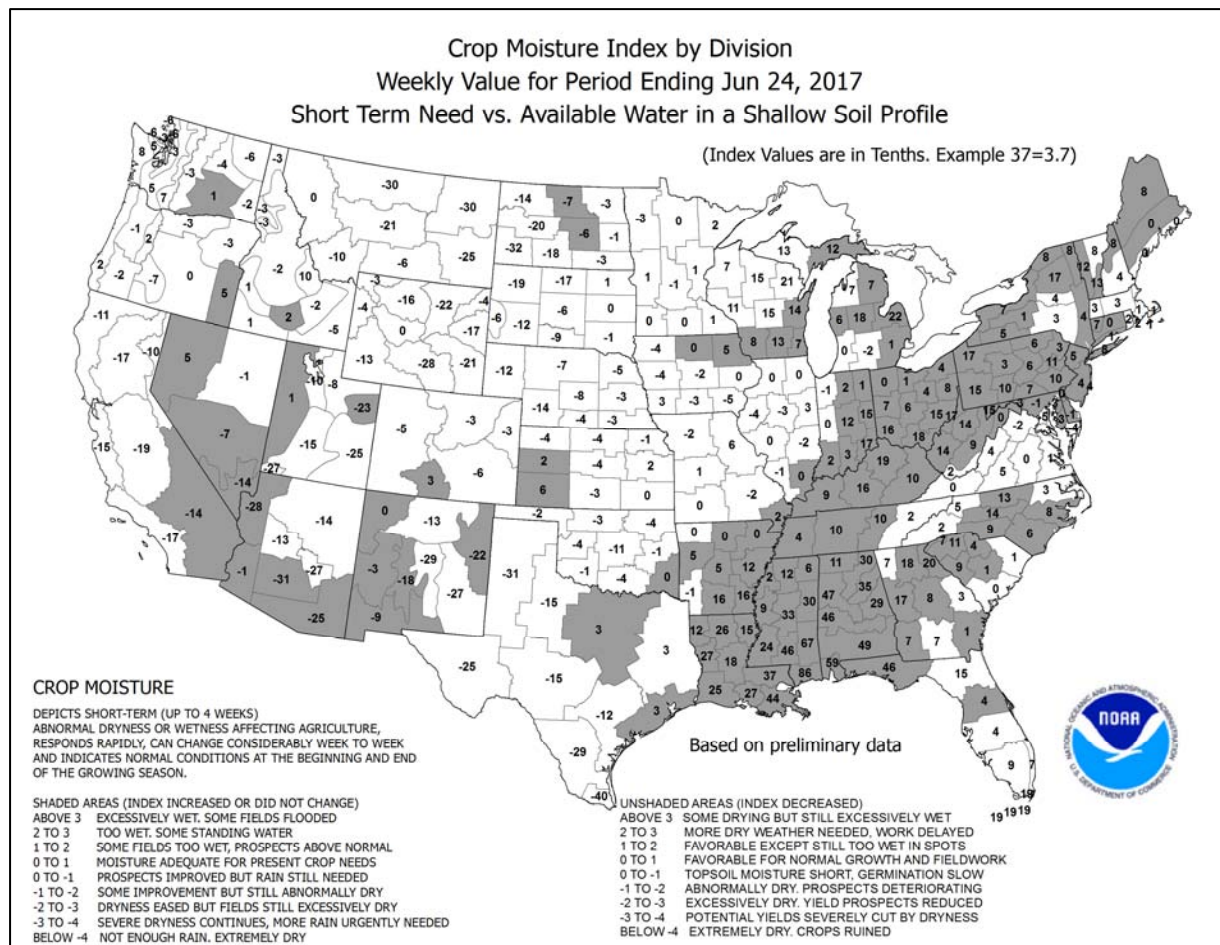
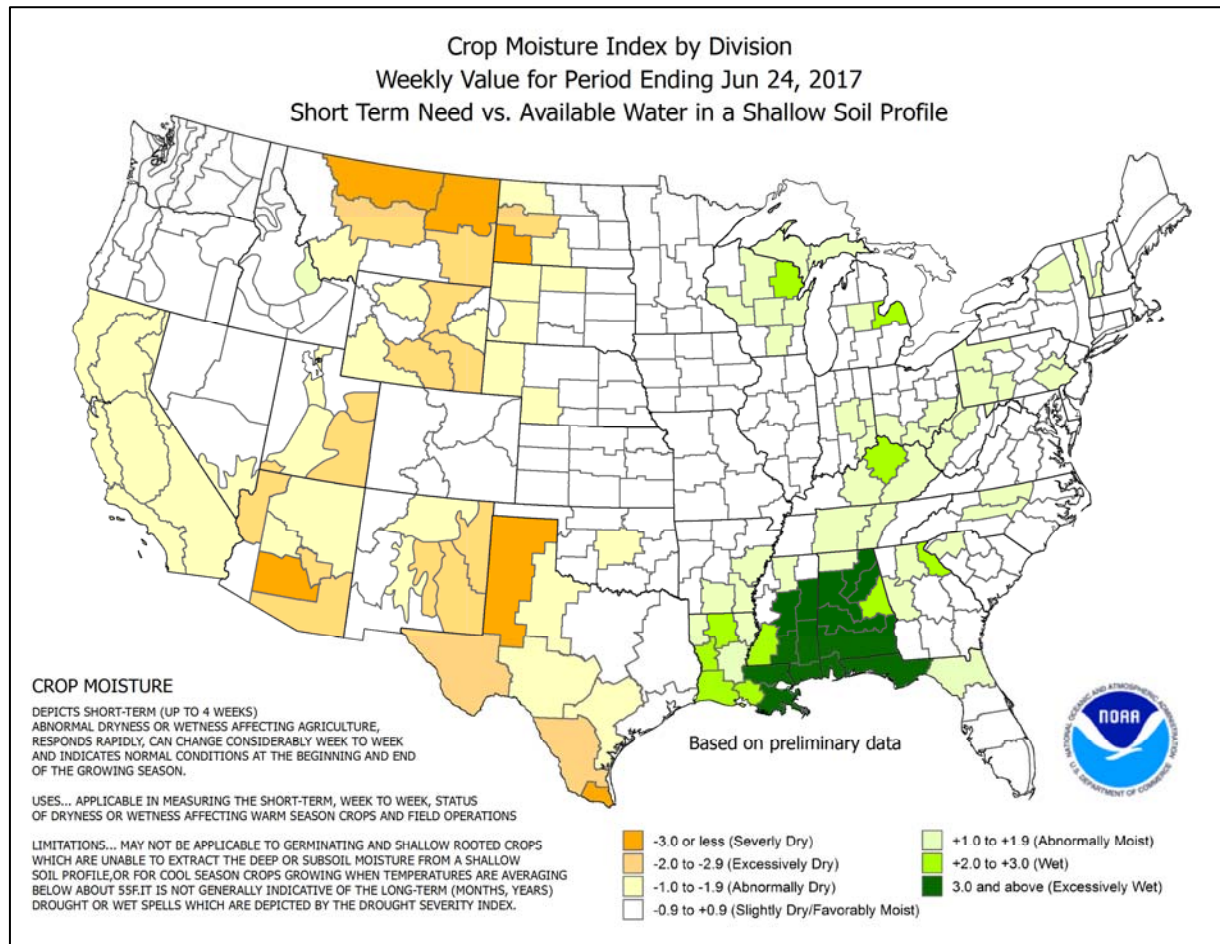
*Highlights provided by USDA/WAOB*

**M**inimal Tropical Storm Cindy made landfall near the **Texas-Louisiana border** before daybreak on June 22, contributing to a storm surge along the **Gulf Coast**; flooding rains (locally a foot or more) in the **central Gulf Coast region**; and heavy showers and locally severe thunderstorms in parts of the **Southeast** and from the **Mississippi Delta into the Ohio Valley**. Cindy's remnant circulation was ultimately absorbed by a strong cold front crossing the **Mid-Atlantic region**. Prior to interacting with the former tropical storm, the cold front sparked

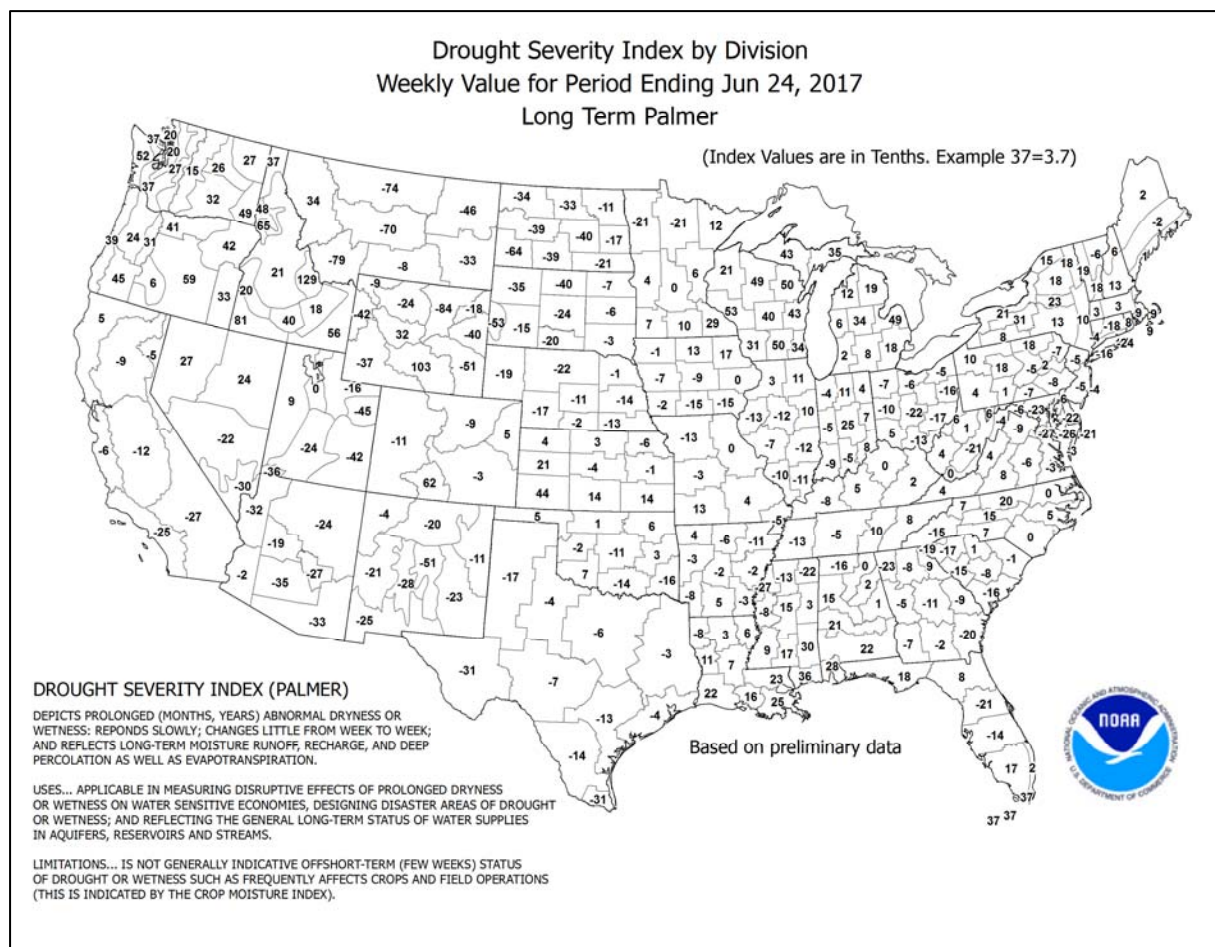
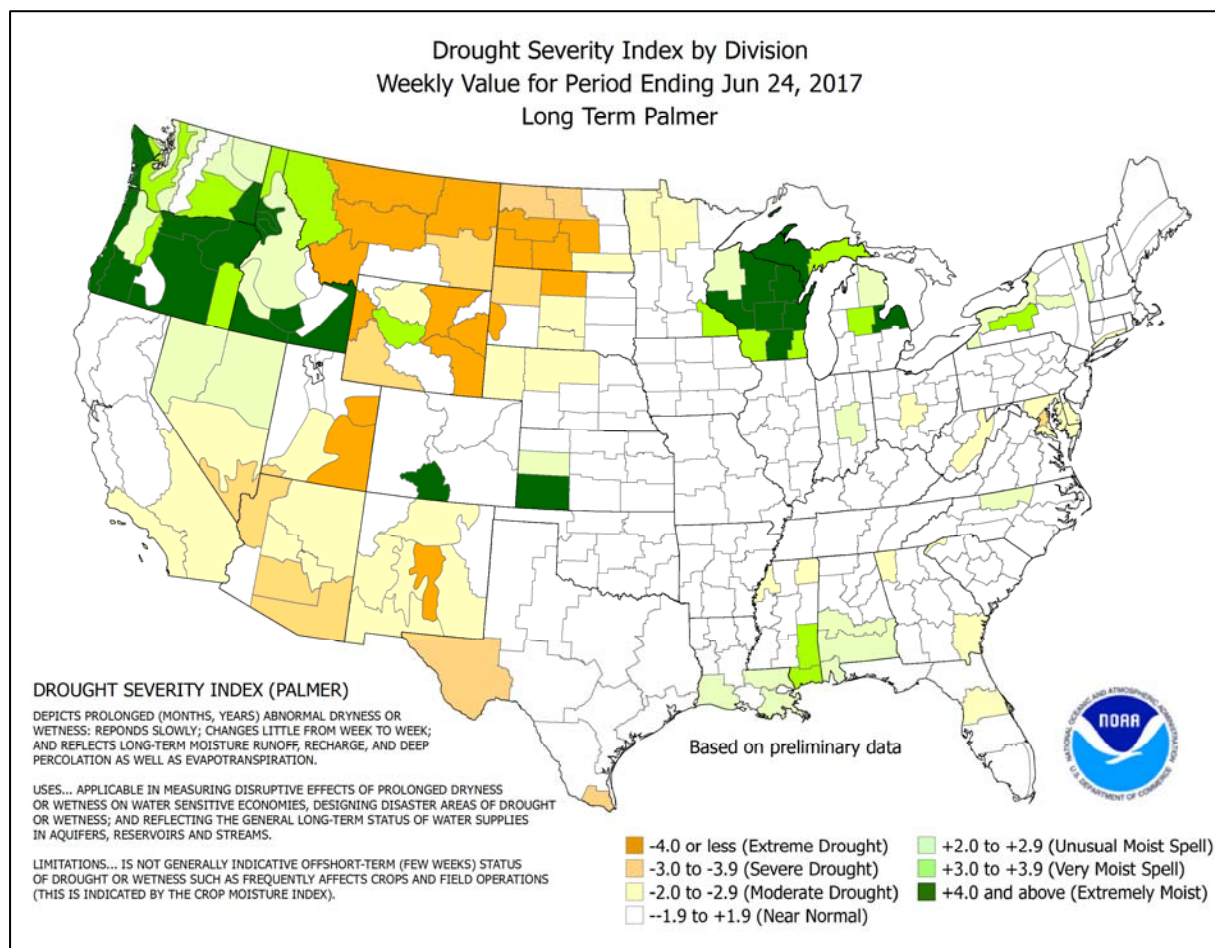
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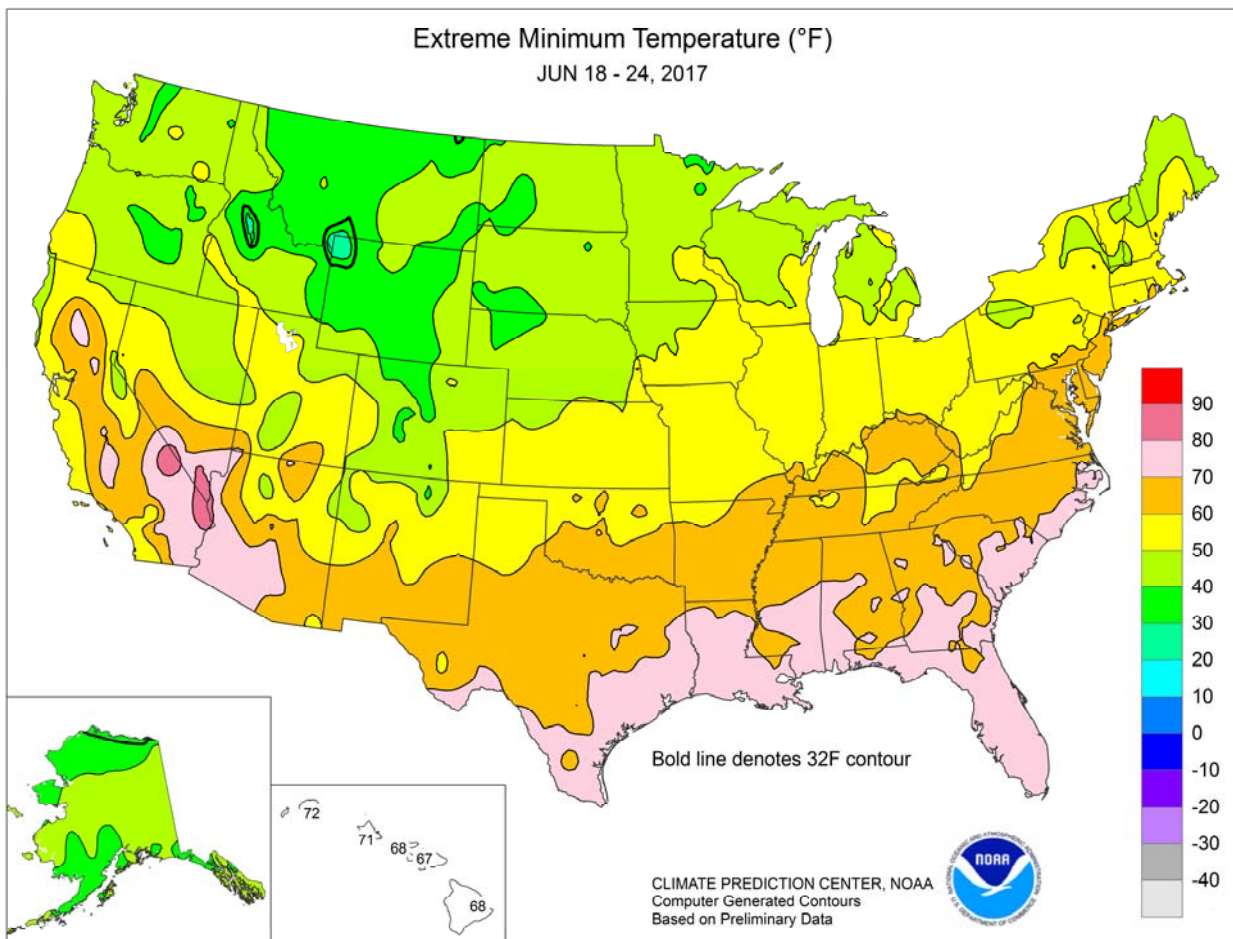
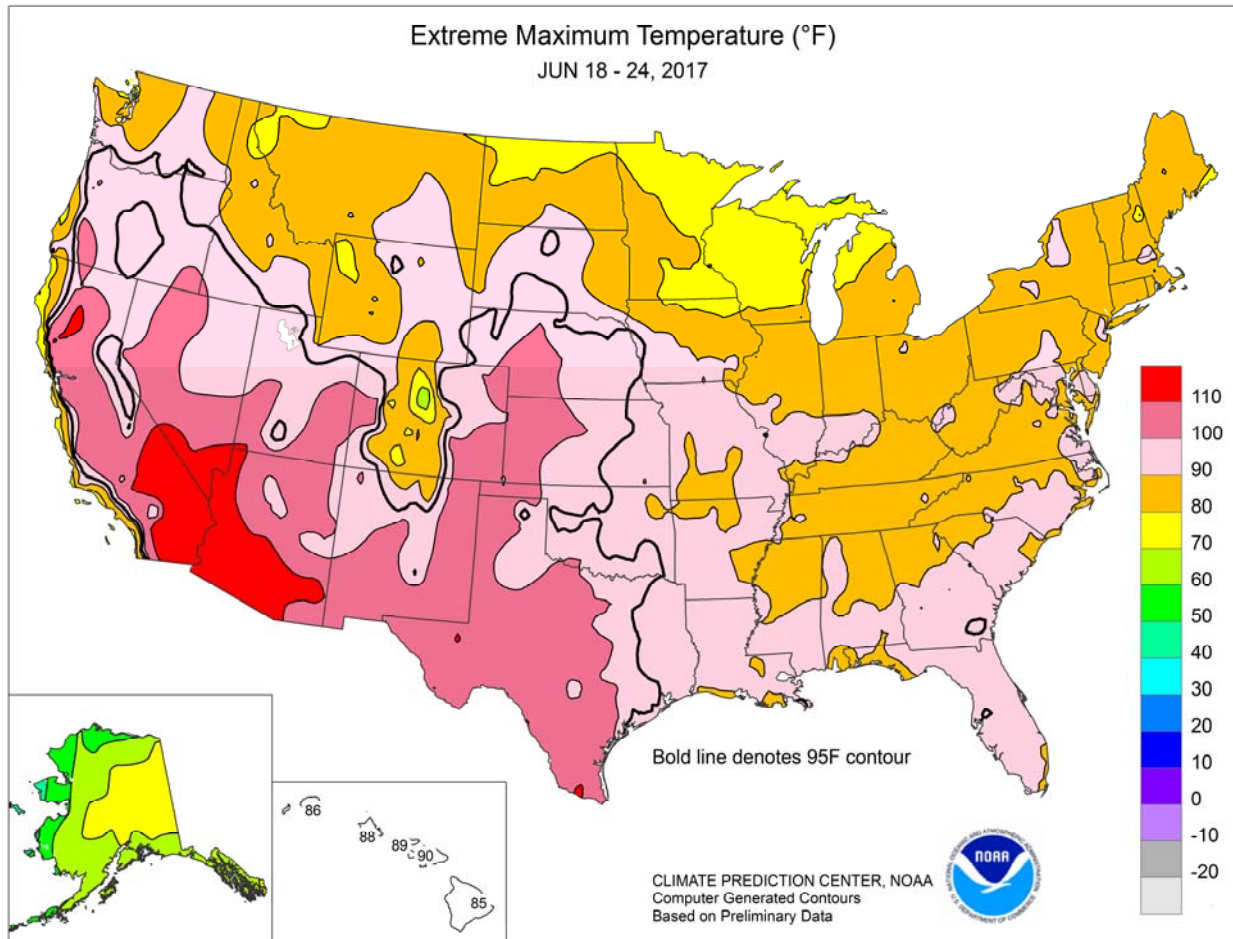
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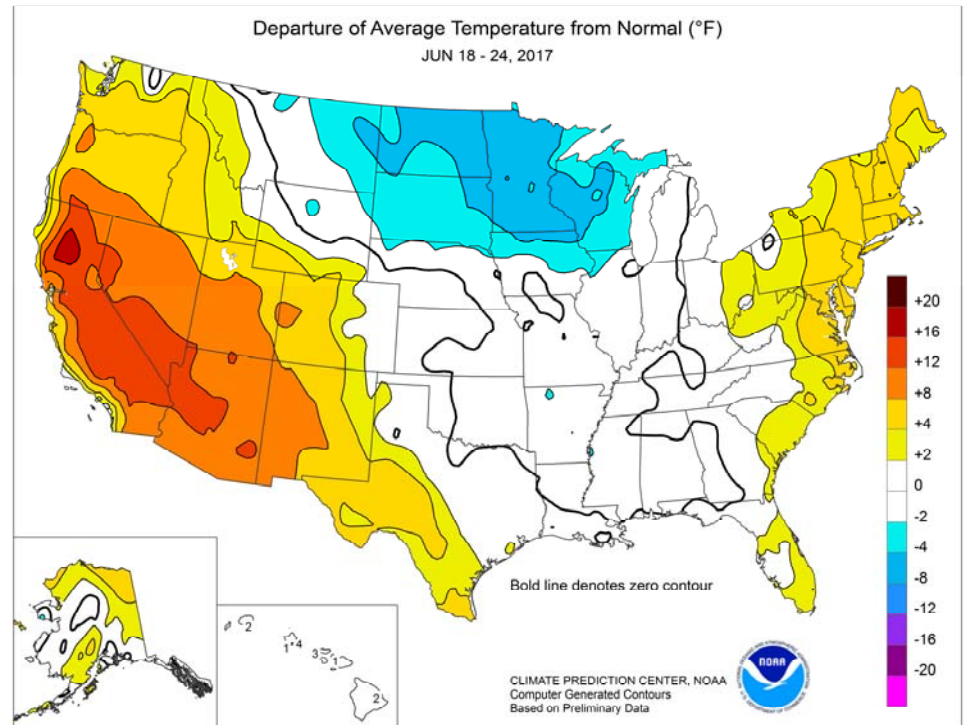


(Continued from front cover)

showers and thunderstorms in the **Midwest**. In addition, cool air trailed that front, as well as a previous one, helping to hold weekly temperatures as much as 5°F below normal across the **northern Plains** and **upper Midwest**. However, rain again mostly bypassed the driest areas of **eastern Montana** and the **western Dakotas**, maintaining stress on rangeland, pastures, winter wheat, and summer crops, despite the lower temperatures. Farther south, short-term dryness on the **central and southern Plains** favored winter wheat maturation and harvesting, but remained a concern with respect to diminishing grass growth and stress on rain-fed crops. Spotty showers brought local relief, but only after a mid-week heat wave had pushed temperatures to 100°F or higher throughout the **central and southern High Plains**. Unlike the **Plains'** fleeting hot spell, sustained, record-breaking heat—with temperatures averaging at least 10°F above normal—gripped **California**, the **Great Basin**, and the **Southwest**. Weekly readings averaged as much as 20°F above normal in **northern California**, while all-time-record highs were tied on June 20 in locations such as **Needles, CA** (125°F), and **Las Vegas, NV** (117°F). The **Western** heat boosted irrigation demands; melted much of the remaining high-elevation snow; and spurred fieldwork and crop development that had been previously delayed by a cool, wet spring.

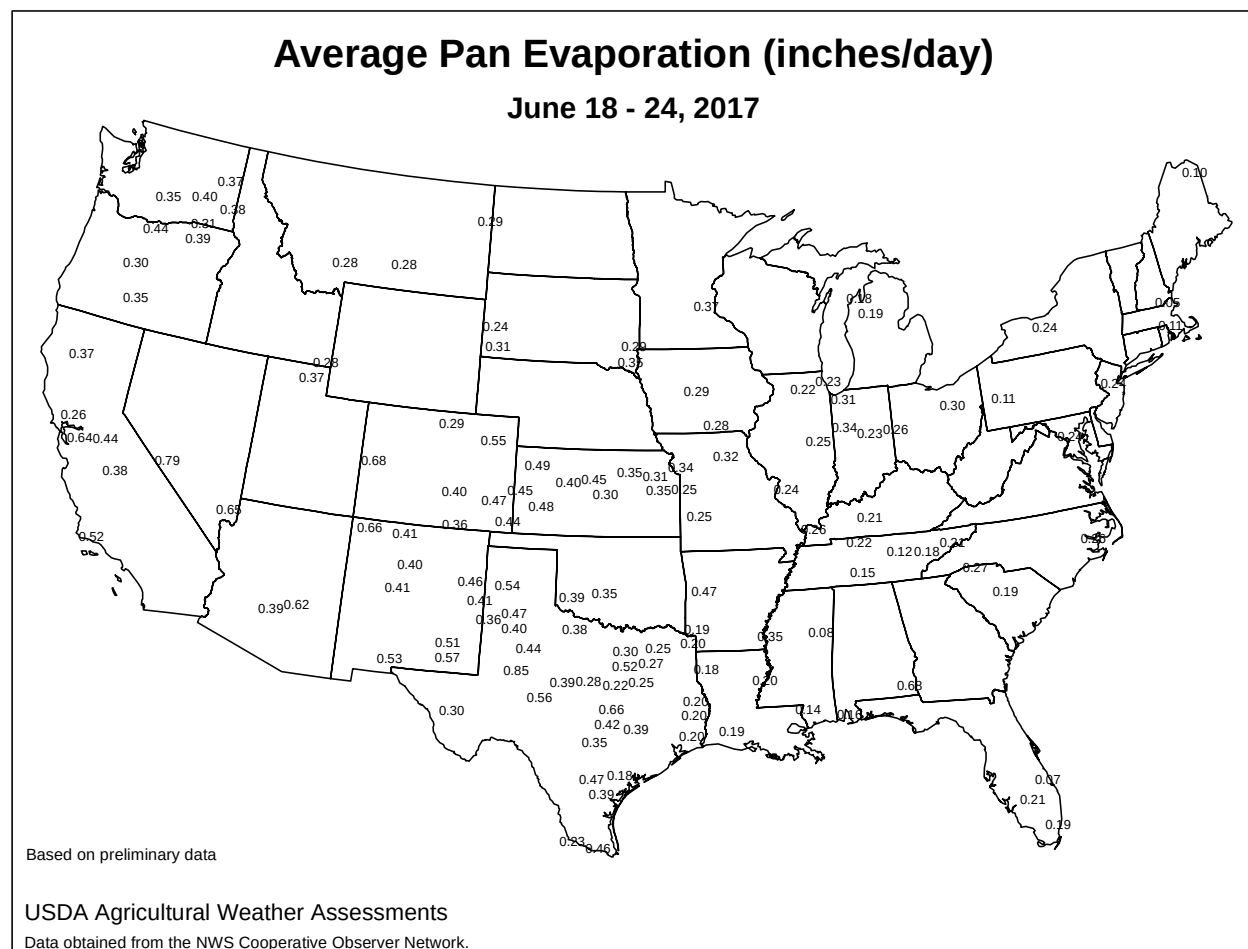
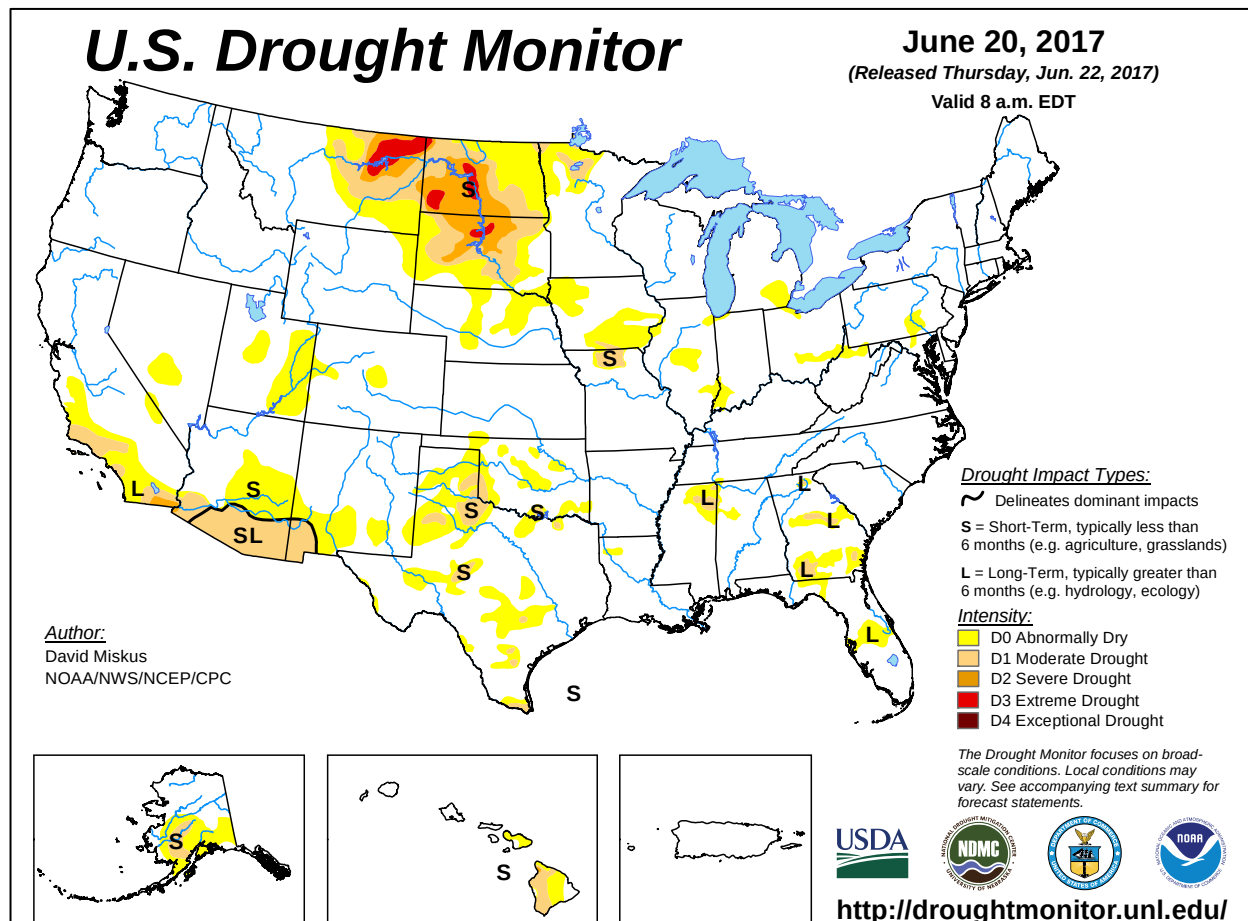
Some of the heaviest rain associated with Tropical Storm Cindy's approach fell along the **central Gulf Coast** on June 20-21, when 2-day totals reached 8.37 inches in **Gulfport, MS**, and 7.83 inches in **Pensacola, FL**. Weekly (June 18-24) totals climbed to 9.70 in **Gulfport** and 9.51 inches in **Pensacola**, while unofficial rainfall amounts reached 10 to 18 inches in isolated locations near the **Gulf Coast** from **southeastern Louisiana to western Florida**. Other June 18-24 totals included 8.97 inches in **New Orleans, LA**, and 8.77 inches in **Tuscaloosa, AL**. During the course of the week, which featured complex interactions between Cindy and a pair of cold fronts, daily-record rainfall totals topped 3 inches in locations such as **Apalachicola, FL** (4.83 inches on June 20); **Dallas-Ft. Worth, TX** (3.84 inches on June 24); **Montgomery, AL** (3.59 inches on June 18); and **Watertown, NY** (3.28 inches on June 23). On June 23, **Midwestern** daily-record amounts included 2.86 inches in **Dayton, OH**; 1.84 inches in **Saginaw, MI**; and 1.79 inches in **Fort Wayne, IN**. Cindy's remnant circulation was fully absorbed by a cold front by June 24, but **Northeastern** daily-record totals for that date reached 1.94 inches in **Trenton, NJ**, and 1.72 inches in **Harrisburg, PA**.

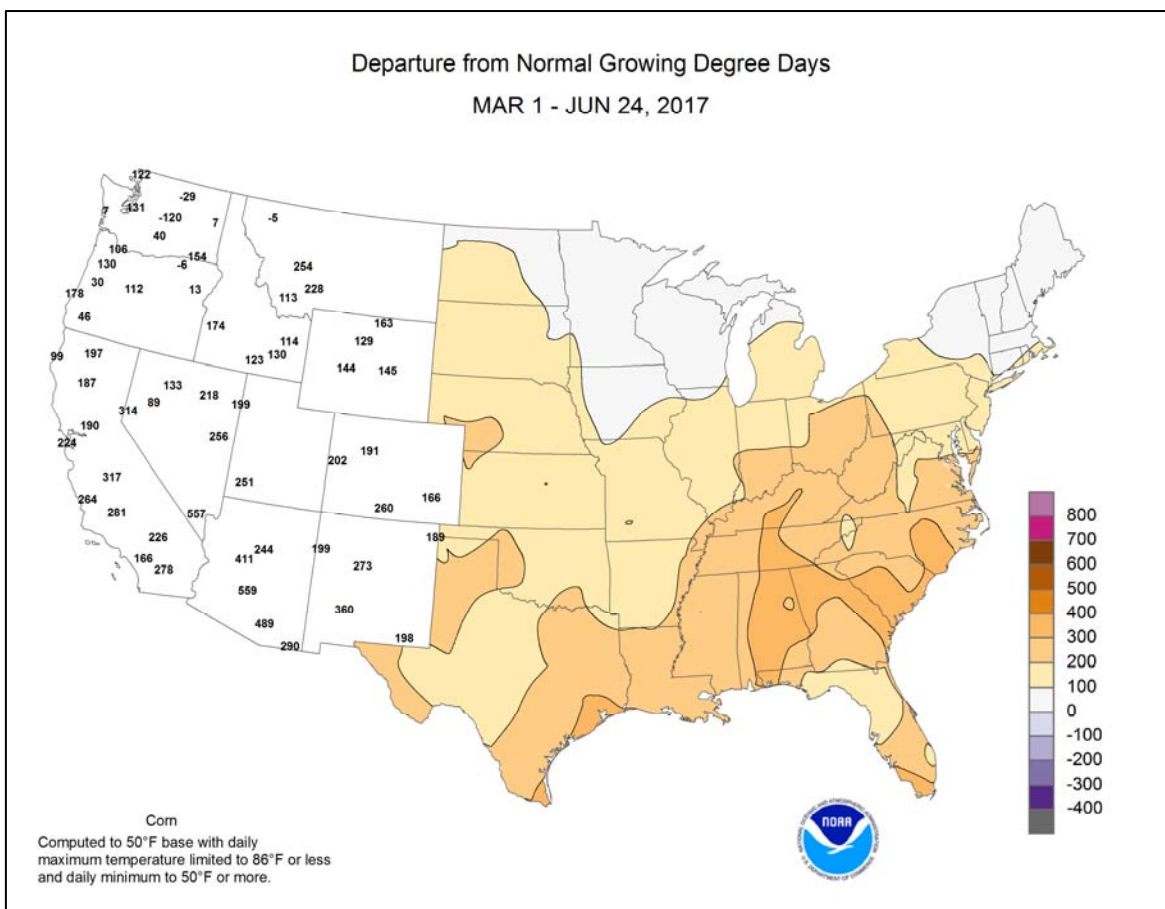
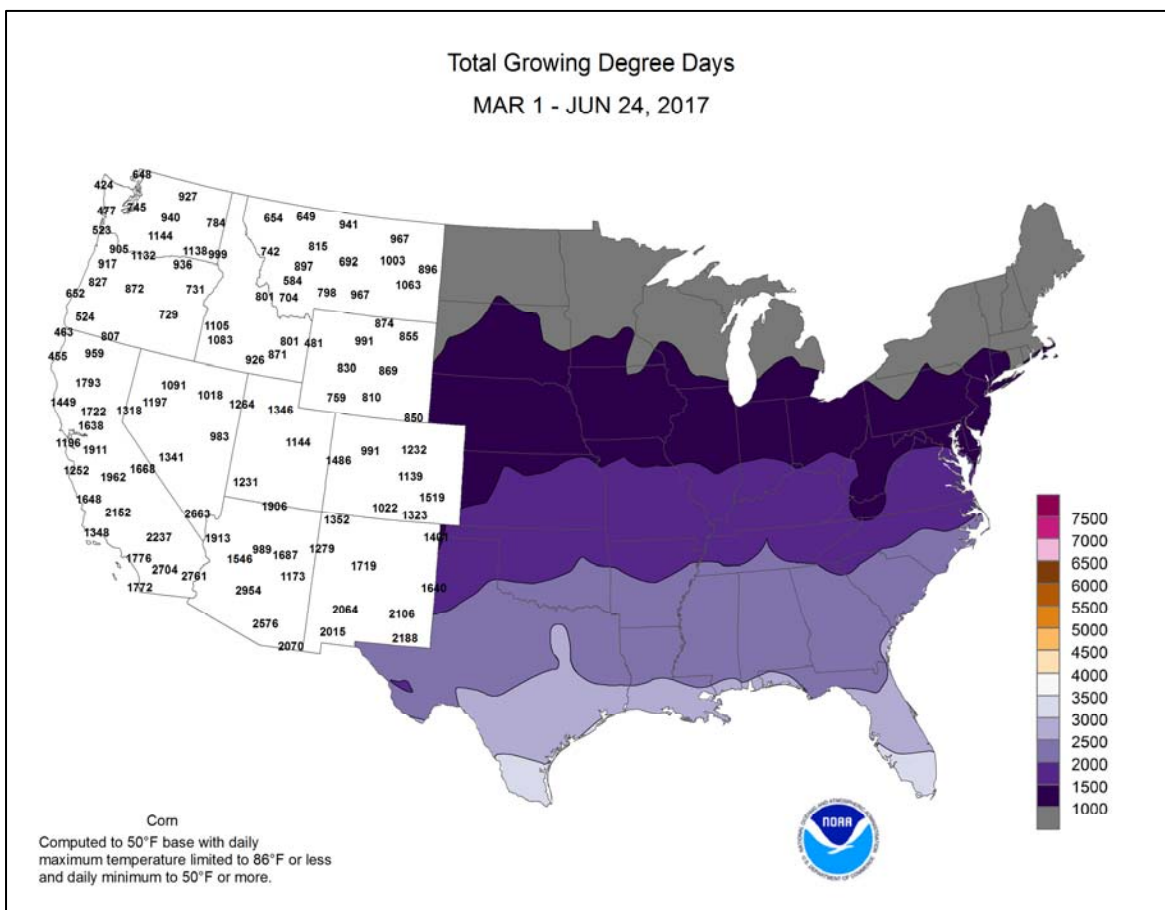
Sweltering conditions blanketed much of the **West** all week. A streak with highs of 120°F or greater began in **Death Valley, CA**, on June 17 and lasted at least 10 days, with the temperature peaking at 127°F on the 20th and 24th. All-time records for the hottest day were tied on June 20 in locations such as **Needles, CA** (125°F; previously, June 20, 2016), and **Las Vegas, NV** (117°F; previously, June 30, 2013). With highs of 122°F on



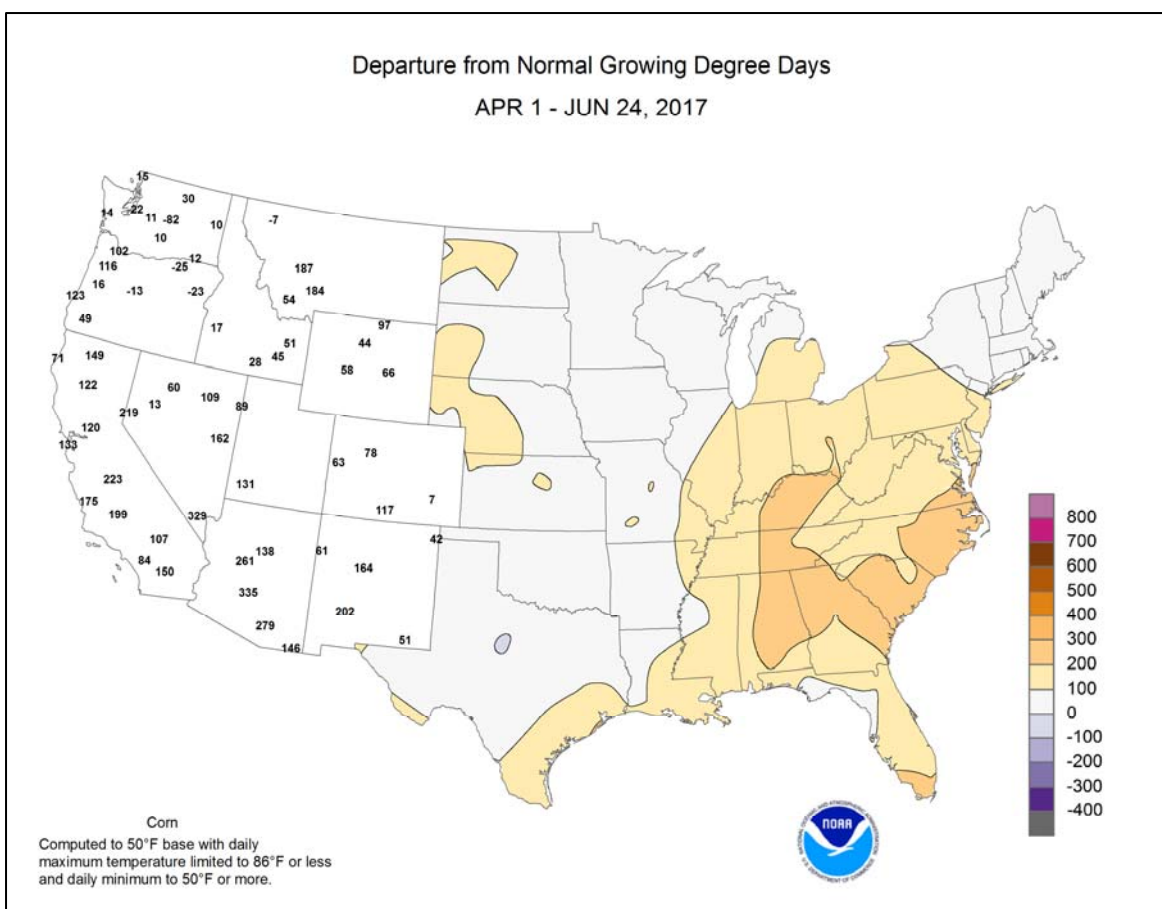
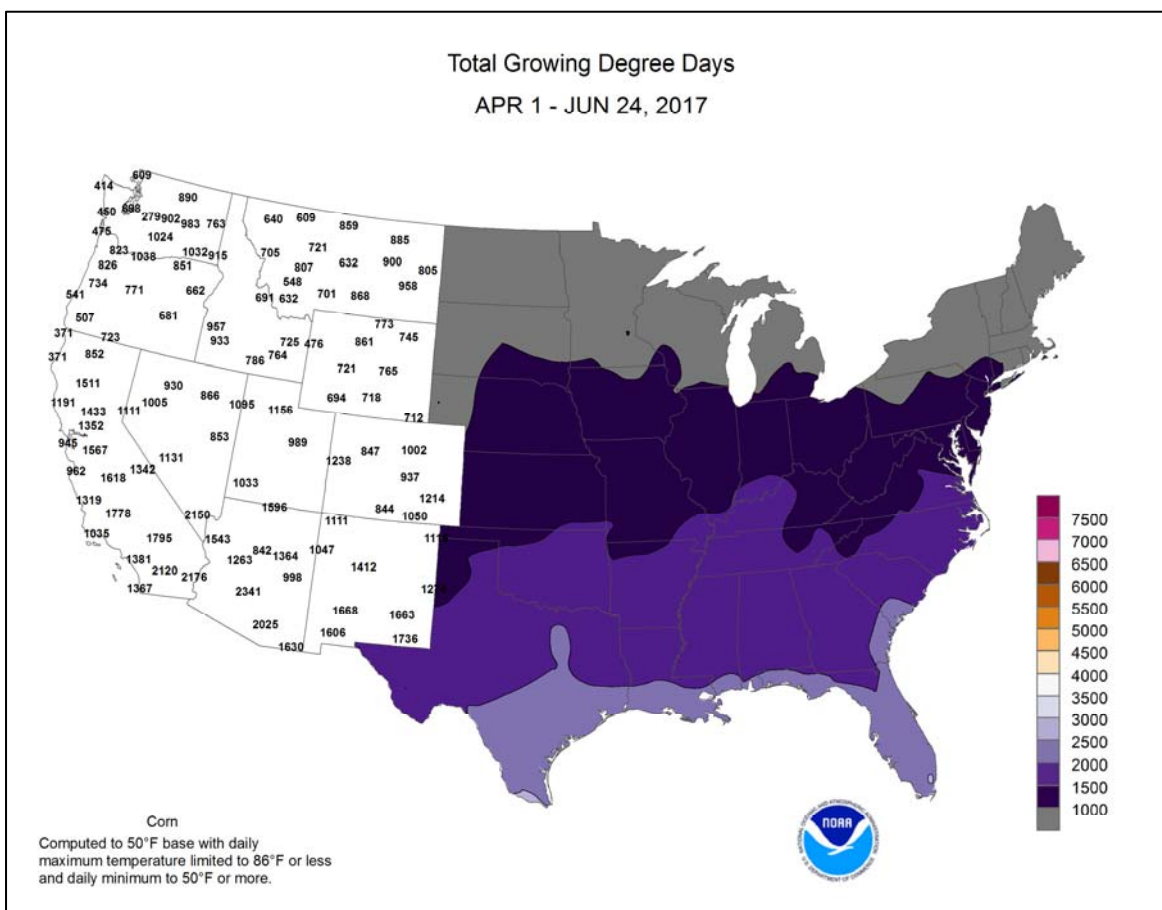
June 20, 24, and 25, **Palm Springs, CA**, tied a monthly record previously attained on June 29, 2013, and June 20, 2016. **Tucson, AZ**, tallied a high of 116°F on June 20, tying with June 29, 1994, for its second-hottest day on record. **Tucson's** highest reading remains 117°F on June 26, 1990. However, **Tucson** recorded its first-ever daily average temperature above the 100-degree mark, with a high of 116°F and a low of 87°F. Extreme heat extended as far east as the **lower Rio Grande Valley**, where **McAllen, TX**, set an all-time record with a high of 111°F on June 22. Previously, **McAllen** had reached 110°F on June 15, 1998, and May 4, 1999. On June 21, heat briefly expanded northward across the **Plains**, where **North Platte, NE**, tied a monthly record with a high of 107°F. **North Platte** had also reported 107°F on June 15, 1952, and June 26, 2012. Late in the week, heat surged into the **Pacific Northwest**. With a high of 103°F on June 24, **Roseburg, OR**, achieved its highest June reading since June 30, 1942, when the temperature soared to 104°F. In stark contrast, a late-week cool surge reached the **northern Plains, upper Midwest, and interior Northwest**. Record-setting lows for June 24 dipped to 37°F in **Casper, WY**, and 39°F in **Aberdeen SD**. **Lake Yellowstone, WY**, ended the week with consecutive freezes (27 and 28°F, respectively) on June 23-24.

Scattered showers accompanied near-normal temperatures in **Alaska**. Some cool weather prevailed early in the week, when daily-record lows included 34°F (on June 19) in **King Salmon** and 42°F (on June 18) in **Sitka**. In **southeastern Alaska**, where **Auke Bay** received 1.50 inches of rain in a 24-hour period on June 19-20, showery weather trailed the cool spell. Farther south, **Hawaii** experienced warm, mostly dry weather. **Kahului, Maui**, registered highs of 90°F on June 16, 19, and 24, followed by a daily-record high of 92°F on June 25. It was **Kahului's** highest temperature since September 28, 2016, when it was also 92°F. Although much of **Hawaii** experienced dry weather, **Honolulu, Oahu**, achieved a daily-record rainfall (0.23 inch) on June 20. On the **Big Island**, however, **Hilo's** June 1-24 rainfall totaled just 2.85 inches (50 percent of normal).











## National Weather Data for Selected Cities

Weather Data for the Week Ending June 24, 2017

Data Provided by Climate Prediction Center

| STATES<br>AND<br>STATIONS |                 | TEMPERATURE °F     |                    |                 |                |         |                          | PRECIPITATION        |                          |                             |                          |                            |                          |                            | RELATIVE<br>HUMIDITY<br>PERCENT |                    | NUMBER OF DAYS |              |                     |                     |
|---------------------------|-----------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|--------------------------|----------------------------|--------------------------|----------------------------|---------------------------------|--------------------|----------------|--------------|---------------------|---------------------|
|                           |                 | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM | EXTREME<br>HIGH | EXTREME<br>LOW | AVERAGE | DEPARTURE<br>FROM NORMAL | WEEKLY<br>TOTAL, IN. | DEPARTURE<br>FROM NORMAL | GREATEST IN<br>24-HOUR, IN. | TOTAL IN.<br>SINCE JUN 1 | PCT. NORMAL<br>SINCE JUN 1 | TOTAL IN.<br>SINCE JAN 1 | PCT. NORMAL<br>SINCE JAN 1 | AVERAGE<br>MAXIMUM              | AVERAGE<br>MINIMUM | TEMP. °F       |              | PRECIP              |                     |
|                           |                 |                    |                    |                 |                |         |                          |                      |                          |                             |                          |                            |                          |                            |                                 |                    | 90 AND ABOVE   | 32 AND BELOW | .01 INCH<br>OR MORE | .50 INCH<br>OR MORE |
| AL                        | BIRMINGHAM      | 84                 | 72                 | 88              | 71             | 78      | 1                        | 5.32                 | 4.48                     | 2.36                        | 8.37                     | 290                        | 36.03                    | 128                        | 95                              | 67                 | 0              | 0            | 7                   | 3                   |
|                           | HUNTSVILLE      | 85                 | 70                 | 89              | 65             | 78      | 1                        | 4.83                 | 3.90                     | 1.70                        | 6.00                     | 177                        | 28.73                    | 95                         | 98                              | 74                 | 0              | 0            | 4                   | 4                   |
|                           | MOBILE          | 85                 | 74                 | 90              | 71             | 79      | -1                       | 4.99                 | 3.89                     | 2.65                        | 9.86                     | 251                        | 41.85                    | 126                        | 93                              | 79                 | 2              | 0            | 5                   | 3                   |
| AK                        | MONTGOMERY      | 86                 | 73                 | 92              | 70             | 80      | 0                        | 7.83                 | 6.86                     | 3.59                        | 11.53                    | 379                        | 45.45                    | 160                        | 86                              | 68                 | 3              | 0            | 5                   | 3                   |
|                           | ANCHORAGE       | 61                 | 48                 | 67              | 44             | 54      | -1                       | 0.39                 | 0.14                     | 0.39                        | 0.67                     | 88                         | 5.49                     | 136                        | 86                              | 70                 | 0              | 0            | 1                   | 0                   |
|                           | BARROW          | 46                 | 35                 | 52              | 30             | 40      | 3                        | 0.22                 | 0.15                     | 0.20                        | 0.22                     | 138                        | 3.52                     | 489                        | 96                              | 77                 | 0              | 3            | 3                   | 0                   |
|                           | FAIRBANKS       | 74                 | 53                 | 78              | 50             | 63      | 2                        | 0.30                 | -0.03                    | 0.23                        | 1.73                     | 173                        | 4.77                     | 159                        | 85                              | 48                 | 0              | 0            | 3                   | 0                   |
|                           | JUNEAU          | 62                 | 47                 | 67              | 41             | 55      | 0                        | 1.45                 | 0.68                     | 0.87                        | 3.00                     | 114                        | 25.17                    | 118                        | 94                              | 80                 | 0              | 0            | 4                   | 1                   |
|                           | KODIAK          | 58                 | 47                 | 70              | 41             | 53      | 3                        | 0.60                 | -0.61                    | 0.31                        | 3.10                     | 70                         | 23.82                    | 67                         | 87                              | 72                 | 0              | 0            | 3                   | 0                   |
| AZ                        | NOME            | 47                 | 42                 | 50              | 36             | 45      | -3                       | 0.27                 | 0.01                     | 0.24                        | 0.76                     | 97                         | 3.32                     | 75                         | 97                              | 88                 | 0              | 0            | 4                   | 0                   |
|                           | FLAGSTAFF       | 92                 | 52                 | 93              | 49             | 72      | 11                       | 0.12                 | 0.04                     | 0.12                        | 0.12                     | 67                         | 9.76                     | 101                        | 44                              | 9                  | 7              | 0            | 1                   | 0                   |
|                           | PHOENIX         | 115                | 87                 | 119             | 80             | 101     | 11                       | 0.00                 | 0.00                     | 0.00                        | 0.00                     | 0                          | 2.41                     | 78                         | 22                              | 12                 | 7              | 0            | 0                   | 0                   |
|                           | PRESCOTT        | 102                | 65                 | 103             | 59             | 83      | 14                       | 0.00                 | -0.07                    | 0.00                        | 0.00                     | 0                          | 4.90                     | 71                         | 35                              | 7                  | 7              | 0            | 0                   | 0                   |
|                           | TUCSON          | 112                | 81                 | 116             | 71             | 97      | 12                       | 0.00                 | -0.05                    | 0.00                        | 0.00                     | 0                          | 1.60                     | 49                         | 25                              | 13                 | 7              | 0            | 0                   | 0                   |
|                           | FORT SMITH      | 88                 | 68                 | 94              | 63             | 78      | 0                        | 3.12                 | 2.18                     | 2.80                        | 5.89                     | 165                        | 27.96                    | 129                        | 85                              | 43                 | 2              | 0            | 2                   | 1                   |
| CA                        | LITTLE ROCK     | 87                 | 68                 | 90              | 63             | 78      | -1                       | 1.79                 | 0.90                     | 0.70                        | 3.10                     | 97                         | 28.92                    | 113                        | 100                             | 60                 | 2              | 0            | 4                   | 2                   |
|                           | BAKERSFIELD     | 108                | 81                 | 110             | 79             | 94      | 15                       | 0.00                 | 0.00                     | 0.00                        | 0.00                     | 0                          | 4.79                     | 105                        | 43                              | 28                 | 7              | 0            | 0                   | 0                   |
|                           | FRESNO          | 107                | 78                 | 110             | 73             | 92      | 15                       | 0.00                 | -0.03                    | 0.00                        | 0.00                     | 0                          | 12.64                    | 162                        | 58                              | 37                 | 7              | 0            | 0                   | 0                   |
|                           | LOS ANGELES     | 73                 | 62                 | 75              | 61             | 67      | 0                        | 0.00                 | 0.00                     | 0.00                        | 0.00                     | 0                          | 12.07                    | 128                        | 96                              | 78                 | 0              | 0            | 0                   | 0                   |
|                           | REDDING         | 111                | 81                 | 113             | 73             | 96      | 20                       | 0.00                 | -0.10                    | 0.00                        | 0.59                     | 86                         | 28.30                    | 129                        | 37                              | 20                 | 7              | 0            | 0                   | 0                   |
|                           | SACRAMENTO      | 103                | 68                 | 107             | 60             | 86      | 14                       | 0.00                 | -0.03                    | 0.00                        | 0.10                     | 63                         | 23.64                    | 199                        | 74                              | 26                 | 7              | 0            | 0                   | 0                   |
|                           | SAN DIEGO       | 75                 | 64                 | 79              | 62             | 69      | 1                        | 0.00                 | 0.00                     | 0.00                        | 0.02                     | 40                         | 7.75                     | 102                        | 90                              | 75                 | 0              | 0            | 0                   | 0                   |
|                           | SAN FRANCISCO   | 78                 | 58                 | 97              | 54             | 68      | 6                        | 0.00                 | 0.00                     | 0.00                        | 0.05                     | 71                         | 21.97                    | 165                        | 82                              | 64                 | 1              | 0            | 0                   | 0                   |
|                           | STOCKTON        | 106                | 69                 | 109             | 64             | 88      | 14                       | 0.00                 | 0.00                     | 0.00                        | 0.03                     | 43                         | 15.62                    | 174                        | 65                              | 35                 | 7              | 0            | 0                   | 0                   |
| CO                        | ALAMOSA         | 87                 | 46                 | 90              | 42             | 67      | 7                        | 0.04                 | -0.07                    | 0.04                        | 0.19                     | 46                         | 4.44                     | 173                        | 83                              | 31                 | 2              | 0            | 1                   | 0                   |
|                           | CO SPRINGS      | 83                 | 57                 | 95              | 50             | 70      | 5                        | 0.05                 | -0.47                    | 0.05                        | 0.14                     | 7                          | 6.26                     | 83                         | 67                              | 26                 | 3              | 0            | 1                   | 0                   |
|                           | DENVER INTL     | 86                 | 56                 | 99              | 45             | 71      | 4                        | 0.10                 | -0.22                    | 0.10                        | 0.12                     | 9                          | 6.43                     | 99                         | 67                              | 26                 | 3              | 0            | 1                   | 0                   |
|                           | GRAND JUNCTION  | 98                 | 65                 | 102             | 59             | 81      | 9                        | 0.00                 | -0.06                    | 0.00                        | 0.03                     | 9                          | 2.86                     | 67                         | 32                              | 15                 | 7              | 0            | 0                   | 0                   |
|                           | PUEBLO          | 89                 | 59                 | 102             | 52             | 74      | 3                        | 0.11                 | -0.17                    | 0.06                        | 1.57                     | 157                        | 10.63                    | 201                        | 67                              | 32                 | 3              | 0            | 2                   | 0                   |
|                           | BRIDGEPORT      | 85                 | 68                 | 90              | 63             | 77      | 8                        | 1.67                 | 0.87                     | 0.85                        | 2.04                     | 72                         | 21.87                    | 101                        | 87                              | 53                 | 1              | 0            | 3                   | 2                   |
| DC                        | HARTFORD        | 86                 | 64                 | 90              | 55             | 75      | 6                        | 1.55                 | 0.69                     | 1.51                        | 2.89                     | 92                         | 21.16                    | 96                         | 89                              | 49                 | 1              | 0            | 4                   | 1                   |
|                           | WASHINGTON      | 89                 | 73                 | 92              | 70             | 81      | 6                        | 0.73                 | 0.04                     | 0.53                        | 1.09                     | 43                         | 15.88                    | 86                         | 90                              | 50                 | 2              | 0            | 3                   | 1                   |
|                           | WILMINGTON      | 88                 | 70                 | 90              | 66             | 79      | 7                        | 1.29                 | 0.49                     | 0.77                        | 3.87                     | 138                        | 21.05                    | 102                        | 97                              | 51                 | 1              | 0            | 4                   | 1                   |
| DE                        | DAYTONA BEACH   | 90                 | 75                 | 94              | 74             | 83      | 3                        | 0.39                 | -0.99                    | 0.29                        | 4.80                     | 109                        | 13.03                    | 65                         | 97                              | 64                 | 3              | 0            | 3                   | 0                   |
|                           | JACKSONVILLE    | 91                 | 74                 | 94              | 72             | 82      | 2                        | 2.06                 | 0.75                     | 1.78                        | 8.56                     | 213                        | 24.41                    | 114                        | 99                              | 61                 | 5              | 0            | 4                   | 1                   |
|                           | KEY WEST        | 88                 | 80                 | 89              | 76             | 84      | 0                        | 0.25                 | -0.81                    | 0.20                        | 5.66                     | 151                        | 14.71                    | 99                         | 85                              | 72                 | 0              | 0            | 2                   | 0                   |
| FL                        | MIAMI           | 90                 | 80                 | 91              | 76             | 85      | 2                        | 1.60                 | -0.44                    | 1.48                        | 13.01                    | 187                        | 26.49                    | 119                        | 80                              | 63                 | 6              | 0            | 3                   | 1                   |
|                           | ORLANDO         | 90                 | 73                 | 92              | 71             | 81      | 0                        | 0.52                 | -1.29                    | 0.38                        | 5.14                     | 93                         | 11.57                    | 58                         | 100                             | 65                 | 6              | 0            | 4                   | 0                   |
|                           | PENSACOLA       | 84                 | 78                 | 88              | 74             | 81      | 0                        | 6.19                 | 4.65                     | 3.14                        | 9.30                     | 195                        | 37.78                    | 128                        | 86                              | 74                 | 0              | 0            | 6                   | 3                   |
|                           | TALLAHASSEE     | 88                 | 73                 | 94              | 70             | 81      | 0                        | 2.65                 | 1.02                     | 1.93                        | 7.21                     | 136                        | 27.01                    | 89                         | 99                              | 78                 | 4              | 0            | 3                   | 2                   |
|                           | TAMPA           | 91                 | 77                 | 95              | 76             | 84      | 2                        | 1.10                 | -0.25                    | 0.67                        | 6.94                     | 169                        | 12.91                    | 78                         | 88                              | 57                 | 6              | 0            | 4                   | 1                   |
|                           | WEST PALM BEACH | 89                 | 80                 | 90              | 75             | 84      | 3                        | 0.51                 | -1.30                    | 0.34                        | 9.40                     | 157                        | 20.81                    | 83                         | 80                              | 64                 | 2              | 0            | 2                   | 0                   |
| GA                        | ATHENS          | 85                 | 70                 | 90              | 68             | 77      | 0                        | 4.33                 | 3.43                     | 1.57                        | 6.39                     | 208                        | 31.50                    | 129                        | 100                             | 81                 | 1              | 0            | 6                   | 3                   |
|                           | ATLANTA         | 83                 | 71                 | 88              | 70             | 77      | -1                       | 2.96                 | 2.13                     | 1.72                        | 6.14                     | 228                        | 29.22                    | 115                        | 95                              | 76                 | 0              | 0            | 7                   | 2                   |
|                           | AUGUSTA         | 91                 | 74                 | 95              | 69             | 83      | 5                        | 2.03                 | 1.04                     | 1.10                        | 3.10                     | 94                         | 23.04                    | 102                        | 91                              | 61                 | 5              | 0            | 5                   | 2                   |
|                           | COLUMBUS        | 86                 | 73                 | 93              | 71             | 79      | -1                       | 1.77                 | 0.96                     | 0.69                        | 2.66                     | 102                        | 28.23                    | 113                        | 93                              | 66                 | 2              | 0            | 5                   | 1                   |
|                           | MACON           | 87                 | 72                 | 92              | 70             | 79      | 0                        | 1.59                 | 0.76                     | 0.55                        | 4.59                     | 173                        | 28.32                    | 122                        | 95                              | 65                 | 4              | 0            | 4                   | 1                   |
|                           | SAVANNAH        | 91                 | 75                 | 95              | 71             | 83      | 4                        | 1.08                 | -0.24                    | 0.54                        | 2.20                     | 52                         | 25.95                    | 120                        | 85                              | 57                 | 5              | 0            | 2                   | 2                   |
| HI                        | HILO            | 84                 | 70                 | 85              | 68             | 77      | 2                        | 0.40                 | -1.35                    | 0.20                        | 2.86                     | 53                         | 37.52                    | 64                         | 91                              | 72                 | 0              | 0            | 5                   | 0                   |
|                           | HONOLULU        | 86                 | 73                 | 88              | 71             | 79      | -1                       | 0.23                 | 0.15                     | 0.23                        | 0.48                     | 145                        | 13.96                    | 152                        | 73                              | 66                 | 0              | 0            | 1                   | 0                   |
|                           | KAHULUI         | 88                 | 70                 | 90              | 67             | 79      | 1                        | 0.00                 | -0.03                    | 0.00                        | 0.07                     | 58                         | 14.70                    | 134                        | 77                              | 65                 | 2              | 0            | 0                   | 0                   |
|                           | LIHUE           | 85                 | 74                 | 86              | 72             | 80      | 2                        | 0.11                 | -0.28                    | 0.04                        | 0.75                     | 51                         | 15.31                    | 82                         | 80                              | 71                 | 0              | 0            | 4                   | 0                   |
|                           | BOISE           | 88                 | 59                 | 96              | 50             | 73      | 5                        | 0.00                 | -0.14                    | 0.00                        | 1.20                     | 200                        | 10.99                    | 155                        | 55                              | 32                 | 2              | 0            | 0                   | 0                   |
|                           | LEWISTON        | 87                 | 58                 | 95              | 50             | 72      | 5                        | 0.00                 | -0.24                    | 0.00                        | 0.62                     | 65                         | 10.37                    | 148                        | 58                              | 36                 | 3              | 0            | 0                   | 0                   |
| ID                        | POCATELLO       | 85                 | 50                 | 94              | 42             | 67      | 4                        | 0.00                 | -0.17                    | 0.00                        | 1.14                     | 148                        | 11.05                    | 158                        | 71                              | 35                 | 1              | 0            | 0                   | 0                   |
|                           | CHICAGO/O'HARE  | 81                 | 62                 | 88              | 55             | 72      | 3                        | 0.76                 | -0.09                    | 0.71                        | 2.12                     | 74                         | 20.23                    | 127                        | 79                              | 44                 | 0              | 0            | 3                   | 1                   |
|                           | MOLINE          | 83                 | 62                 | 91              | 55             | 73      | 1                        | 0.89                 | -0.18                    | 0.57                        | 2.44                     | 66                         | 17.20                    | 97                         | 81                              | 47                 | 1              | 0            | 4                   | 1                   |
|                           | PEORIA          | 82                 | 63                 | 88              | 56             | 73      | 1                        | 0.69                 | -0.19                    | 0.28                        | 1.59                     | 53                         | 20.08                    | 120                        | 94                              | 47                 | 0              | 0            | 4                   | 0                   |
|                           | ROCKFORD        | 80                 | 59                 | 88              | 53             | 70      | 0                        | 0.61                 | -0.52                    | 0.45                        | 3.00                     | 80                         | 21.85                    | 132                        | 86                              | 49                 | 0              | 0            | 4                   | 0                   |
|                           | SPRINGFIELD     | 85                 | 64                 | 91              | 59             | 75      | 1                        | 0.36                 | -0.49                    | 0.18                        | 1.16                     | 38                         | 18.08                    | 106                        | 95                              | 44                 | 1              | 0            | 4                   | 0                   |
| IN                        | EVANSVILLE      | 84                 | 66                 | 92              | 60             | 75      | -1                       | 2.31                 | 1.40                     | 1.86                        | 3.55                     | 107                        | 23.87                    | 103                        | 83                              | 58                 | 2              | 0            | 3                   | 1                   |
|                           | FORT WAYNE      | 80                 | 61                 | 88              | 57             | 71      | 0                        | 2.54                 | 1.60                     | 1.79                        | 4.08                     | 128                        | 28.53                    | 165                        | 87                              | 51                 | 0              | 0            | 4                   | 2                   |
|                           | INDIANAPOLIS    | 82                 | 63                 | 89              | 58             | 72      | -1                       | 2.60                 | 1.66                     | 2.12                        | 4.40                     | 135                        | 28.67                    | 147                        | 88                              | 56                 | 0              | 0            | 4                   | 1                   |
|                           | SOUTH BEND      | 79                 | 59                 | 87              | 51             | 69      | -1                       | 0.21                 | -0.78                    | 0.13                        | 1.31                     | 40                         | 20.54                    | 117                        | 89                              | 53                 | 0              | 0            | 3                   | 0                   |
|                           | BURLINGTON      | 83                 | 63                 | 89              | 56             | 73      | 0                        | 0.35                 | -0.67                    | 0.17                        | 0.87                     | 25                         | 15.02                    |                            |                                 |                    |                |              |                     |                     |

## Weather Data for the Week Ending June 24, 2017

| STATES<br>AND<br>STATIONS |               | TEMPERATURE °F     |                    |                 |                |         |                          | PRECIPITATION        |                          |                             |                          |                            |                           |                            | RELATIVE<br>HUMIDITY<br>PERCENT |                    | NUMBER OF DAYS |              |                     |                     |
|---------------------------|---------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|--------------------------|----------------------------|---------------------------|----------------------------|---------------------------------|--------------------|----------------|--------------|---------------------|---------------------|
|                           |               | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM | EXTREME<br>HIGH | EXTREME<br>LOW | AVERAGE | DEPARTURE<br>FROM NORMAL | WEEKLY<br>TOTAL, IN. | DEPARTURE<br>FROM NORMAL | GREATEST IN<br>24-HOUR, IN. | TOTAL IN,<br>SINCE JUN 1 | PCT. NORMAL<br>SINCE JUN 1 | TOTAL IN.,<br>SINCE JAN01 | PCT. NORMAL<br>SINCE JAN01 | AVERAGE<br>MAXIMUM              | AVERAGE<br>MINIMUM | TEMP. °F       |              | PRECIP.             |                     |
|                           |               |                    |                    |                 |                |         |                          |                      |                          |                             |                          |                            |                           |                            |                                 |                    | 90 AND ABOVE   | 32 AND BELOW | .01 INCH<br>OR MORE | .50 INCH<br>OR MORE |
| KY                        | WICHITA       | 88                 | 64                 | 93              | 59             | 76      | -1                       | 0.36                 | -0.60                    | 0.36                        | 3.14                     | 90                         | 21.98                     | 149                        | 85                              | 50                 | 3              | 0            | 1                   | 0                   |
|                           | JACKSON       | 82                 | 66                 | 87              | 62             | 74      | 2                        | 3.12                 | 2.07                     | 1.72                        | 6.21                     | 165                        | 29.63                     | 122                        | 93                              | 57                 | 0              | 0            | 5                   | 2                   |
|                           | LEXINGTON     | 85                 | 66                 | 90              | 62             | 75      | 2                        | 4.38                 | 3.33                     | 3.17                        | 5.68                     | 156                        | 25.12                     | 109                        | 86                              | 54                 | 1              | 0            | 5                   | 3                   |
|                           | LOUISVILLE    | 87                 | 68                 | 93              | 62             | 77      | 2                        | 1.91                 | 1.08                     | 1.13                        | 2.67                     | 88                         | 21.81                     | 96                         | 86                              | 49                 | 1              | 0            | 3                   | 1                   |
| LA                        | PADUCAH       | 85                 | 67                 | 90              | 59             | 76      | 0                        | 4.40                 | 3.33                     | 2.82                        | 6.25                     | 181                        | 28.59                     | 115                        | 85                              | 61                 | 1              | 0            | 3                   | 2                   |
|                           | BATON ROUGE   | 87                 | 73                 | 92              | 69             | 80      | 0                        | 3.12                 | 1.87                     | 1.35                        | 7.49                     | 182                        | 39.14                     | 125                        | 96                              | 66                 | 4              | 0            | 7                   | 3                   |
|                           | LAKE CHARLES  | 89                 | 77                 | 94              | 75             | 83      | 2                        | 2.80                 | 1.42                     | 2.50                        | 6.41                     | 130                        | 32.54                     | 121                        | 96                              | 59                 | 3              | 0            | 4                   | 1                   |
|                           | NEW ORLEANS   | 88                 | 75                 | 92              | 71             | 81      | 0                        | 8.98                 | 7.30                     | 3.47                        | 14.72                    | 283                        | 40.62                     | 129                        | 95                              | 73                 | 3              | 0            | 6                   | 4                   |
| ME                        | SHREVEPORT    | 89                 | 74                 | 92              | 73             | 82      | 1                        | 1.72                 | 0.55                     | 1.48                        | 2.88                     | 71                         | 20.32                     | 76                         | 98                              | 67                 | 4              | 0            | 4                   | 1                   |
|                           | CARIBOU       | 76                 | 57                 | 83              | 50             | 66      | 4                        | 1.91                 | 1.17                     | 0.78                        | 2.79                     | 108                        | 19.36                     | 120                        | 92                              | 58                 | 0              | 0            | 5                   | 2                   |
|                           | PORTLAND      | 81                 | 61                 | 85              | 54             | 71      | 7                        | 0.34                 | -0.40                    | 0.33                        | 1.82                     | 70                         | 25.86                     | 117                        | 91                              | 54                 | 0              | 0            | 2                   | 0                   |
|                           | BALTIMORE     | 89                 | 69                 | 92              | 65             | 79      | 6                        | 1.22                 | 0.46                     | 0.91                        | 1.40                     | 51                         | 18.53                     | 92                         | 92                              | 50                 | 3              | 0            | 3                   | 1                   |
| MA                        | BOSTON        | 86                 | 68                 | 90              | 65             | 77      | 8                        | 0.24                 | -0.50                    | 0.13                        | 4.70                     | 184                        | 25.52                     | 125                        | 88                              | 47                 | 1              | 0            | 3                   | 0                   |
|                           | WORCESTER     | 80                 | 63                 | 85              | 57             | 71      | 5                        | 0.62                 | -0.29                    | 0.42                        | 2.91                     | 91                         | 23.91                     | 105                        | 89                              | 48                 | 0              | 0            | 4                   | 0                   |
| MI                        | ALPENA        | 75                 | 55                 | 80              | 51             | 65      | 3                        | 2.65                 | 2.07                     | 0.82                        | 4.24                     | 214                        | 20.11                     | 166                        | 100                             | 55                 | 0              | 0            | 6                   | 3                   |
|                           | GRAND RAPIDS  | 77                 | 59                 | 89              | 51             | 68      | 0                        | 1.39                 | 0.52                     | 0.85                        | 4.09                     | 146                        | 20.70                     | 131                        | 95                              | 50                 | 0              | 0            | 4                   | 1                   |
|                           | HOUGHTON LAKE | 74                 | 55                 | 80              | 50             | 65      | 2                        | 1.52                 | 0.85                     | 0.84                        | 4.46                     | 191                        | 20.37                     | 168                        | 93                              | 61                 | 0              | 0            | 6                   | 1                   |
|                           | LANSING       | 81                 | 59                 | 90              | 51             | 70      | 3                        | 1.27                 | 0.40                     | 0.98                        | 3.64                     | 129                        | 21.10                     | 151                        | 76                              | 44                 | 1              | 0            | 4                   | 1                   |
| MN                        | MUSKEGON      | 75                 | 59                 | 82              | 51             | 67      | 1                        | 0.61                 | 0.04                     | 0.44                        | 1.99                     | 94                         | 16.47                     | 116                        | 88                              | 63                 | 0              | 0            | 2                   | 0                   |
|                           | TRAVERSE CITY | 75                 | 56                 | 81              | 52             | 66      | 1                        | 1.02                 | 0.21                     | 0.56                        | 3.30                     | 132                        | 17.30                     | 121                        | 92                              | 50                 | 0              | 0            | 4                   | 1                   |
|                           | DULUTH        | 69                 | 50                 | 77              | 45             | 59      | -2                       | 0.45                 | -0.57                    | 0.26                        | 2.97                     | 92                         | 14.20                     | 119                        | 94                              | 57                 | 0              | 0            | 5                   | 0                   |
|                           | INT'L FALLS   | 69                 | 48                 | 77              | 38             | 58      | -4                       | 0.37                 | -0.59                    | 0.29                        | 2.98                     | 96                         | 9.60                      | 101                        | 92                              | 52                 | 0              | 0            | 4                   | 0                   |
| MS                        | MINNEAPOLIS   | 74                 | 59                 | 81              | 54             | 66      | -3                       | 0.75                 | -0.27                    | 0.49                        | 3.21                     | 94                         | 14.75                     | 117                        | 76                              | 51                 | 0              | 0            | 3                   | 0                   |
|                           | ROCHESTER     | 72                 | 56                 | 75              | 49             | 64      | -3                       | 0.95                 | 0.01                     | 0.76                        | 2.85                     | 93                         | 18.61                     | 141                        | 89                              | 61                 | 0              | 0            | 4                   | 1                   |
|                           | ST. CLOUD     | 73                 | 53                 | 82              | 49             | 63      | -3                       | 0.38                 | -0.69                    | 0.29                        | 1.41                     | 39                         | 11.71                     | 101                        | 97                              | 44                 | 0              | 0            | 3                   | 0                   |
|                           | JACKSON       | 87                 | 73                 | 90              | 71             | 80      | 1                        | 3.51                 | 2.64                     | 1.55                        | 8.08                     | 277                        | 39.57                     | 133                        | 93                              | 70                 | 2              | 0            | 6                   | 3                   |
| MO                        | MERIDIAN      | 87                 | 74                 | 92              | 72             | 81      | 2                        | 5.44                 | 4.53                     | 2.60                        | 9.96                     | 336                        | 38.60                     | 122                        | 95                              | 82                 | 2              | 0            | 7                   | 3                   |
|                           | TUPELO        | 85                 | 71                 | 89              | 67             | 78      | 0                        | 1.97                 | 0.91                     | 1.22                        | 8.37                     | 209                        | 30.13                     | 98                         | 90                              | 68                 | 0              | 0            | 3                   | 2                   |
|                           | COLUMBIA      | 84                 | 64                 | 90              | 59             | 74      | 0                        | 0.09                 | -0.81                    | 0.07                        | 2.84                     | 87                         | 23.04                     | 119                        | 93                              | 47                 | 1              | 0            | 3                   | 0                   |
|                           | KANSAS CITY   | 85                 | 64                 | 91              | 57             | 74      | -1                       | 0.08                 | -0.91                    | 0.08                        | 2.92                     | 82                         | 19.19                     | 111                        | 90                              | 44                 | 2              | 0            | 1                   | 0                   |
| MT                        | SAINT LOUIS   | 88                 | 70                 | 97              | 64             | 79      | 2                        | 1.06                 | 0.21                     | 1.06                        | 2.02                     | 69                         | 24.91                     | 133                        | 75                              | 44                 | 2              | 0            | 1                   | 1                   |
|                           | SPRINGFIELD   | 83                 | 62                 | 90              | 57             | 73      | -1                       | 2.01                 | 0.83                     | 1.91                        | 3.42                     | 86                         | 32.12                     | 152                        | 93                              | 60                 | 1              | 0            | 2                   | 1                   |
|                           | BILLINGS      | 80                 | 54                 | 93              | 46             | 67      | 1                        | 0.16                 | -0.24                    | 0.16                        | 1.95                     | 125                        | 10.88                     | 131                        | 69                              | 24                 | 1              | 0            | 1                   | 0                   |
|                           | BUTTE         | 75                 | 43                 | 86              | 34             | 59      | 2                        | 0.06                 | -0.40                    | 0.04                        | 2.16                     | 127                        | 7.49                      | 114                        | 75                              | 23                 | 0              | 0            | 2                   | 0                   |
| NE                        | CUT BANK      | 71                 | 44                 | 80              | 39             | 58      | 0                        | 0.01                 | -0.54                    | 0.01                        | 2.47                     | 120                        | 7.34                      | 115                        | 86                              | 31                 | 0              | 0            | 1                   | 0                   |
|                           | GLASGOW       | 78                 | 48                 | 87              | 40             | 63      | -2                       | 0.06                 | -0.44                    | 0.05                        | 0.27                     | 16                         | 2.88                      | 55                         | 72                              | 27                 | 0              | 0            | 2                   | 0                   |
|                           | GREAT FALLS   | 75                 | 47                 | 87              | 37             | 61      | 0                        | 0.00                 | -0.48                    | 0.00                        | 2.09                     | 110                        | 9.51                      | 118                        | 79                              | 27                 | 0              | 0            | 0                   | 0                   |
|                           | HAVRE         | 78                 | 46                 | 90              | 37             | 62      | -2                       | 0.00                 | -0.42                    | 0.00                        | 0.54                     | 35                         | 3.07                      | 53                         | 75                              | 29                 | 1              | 0            | 0                   | 0                   |
| NV                        | MISSOULA      | 79                 | 49                 | 87              | 40             | 64      | 3                        | 0.04                 | -0.33                    | 0.04                        | 1.63                     | 113                        | 9.70                      | 133                        | 78                              | 39                 | 0              | 0            | 1                   | 0                   |
|                           | GRAND ISLAND  | 87                 | 58                 | 97              | 47             | 73      | 1                        | 0.01                 | -0.81                    | 0.01                        | 1.64                     | 54                         | 11.89                     | 91                         | 76                              | 36                 | 3              | 0            | 1                   | 0                   |
|                           | LINCOLN       | 88                 | 60                 | 96              | 47             | 74      | 0                        | 0.00                 | -0.77                    | 0.00                        | 4.76                     | 166                        | 17.87                     | 132                        | 78                              | 38                 | 3              | 0            | 0                   | 0                   |
|                           | NORFOLK       | 84                 | 56                 | 95              | 45             | 70      | -1                       | 0.00                 | -0.98                    | 0.00                        | 1.56                     | 46                         | 13.17                     | 100                        | 71                              | 36                 | 1              | 0            | 0                   | 0                   |
| NH                        | NORTH PLATTE  | 90                 | 53                 | 107             | 45             | 71      | 1                        | 0.00                 | -0.72                    | 0.00                        | 0.01                     | 0                          | 10.34                     | 104                        | 82                              | 25                 | 3              | 0            | 0                   | 0                   |
|                           | OMAHA         | 87                 | 62                 | 97              | 52             | 75      | 2                        | 0.00                 | -0.88                    | 0.00                        | 1.90                     | 60                         | 13.41                     | 94                         | 72                              | 40                 | 3              | 0            | 0                   | 0                   |
|                           | SCOTTSBLUFF   | 85                 | 54                 | 98              | 48             | 70      | 2                        | 0.00                 | -0.61                    | 0.00                        | 0.07                     | 3                          | 8.85                      | 100                        | 67                              | 34                 | 2              | 0            | 0                   | 0                   |
|                           | VALENTINE     | 86                 | 50                 | 100             | 39             | 68      | -1                       | 0.00                 | -0.68                    | 0.00                        | 0.24                     | 10                         | 10.68                     | 114                        | 69                              | 28                 | 2              | 0            | 0                   | 0                   |
| NJ                        | ELY           | 93                 | 47                 | 97              | 41             | 70      | 9                        | 0.00                 | -0.11                    | 0.00                        | 0.02                     | 3                          | 6.20                      | 117                        | 54                              | 19                 | 7              | 0            | 0                   | 0                   |
|                           | LAS VEGAS     | 114                | 87                 | 117             | 86             | 101     | 14                       | 0.00                 | 0.00                     | 0.00                        | 0.00                     | 0                          | 1.59                      | 70                         | 12                              | 11                 | 7              | 0            | 0                   | 0                   |
|                           | RENO          | 99                 | 66                 | 104             | 63             | 82      | 16                       | 0.00                 | -0.08                    | 0.00                        | 0.12                     | 32                         | 11.27                     | 261                        | 43                              | 19                 | 7              | 0            | 0                   | 0                   |
|                           | WINNEMUCCA    | 95                 | 57                 | 103             | 47             | 76      | 11                       | 0.00                 | -0.13                    | 0.00                        | 1.23                     | 208                        | 6.47                      | 135                        | 59                              | 20                 | 6              | 0            | 0                   | 0                   |
| NM                        | CONCORD       | 85                 | 62                 | 88              | 51             | 73      | 7                        | 0.62                 | -0.08                    | 0.54                        | 3.64                     | 150                        | 22.99                     | 134                        | 95                              | 48                 | 0              | 0            | 3                   | 1                   |
|                           | NEWARK        | 88                 | 69                 | 91              | 65             | 78      | 5                        | 3.50                 | 2.75                     | 1.53                        | 5.14                     | 195                        | 27.67                     | 125                        | 88                              | 53                 | 1              | 0            | 3                   | 3                   |
| NY                        | ALBUQUERQUE   | 99                 | 71                 | 103             | 67             | 85      | 9                        | 0.00                 | -0.14                    | 0.00                        | 0.00                     | 0                          | 2.61                      | 84                         | 45                              | 15                 | 7              | 0            | 0                   | 0                   |
|                           | ALBANY        | 83                 | 63                 | 89              | 53             | 73      | 6                        | 1.54                 | 0.68                     | 1.12                        | 4.06                     | 135                        | 22.97                     | 130                        | 87                              | 49                 | 0              | 0            | 4                   | 1                   |
| NC                        | BINGHAMTON    | 75                 | 62                 | 83              | 57             | 68      | 3                        | 1.04                 | 0.15                     | 0.91                        | 3.87                     | 131                        | 28.31                     | 157                        | 87                              | 66                 | 0              | 0            | 3                   | 1                   |
|                           | BUFFALO       | 77                 | 63                 | 86              | 56             | 70      | 3                        | 1.06                 | 0.17                     | 0.77                        | 1.46                     | 48                         | 23.73                     | 132                        | 88                              | 58                 | 0              | 0            | 4                   | 1                   |
|                           | ROCHESTER     | 80                 | 62                 | 90              | 55             | 71      | 4                        | 1.08                 | 0.28                     | 0.48                        | 2.91                     | 110                        | 22.89                     | 151                        | 89                              | 57                 | 1              | 0            | 5                   | 0                   |
|                           | SYRACUSE      | 78                 | 61                 | 90              | 53             | 70      | 3                        | 1.32                 | 0.44                     | 0.68                        | 3.44                     | 123                        | 25.27                     | 146                        | 97                              | 58                 | 1              | 0            | 6                   | 1                   |
| ND                        | ASHEVILLE     | 80                 | 66                 | 86              | 62             | 73      | 3                        | 1.19                 | 0.21                     | 0.46                        | 2.26                     | 63                         | 25.28                     | 105                        | 88                              | 60                 | 0              | 0            | 6                   | 0                   |
|                           | CHARLOTTE     | 86                 | 70                 | 91              | 65             | 78      | 1                        | 1.97                 | 1.21                     | 0.55                        | 3.97                     | 145                        | 24.89                     | 117                        | 90                              | 60                 | 2              | 0            | 7                   | 1                   |
|                           | GREENSBORO    | 85                 | 70                 | 88              | 68             | 77      | 3                        | 3.73                 | 2.93                     | 2.51                        | 9.81                     | 363                        | 30.83                     | 150                        | 100                             | 62                 | 0              | 0            | 4                   | 3                   |
|                           | HATTERAS      | 84                 | 76                 | 86              | 73             | 80      | 4                        | 1.16                 | 0.32                     | 0.60                        | 2.32                     | 76                         | 28.49                     | 114                        | 89                              | 74                 | 0              | 0            | 5                   | 1                   |
| OH                        | RALEIGH       | 88                 | 70                 | 92              | 66             | 79      | 3                        | 1.68                 | 0.92                     | 0.68                        | 6.11                     | 231                        | 27.98                     | 135                        | 95                              | 67                 | 4              | 0            | 6                   | 1                   |
|                           | WILMINGTON    | 88                 | 75                 | 93              | 72             | 82      | 4                        | 1.73                 | 0.47                     | 0.71                        | 3.41                     | 86                         | 23.90                     | 101                        | 98                              | 65                 | 1              | 0            | 4                   | 2                   |
|                           | BISMARCK      | 77                 | 52                 | 91              | 47             | 64      | -2                       | 0.00                 | -0.61                    | 0.00                        | 1.20                     | 60                         | 5.73                      | 76                         | 77                              | 38                 | 1              | 0            | 0                   | 0                   |
|                           | DICKINSON     | 74                 | 45                 | 84              | 40             | 60      | -4                       | 0.00                 | -0.80                    | 0.00                        | 0.58                     | 22                         | 4.28                      | 53                         | 84                              | 22                 | 0              | 0            | 0                   | 0                   |
| OH                        | FARGO         | 74                 | 53                 | 87              | 46             | 63      | -4                       | 0.04                 | -0.78                    | 0.04                        | 1.94                     | 70                         | 6.75                      | 73                         | 85                              | 45                 | 0              | 0            | 1                   | 0                   |
|                           | GRAND FORKS   | 73                 | 51                 | 86              | 47             | 62      | -4                       | 0.23                 |                          |                             |                          |                            |                           |                            |                                 |                    |                |              |                     |                     |

## Weather Data for the Week Ending June 24, 2017

| STATES<br>AND<br>STATIONS |                | TEMPERATURE °F     |                    |                 |                |         |                          | PRECIPITATION        |                          |                             |                           |                            |                           |                            |                    | RELATIVE<br>HUMIDITY<br>PERCENT |              | NUMBER OF DAYS |                     |                     |  |
|---------------------------|----------------|--------------------|--------------------|-----------------|----------------|---------|--------------------------|----------------------|--------------------------|-----------------------------|---------------------------|----------------------------|---------------------------|----------------------------|--------------------|---------------------------------|--------------|----------------|---------------------|---------------------|--|
|                           |                | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM | EXTREME<br>HIGH | EXTREME<br>LOW | AVERAGE | DEPARTURE<br>FROM NORMAL | WEEKLY<br>TOTAL, IN. | DEPARTURE<br>FROM NORMAL | GREATEST IN<br>24-HOUR, IN. | TOTAL IN.,<br>SINCE JUN 1 | PCT. NORMAL<br>SINCE JUN 1 | TOTAL IN.,<br>SINCE JAN01 | PCT. NORMAL<br>SINCE JAN01 | AVERAGE<br>MAXIMUM | AVERAGE<br>MINIMUM              | TEMP. °F     |                | PRECIP.             |                     |  |
|                           |                |                    |                    |                 |                |         |                          |                      |                          |                             |                           |                            |                           |                            |                    |                                 | 90 AND ABOVE | 32 AND BELOW   | .01 INCH<br>OR MORE | .50 INCH<br>OR MORE |  |
| OK                        | TOLEDO         | 81                 | 59                 | 88              | 56             | 70      | 0                        | 1.08                 | 0.18                     | 0.69                        | 1.54                      | 51                         | 19.40                     | 123                        | 89                 | 57                              | 0            | 0              | 5                   | 1                   |  |
|                           | YOUNGSTOWN     | 79                 | 59                 | 85              | 55             | 69      | 2                        | 3.68                 | 2.75                     | 2.03                        | 3.95                      | 134                        | 25.25                     | 147                        | 90                 | 61                              | 0            | 0              | 5                   | 2                   |  |
|                           | OKLAHOMA CITY  | 89                 | 65                 | 94              | 59             | 77      | -1                       | 0.00                 | -1.01                    | 0.00                        | 0.11                      | 3                          | 14.68                     | 81                         | 86                 | 36                              | 5            | 0              | 0                   | 0                   |  |
| OR                        | TULSA          | 88                 | 67                 | 92              | 63             | 77      | -2                       | 0.24                 | -0.78                    | 0.24                        | 1.16                      | 29                         | 25.08                     | 118                        | 88                 | 59                              | 2            | 0              | 1                   | 0                   |  |
|                           | ASTORIA        | 73                 | 53                 | 93              | 45             | 63      | 6                        | 0.14                 | -0.43                    | 0.12                        | 2.48                      | 116                        | 49.61                     | 141                        | 85                 | 66                              | 1            | 0              | 2                   | 0                   |  |
|                           | BURNS          | 87                 | 44                 | 95              | 34             | 66      | 7                        | 0.06                 | -0.06                    | 0.06                        | 0.10                      | 18                         | 8.33                      | 139                        | 72                 | 28                              | 2            | 0              | 1                   | 0                   |  |
| PA                        | EUGENE         | 85                 | 50                 | 96              | 48             | 68      | 7                        | 0.00                 | -0.31                    | 0.00                        | 1.38                      | 104                        | 25.45                     | 93                         | 90                 | 56                              | 1            | 0              | 0                   | 0                   |  |
|                           | MEDFORD        | 97                 | 61                 | 107             | 56             | 79      | 12                       | 0.00                 | -0.13                    | 0.00                        | 0.37                      | 65                         | 12.94                     | 136                        | 72                 | 25                              | 6            | 0              | 0                   | 0                   |  |
|                           | PENDLETON      | 86                 | 54                 | 93              | 43             | 70      | 4                        | 0.00                 | -0.15                    | 0.00                        | 1.05                      | 159                        | 10.19                     | 147                        | 71                 | 33                              | 2            | 0              | 0                   | 0                   |  |
|                           | PORTLAND       | 85                 | 57                 | 98              | 51             | 71      | 8                        | 0.00                 | -0.33                    | 0.00                        | 1.08                      | 80                         | 29.26                     | 151                        | 76                 | 54                              | 2            | 0              | 0                   | 0                   |  |
|                           | SALEM          | 85                 | 60                 | 101             | 48             | 73      | 11                       | 0.00                 | -0.31                    | 0.00                        | 0.70                      | 58                         | 33.26                     | 157                        | 63                 | 41                              | 2            | 0              | 0                   | 0                   |  |
|                           | ALLENTOWN      | 86                 | 66                 | 90              | 59             | 76      | 7                        | 2.78                 | 1.89                     | 1.13                        | 4.74                      | 149                        | 22.32                     | 107                        | 85                 | 53                              | 1            | 0              | 3                   | 3                   |  |
|                           | ERIE           | 77                 | 61                 | 86              | 56             | 69      | 1                        | 5.27                 | 4.25                     | 3.58                        | 7.31                      | 216                        | 28.30                     | 157                        | 87                 | 67                              | 0            | 0              | 6                   | 2                   |  |
|                           | MIDDLETOWN     | 88                 | 69                 | 92              | 62             | 78      | 6                        | 2.88                 | 2.01                     | 1.34                        | 3.02                      | 98                         | 19.46                     | 99                         | 92                 | 48                              | 1            | 0              | 5                   | 2                   |  |
|                           | PHILADELPHIA   | 89                 | 72                 | 90              | 69             | 80      | 7                        | 1.26                 | 0.52                     | 0.67                        | 1.61                      | 64                         | 19.56                     | 98                         | 84                 | 48                              | 2            | 0              | 4                   | 2                   |  |
|                           | PITTSBURGH     | 81                 | 64                 | 88              | 58             | 72      | 3                        | 2.29                 | 1.33                     | 0.81                        | 3.20                      | 99                         | 23.21                     | 127                        | 92                 | 57                              | 0            | 0              | 5                   | 3                   |  |
| RI                        | WILKES-BARRE   | 84                 | 62                 | 87              | 55             | 73      | 5                        | 1.10                 | 0.17                     | 0.39                        | 3.31                      | 108                        | 21.94                     | 127                        | 91                 | 55                              | 0            | 0              | 4                   | 0                   |  |
|                           | WILLIAMSPORT   | 85                 | 63                 | 89              | 57             | 74      | 5                        | 1.87                 | 0.81                     | 1.40                        | 3.58                      | 104                        | 22.90                     | 118                        | 92                 | 59                              | 0            | 0              | 4                   | 1                   |  |
|                           | PROVIDENCE     | 84                 | 65                 | 87              | 60             | 74      | 5                        | 0.79                 | 0.02                     | 0.66                        | 4.06                      | 150                        | 29.08                     | 128                        | 94                 | 60                              | 0            | 0              | 4                   | 1                   |  |
| SC                        | BEAUFORT       | 89                 | 76                 | 94              | 74             | 83      | 4                        | 0.35                 | -1.06                    | 0.19                        | 2.34                      | 53                         | 19.14                     | 90                         | 96                 | 65                              | 5            | 0              | 3                   | 0                   |  |
|                           | CHARLESTON     | 88                 | 75                 | 93              | 73             | 82      | 3                        | 0.68                 | -0.75                    | 0.46                        | 4.01                      | 88                         | 19.17                     | 87                         | 92                 | 65                              | 3            | 0              | 3                   | 0                   |  |
|                           | COLUMBIA       | 90                 | 74                 | 95              | 72             | 82      | 3                        | 0.70                 | -0.50                    | 0.29                        | 4.28                      | 113                        | 28.56                     | 124                        | 87                 | 61                              | 4            | 0              | 3                   | 0                   |  |
| SD                        | GREENVILLE     | 84                 | 69                 | 88              | 67             | 77      | 2                        | 1.48                 | 0.63                     | 0.58                        | 2.90                      | 93                         | 28.27                     | 112                        | 95                 | 61                              | 0            | 0              | 5                   | 1                   |  |
|                           | ABERDEEN       | 77                 | 50                 | 91              | 39             | 64      | -4                       | 0.10                 | -0.72                    | 0.04                        | 3.81                      | 138                        | 7.69                      | 80                         | 83                 | 47                              | 1            | 0              | 4                   | 0                   |  |
|                           | HURON          | 78                 | 52                 | 87              | 44             | 65      | -4                       | 0.83                 | 0.07                     | 0.83                        | 2.96                      | 114                        | 8.65                      | 82                         | 89                 | 42                              | 0            | 0              | 1                   | 1                   |  |
| TN                        | RAPID CITY     | 81                 | 49                 | 94              | 43             | 65      | -1                       | 0.00                 | -0.63                    | 0.00                        | 1.38                      | 59                         | 6.31                      | 70                         | 67                 | 26                              | 2            | 0              | 0                   | 0                   |  |
|                           | SIOUX FALLS    | 77                 | 54                 | 87              | 44             | 66      | -3                       | 0.36                 | -0.43                    | 0.36                        | 1.93                      | 69                         | 10.76                     | 92                         | 80                 | 58                              | 0            | 0              | 1                   | 0                   |  |
|                           | BRISTOL        | 84                 | 64                 | 89              | 60             | 74      | 3                        | 0.94                 | 0.06                     | 0.44                        | 2.04                      | 67                         | 25.64                     | 120                        | 98                 | 54                              | 0            | 0              | 5                   | 0                   |  |
| TX                        | CHATTANOOGA    | 85                 | 70                 | 89              | 68             | 78      | 2                        | 1.54                 | 0.63                     | 1.23                        | 3.09                      | 101                        | 31.94                     | 114                        | 90                 | 63                              | 0            | 0              | 4                   | 1                   |  |
|                           | KNOXVILLE      | 83                 | 68                 | 88              | 62             | 76      | 1                        | 1.12                 | 0.21                     | 0.43                        | 4.06                      | 130                        | 28.79                     | 113                        | 94                 | 56                              | 0            | 0              | 4                   | 0                   |  |
|                           | MEMPHIS        | 88                 | 71                 | 92              | 69             | 80      | 0                        | 2.14                 | 1.15                     | 1.63                        | 4.52                      | 135                        | 23.36                     | 82                         | 91                 | 58                              | 2            | 0              | 4                   | 1                   |  |
|                           | NASHVILLE      | 87                 | 69                 | 90              | 63             | 78      | 2                        | 2.38                 | 1.49                     | 1.30                        | 3.98                      | 119                        | 24.24                     | 97                         | 89                 | 53                              | 2            | 0              | 3                   | 2                   |  |
|                           | ABILENE        | 94                 | 69                 | 103             | 63             | 82      | 1                        | 0.39                 | -0.29                    | 0.39                        | 1.67                      | 64                         | 9.54                      | 90                         | 89                 | 54                              | 6            | 0              | 1                   | 0                   |  |
|                           | AMARILLO       | 90                 | 63                 | 101             | 55             | 77      | 2                        | 0.45                 | -0.31                    | 0.45                        | 0.80                      | 30                         | 8.95                      | 102                        | 82                 | 34                              | 4            | 0              | 1                   | 0                   |  |
|                           | AUSTIN         | 95                 | 75                 | 102             | 73             | 85      | 3                        | 0.06                 | -0.74                    | 0.06                        | 2.00                      | 59                         | 16.78                     | 99                         | 84                 | 53                              | 6            | 0              | 1                   | 0                   |  |
|                           | BEAUMONT       | 88                 | 76                 | 92              | 73             | 82      | 1                        | 0.32                 | -1.21                    | 0.31                        | 5.11                      | 97                         | 22.67                     | 82                         | 92                 | 67                              | 5            | 0              | 2                   | 0                   |  |
|                           | BROWNSVILLE    | 97                 | 78                 | 102             | 75             | 87      | 4                        | 0.00                 | -0.69                    | 0.00                        | 0.00                      | 0                          | 5.86                      | 57                         | 91                 | 50                              | 7            | 0              | 0                   | 0                   |  |
|                           | CORPUS CHRISTI | 97                 | 77                 | 102             | 73             | 87      | 5                        | 0.00                 | -0.79                    | 0.00                        | 0.90                      | 30                         | 14.16                     | 103                        | 90                 | 54                              | 7            | 0              | 0                   | 0                   |  |
| UT                        | DEL RIO        | 99                 | 73                 | 105             | 69             | 86      | 3                        | 0.03                 | -0.52                    | 0.03                        | 1.77                      | 97                         | 12.86                     | 154                        | 80                 | 50                              | 7            | 0              | 1                   | 0                   |  |
|                           | EL PASO        | 104                | 76                 | 111             | 70             | 90      | 7                        | 0.11                 | -0.10                    | 0.11                        | 0.27                      | 48                         | 1.64                      | 72                         | 50                 | 15                              | 7            | 0              | 1                   | 0                   |  |
|                           | FORT WORTH     | 93                 | 75                 | 100             | 70             | 84      | 2                        | 3.56                 | 2.91                     | 3.27                        | 7.33                      | 253                        | 19.18                     | 103                        | 88                 | 50                              | 6            | 0              | 3                   | 1                   |  |
|                           | GALVESTON      | 87                 | 79                 | 92              | 76             | 83      | 0                        | 1.45                 | 0.52                     | 0.77                        | 5.15                      | 160                        | 16.03                     | 85                         | 95                 | 71                              | 2            | 0              | 2                   | 2                   |  |
|                           | HOUSTON        | 93                 | 77                 | 96              | 74             | 85      | 3                        | 1.93                 | 0.71                     | 1.64                        | 5.26                      | 117                        | 23.49                     | 101                        | 90                 | 61                              | 5            | 0              | 3                   | 1                   |  |
|                           | LUBBOCK        | 93                 | 68                 | 99              | 62             | 81      | 3                        | 0.20                 | -0.50                    | 0.20                        | 0.78                      | 33                         | 6.27                      | 79                         | 74                 | 44                              | 5            | 0              | 1                   | 0                   |  |
|                           | MIDLAND        | 99                 | 74                 | 108             | 69             | 87      | 7                        | 0.05                 | -0.34                    | 0.04                        | 1.60                      | 120                        | 7.32                      | 136                        | 64                 | 35                              | 7            | 0              | 2                   | 0                   |  |
|                           | SAN ANGELO     | 102                | 73                 | 109             | 66             | 87      | 7                        | 0.00                 | -0.54                    | 0.00                        | 0.21                      | 10                         | 6.69                      | 68                         | 66                 | 36                              | 7            | 0              | 0                   | 0                   |  |
|                           | SAN ANTONIO    | 96                 | 75                 | 101             | 71             | 86      | 4                        | 0.00                 | -0.94                    | 0.00                        | 0.29                      | 8                          | 13.35                     | 82                         | 81                 | 38                              | 6            | 0              | 0                   | 0                   |  |
|                           | VICTORIA       | 97                 | 76                 | 102             | 73             | 86      | 4                        | 0.76                 | -0.36                    | 0.76                        | 1.09                      | 26                         | 20.67                     | 109                        | 90                 | 52                              | 6            | 0              | 1                   | 1                   |  |
| VA                        | WACO           | 92                 | 73                 | 100             | 69             | 83      | 1                        | 0.41                 | -0.24                    | 0.32                        | 1.50                      | 57                         | 20.81                     | 123                        | 93                 | 69                              | 5            | 0              | 2                   | 0                   |  |
|                           | WICHITA FALLS  | 90                 | 68                 | 100             | 63             | 79      | -2                       | 0.68                 | -0.13                    | 0.68                        | 2.43                      | 76                         | 12.74                     | 87                         | 88                 | 58                              | 5            | 0              | 1                   | 1                   |  |
|                           | SALT LAKE CITY | 92                 | 65                 | 101             | 59             | 78      | 8                        | 0.00                 | -0.12                    | 0.00                        | 0.25                      | 36                         | 11.25                     | 120                        | 47                 | 17                              | 3            | 0              | 0                   | 0                   |  |
| WV                        | BURLINGTON     | 82                 | 63                 | 89              | 56             | 73      | 6                        | 3.01                 | 2.22                     | 1.45                        | 4.71                      | 179                        | 21.39                     | 142                        | 92                 | 55                              | 0            | 0              | 5                   | 2                   |  |
|                           | LYNCHBURG      | 85                 | 66                 | 88              | 61             | 76      | 4                        | 0.83                 | -0.04                    | 0.44                        | 2.12                      | 72                         | 21.21                     | 101                        | 93                 | 60                              | 0            | 0              | 4                   | 0                   |  |
|                           | NORFOLK        | 90                 | 74                 | 93              | 69             | 82      | 7                        | 0.91                 | 0.04                     | 0.44                        | 3.27                      | 118                        | 25.09                     | 118                        | 90                 | 55                              | 5            | 0              | 4                   | 0                   |  |
| WA                        | RICHMOND       | 88                 | 70                 | 90              | 67             | 79      | 4                        | 0.87                 | 0.08                     | 0.70                        | 2.33                      | 85                         | 20.86                     | 102                        | 91                 | 62                              | 3            | 0              | 5                   | 1                   |  |
|                           | ROANOKE        | 86                 | 67                 | 87              | 64             | 76      | 3                        | 0.41                 | -0.42                    | 0.30                        | 4.46                      | 153                        | 25.48                     | 122                        | 85                 | 54                              | 0            | 0              | 4                   | 0                   |  |
|                           | WASH/DULLES    | 87                 | 67                 | 91              | 63             | 77      | 5                        | 1.04                 | 0.13                     | 0.62                        | 1.15                      | 35                         | 20.23                     | 101                        | 86                 | 51                              | 1            | 0              | 3                   | 1                   |  |
| WY                        | OLYMPIA        | 78                 | 50                 | 92              | 44             | 64      | 5                        | 0.01                 | -0.39                    | 0.01                        | 1.36                      | 94                         | 34.31                     | 130                        | 94                 | 62                              | 1            | 0              | 1                   | 0                   |  |
|                           | QUILLAYUTE     | 71                 | 48                 | 92              | 43             | 60      | 5                        | 0.44                 | -0.31                    | 0.38                        | 4.30                      | 143                        | 66.90                     | 126                        | 97                 | 74                              | 1            | 0              | 2                   | 0                   |  |
|                           | SEATTLE-TACOMA | 76                 | 55                 | 89              | 50             | 66      | 5                        | 0.01                 | -0.32                    | 0.01                        | 1.57                      | 131                        | 28.43                     | 153                        | 83                 | 64                              | 0            | 0              | 1                   | 0                   |  |
| WV                        | SPOKANE        | 82                 | 57                 | 88              | 51             | 70      | 8                        | 0.00                 | -0.24                    | 0.00                        | 0.47                      | 48                         | 13.73                     | 157                        | 62                 | 23                              | 0            | 0              | 0                   | 0                   |  |
|                           | YAKIMA         | 90                 | 56                 | 96              | 50             | 73      | 9                        | 0.00                 | -0.13                    | 0.00                        | 0.19                      | 40                         | 7.61                      | 182                        | 64                 | 34                              | 3            | 0              | 0                   | 0                   |  |
|                           | BECKLEY        | 79                 | 62                 | 84              | 58             | 70      | 2                        | 1.30                 | 0.41                     | 0.67                        | 7.37                      | 244                        | 27.83                     | 135                        | 89                 | 59                              | 0            | 0              | 4                   | 1                   |  |
| WI                        | CHARLESTON     | 84                 | 64                 | 90              | 59             | 74      | 3                        | 2.98                 | 2.05                     | 1.56                        | 8.33                      | 262                        | 29.06                     | 138                        | 92                 | 49                              | 1            | 0              | 4                   | 2                   |  |
|                           | ELKINS         | 81                 | 60                 | 89              | 52             | 70      | 3                        | 2.85                 | 1.80                     | 1.54                        | 3.69                      | 101                        | 24.38                     | 108                        | 89                 | 60                              | 0            | 0              | 6                   | 2                   |  |
|                           | HUNTINGTON     | 85                 | 66                 | 91              | 61             | 75      | 3                        | 4.23                 | 3.38                     | 2.66                        | 4.85                      | 157                        | 24.86                     | 119                        | 92                 | 52                              | 1            | 0              | 5                   | 3                   |  |
| WY                        | EAU CLAIRE     | 72                 | 55                 | 78              | 48             | 64      | -4                       | 1.24                 | 0.25                     | 0.71                        | 4.80                      | 142                        | 19.28                     | 141                        | 96                 | 48                              | 0            | 0              | 5                   | 1                   |  |
|                           | GREEN BAY      | 75                 | 57                 | 78              | 52             | 66      | 0                        | 1.22                 | 0.42                     | 0.55                        | 3.07                      | 116                        | 16.17                     |                            |                    |                                 |              |                |                     |                     |  |



## Spring Weather Review

*Weather summary provided by USDA/WAOB*

**Highlights:** Active weather led to a net decrease in U.S. drought coverage, as widespread, frequent storm systems bypassed only a few areas, such as the northern Plains and the lower Southeast. However, an extended period of well-placed storms ended in late April, when too much rain in a short period of time across the mid-South and lower Midwest caused extensive planting delays and lowland flooding.

Other spring highlights included a variety of weather extremes. In March, for example, significant events included early-month wildfires on the central and southern Plains and mid-month freezes in the Southeast. The Southeastern freezes followed a mid-March Northeastern blizzard. Several weeks later, in late April, an historic, late-season snow storm on the central and southern High Plains flattened winter wheat and resulted in noteworthy livestock losses.

Meanwhile, an impressive Western snow-accumulation season finally peaked in April, following a final flurry of storms. The early part of the snow-melt season proceeded mostly in an orderly fashion, although periods of warm and/or wet weather led to localized lowland flooding. Lingering effects from the wet winter and early spring included planting and crop developmental delays, especially in California and the Northwest.

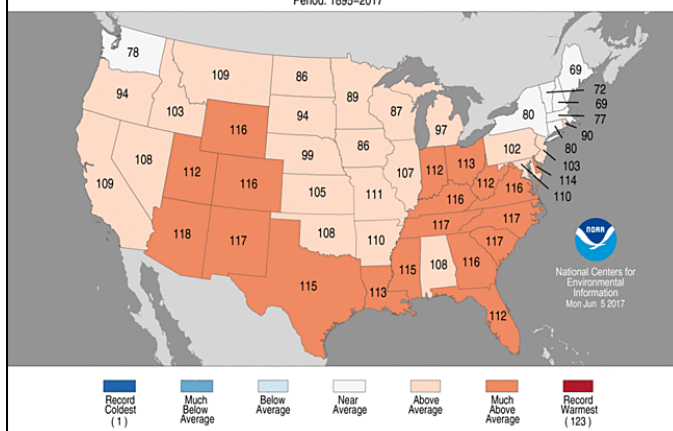
Drought covered just 4.52% of the country—a U.S. Drought Monitor-era record low—by May 23, down from a March peak of 15.97%. The record-low drought coverage occurred on the strength of late-spring rainfall in the Southeast, and in spite of emerging drought on the northern Plains.

**Historical Perspective:** According to preliminary information provided by the National Centers for Environmental Information, the contiguous U.S. experienced its eighth-warmest, eleventh-wettest spring during the 123-year period of record. The nation's spring average temperature of 53.5°F was 2.6°F above the 20th century mean, while precipitation averaged 9.39 inches—118% of normal. The spring temperature was at least 2°F above the 1901-2000 mean for the third year in a row and the eighth time in the last 18 years.

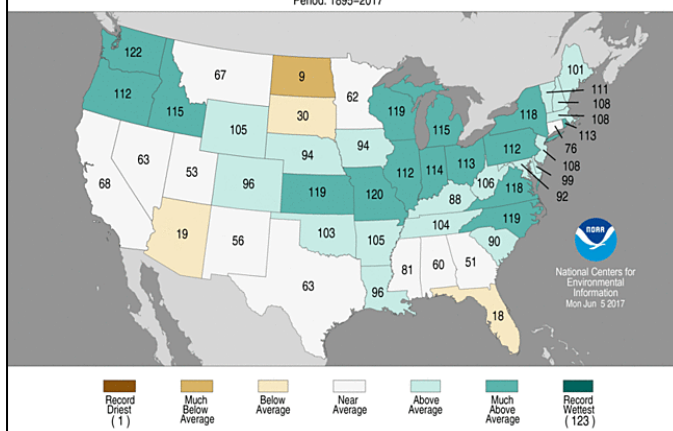
Temperatures across the entire country were in the warm half of the historical distribution (figure 1). It was among the ten warmest springs on record in Texas, Wyoming, and the Four Corners States, along with eight Southeastern and Mid-Atlantic States. Meanwhile, precipitation rankings ranged from the ninth-driest spring in North Dakota to the second-wettest spring in Washington (figure 2). Overall, spring dryness was largely limited to the northern Plains, Desert Southwest, and Florida, while wetness broadly covered the Northwest, central Plains, Midwest, and Mid-Atlantic. It was among the ten wettest springs in eleven states.

**March:** Early-March wildfires on the central and southern Plains and mid-month freezes in the Southeast highlighted an active weather pattern. The Southeastern cold snap, which

**Figure 1** Statewide Average Temperature Ranks  
March–May 2017  
Period: 1895–2017



**Figure 2** Statewide Precipitation Ranks  
March–May 2017  
Period: 1895–2017



caused extensive fruit (e.g. peach, blueberry) losses in Georgia, South Carolina, and portions of neighboring states, peaked from March 15-17, immediately in the wake of a Northeastern blizzard. From March 13-15, wind, rain, sleet, and snow caused extensive travel disruptions from the Mid-Atlantic States to New England.

In contrast, drier-than-normal March weather dominated the nation's southern tier, from southern California to the southern Atlantic States, except in parts of southern Texas. The dry weather promoted a rapid fieldwork pace, allowing planting of corn and other summer crops to quickly proceed. However, in areas experiencing drought, such as parts of the Southeast, dry weather, mid-month freezes, and periods of unusual warmth resulted in declining crop and pasture conditions.

Meanwhile, beneficial precipitation fell across the central and southern Plains, reviving rangeland, pastures, and winter wheat that had been experiencing drought stress. However, the rain arrived in the wake of wildfires that charred hundreds of thousands of acres of grassland, along with fences and other

farm infrastructure, in eastern Colorado, western Kansas, western Oklahoma, and northern Texas.

Similarly, increasingly showery weather in the central and eastern Corn Belt boosted soil moisture but ultimately slowed pre-planting fieldwork. However, most of the precipitation bypassed the upper Midwest.

Elsewhere, California experienced a break from heavy precipitation, as the primary storm track shifted across the Northwest. Late in the month, however, rain showers and high-elevation snow returned to northern California.

Persistently cold March weather was limited to the Northeast, although other parts of the northern and eastern U.S. experienced some sharp cold waves. In contrast, significantly above-normal temperatures stretched from the Southwest and Intermountain West to the central and southern Plains and the mid-South.

**April:** Unsettled April weather reduced drought coverage to a U.S. Drought Monitor-era record low, but culminated in a late-month storm that blasted the southern High Plains with heavy snow and high winds and triggered widespread flooding from the mid-South into the lower Midwest. Still, April rainfall generally benefited pastures and winter wheat, with the portion of the latter crop rated in good to excellent condition increasing from 51 to 54% between April 2 and 30.

The U.S. Drought Monitor showed just 4.98% of the country in drought on May 2, down from 15.97% on March 21. The previous record for the contiguous U.S. in the 18-year Drought Monitor history was 7.74% drought coverage on July 6, 2010. Ironically, worsening drought was noted during April across the lower Southeast, including southern Georgia and portions of Florida's peninsula, maintaining heavy agricultural irrigation demands.

Farther north and west, however, U.S. planting activities proceeded between rainfall events that, until month's end, were fairly well distributed both spatially and temporally. By April 30, planting progress was at or ahead of the respective 5-year averages for rice (73% complete), corn (34%), sorghum (27%), peanuts (12%), and soybeans (10%). U.S. cotton planting, 14% complete by April 30, was slightly behind schedule, but significant Northern planting delays were noted due to cool, damp conditions for crops such as sugarbeets (48% planted, 12 percentage points behind the 5-year average); barley (32% planted, 21 points behind); and spring wheat (31% planted, 15 points behind).

The late-month storm curtailed nearly all planting activities in a broad area from the central and southern Plains into the mid-South and lower Midwest. At risk from the powerful storm were livestock and winter wheat due to blizzard conditions and low temperatures on the High Plains, as well as recently planted and/or newly emerged summer crops (e.g. rice, corn, cotton, and soybeans) in flooded areas of the Mississippi Valley and environs.

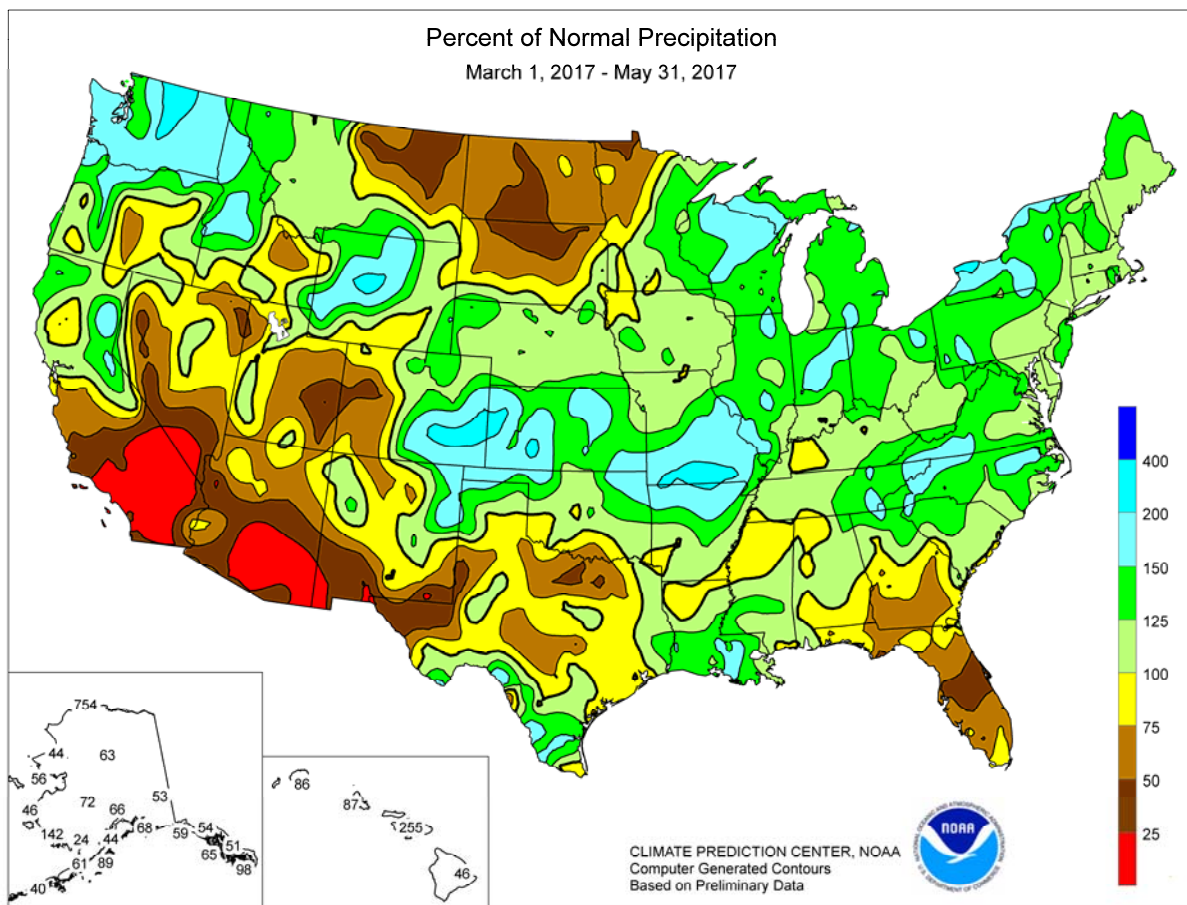
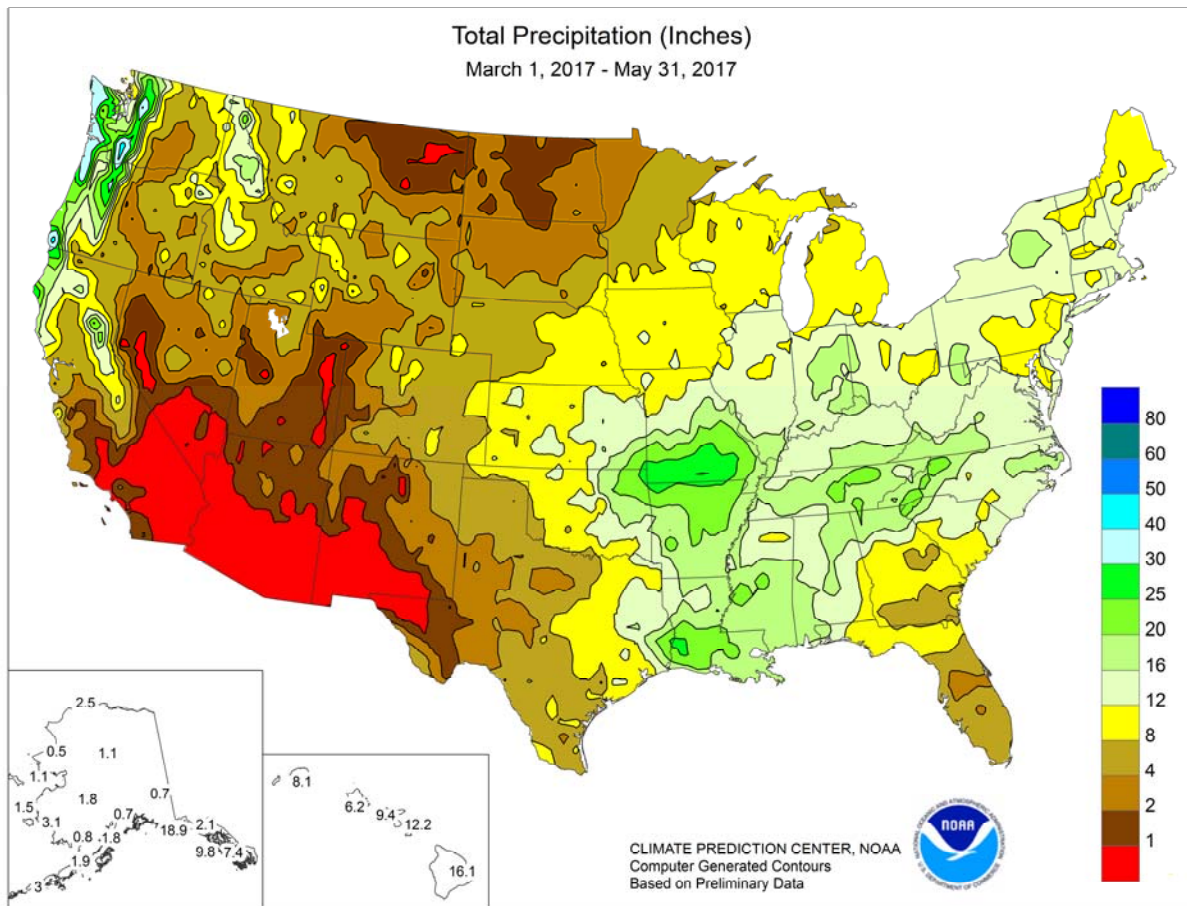
Near- to below-normal April temperatures dominated California, the northern Plains, and the Northwest, while warmer-than-normal weather covered the remainder of the country. April average temperatures approached or attained record-high levels east of the Mississippi River, promoting a rapid crop development pace. Still, lingering impacts from mid-March freezes were apparent in Southeastern crops such as Georgia blueberries (rated 79% very poor to poor on April 30) and South Carolina peaches (89% very poor to poor).

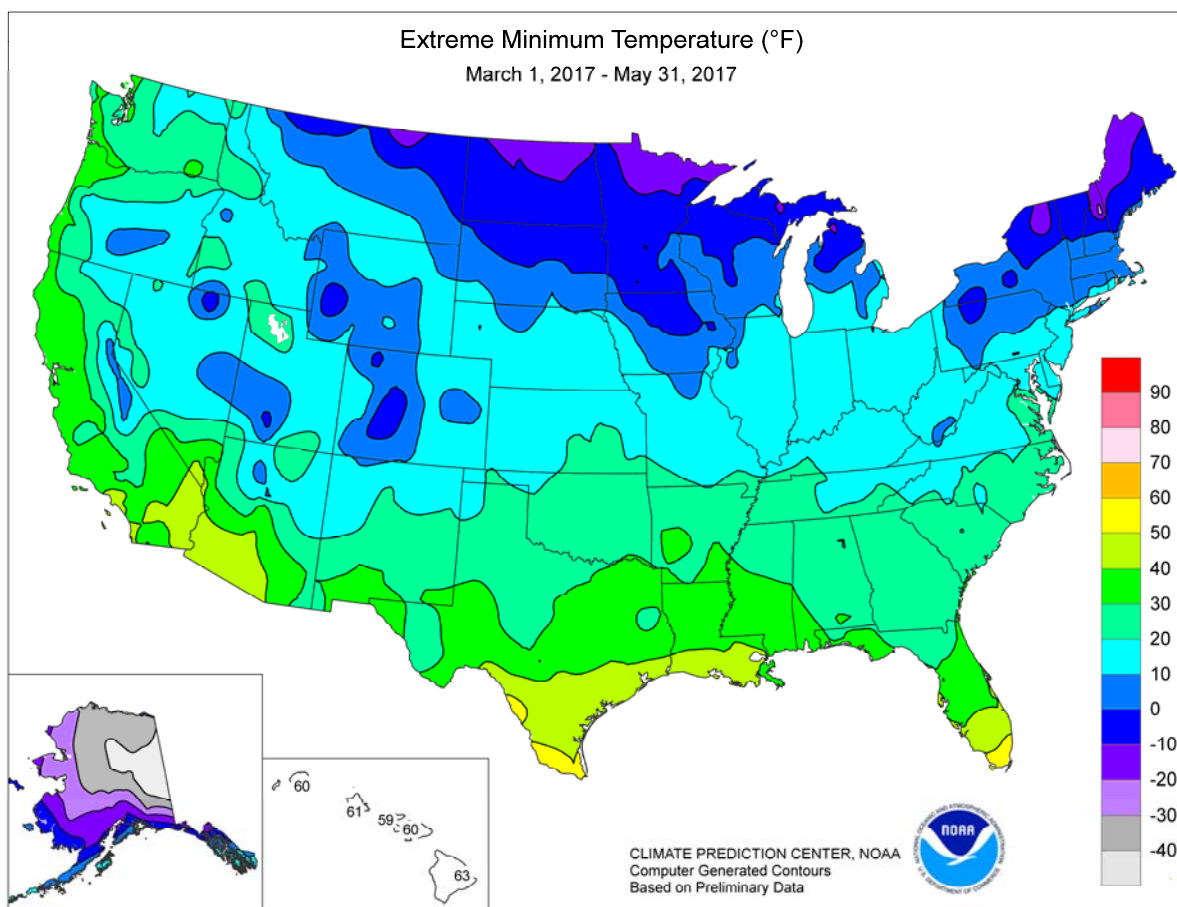
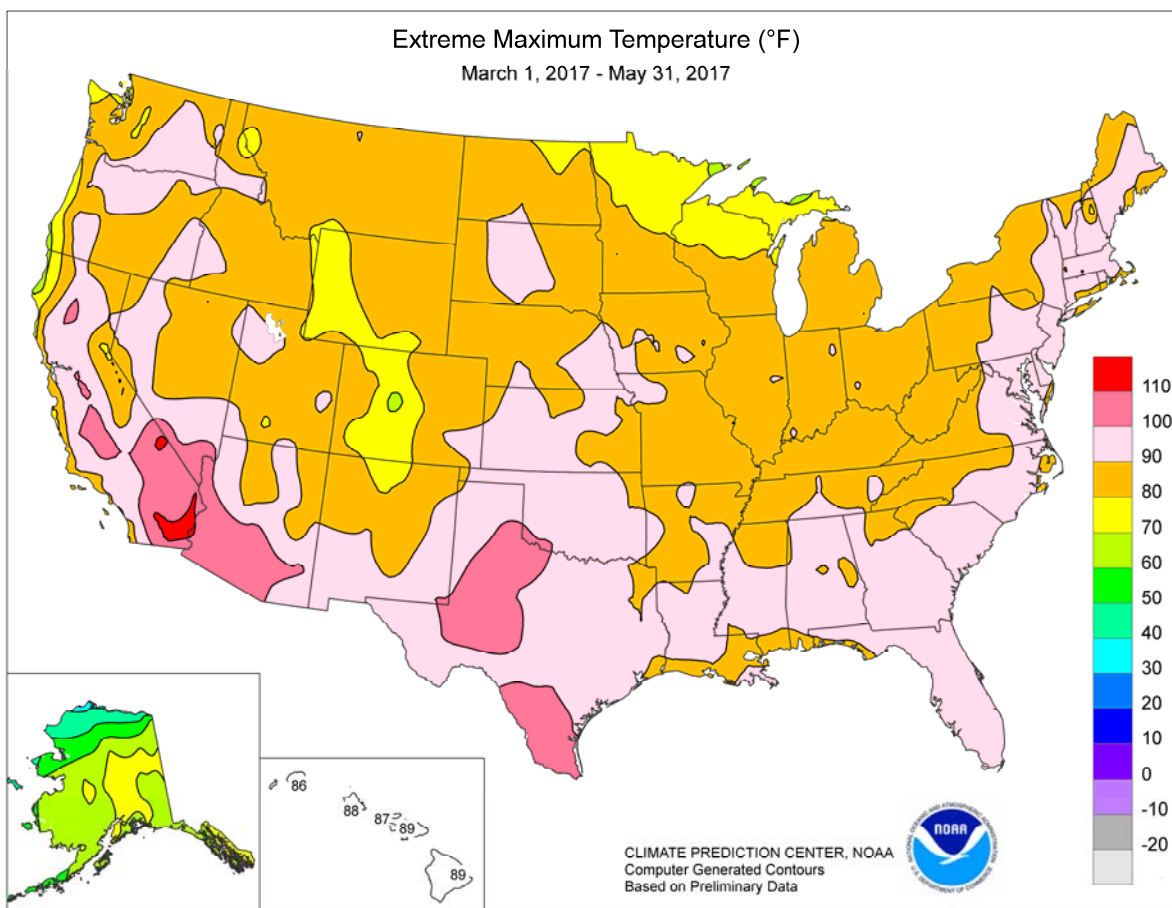
**May:** Abundant rainfall across the central Plains, as well as the Midwest, South, and East, periodically slowed fieldwork but kept pastures and summer crops well-watered. However, early-May river rises in the wake of late-April downpours led to extensive lowland flooding across the mid-South and lower Midwest, resulting in some submerged acreage and poor crop establishment. By June 4, at least one-tenth of the corn was rated in very poor to poor condition in Indiana (17%), Illinois (11%), and Ohio (10%). Similarly, 14% of Arkansas' rice crop was rated very poor to poor on June 4, a residual effect of earlier flooding.

In stark contrast, mostly dry weather on the northern Plains—accompanied by late-month heat—led to worsening crop and pasture conditions. By June 4, more than one-third of the rangeland and pastures were rated in very poor to poor condition in South Dakota (40%) and North Dakota (35%). On the same date, nearly one-third (32%) of South Dakota's spring wheat was rated very poor to poor. And, during the 2-week period from May 21 – June 4, the portion of South Dakota's winter wheat rated very poor to poor surged from 11 to 38%. Prior to the arrival of hot weather across the northern Plains, generally cool conditions were accompanied by several episodes of patchy frost and sub-freezing temperatures.

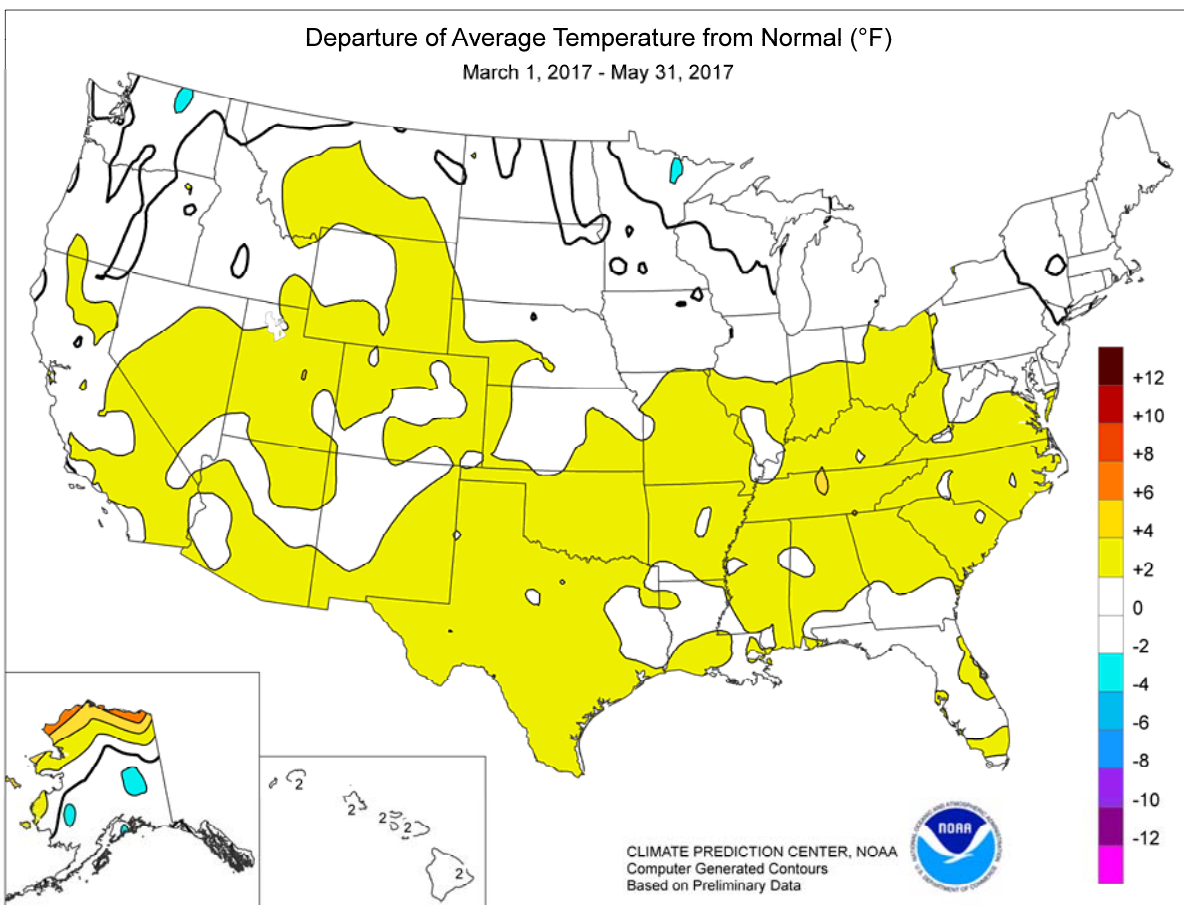
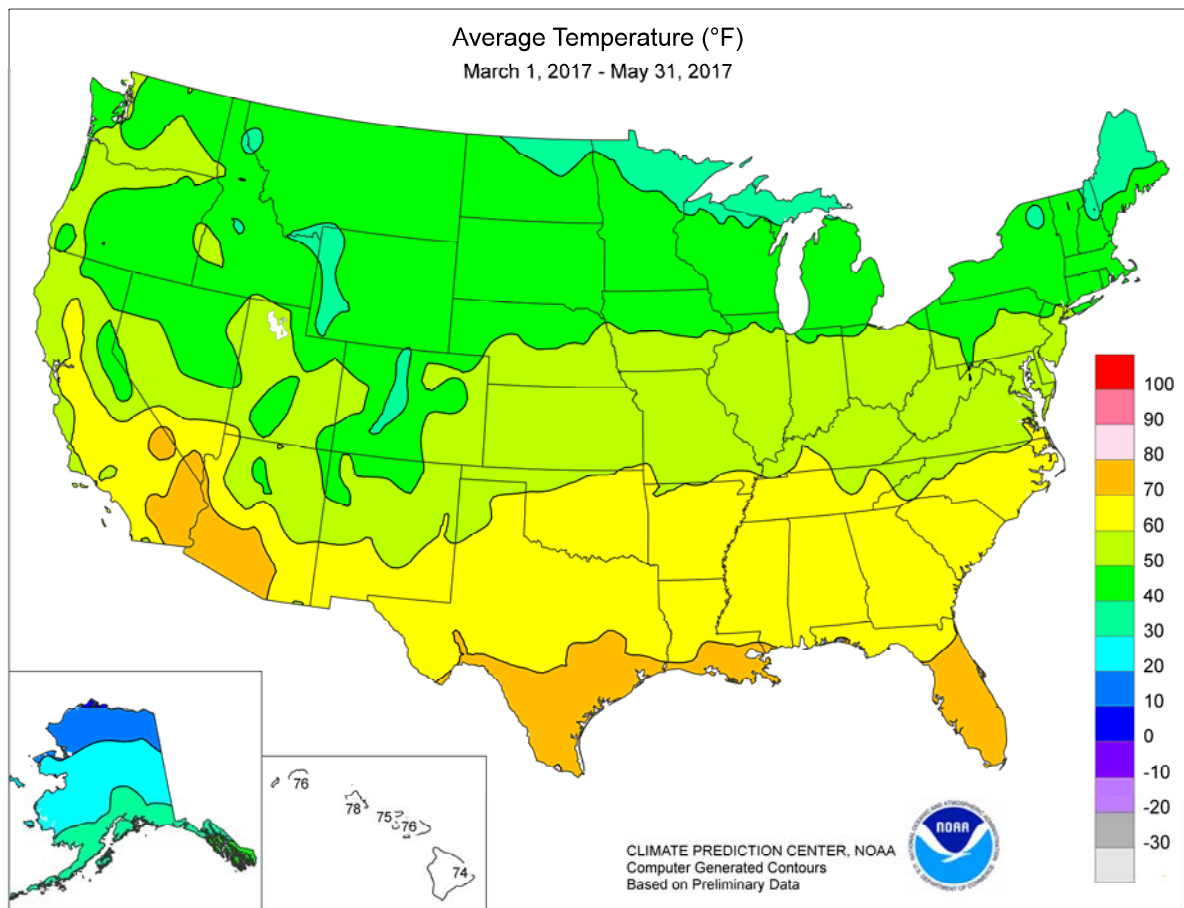
Despite a late-May increase in shower activity, significant drought persisted through month's end across southern Georgia and much of Florida. (Much more rain fell across the lower Southeast in early June, significantly reducing drought coverage and intensity.) By May 30, Florida was experiencing the nation's only extreme drought (D3), according to the U.S. Drought Monitor. And, the lightning-sparked West Mims fire, near the Florida-Georgia line mostly in the Okefenokee National Wildlife Refuge, burned more than 150,000 acres of timber, brush, and grass.

Elsewhere, warm, mostly dry weather in California and the Northwest favored fieldwork and crop development that had been previously delayed by cool, damp conditions. Nevertheless, only 30% of California's rice crop had emerged by June 4, compared to the 5-year average of 79%. Northwestern warmth accelerated the snow-melt rate and elevated river levels, although substantial snow remained on the ground by month's end across higher peaks of the Sierra Nevada, Cascades, and northern Rockies. The California Department of Water Resources noted that the remaining Sierra Nevada snowpack still contained an average of 17 inches of liquid by May 31, down from a seasonal peak of 48 inches.









## National Weather Data for Selected Cities

Spring 2017

Data Provided by Climate Prediction Center

| STATES<br>AND<br>STATIONS |                 | TEMP. °F |           | PRECIP. |           | STATES<br>AND<br>STATIONS |               | TEMP. °F |           | PRECIP. |           | STATES<br>AND<br>STATIONS |                 | TEMP. °F |           | PRECIP. |           |
|---------------------------|-----------------|----------|-----------|---------|-----------|---------------------------|---------------|----------|-----------|---------|-----------|---------------------------|-----------------|----------|-----------|---------|-----------|
|                           |                 | AVERAGE  | DEPARTURE | TOTAL   | DEPARTURE |                           |               | AVERAGE  | DEPARTURE | TOTAL   | DEPARTURE |                           |                 | AVERAGE  | DEPARTURE | TOTAL   | DEPARTURE |
| AL                        | BIRMINGHAM      | 66       | 4         | 18.00   | 2.40      |                           | LEXINGTON     | 58       | 3         | 11.34   | -1.52     |                           | COLUMBUS        | 55       | 3         | 14.22   | 4.20      |
|                           | HUNTSVILLE      | 65       | 5         | 13.85   | -2.61     |                           | LONDON-CORBIN | 58       | 2         | 17.37   | 4.06      |                           | DAYTON          | 53       | 2         | 16.90   | 5.41      |
|                           | MOBILE          | 69       | 2         | 19.78   | 1.42      |                           | LOUISVILLE    | 61       | 5         | 12.87   | -0.33     |                           | MANSFIELD       | 51       | 4         | 13.29   | 1.34      |
|                           | MONTGOMERY      | 68       | 3         | 19.22   | 4.31      |                           | PADUCAH       | 61       | 3         | 17.51   | 3.54      |                           | TOLEDO          | 49       | 1         | 12.09   | 3.09      |
| AK                        | ANCHORAGE       | 36       | 0         | 2.12    | 0.26      | LA                        | BATON ROUGE   | 70       | 3         | 20.22   | 4.25      |                           | YOUNGSTOWN      | 49       | 2         | 13.42   | 3.59      |
|                           | BARROW          | 8        | 6         | 2.46    | 2.13      |                           | LAKE CHARLES  | 70       | 2         | 19.19   | 5.95      | OK                        | OKLAHOMA CITY   | 62       | 2         | 9.89    | -1.45     |
|                           | COLD BAY        | 35       | 1         | 2.99    | -4.44     |                           | NEW ORLEANS   | 71       | 2         | 18.26   | 3.38      |                           | TULSA           | 63       | 2         | 19.33   | 5.70      |
|                           | FAIRBANKS       | 28       | -2        | 0.84    | -0.25     |                           | SHREVEPORT    | 68       | 2         | 13.31   | -0.54     | OR                        | ASTORIA         | 50       | 1         | 29.25   | 13.67     |
|                           | JUNEAU          | 40       | -1        | 11.59   | 1.64      | ME                        | BANGOR        | 41       | -2        | 12.41   | 2.25      |                           | BURNS           | 44       | 0         | 3.23    | 0.09      |
|                           | KING SALMON     | 32       | -1        | 1.89    | -1.19     |                           | CARIBOU       | 38       | 0         | 10.95   | 2.47      |                           | EUGENE          | 51       | 1         | 10.69   | -1.43     |
|                           | KODIAK          | 38       | 0         | 15.17   | -1.84     |                           | PORTLAND      | 43       | -1        | 15.84   | 3.62      |                           | MEDFORD         | 55       | 3         | 3.57    | -0.80     |
|                           | NOME            | 24       | 2         | 1.11    | -0.88     | MD                        | BALTIMORE     | 55       | 2         | 12.98   | 2.16      |                           | PENDLETON       | 51       | 0         | 5.22    | 1.61      |
| AZ                        | FLAGSTAFF       | 46       | 3         | 2.75    | -1.96     | MA                        | BOSTON        | 47       | -2        | 13.35   | 2.66      |                           | PORTLAND        | 53       | 1         | 13.69   | 4.96      |
|                           | PHOENIX         | 76       | 5         | 0.07    | -1.41     |                           | WORCESTER     | 44       | -1        | 14.65   | 2.15      |                           | SALEM           | 52       | 1         | 13.75   | 4.69      |
|                           | TUCSON          | 72       | 5         | 0.23    | -1.10     | MI                        | ALPENA        | 42       | 2         | 10.02   | 2.97      | PA                        | ALLENTOWN       | 51       | 2         | 12.49   | 0.97      |
| AR                        | FORT SMITH      | 64       | 3         | 17.26   | 4.12      |                           | DETROIT       | 50       | 2         | 12.20   | 3.58      |                           | ERIE            | 48       | 1         | 13.57   | 3.72      |
|                           | LITTLE ROCK     | 63       | 1         | 20.82   | 5.42      |                           | FLINT         | 47       | 2         | 10.88   | 2.79      |                           | MIDDLETOWN      | 53       | 1         | 12.06   | 1.28      |
| CA                        | BAKERSFIELD     | 66       | 2         | 0.57    | -1.53     |                           | GRAND RAPIDS  | 48       | 2         | 11.04   | 1.62      |                           | PHILADELPHIA    | 55       | 2         | 13.74   | 2.56      |
|                           | EUREKA          | 50       | -1        | 14.74   | 4.66      |                           | HOUGHTON LAKE | 43       | 1         | 10.43   | 3.52      |                           | PITTSBURGH      | 52       | 2         | 13.71   | 3.73      |
|                           | FRESNO          | 64       | 2         | 4.62    | 1.27      |                           | LANSING       | 48       | 2         | 11.18   | 3.05      |                           | WILKES-BARRE    | 49       | 0         | 12.40   | 2.74      |
|                           | LOS ANGELES     | 63       | 2         | 0.59    | -2.68     |                           | MUSKEGON      | 47       | 2         | 8.78    | 0.56      |                           | WILLIAMSPORT    | 51       | 2         | 14.02   | 3.53      |
|                           | REDDING         | 62       | 3         | 8.68    | -0.53     |                           | TRAVERSE CITY | 44       | 1         | 7.84    | 0.84      | PR                        | SAN JUAN        | 80       | 1         | 16.81   | 5.67      |
|                           | SACRAMENTO      | 61       | 1         | 5.36    | 1.01      | MN                        | DULUTH        | 40       | 1         | 8.27    | 1.54      | RI                        | PROVIDENCE      | 48       | -1        | 17.84   | 5.59      |
|                           | SAN DIEGO       | 64       | 2         | 1.01    | -2.20     |                           | INT'L FALLS   | 38       | -1        | 3.87    | -1.02     | SC                        | CHARLESTON      | 67       | 2         | 10.98   | 0.54      |
|                           | SAN FRANCISCO   | 59       | 3         | 5.16    | 0.35      |                           | MINNEAPOLIS   | 47       | 1         | 9.92    | 2.51      |                           | COLUMBIA        | 67       | 4         | 15.64   | 4.90      |
|                           | STOCKTON        | 62       | 1         | 4.11    | 0.37      |                           | ROCHESTER     | 45       | 1         | 11.99   | 3.56      |                           | FLORENCE        | 65       | 2         | 9.84    | -0.26     |
| CO                        | ALAMOSA         | 45       | 4         | 2.60    | 0.90      |                           | ST. CLOUD     | 44       | 1         | 8.78    | 2.18      |                           | GREENVILLE      | 62       | 3         | 19.65   | 6.22      |
|                           | CO SPRINGS      | 50       | 4         | 5.73    | 0.66      | MS                        | JACKSON       | 67       | 3         | 21.28   | 4.70      |                           | MYRTLE BEACH    | 65       | 3         | 8.52    | -0.38     |
|                           | DENVER          | 51       | 5         | 5.54    | 0.88      |                           | MERIDIAN      | 67       | 3         | 19.07   | 1.65      | SD                        | ABERDEEN        | 44       | -1        | 2.70    | -3.16     |
|                           | GRAND JUNCTION  | 55       | 3         | 1.28    | -1.56     |                           | TUPELO        | 64       | 3         | 13.29   | -3.75     |                           | HURON           | 46       | 0         | 4.28    | -2.68     |
|                           | PUEBLO          | 54       | 4         | 8.14    | 4.43      | MO                        | COLUMBIA      | 58       | 4         | 18.68   | 6.44      |                           | RAPID CITY      | 47       | 2         | 3.81    | -2.04     |
| CT                        | BRIDGEPORT      | 50       | 1         | 14.65   | 2.48      |                           | JOPLIN        | 60       | 3         | 21.94   | 8.93      |                           | SIOUX FALLS     | 47       | 2         | 6.98    | -0.87     |
|                           | HARTFORD        | 48       | -1        | 12.29   | 0.16      |                           | KANSAS CITY   | 56       | 2         | 14.82   | 3.61      | TN                        | BRISTOL         | 58       | 3         | 18.51   | 7.05      |
| DC                        | WASHINGTON      | 59       | 3         | 11.36   | 1.17      |                           | SPRINGFIELD   | 59       | 3         | 24.24   | 11.54     |                           | CHATTANOOGA     | 64       | 4         | 20.43   | 5.73      |
| DE                        | WILMINGTON      | 54       | 2         | 13.16   | 1.65      |                           | ST JOSEPH     | 55       | 1         | 12.06   | 1.52      |                           | JACKSON         | 62       | 2         | 17.82   | 1.94      |
| FL                        | DAYTONA BEACH   | 71       | 1         | 4.22    | -5.42     |                           | ST LOUIS      | 60       | 4         | 20.60   | 9.20      |                           | KNOXVILLE       | 62       | 4         | 18.19   | 4.35      |
|                           | FT LAUDERDALE   | 77       | 3         | 8.32    | -4.72     | MT                        | BILLINGS      | 49       | 3         | 7.17    | 1.83      |                           | MEMPHIS         | 65       | 3         | 13.18   | -3.34     |
|                           | FT MYERS        | 76       | 2         | 4.13    | -3.70     |                           | BUTTE         | 42       | 3         | 4.54    | 0.67      |                           | NASHVILLE       | 63       | 4         | 15.36   | 1.49      |
|                           | JACKSONVILLE    | 69       | 2         | 10.45   | -0.10     |                           | GLASGOW       | 46       | 2         | 1.59    | -1.35     | TX                        | ABILENE         | 66       | 1         | 4.49    | -1.42     |
|                           | KEY WEST        | 78       | 1         | 6.00    | -1.40     |                           | GREAT FALLS   | 46       | 3         | 6.00    | 1.06      |                           | AMARILLO        | 59       | 3         | 4.47    | -0.49     |
|                           | MELBOURNE       | 75       | 4         | 3.45    | -5.49     |                           | HELENA        | 48       | 4         | 2.53    | -0.79     |                           | AUSTIN          | 71       | 3         | 7.47    | -2.22     |
|                           | MIAMI           | 78       | 2         | 8.77    | -2.67     |                           | KALISPELL     | 44       | 1         | 5.89    | 1.52      |                           | BEAUMONT        | 72       | 3         | 16.13   | 2.71      |
|                           | ORLANDO         | 73       | 1         | 3.50    | -6.20     |                           | MILES CITY    | 48       | 2         | 1.98    | -2.19     |                           | BROWNSVILLE     | 78       | 4         | 4.32    | -1.05     |
|                           | PENSACOLA       | 71       | 3         | 13.14   | -1.55     |                           | MISSOULA      | 46       | 1         | 4.77    | 0.77      |                           | COLLEGE STATION | 71       | 3         | 9.59    | -1.50     |
|                           | ST PETERSBURG   | 75       | 2         | 4.58    | -3.43     | NE                        | GRAND ISLAND  | 51       | 1         | 8.93    | 0.21      |                           | CORPUS CHRISTI  | 74       | 2         | 10.42   | 3.16      |
|                           | TALLAHASSEE     | 69       | 2         | 9.87    | -5.14     |                           | HASTINGS      | 52       | 2         | 10.74   | 1.20      |                           | DALLAS/FT WORTH | 70       | 5         | 5.13    | -6.28     |
|                           | TAMPA           | 76       | 4         | 3.05    | -4.44     |                           | LINCOLN       | 53       | 2         | 11.46   | 2.12      |                           | DEL RIO         | 73       | 2         | 10.12   | 5.14      |
|                           | WEST PALM BEACH | 75       | 1         | 7.87    | -4.77     |                           | MCCOOK        | 53       | 3         | 7.33    | 0.44      |                           | EL PASO         | 70       | 5         | 0.17    | -0.70     |
| GA                        | ATHENS          | 64       | 3         | 17.41   | 5.21      |                           | NORFOLK       | 49       | 0         | 9.37    | 0.89      |                           | GALVESTON       | 75       | 5         | 6.61    | -2.41     |
|                           | ATLANTA         | 65       | 3         | 13.03   | 0.08      |                           | NORTH PLATTE  | 50       | 2         | 8.35    | 1.80      |                           | HOUSTON         | 72       | 3         | 9.72    | -2.39     |
|                           | AUGUSTA         | 67       | 4         | 7.71    | -2.91     |                           | OMAHA/EPPEL   | 53       | 2         | 9.41    | -0.10     |                           | LUBBOCK         | 64       | 4         | 2.57    | -1.79     |
|                           | COLUMBUS        | 68       | 3         | 11.31   | -1.90     |                           | SCOTTSBLUFF   | 50       | 3         | 6.56    | 0.91      |                           | MIDLAND         | 69       | 5         | 3.88    | 0.94      |
|                           | MACON           | 66       | 3         | 10.53   | -0.48     |                           | VALENTINE     | 49       | 3         | 8.03    | 1.75      |                           | SAN ANGELO      | 69       | 4         | 3.77    | -1.91     |
|                           | SAVANNAH        | 69       | 3         | 14.92   | 4.35      | NV                        | ELKO          | 49       | 4         | 3.17    | 0.30      |                           | SAN ANTONIO     | 71       | 2         | 6.73    | -2.48     |
| HI                        | HILO            | 74       | 1         | 16.15   | -18.81    |                           | ELY           | 45       | 2         | 2.93    | -0.31     |                           | VICTORIA        | 73       | 3         | 10.98   | 0.65      |
|                           | HONOLULU        | 78       | 2         | 6.16    | 2.38      |                           | LAS VEGAS     | 71       | 4         | 0.13    | -0.85     |                           | WACO            | 69       | 3         | 13.15   | 3.22      |
|                           | KAHULUI         | 76       | 2         | 12.15   | 7.39      |                           | RENO          | 54       | 5         | 2.16    | 0.33      |                           | WICHITA FALLS   | 65       | 2         | 6.35    | -2.46     |
|                           | LIHUE           | 76       | 2         | 8.08    | -1.37     |                           | WINNEMUCCA    | 49       | 1         | 2.65    | -0.12     | UT                        | SALT LAKE CITY  | 54       | 3         | 7.34    | 1.32      |
| ID                        | BOISE           | 53       | 2         | 5.61    | 1.66      | NH                        | CONCORD       | 44       | -1        | 14.12   | 4.68      | VT                        | BURLINGTON      | 44       | 0         | 12.01   | 3.49      |
|                           | LEWISTON        | 52       | 1         | 6.97    | 2.99      | NJ                        | ATLANTIC CITY | 53       | 2         | 16.11   | 5.22      | VA                        | LYNCHBURG       | 57       | 2         | 14.71   | 3.31      |
|                           | POCATELLO       | 47       | 1         | 3.96    | -0.11     |                           | NEWARK        | 52       | 0         | 15.80   | 3.21      |                           | NORFOLK         | 61       | 3         | 16.75   | 5.55      |
| IL                        | CHICAGO/O'HARE  | 50       | 2         | 13.72   | 4.01      | NM                        | ALBUQUERQUE   | 59       | 3         | 1.22    | -0.49     |                           | RICHMOND        | 60       | 3         | 13.53   | 2.31      |
|                           | MOLINE          | 52       | 2         | 12.35   | 1.36      | NY                        | ALBANY        | 47       | 0         | 12.93   | 2.87      |                           | ROANOKE         | 58       | 2         | 16.38   | 4.69      |
|                           | PEORIA          | 54       | 3         | 15.83   | 5.27      |                           | BINGHAMTON    | 44       | 0         | 18.18   | 8.17      |                           | WASH/DULLES     | 56       | 3         | 15.65   | 4.66      |
|                           | ROCKFORD        | 50       | 2         | 14.82   | 4.79      |                           | BUFFALO       | 46       | 0         | 17.09   | 7.71      | WA                        | OLYMPIA         | 49       | 1         | 19.95   | 8.81      |
|                           | SPRINGFIELD     | 56       | 3         | 15.25   | 4.68      |                           | ROCHESTER     | 47       | 2         | 14.89   | 6.74      |                           | QUILLAYUTE      | 48       | 1         | 42.55   | 18.62     |
| IN                        | EVANSVILLE      | 60       | 4         | 17.05   | 3.27      |                           | SYRACUSE      | 45       | 0         | 15.25   | 5.45      |                           | SEATTLE-TACOMA  | 52       | 1         | 13.80   | 5.69      |
|                           | FORT WAYNE      | 51       | 2         | 17.98   | 7.83      | NC                        | ASHEVILLE     | 58       | 4         | 18.60   | 6.10      |                           | SPOKANE         | 48       | 1         | 7.02    | 2.61      |
|                           | INDIANAPOLIS    | 55       | 3         | 18.82   | 7.42      |                           | CHARLOTTE     | 62       | 1         | 14.01   | 3.01      |                           | YAKIMA          | 53       | 4         | 2.85    | 1.11      |
|                           | SOUTH BEND      | 48       | -1        | 12.24   | 2.23      |                           | GREENSBORO    | 61       | 3         | 15.42   | 4.19      | WV                        | BECKLEY         | 53       | 2         | 14.09   | 2.65      |
| IA                        | BURLINGTON      | 53       | 1         | 12.29   | 1.32      |                           | HATTERAS      | 65       | 5         | 19.86   | 7.70      |                           | CHARLESTON      | 57       | 3         | 12.43   | 0.98      |
|                           | CEDAR RAPIDS    | 49       | 0         | 10.21   | 0.91      |                           | RALEIGH       | 62       | 3         | 17.43   | 6.81      |                           | ELKINS          | 52       | 3         | 13.44   | 1.22      |
|                           | DES MOINES      | 53       | 3         | 12.46   | 2.42      |                           | WILMINGTON    | 65       | 2         | 14.95   | 3.39      |                           | HUNTINGTON      | 58       | 3         | 12.21   | 0.64      |
|                           | DUBUQUE         | 48       | 1         | 9.90    | -0.28     | ND                        | BISMARCK      | 44       | 1         | 2.73    | -1.80     | WI                        | EAU CLAIRE      | 45       | 0         | 10.42   | 1.96      |
|                           | SIOUX CITY      | 50       | 1         | 7.88    | -0.62     |                           | DICKINSON     | 42       | -1        | 2.92    | -1.81     |                           | GREEN BAY       | 45       | 1         | 9.75    | 2.38      |
|                           | WATERLOO        | 48       | 0         | 9.09    | -0.42     |                           | FARGO         | 44       | 1         | 3.04    | -2.11     |                           | LA CROSSE       | 49       | 1         | 13.83   | 5.07      |
| KS                        | CONCORDIA       | 54       | 1         | 16.53   | 7.53      |                           | GRAND FORKS   | 42       | 0         | 3.30    | -1.03     |                           | MADISON         | 47       | 1         | 11.96   | 3.08      |
|                           | DODGE CITY      | 56       | 2         | 16.16   | 9.07      |                           | JAMESTOWN     | 42       | -1        | 3.00    | -1.46     |                           | MILWAUKEE       | 47       | 2         | 13.78   | 4.35      |
|                           | GOODLAND        | 52       | 3         | 11.45   | 5.28      |                           | MINOT         | 43       | 1         | 2.01    | -2.90     |                           | WAUSAU          | 43       | -1        | 11.85   | 3.55      |
|                           | HILL CITY       | 54       | 3         | 9.97    | 2.80      |                           | WILLISTON     | 44       | 2         | 2.33    | -1.34     | WY                        | CASPER          | 46       | 3         | 6.25    | 1.45      |
|                           | TOPEKA          | 57       | 3         | 13.76   | 3.20      | OH                        | AKRON-CANTON  | 51       | 3         | 17.61   | 7.11      |                           | CHEYENNE        | 46       | 4         | 7.19    | 2.11      |
|                           | WICHITA         | 58       | 3         | 15.22   | 5.78      |                           | CINCINNATI    | 56       | 2         | 16.18   | 3.73      |                           | LANDER          | 46       | 2         | 10.11   | 4.42      |
| KY                        | JACKSON         | 59       | 3         | 15.85   | 2.52      |                           | CLEVELAND     | 52       | 4         | 14.59   | 4.78      |                           | SHERIDAN        | 46       | 2         | 10.27   | 5.09      |

## National Agricultural Summary

June 19 – 25, 2017

*Weekly National Agricultural Summary provided by USDA/NASS*

### HIGHLIGHTS

**Below-average temperatures blanketed the central U.S., while most of the West recorded above-average temperatures. Temperatures ranged from more than 15°F above normal in parts of California to 6°F below normal in portions of the upper Midwest. Meanwhile,**

**areas from the Mississippi Valley to the Atlantic Coast experienced above-normal weekly rainfall, slowing fieldwork. Tropical Storm Cindy and its remnants brought heavy precipitation to Alabama, Florida, Louisiana, and Mississippi.**

**Corn:** By June 25, silking was estimated at 4 percent complete, slightly behind both last year and the 5-year average. Overall, 67 percent of the corn was reported in good to excellent condition, unchanged from last week but 8 percentage points below the same time last year. Corn in Iowa and Illinois, the two largest corn-producing states, was rated at 79 percent and 62 percent, respectively, in good to excellent condition.

**Soybeans:** Ninety-four percent of the nation's soybean crop was emerged by June 25, equal to last year but 3 percentage points ahead of the 5-year average. Nationally, 9 percent of the soybean crop was blooming by week's end, slightly ahead of last year and 2 percentage points ahead of the 5-year average. Progress was most advanced in the Lower Mississippi Valley, with 79 percent blooming in Louisiana, 61 percent in Mississippi, and 60 percent in Arkansas. Overall, 66 percent of the soybeans were reported in good to excellent condition, down slightly from last week and 6 percentage points below the same time last year.

**Winter Wheat:** By June 25, producers had harvested 41 percent of the winter wheat, slightly behind last year but 2 percentage points ahead of the 5-year average. Drier conditions in Kansas spurred harvest progress, where producers harvested 26 percent of the winter wheat during the week. However, six of the eighteen estimating states had not yet started the winter wheat harvest by week's end. Overall, 49 percent of the winter wheat was reported in good to excellent condition, unchanged from last week but 13 percentage points lower than at the same time last year.

**Cotton:** Nationally, 98 percent of the cotton was planted by June 25, equal to last year but slightly behind the 5-year average. Thirty-four percent of the cotton was squaring by June 25, six percentage points ahead of last year and 4 points ahead of the 5-year average. Late planting continued to affect squaring progress in California, which was 26 percentage points behind the 5-year average. Nationally, 7 percent of this year's cotton was setting bolls by week's end, slightly ahead of last year and 2 percentage points ahead of the 5-year average. Overall, 57 percent of the cotton was reported in good to excellent condition, down 4 percentage points from last week but slightly better than at the same time last year.

**Sorghum:** By June 25, ninety-five percent of the nation's sorghum was planted, slightly ahead of last year and 2 percentage points ahead of the 5-year average. By week's end, 20 percent of the sorghum was at or beyond the heading stage, 5 percentage points behind last year and 2 points behind the 5-year average. Heading progress was most advanced in Arkansas, Louisiana, and

Texas. Overall, 65 percent of the sorghum was reported in good to excellent condition, down slightly from last week and 5 percentage points lower than at the same time last year.

**Rice:** By June 25, nine percent of the rice was at or beyond the heading stage, 6 percentage points behind last year and 2 points behind the 5-year average. Heading advanced 14 percentage points during the week in Mississippi and 19 points in Texas. Overall, 73 percent of the rice was reported in good to excellent condition, up 3 percentage points from last week and 4 points above the same time last year.

**Small Grains:** Heading of this year's oat crop advanced to 73 percent complete by week's end, 8 percentage points behind last year and slightly behind the 5-year average. Heading progress advanced 26 percentage points in Minnesota and Wisconsin during the week. Overall, 54 percent of the oats were reported in good to excellent condition, down 2 percentage points from last week and 13 points lower than at the same time last year.

Twenty-seven percent of the barley was at or beyond the heading stage by June 25, twenty-three percentage points behind last year and 11 points behind the 5-year average. Crop development was behind normal in all estimating states except Idaho. Overall, 60 percent of the barley was reported in good to excellent condition, down 4 percentage points from last week and 15 points lower than at the same time last year.

By week's end, 36 percent of the spring wheat was at or beyond the heading stage, 16 percentage points behind last year but slightly ahead of the 5-year average. Overall, 40 percent of the spring wheat was reported in good to excellent condition, down slightly from last week and 32 percentage points lower than at the same time last year.

**Other Crops:** Thirty-one percent of the peanut crop was pegging by week's end, 2 percentage points behind last year but 7 points ahead of the 5-year average. Pegging was 38 percent complete in Georgia, 15 percentage points ahead of the 5-year average. Overall, 75 percent of the peanut crop was reported in good to excellent condition, down 3 percentage points from last week but 5 points above the same time last year.

By week's end, 97 percent of this year's sunflower crop was planted, slightly ahead of last year and 8 percentage points ahead of the 5-year average. Favorable planting conditions allowed for double-digit planting progress in Colorado and Kansas.

**Crop Progress and Condition****Week Ending June 25, 2017**

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

| Soybeans Percent Emerged                                       |              |              |                |             |
|----------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                                | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| AR                                                             | 94           | 90           | 94             | 88          |
| IL                                                             | 93           | 92           | 97             | 93          |
| IN                                                             | 94           | 84           | 90             | 94          |
| IA                                                             | 99           | 92           | 96             | 94          |
| KS                                                             | 82           | 78           | 86             | 81          |
| KY                                                             | 73           | 70           | 82             | 77          |
| LA                                                             | 98           | 97           | 99             | 96          |
| MI                                                             | 96           | 86           | 92             | 98          |
| MN                                                             | 100          | 97           | 100            | 95          |
| MS                                                             | 98           | 94           | 95             | 95          |
| MO                                                             | 87           | 81           | 89             | 77          |
| NE                                                             | 99           | 96           | 98             | 97          |
| NC                                                             | 76           | 67           | 79             | 72          |
| ND                                                             | 99           | 95           | 97             | 93          |
| OH                                                             | 95           | 85           | 96             | 95          |
| SD                                                             | 97           | 97           | 100            | 95          |
| TN                                                             | 77           | 69           | 80             | 73          |
| WI                                                             | 99           | 84           | 94             | 93          |
| 18 Sts                                                         | 94           | 89           | 94             | 91          |
| These 18 States planted 95%<br>of last year's soybean acreage. |              |              |                |             |

| Soybeans Percent Blooming                                      |              |              |                |             |
|----------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                                | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| AR                                                             | 47           | 46           | 60             | 34          |
| IL                                                             | 6            | 1            | 7              | 5           |
| IN                                                             | 3            | NA           | 2              | 6           |
| IA                                                             | 4            | NA           | 2              | 4           |
| KS                                                             | 0            | 0            | 5              | 2           |
| KY                                                             | 1            | NA           | 2              | 4           |
| LA                                                             | 60           | 45           | 79             | 52          |
| MI                                                             | 1            | NA           | 2              | 1           |
| MN                                                             | 1            | NA           | 1              | 2           |
| MS                                                             | 41           | 55           | 61             | 37          |
| MO                                                             | 5            | 1            | 7              | 3           |
| NE                                                             | 7            | NA           | 7              | 8           |
| NC                                                             | 1            | NA           | 4              | 2           |
| ND                                                             | 17           | 0            | 1              | 6           |
| OH                                                             | 1            | NA           | 1              | 3           |
| SD                                                             | 4            | 0            | 6              | 5           |
| TN                                                             | 5            | 2            | 6              | 6           |
| WI                                                             | 5            | NA           | 0              | 1           |
| 18 Sts                                                         | 8            | NA           | 9              | 7           |
| These 18 States planted 95%<br>of last year's soybean acreage. |              |              |                |             |

| Soybean Condition by Percent |    |    |    |    |    |
|------------------------------|----|----|----|----|----|
|                              | VP | P  | F  | G  | EX |
| AR                           | 2  | 5  | 24 | 56 | 13 |
| IL                           | 2  | 6  | 22 | 59 | 11 |
| IN                           | 3  | 10 | 36 | 44 | 7  |
| IA                           | 1  | 4  | 21 | 63 | 11 |
| KS                           | 0  | 2  | 29 | 63 | 6  |
| KY                           | 1  | 3  | 17 | 71 | 8  |
| LA                           | 1  | 6  | 20 | 58 | 15 |
| MI                           | 1  | 5  | 25 | 61 | 8  |
| MN                           | 0  | 4  | 20 | 62 | 14 |
| MS                           | 0  | 6  | 29 | 48 | 17 |
| MO                           | 1  | 5  | 30 | 55 | 9  |
| NE                           | 2  | 5  | 23 | 63 | 7  |
| NC                           | 0  | 3  | 14 | 77 | 6  |
| ND                           | 4  | 12 | 31 | 49 | 4  |
| OH                           | 1  | 6  | 33 | 48 | 12 |
| SD                           | 9  | 12 | 40 | 36 | 3  |
| TN                           | 0  | 1  | 12 | 60 | 27 |
| WI                           | 1  | 5  | 20 | 61 | 13 |
| 18 Sts                       | 2  | 6  | 26 | 56 | 10 |
| Prev Wk                      | 2  | 5  | 26 | 57 | 10 |
| Prev Yr                      | 1  | 4  | 23 | 60 | 12 |

| Corn Percent Silking                                        |              |              |                |             |
|-------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                             | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| CO                                                          | 1            | NA           | 0              | 1           |
| IL                                                          | 3            | NA           | 2              | 6           |
| IN                                                          | 5            | NA           | 2              | 4           |
| IA                                                          | 0            | NA           | 0              | 1           |
| KS                                                          | 15           | 4            | 8              | 13          |
| KY                                                          | 16           | 4            | 20             | 13          |
| MI                                                          | 0            | NA           | 0              | 0           |
| MN                                                          | 0            | NA           | 0              | 0           |
| MO                                                          | 18           | NA           | 6              | 14          |
| NE                                                          | 1            | 0            | 0              | 2           |
| NC                                                          | 53           | 35           | 60             | 55          |
| ND                                                          | 11           | 0            | 0              | 3           |
| OH                                                          | 0            | NA           | 1              | 1           |
| PA                                                          | 0            | NA           | 0              | 1           |
| SD                                                          | 0            | NA           | 0              | 0           |
| TN                                                          | 21           | 12           | 38             | 28          |
| TX                                                          | 45           | 53           | 56             | 55          |
| WI                                                          | 0            | NA           | 0              | 0           |
| 18 Sts                                                      | 5            | NA           | 4              | 5           |
| These 18 States planted 92%<br>of last year's corn acreage. |              |              |                |             |

| Corn Condition by Percent |    |    |    |    |    |
|---------------------------|----|----|----|----|----|
|                           | VP | P  | F  | G  | EX |
| CO                        | 0  | 6  | 11 | 68 | 15 |
| IL                        | 2  | 7  | 29 | 51 | 11 |
| IN                        | 5  | 13 | 36 | 40 | 6  |
| IA                        | 1  | 3  | 17 | 63 | 16 |
| KS                        | 1  | 6  | 32 | 50 | 11 |
| KY                        | 1  | 3  | 11 | 74 | 11 |
| MI                        | 0  | 4  | 29 | 57 | 10 |
| MN                        | 1  | 3  | 18 | 63 | 15 |
| MO                        | 1  | 5  | 28 | 57 | 9  |
| NE                        | 1  | 5  | 20 | 62 | 12 |
| NC                        | 1  | 5  | 17 | 57 | 20 |
| ND                        | 3  | 10 | 31 | 53 | 3  |
| OH                        | 1  | 7  | 34 | 46 | 12 |
| PA                        | 0  | 2  | 13 | 68 | 17 |
| SD                        | 7  | 13 | 34 | 43 | 3  |
| TN                        | 0  | 1  | 12 | 50 | 37 |
| TX                        | 0  | 5  | 25 | 56 | 14 |
| WI                        | 2  | 5  | 24 | 50 | 19 |
| 18 Sts                    | 2  | 6  | 25 | 55 | 12 |
| Prev Wk                   | 2  | 6  | 25 | 55 | 12 |
| Prev Yr                   | 1  | 4  | 20 | 59 | 16 |

| Rice Percent Headed                                         |              |              |                |             |
|-------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                             | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| AR                                                          | 3            | 0            | 1              | 4           |
| CA                                                          | 20           | 0            | 0              | 7           |
| LA                                                          | 43           | 28           | 37             | 34          |
| MS                                                          | 20           | 3            | 17             | 10          |
| MO                                                          | 0            | 0            | 0              | 1           |
| TX                                                          | 36           | 10           | 29             | 23          |
| 6 Sts                                                       | 15           | 5            | 9              | 11          |
| These 6 States planted 100%<br>of last year's rice acreage. |              |              |                |             |

| Rice Condition by Percent |    |   |    |    |    |
|---------------------------|----|---|----|----|----|
|                           | VP | P | F  | G  | EX |
| AR                        | 1  | 6 | 27 | 48 | 18 |
| CA                        | 0  | 0 | 0  | 50 | 50 |
| LA                        | 1  | 3 | 18 | 61 | 17 |
| MS                        | 0  | 0 | 35 | 55 | 10 |
| MO                        | 0  | 4 | 27 | 44 | 25 |
| TX                        | 0  | 0 | 35 | 53 | 12 |
| 6 Sts                     | 1  | 4 | 22 | 50 | 23 |
| Prev Wk                   | 1  | 5 | 24 | 56 | 14 |
| Prev Yr                   | 2  | 5 | 24 | 54 | 15 |



## Crop Progress and Condition

### Week Ending June 25, 2017

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

| Cotton Percent Planted                                        |              |              |                |             |
|---------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                               | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| AL                                                            | 100          | 98           | 98             | 100         |
| AZ                                                            | 100          | 100          | 100            | 100         |
| AR                                                            | 100          | 100          | 100            | 100         |
| CA                                                            | 100          | 100          | 100            | 100         |
| GA                                                            | 99           | 97           | 99             | 99          |
| KS                                                            | 78           | 89           | 93             | 90          |
| LA                                                            | 100          | 100          | 100            | 100         |
| MS                                                            | 100          | 98           | 100            | 100         |
| MO                                                            | 100          | 100          | 100            | 100         |
| NC                                                            | 99           | 97           | 99             | 99          |
| OK                                                            | 95           | 96           | 97             | 91          |
| SC                                                            | 99           | 97           | 98             | 99          |
| TN                                                            | 100          | 99           | 100            | 100         |
| TX                                                            | 97           | 91           | 97             | 98          |
| VA                                                            | 96           | 98           | 100            | 99          |
| 15 Sts                                                        | 98           | 94           | 98             | 99          |
| These 15 States planted 98%<br>of last year's cotton acreage. |              |              |                |             |

| Cotton Percent Squaring                                       |              |              |                |             |
|---------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                               | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| AL                                                            | 50           | 17           | 42             | 53          |
| AZ                                                            | 63           | 54           | 64             | 63          |
| AR                                                            | 82           | 60           | 85             | 74          |
| CA                                                            | 54           | 20           | 30             | 56          |
| GA                                                            | 48           | 26           | 40             | 43          |
| KS                                                            | 12           | 1            | 5              | 9           |
| LA                                                            | 56           | 54           | 69             | 60          |
| MS                                                            | 51           | 25           | 34             | 48          |
| MO                                                            | 56           | 14           | 24             | 35          |
| NC                                                            | 17           | 26           | 39             | 30          |
| OK                                                            | 11           | 13           | 20             | 15          |
| SC                                                            | 20           | 23           | 32             | 25          |
| TN                                                            | 38           | 23           | 36             | 35          |
| TX                                                            | 17           | 17           | 29             | 20          |
| VA                                                            | 34           | 40           | 50             | 37          |
| 15 Sts                                                        | 28           | 22           | 34             | 30          |
| These 15 States planted 98%<br>of last year's cotton acreage. |              |              |                |             |

| Cotton Percent Setting Bolls                                  |              |              |                |             |
|---------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                               | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| AL                                                            | 3            | NA           | 0              | 3           |
| AZ                                                            | 19           | 14           | 20             | 15          |
| AR                                                            | 8            | 2            | 10             | 6           |
| CA                                                            | 0            | NA           | 0              | 3           |
| GA                                                            | 3            | NA           | 2              | 5           |
| KS                                                            | 0            | NA           | 0              | 0           |
| LA                                                            | 7            | 8            | 15             | 8           |
| MS                                                            | 5            | 0            | 5              | 5           |
| MO                                                            | 0            | NA           | 0              | 1           |
| NC                                                            | 0            | NA           | 0              | 0           |
| OK                                                            | 0            | NA           | 0              | 0           |
| SC                                                            | 0            | NA           | 1              | 2           |
| TN                                                            | 1            | 0            | 2              | 1           |
| TX                                                            | 7            | 6            | 9              | 7           |
| VA                                                            | 0            | NA           | 0              | 0           |
| 15 Sts                                                        | 6            | NA           | 7              | 5           |
| These 15 States planted 98%<br>of last year's cotton acreage. |              |              |                |             |

| Cotton Condition by Percent |    |    |    |    |    |
|-----------------------------|----|----|----|----|----|
|                             | VP | P  | F  | G  | EX |
| AL                          | 0  | 8  | 37 | 52 | 3  |
| AZ                          | 0  | 3  | 8  | 75 | 14 |
| AR                          | 0  | 4  | 13 | 55 | 28 |
| CA                          | 0  | 0  | 0  | 25 | 75 |
| GA                          | 1  | 4  | 23 | 58 | 14 |
| KS                          | 1  | 3  | 19 | 70 | 7  |
| LA                          | 0  | 3  | 36 | 54 | 7  |
| MS                          | 0  | 9  | 23 | 51 | 17 |
| MO                          | 0  | 12 | 39 | 43 | 6  |
| NC                          | 1  | 4  | 20 | 69 | 6  |
| OK                          | 0  | 9  | 15 | 75 | 1  |
| SC                          | 0  | 0  | 12 | 48 | 40 |
| TN                          | 0  | 2  | 8  | 69 | 21 |
| TX                          | 2  | 11 | 41 | 37 | 9  |
| VA                          | 0  | 0  | 10 | 90 | 0  |
| 15 Sts                      | 1  | 9  | 33 | 46 | 11 |
| Prev Wk                     | 1  | 5  | 33 | 51 | 10 |
| Prev Yr                     | 1  | 7  | 36 | 46 | 10 |

| Oats Percent Headed                                       |              |              |                |             |
|-----------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                           | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| IA                                                        | 89           | 67           | 84             | 84          |
| MN                                                        | 74           | 31           | 57             | 54          |
| NE                                                        | 91           | 94           | 97             | 85          |
| ND                                                        | 57           | 18           | 33             | 33          |
| OH                                                        | 83           | 71           | 86             | 79          |
| PA                                                        | 84           | 49           | 62             | 75          |
| SD                                                        | 78           | 74           | 87             | 70          |
| TX                                                        | 100          | 100          | 100            | 99          |
| WI                                                        | 66           | 22           | 48             | 60          |
| 9 Sts                                                     | 81           | 60           | 73             | 74          |
| These 9 States planted 66%<br>of last year's oat acreage. |              |              |                |             |

| Oat Condition by Percent |    |    |    |    |    |
|--------------------------|----|----|----|----|----|
|                          | VP | P  | F  | G  | EX |
| IA                       | 0  | 2  | 22 | 59 | 17 |
| MN                       | 1  | 1  | 16 | 66 | 16 |
| NE                       | 1  | 9  | 33 | 50 | 7  |
| ND                       | 13 | 26 | 36 | 24 | 1  |
| OH                       | 0  | 1  | 29 | 62 | 8  |
| PA                       | 0  | 2  | 13 | 82 | 3  |
| SD                       | 17 | 23 | 33 | 25 | 2  |
| TX                       | 4  | 15 | 34 | 40 | 7  |
| WI                       | 0  | 3  | 18 | 59 | 20 |
| 9 Sts                    | 6  | 12 | 28 | 45 | 9  |
| Prev Wk                  | 5  | 11 | 28 | 47 | 9  |
| Prev Yr                  | 2  | 6  | 25 | 56 | 11 |

| Barley Percent Headed                                        |              |              |                |             |
|--------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                              | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| ID                                                           | 50           | 30           | 52             | 50          |
| MN                                                           | 66           | 17           | 45             | 46          |
| MT                                                           | 41           | 0            | 5              | 28          |
| ND                                                           | 55           | 8            | 30             | 31          |
| WA                                                           | 82           | 10           | 44             | 63          |
| 5 Sts                                                        | 50           | 10           | 27             | 38          |
| These 5 States planted 83%<br>of last year's barley acreage. |              |              |                |             |

| Barley Condition by Percent |    |    |    |    |    |
|-----------------------------|----|----|----|----|----|
|                             | VP | P  | F  | G  | EX |
| ID                          | 2  | 2  | 17 | 49 | 30 |
| MN                          | 0  | 1  | 14 | 63 | 22 |
| MT                          | 1  | 8  | 37 | 29 | 25 |
| ND                          | 10 | 15 | 30 | 41 | 4  |
| WA                          | 0  | 4  | 18 | 77 | 1  |
| 5 Sts                       | 4  | 8  | 28 | 42 | 18 |
| Prev Wk                     | 4  | 7  | 25 | 49 | 15 |
| Prev Yr                     | 0  | 2  | 23 | 60 | 15 |

**Crop Progress and Condition****Week Ending June 25, 2017**

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

| Sorghum Percent Planted                                        |              |              |                |             |
|----------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                                | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| AR                                                             | 100          | 100          | 100            | 100         |
| CO                                                             | 95           | 85           | 96             | 92          |
| IL                                                             | 75           | 78           | 81             | 88          |
| KS                                                             | 93           | 77           | 92             | 90          |
| LA                                                             | 100          | 100          | 100            | 100         |
| MO                                                             | 97           | 90           | 96             | 89          |
| NE                                                             | 99           | 98           | 99             | 99          |
| NM                                                             | 82           | 64           | 73             | 78          |
| OK                                                             | 91           | 83           | 95             | 84          |
| SD                                                             | 99           | 95           | 98             | 93          |
| TX                                                             | 95           | 97           | 100            | 95          |
| 11 Sts                                                         | 94           | 86           | 95             | 93          |
| These 11 States planted 99%<br>of last year's sorghum acreage. |              |              |                |             |

| Sorghum Percent Headed                                         |              |              |                |             |
|----------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                                | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| AR                                                             | 22           | 2            | 10             | 23          |
| CO                                                             | 0            | 0            | 0              | 0           |
| IL                                                             | 0            | 0            | 0              | 2           |
| KS                                                             | 8            | 0            | 0              | 2           |
| LA                                                             | 71           | 42           | 61             | 62          |
| MO                                                             | 5            | 0            | 1              | 3           |
| NE                                                             | 0            | 2            | 3              | 0           |
| NM                                                             | 0            | 0            | 0              | 0           |
| OK                                                             | 8            | 0            | 1              | 3           |
| SD                                                             | 7            | 0            | 0              | 2           |
| TX                                                             | 55           | 52           | 59             | 55          |
| 11 Sts                                                         | 25           | 17           | 20             | 22          |
| These 11 States planted 99%<br>of last year's sorghum acreage. |              |              |                |             |

| Sorghum Condition by Percent |    |    |    |    |    |
|------------------------------|----|----|----|----|----|
|                              | VP | P  | F  | G  | EX |
| AR                           | 1  | 2  | 37 | 55 | 5  |
| CO                           | 1  | 3  | 19 | 71 | 6  |
| IL                           | 11 | 7  | 26 | 49 | 7  |
| KS                           | 1  | 3  | 26 | 65 | 5  |
| LA                           | 0  | 2  | 19 | 77 | 2  |
| MO                           | 0  | 4  | 31 | 64 | 1  |
| NE                           | 0  | 1  | 35 | 57 | 7  |
| NM                           | 0  | 7  | 58 | 35 | 0  |
| OK                           | 2  | 1  | 24 | 71 | 2  |
| SD                           | 9  | 21 | 60 | 10 | 0  |
| TX                           | 0  | 3  | 37 | 45 | 15 |
| 11 Sts                       | 1  | 3  | 31 | 57 | 8  |
| Prev Wk                      | 1  | 4  | 29 | 61 | 5  |
| Prev Yr                      | 0  | 3  | 27 | 61 | 9  |

| Peanuts Percent Pegging                                      |              |              |                |             |
|--------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                              | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| AL                                                           | 32           | 6            | 27             | 35          |
| FL                                                           | 41           | 13           | 42             | 32          |
| GA                                                           | 41           | 21           | 38             | 23          |
| NC                                                           | 9            | 2            | 18             | 16          |
| OK                                                           | 9            | 1            | 11             | 14          |
| SC                                                           | 37           | 11           | 33             | 32          |
| TX                                                           | 12           | 1            | 8              | 8           |
| VA                                                           | 3            | 1            | 10             | 11          |
| 8 Sts                                                        | 33           | 13           | 31             | 24          |
| These 8 States planted 96%<br>of last year's peanut acreage. |              |              |                |             |

| Peanut Condition by Percent |    |   |    |    |    |
|-----------------------------|----|---|----|----|----|
|                             | VP | P | F  | G  | EX |
| AL                          | 0  | 8 | 25 | 65 | 2  |
| FL                          | 0  | 3 | 14 | 71 | 12 |
| GA                          | 0  | 4 | 21 | 58 | 17 |
| NC                          | 0  | 2 | 12 | 78 | 8  |
| OK                          | 0  | 0 | 8  | 87 | 5  |
| SC                          | 0  | 0 | 5  | 64 | 31 |
| TX                          | 0  | 0 | 44 | 52 | 4  |
| VA                          | 0  | 0 | 10 | 90 | 0  |
| 8 Sts                       | 0  | 3 | 22 | 62 | 13 |
| Prev Wk                     | 0  | 2 | 20 | 66 | 12 |
| Prev Yr                     | 0  | 2 | 28 | 59 | 11 |

| Sunflowers Percent Planted                                      |              |              |                |             |
|-----------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                                 | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| CO                                                              | 79           | 67           | 84             | 78          |
| KS                                                              | 80           | 67           | 86             | 80          |
| ND                                                              | 100          | 98           | 99             | 95          |
| SD                                                              | 95           | 92           | 98             | 86          |
| 4 Sts                                                           | 96           | 93           | 97             | 89          |
| These 4 States planted 87%<br>of last year's sunflower acreage. |              |              |                |             |

| Spring Wheat Percent Headed                                        |              |              |                |             |
|--------------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                                    | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| ID                                                                 | 60           | 23           | 28             | 48          |
| MN                                                                 | 69           | 22           | 42             | 46          |
| MT                                                                 | 22           | 0            | 14             | 16          |
| ND                                                                 | 55           | 9            | 33             | 33          |
| SD                                                                 | 70           | 65           | 85             | 58          |
| WA                                                                 | 82           | 28           | 63             | 66          |
| 6 Sts                                                              | 52           | 15           | 36             | 35          |
| These 6 States planted 99%<br>of last year's spring wheat acreage. |              |              |                |             |

| Spring Wheat Condition by Percent |    |    |    |    |    |
|-----------------------------------|----|----|----|----|----|
|                                   | VP | P  | F  | G  | EX |
| ID                                | 22 | 2  | 23 | 39 | 14 |
| MN                                | 0  | 0  | 14 | 62 | 24 |
| MT                                | 9  | 27 | 42 | 11 | 11 |
| ND                                | 9  | 18 | 34 | 36 | 3  |
| SD                                | 31 | 31 | 26 | 11 | 1  |
| WA                                | 0  | 4  | 28 | 66 | 2  |
| 6 Sts                             | 10 | 18 | 32 | 33 | 7  |
| Prev Wk                           | 9  | 18 | 32 | 35 | 6  |
| Prev Yr                           | 1  | 4  | 23 | 62 | 10 |

**Crop Progress and Condition****Week Ending June 25, 2017**

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

| Winter Wheat Percent Harvested                                        |              |              |                |             |
|-----------------------------------------------------------------------|--------------|--------------|----------------|-------------|
|                                                                       | Prev<br>Year | Prev<br>Week | Jun 25<br>2017 | 5-Yr<br>Avg |
| AR                                                                    | 94           | 88           | 98             | 86          |
| CA                                                                    | 86           | 5            | 25             | 77          |
| CO                                                                    | 2            | 0            | 1              | 12          |
| ID                                                                    | 0            | 0            | 0              | 0           |
| IL                                                                    | 71           | 65           | 78             | 47          |
| IN                                                                    | 31           | 23           | 35             | 30          |
| KS                                                                    | 53           | 22           | 48             | 47          |
| MI                                                                    | 0            | 0            | 0              | 1           |
| MO                                                                    | 77           | 52           | 76             | 55          |
| MT                                                                    | 0            | 0            | 0              | 0           |
| NE                                                                    | 3            | 0            | 1              | 8           |
| NC                                                                    | 78           | 64           | 83             | 76          |
| OH                                                                    | 3            | 3            | 10             | 7           |
| OK                                                                    | 82           | 77           | 90             | 79          |
| OR                                                                    | 0            | 0            | 0              | 0           |
| SD                                                                    | 0            | 0            | 0              | 0           |
| TX                                                                    | 76           | 74           | 87             | 73          |
| WA                                                                    | 1            | 0            | 0              | 0           |
| 18 Sts                                                                | 42           | 28           | 41             | 39          |
| These 18 States harvested 91%<br>of last year's winter wheat acreage. |              |              |                |             |

| Winter Wheat Condition by<br>Percent |    |    |    |    |    |
|--------------------------------------|----|----|----|----|----|
|                                      | VP | P  | F  | G  | EX |
| AR                                   | 3  | 7  | 20 | 62 | 8  |
| CA                                   | 0  | 0  | 0  | 60 | 40 |
| CO                                   | 5  | 13 | 36 | 33 | 13 |
| ID                                   | 1  | 4  | 17 | 42 | 36 |
| IL                                   | 5  | 8  | 23 | 46 | 18 |
| IN                                   | 1  | 5  | 23 | 52 | 19 |
| KS                                   | 8  | 15 | 31 | 40 | 6  |
| MI                                   | 2  | 7  | 19 | 62 | 10 |
| MO                                   | 0  | 7  | 25 | 55 | 13 |
| MT                                   | 2  | 13 | 46 | 25 | 14 |
| NE                                   | 3  | 13 | 36 | 42 | 6  |
| NC                                   | 3  | 10 | 27 | 45 | 15 |
| OH                                   | 0  | 3  | 15 | 65 | 17 |
| OK                                   | 2  | 6  | 45 | 44 | 3  |
| OR                                   | 5  | 6  | 8  | 50 | 31 |
| SD                                   | 21 | 35 | 34 | 10 | 0  |
| TX                                   | 1  | 14 | 49 | 33 | 3  |
| WA                                   | 1  | 1  | 15 | 69 | 14 |
| 18 Sts                               | 4  | 12 | 35 | 40 | 9  |
| Prev Wk                              | 5  | 11 | 35 | 41 | 8  |
| Prev Yr                              | 2  | 7  | 29 | 48 | 14 |

| Pasture and Range Condition by Percent |    |    |    |    |    |  |         |    |    |    |    |    |
|----------------------------------------|----|----|----|----|----|--|---------|----|----|----|----|----|
| Week Ending Jun 25, 2017               |    |    |    |    |    |  |         |    |    |    |    |    |
|                                        | VP | P  | F  | G  | EX |  | VP      | P  | F  | G  | EX |    |
| AL                                     | 0  | 8  | 22 | 54 | 16 |  | NH      | 0  | 2  | 21 | 62 | 15 |
| AZ                                     | 3  | 19 | 29 | 37 | 12 |  | NJ      | 0  | 2  | 14 | 82 | 2  |
| AR                                     | 0  | 7  | 27 | 45 | 21 |  | NM      | 7  | 24 | 45 | 19 | 5  |
| CA                                     | 10 | 10 | 20 | 30 | 30 |  | NY      | 1  | 2  | 15 | 56 | 26 |
| CO                                     | 0  | 3  | 19 | 65 | 13 |  | NC      | 0  | 2  | 14 | 76 | 8  |
| CT                                     | 0  | 65 | 15 | 20 | 0  |  | ND      | 31 | 30 | 24 | 14 | 1  |
| DE                                     | 2  | 7  | 30 | 56 | 5  |  | OH      | 0  | 2  | 20 | 67 | 11 |
| FL                                     | 2  | 7  | 23 | 61 | 7  |  | OK      | 1  | 3  | 35 | 55 | 6  |
| GA                                     | 3  | 10 | 26 | 53 | 8  |  | OR      | 2  | 3  | 25 | 55 | 15 |
| ID                                     | 0  | 2  | 11 | 42 | 45 |  | PA      | 0  | 4  | 25 | 53 | 18 |
| IL                                     | 1  | 5  | 28 | 55 | 11 |  | RI      | 0  | 0  | 5  | 60 | 35 |
| IN                                     | 1  | 7  | 28 | 54 | 10 |  | SC      | 0  | 0  | 11 | 82 | 7  |
| IA                                     | 2  | 6  | 26 | 55 | 11 |  | SD      | 28 | 25 | 26 | 19 | 2  |
| KS                                     | 0  | 2  | 18 | 65 | 15 |  | TN      | 1  | 6  | 24 | 56 | 13 |
| KY                                     | 1  | 2  | 14 | 70 | 13 |  | TX      | 3  | 12 | 35 | 42 | 8  |
| LA                                     | 4  | 7  | 28 | 49 | 12 |  | UT      | 0  | 3  | 28 | 58 | 11 |
| ME                                     | 0  | 0  | 8  | 55 | 37 |  | VT      | 6  | 6  | 18 | 64 | 6  |
| MD                                     | 1  | 11 | 23 | 61 | 4  |  | VA      | 0  | 6  | 24 | 62 | 8  |
| MA                                     | 0  | 0  | 5  | 70 | 25 |  | WA      | 1  | 2  | 16 | 62 | 19 |
| MI                                     | 1  | 10 | 29 | 46 | 14 |  | WV      | 0  | 1  | 14 | 71 | 14 |
| MN                                     | 0  | 4  | 18 | 62 | 16 |  | WI      | 1  | 2  | 18 | 53 | 26 |
| MS                                     | 1  | 5  | 24 | 55 | 15 |  | WY      | 1  | 8  | 22 | 60 | 9  |
| MO                                     | 0  | 4  | 25 | 63 | 8  |  | 48 Sts  | 4  | 9  | 27 | 49 | 11 |
| MT                                     | 8  | 18 | 30 | 29 | 15 |  |         |    |    |    |    |    |
| NE                                     | 1  | 7  | 36 | 50 | 6  |  | Prev Wk | 4  | 8  | 25 | 50 | 13 |
| NV                                     | 0  | 0  | 25 | 25 | 50 |  | Prev Yr | 2  | 8  | 29 | 50 | 11 |

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

NA - Not Available;

\*Revised

# Crop Progress and Condition

Week Ending June 25, 2017

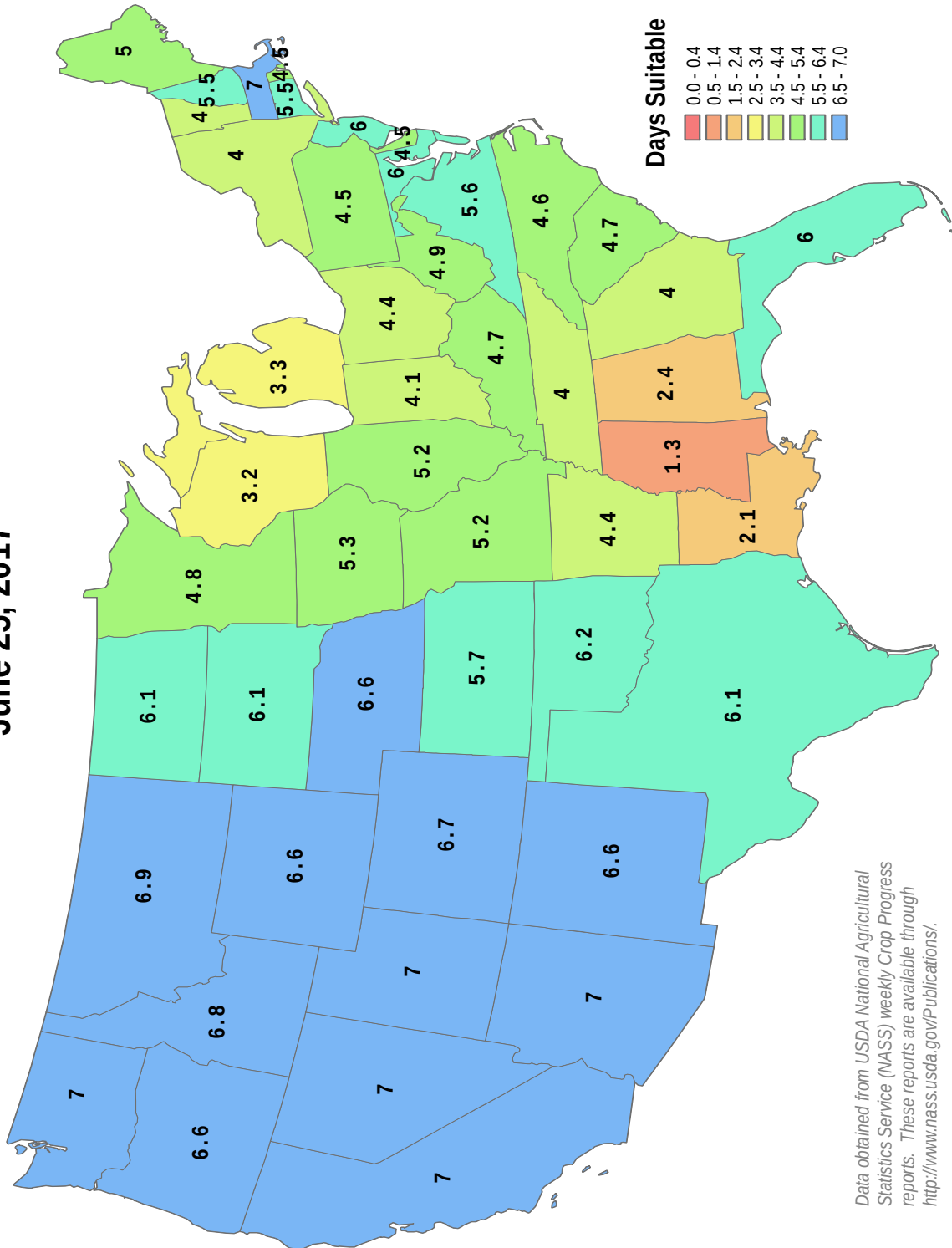
Weekly U.S. Progress and Condition Data provided by USDA/NASS

## Days Suitable for Fieldwork

Week Ending  
June 25, 2017



This product was prepared by the  
USDA Office of the Chief Economist (OCE)  
World Agricultural Outlook Board (WAOB)



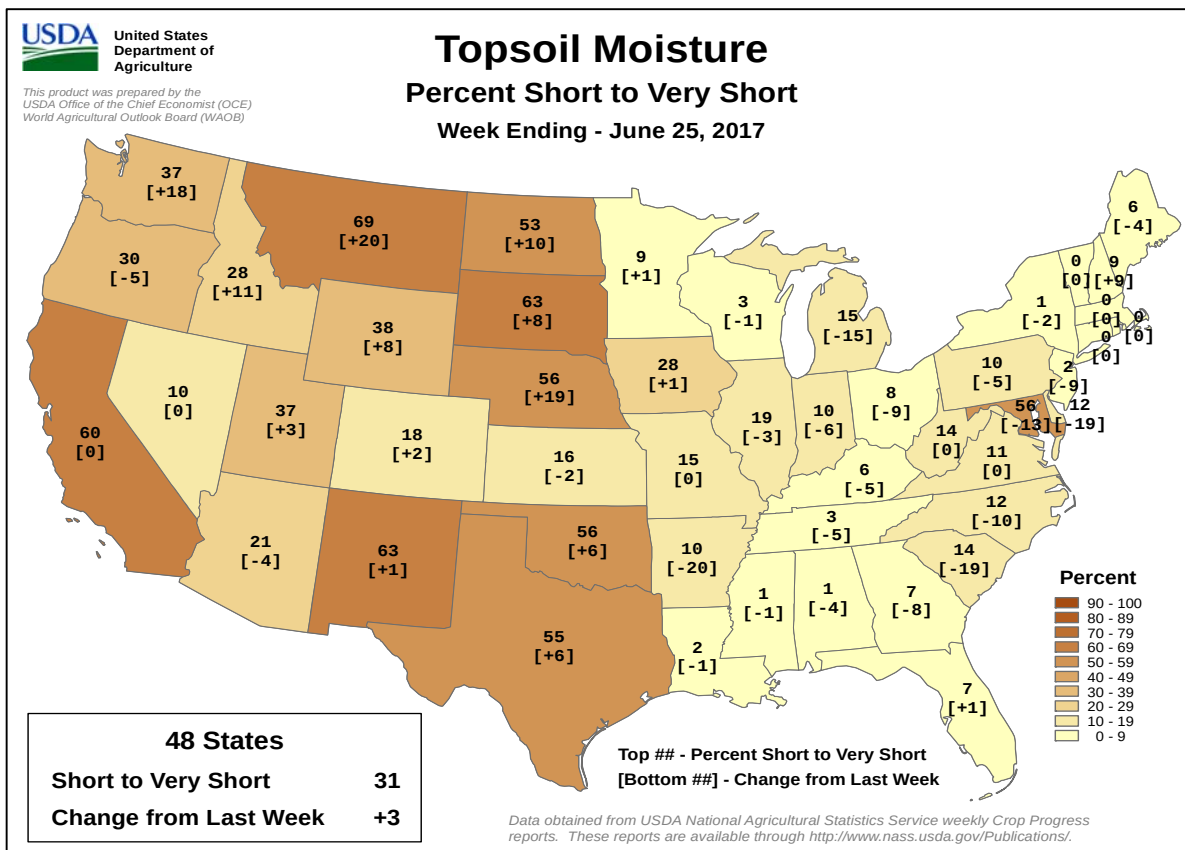
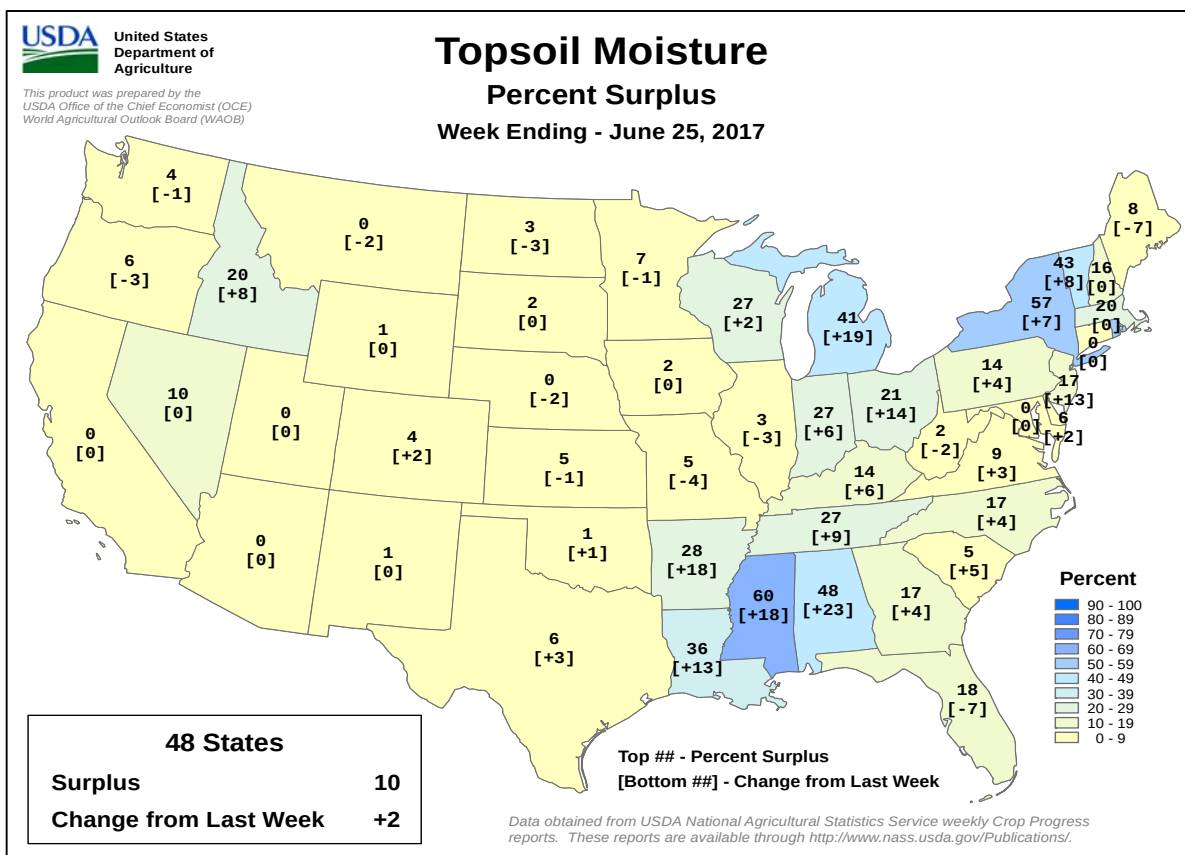
Data obtained from USDA National Agricultural  
Statistics Service (NASS) weekly Crop Progress  
reports. These reports are available through  
<http://www.nass.usda.gov/Publications/>.



## Crop Progress and Condition

### Week Ending June 25, 2017

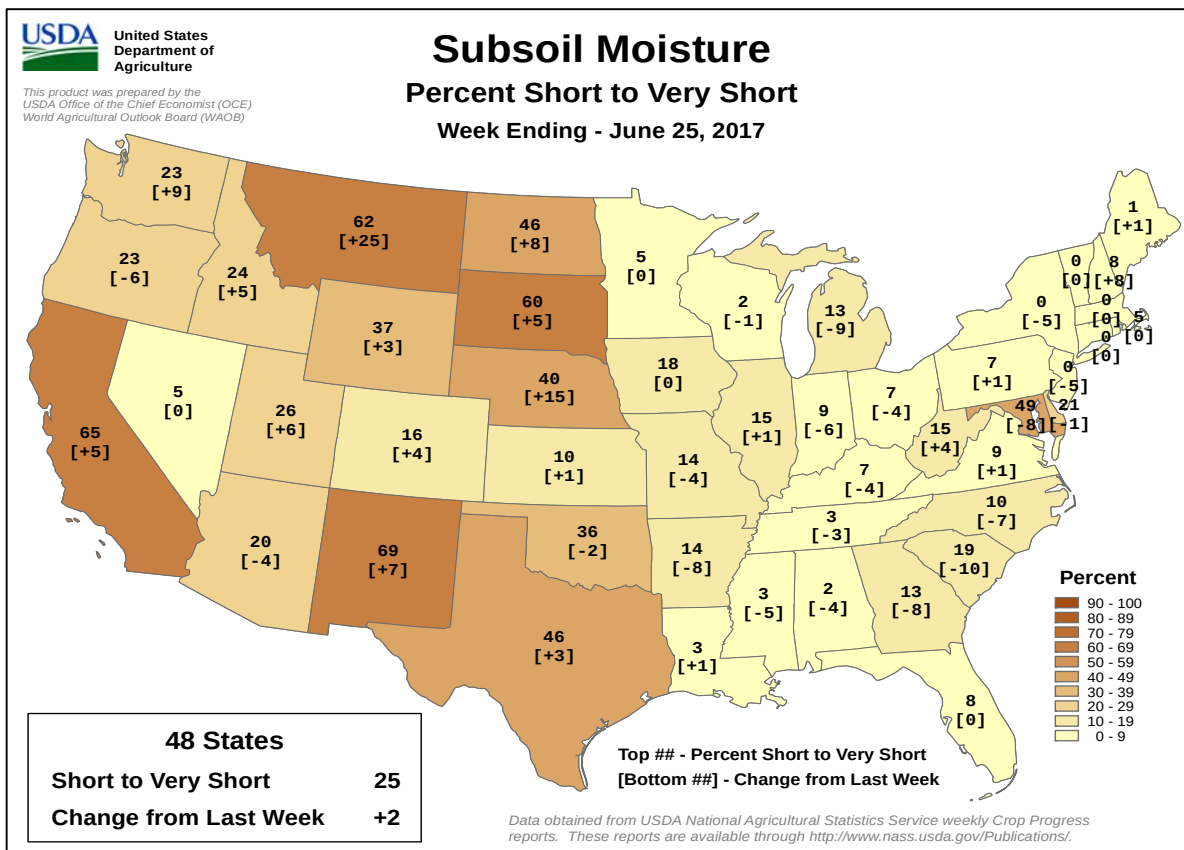
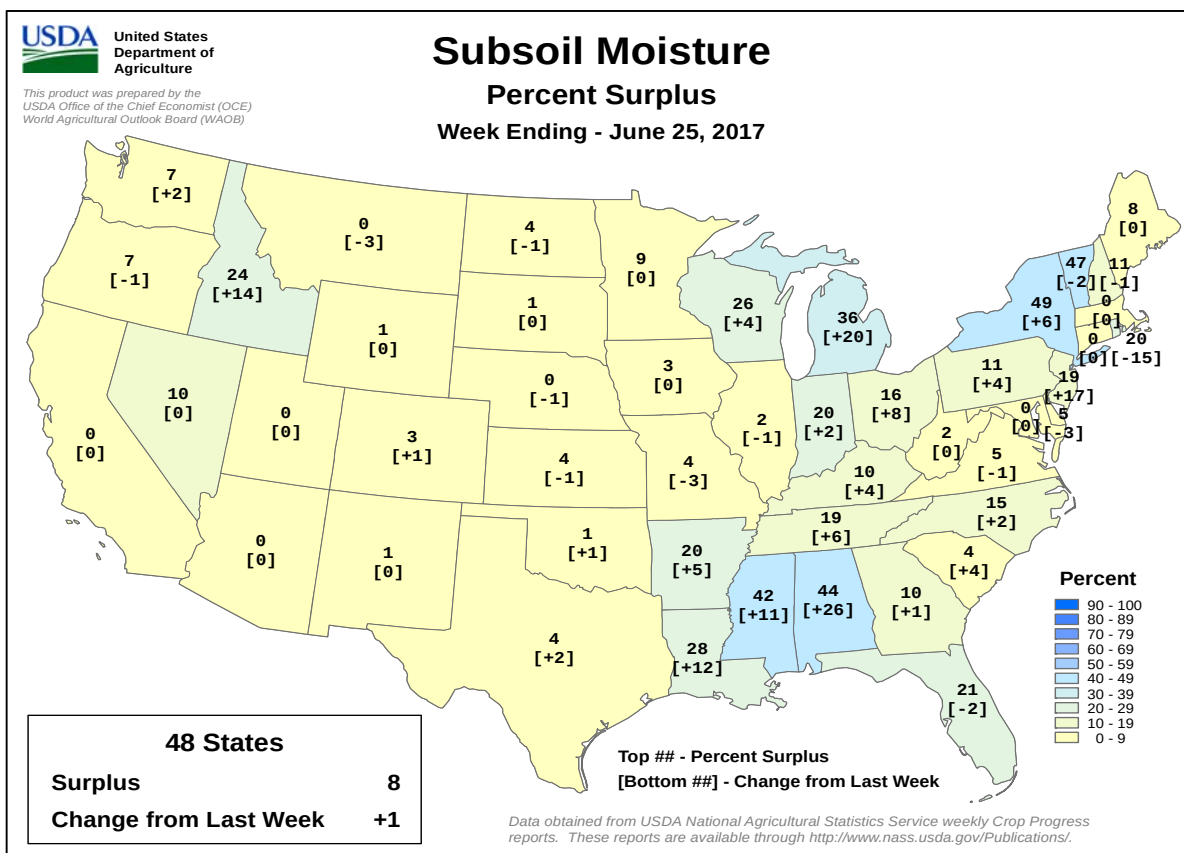
Weekly U.S. Progress and Condition Data provided by USDA/NASS



# Crop Progress and Condition

## Week Ending June 25, 2017

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



## International Weather and Crop Summary

June 18-24, 2017

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

### HIGHLIGHTS

**EUROPE:** Dry, hot weather promoted winter crop drydown and harvesting but cut summer crop yield potential across Spain, France, and Italy.

**WESTERN FSU:** Cool, showery weather in Russia benefited vegetative summer crops but hampered winter wheat drydown and harvesting, while drought intensified in north-central Ukraine.

**EASTERN FSU:** Showers benefited vegetative spring grains in the north, while sunny, seasonably hot weather promoted cotton development in southern portions of the region

**MIDDLE EAST:** Widespread showers in Turkey maintained good early-season prospects for summer crops but hampered winter wheat drydown and harvesting.

**SOUTH ASIA:** The monsoon spread into western India but continued to lag in parts of the northeast.

**EAST ASIA:** Showers throughout eastern China maintained or improved soil moisture for summer crops.

**SOUTHEAST ASIA:** Monsoon showers kept rice and other summer crops well watered.

**AUSTRALIA:** Some showers fell across the west and east, but more abundant and frequent rain was needed to promote early-season crop development.

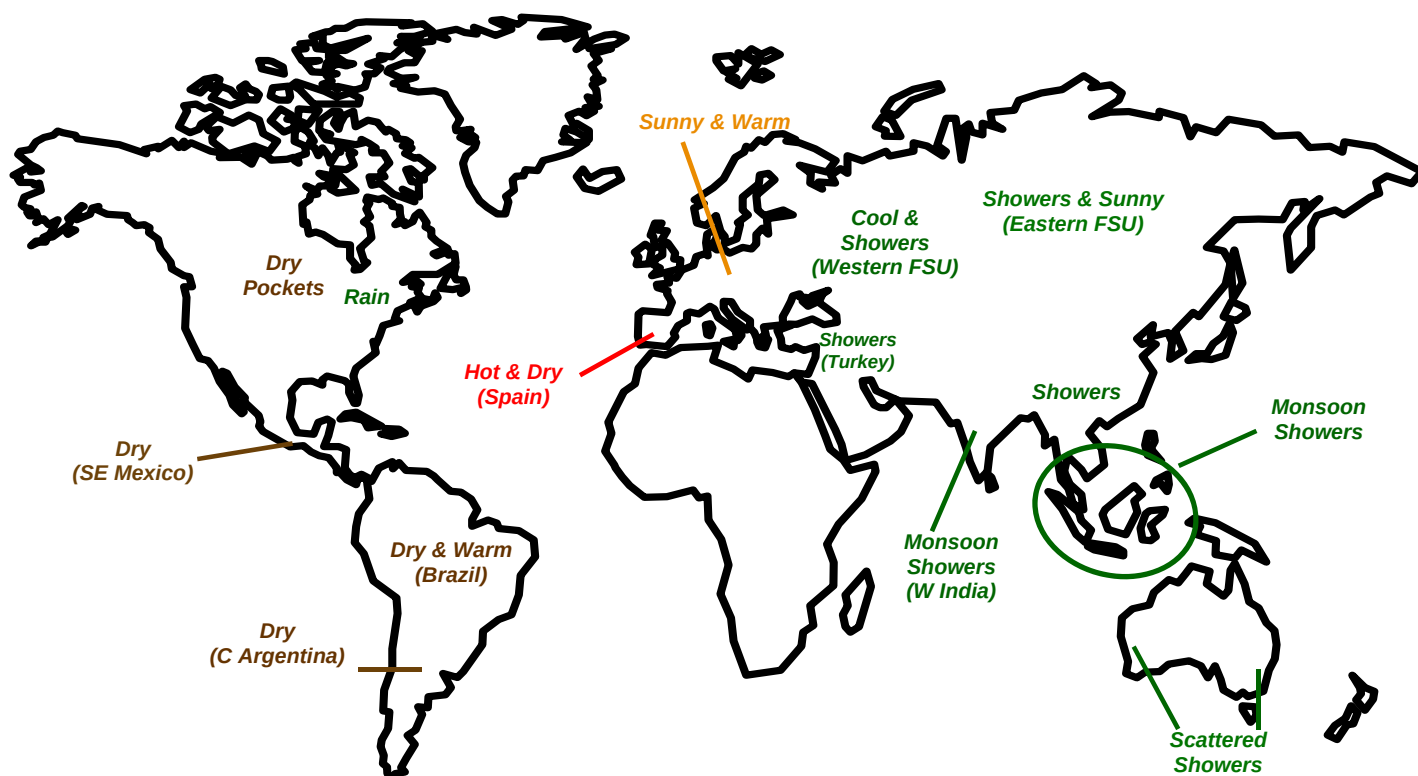
**ARGENTINA:** Mostly dry weather supported summer crop harvests.

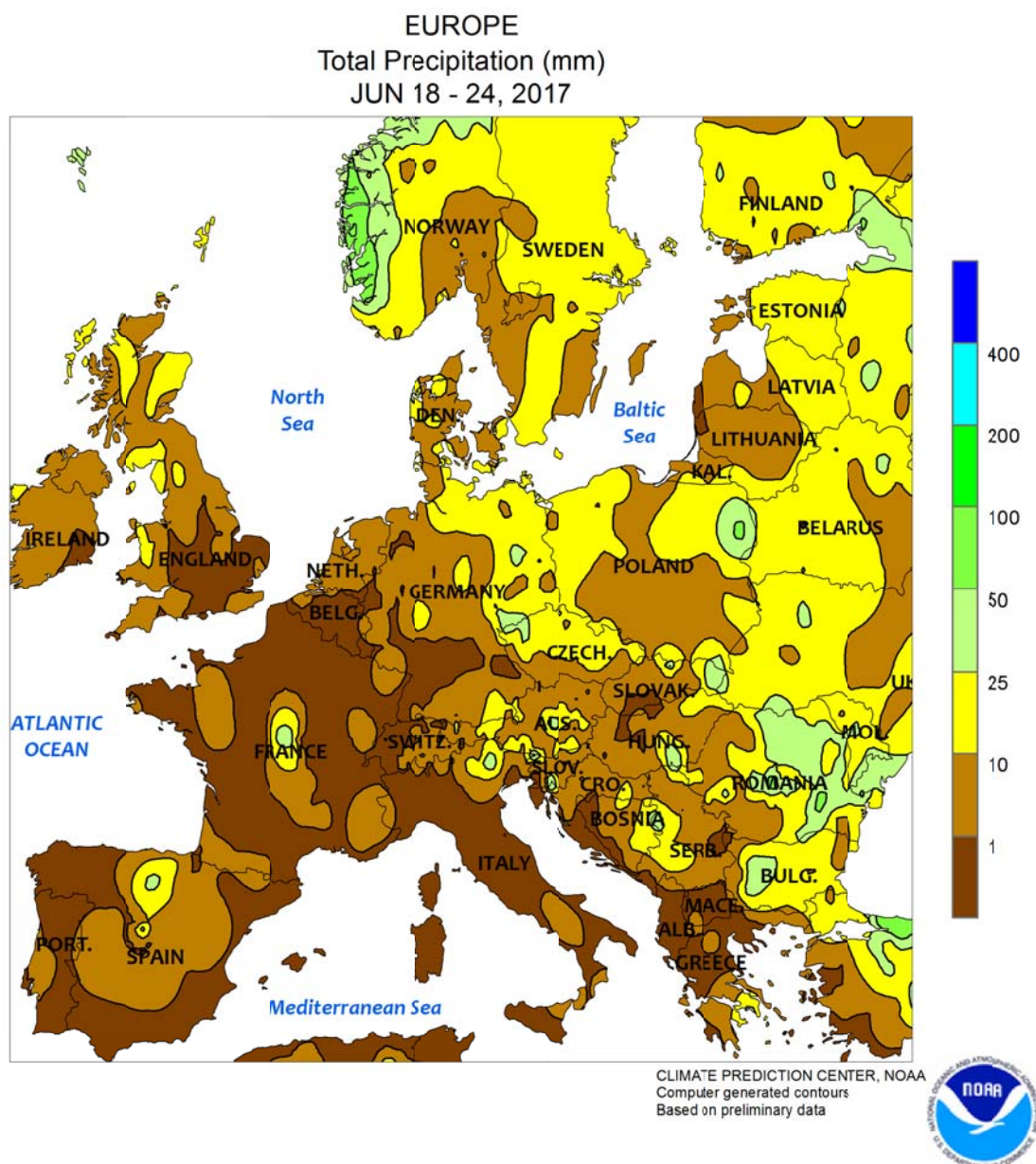
**BRAZIL:** Warmth and dryness promoted seasonal fieldwork in nearly all agricultural areas.

**MEXICO:** Dryness on the southern plateau limited moisture for corn establishment.

**CANADIAN PRAIRIES:** Rain was needed for spring crop establishment in some southern growing areas, but lingering wetness remained a problem farther north.

**SOUTHEASTERN CANADA:** Rain continued, but soybean planting was nearly complete in Ontario and Quebec.



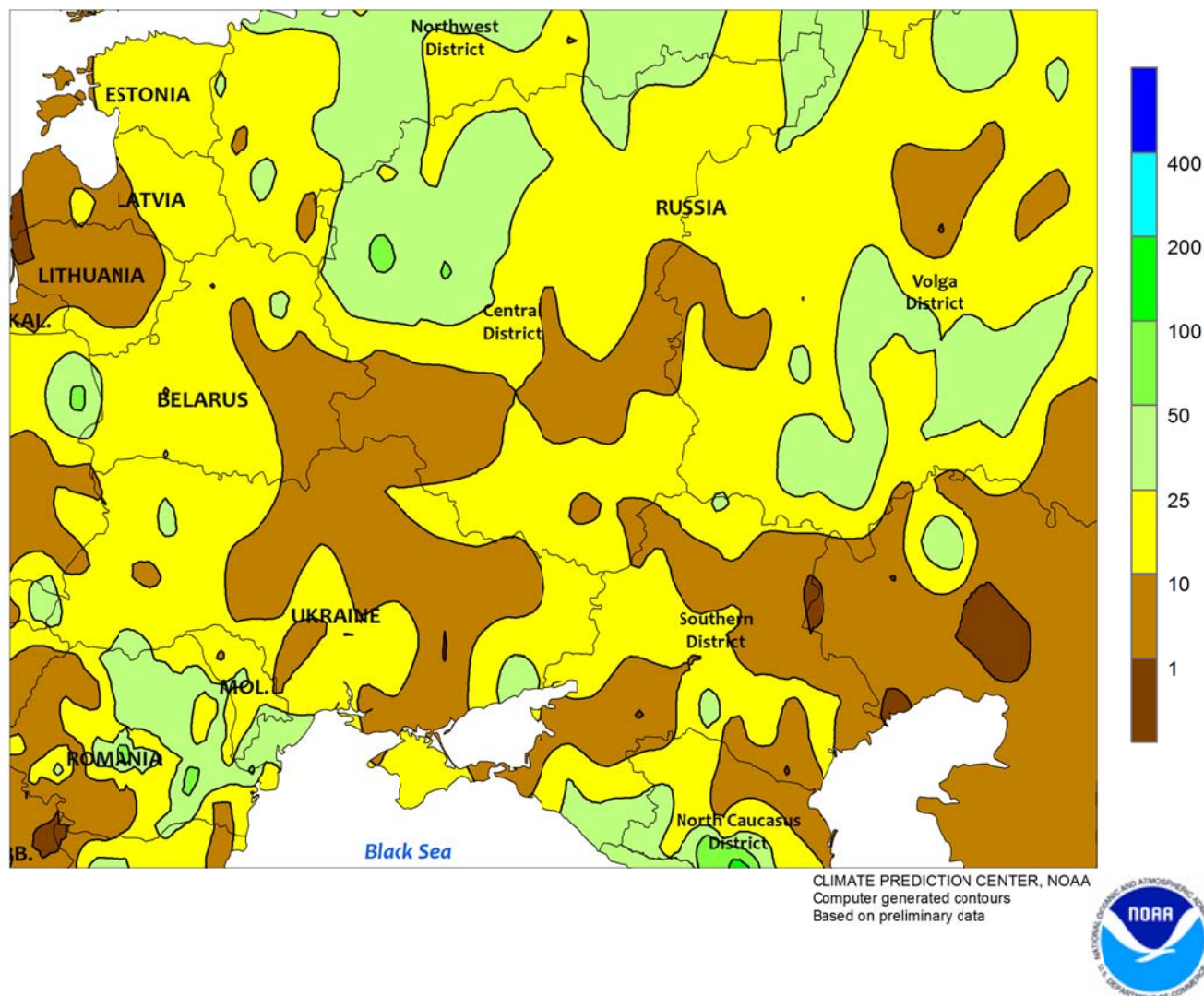
**EUROPE**

Dry, excessively hot weather adversely impacted spring grains and summer crops across the western half of the continent, while showers maintained favorable growing conditions in eastern Europe. Temperatures during the 7-day period averaged 5 to 9°C above normal over western and central Europe. Daytime highs topped 40°C in central and southern Spain, while temperatures reached into the middle and upper 30s from northern Italy into France and western Germany. The heat was most detrimental on the Iberian Peninsula, where summer crops were approaching or progressing through reproduction 2 to 4 weeks ahead of average. In Spain, crops most likely impacted by the June heat wave included: vegetative (north) to reproductive corn was exposed to 14 days of highs greater than 35°C; budding to reproductive sunflowers in central and southern Spain were subjected to 13 days above 38°C; squaring to flowering

cotton in southern Spain (Andalucía) was impacted by 8 days of 40-degree heat since June 12. As a result, heat and drought have lowered summer crop yield potential over most of the Iberian Peninsula, though the arrival of cooler weather on June 26 signaled an end to the record-setting heat wave. Excessive heat (36-38°C) also pushed into key summer crop areas of southwestern France, but corn had not yet reached the temperature-sensitive tassel stage. Warmth and dryness also cut the yield potential for non-irrigated summer crops in northern Italy, though the heat (31-37°C) has not been as widespread or intense. On the other hand, the sunny, hot weather facilitated winter crop drydown and harvesting, particularly over northern France and southeastern England. Meanwhile, widespread showers (3-20 mm, locally more) over eastern Europe moistened topsoils for vegetative summer crops in advance of the approaching heat.



WESTERN FSU  
Total Precipitation (mm)  
JUN 18 - 24, 2017



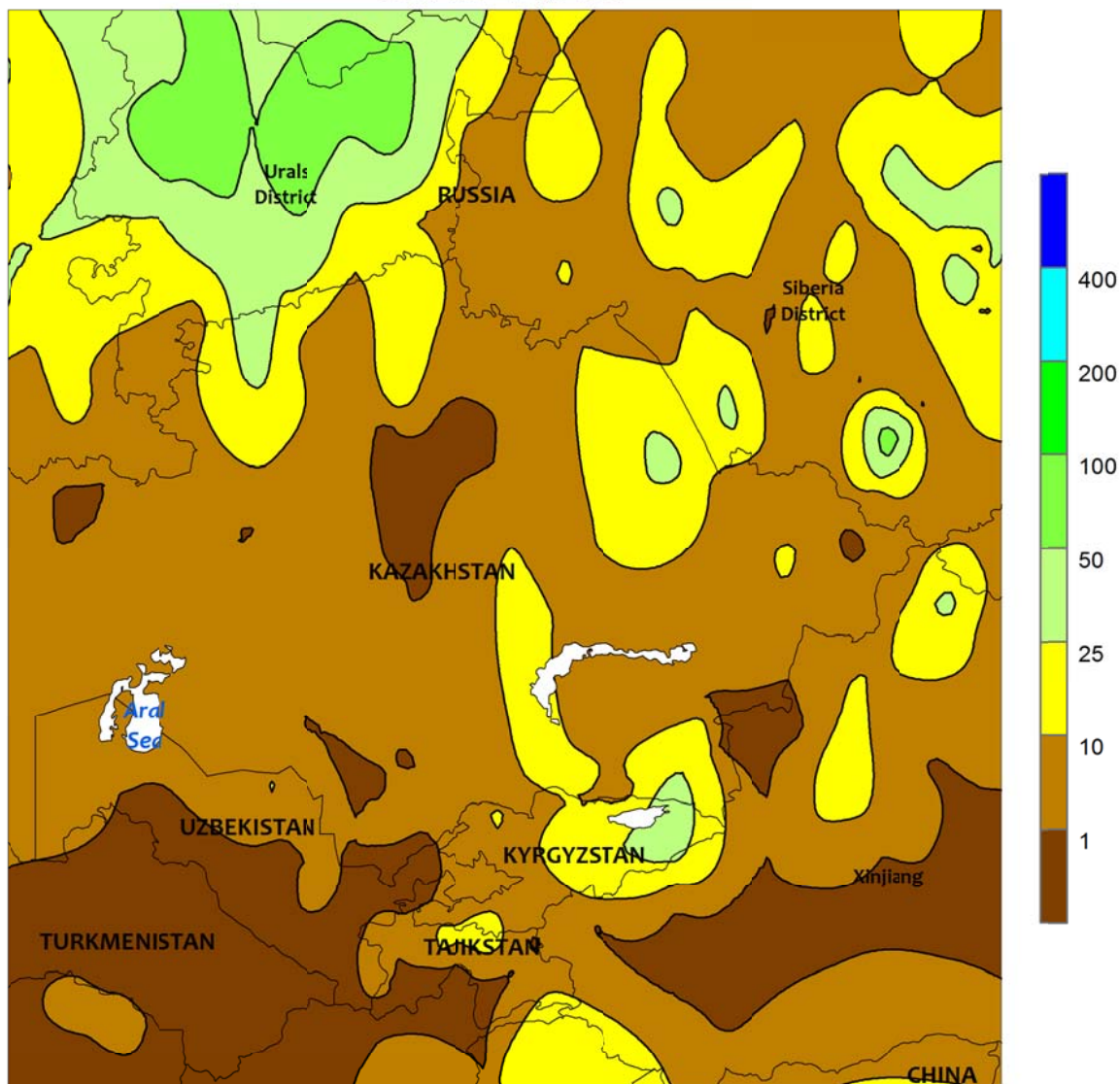
WESTERN FSU

Persistent wet weather in Russia contrasted with intensifying drought in north-central Ukraine. Over western and southern Russia's primary growing areas, another week with widespread moderate to heavy showers (5-50 mm, locally more) maintained adequate to abundant soil moisture for reproductive (north) to filling (south) winter wheat as well as vegetative small grains, corn, and sunflowers. However, the persistent wetness raised concerns over grain quality and made early drydown and harvesting efforts difficult. In Ukraine, moderate to heavy showers (10-40 mm) were reported in all but drought-afflicted north-central growing areas. As a result, crop areas bordering

Russia, Belarus, and the immediate Black Sea Coast continued to experience good to excellent growing conditions for vegetative corn and soybeans (north and west) as well as sunflowers (east). However, dryness and drought continued to adversely impact filling winter wheat and vegetative summer crops from west-central Ukraine into primary corn and soybean areas in north-central portions of the country (90-day rainfall locally less than 50 percent of normal). Latest satellite-derived vegetation health data depicted a sharp gradient between severe crop stress in north-central Ukraine and good to excellent vegetation health from the Black Sea Coast into eastern Ukraine.



EASTERN FSU  
Total Precipitation (mm)  
JUN 18 - 24, 2017



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

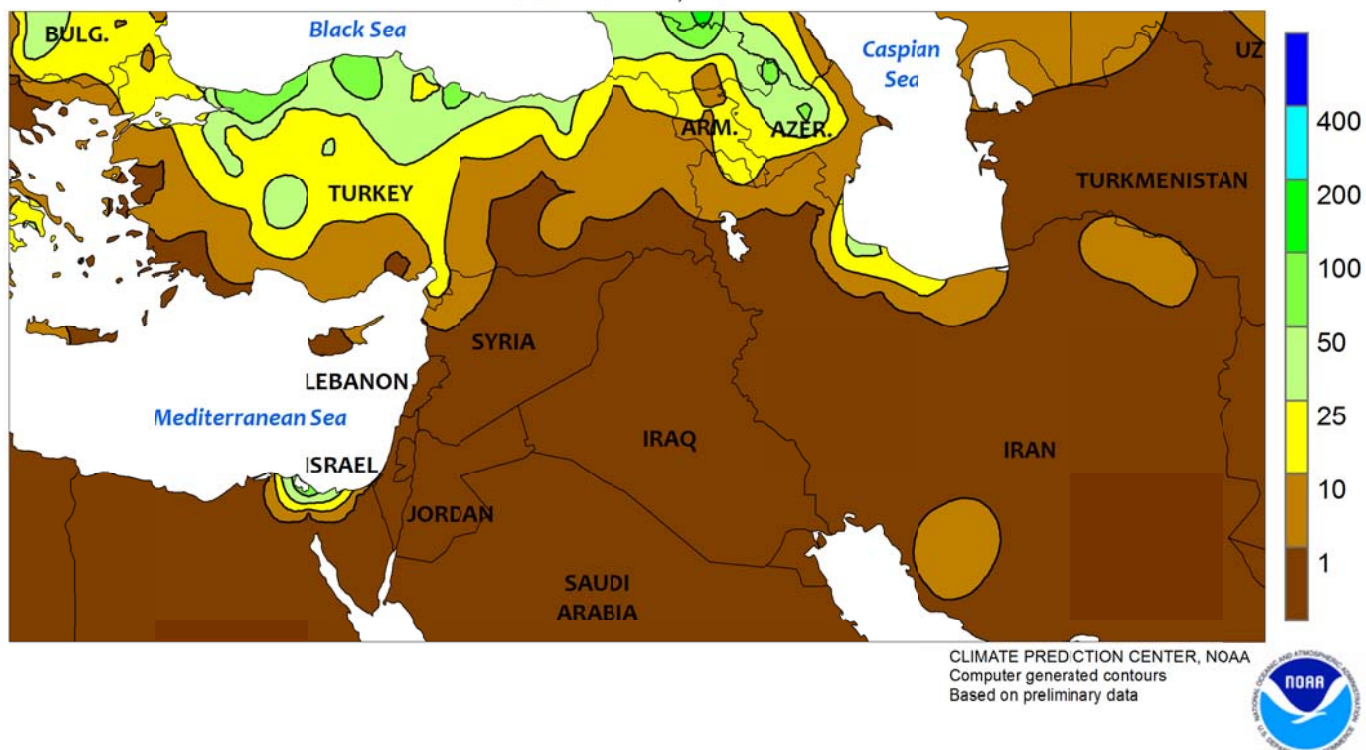


**EASTERN FSU**

Widespread showers in the north contrasted with sunny skies and seasonable heat in the south. A slow-moving cold front triggered 10 to 50 mm of rain over western spring grain areas, while more intermittent but locally heavy showers (2-33 mm) were reported in northeastern Kazakhstan and Russia's Siberia District. Moisture supplies remained good to excellent for

vegetative spring wheat and barley in northern Kazakhstan and neighboring portions of central Russia. Meanwhile, seasonably dry, hot weather (35-40°C) in Uzbekistan and southern Kazakhstan promoted the development of irrigated cotton, which was approaching the flowering stage of development by week's end.

MIDDLE EAST  
Total Precipitation (mm)  
JUN 18 - 24, 2017

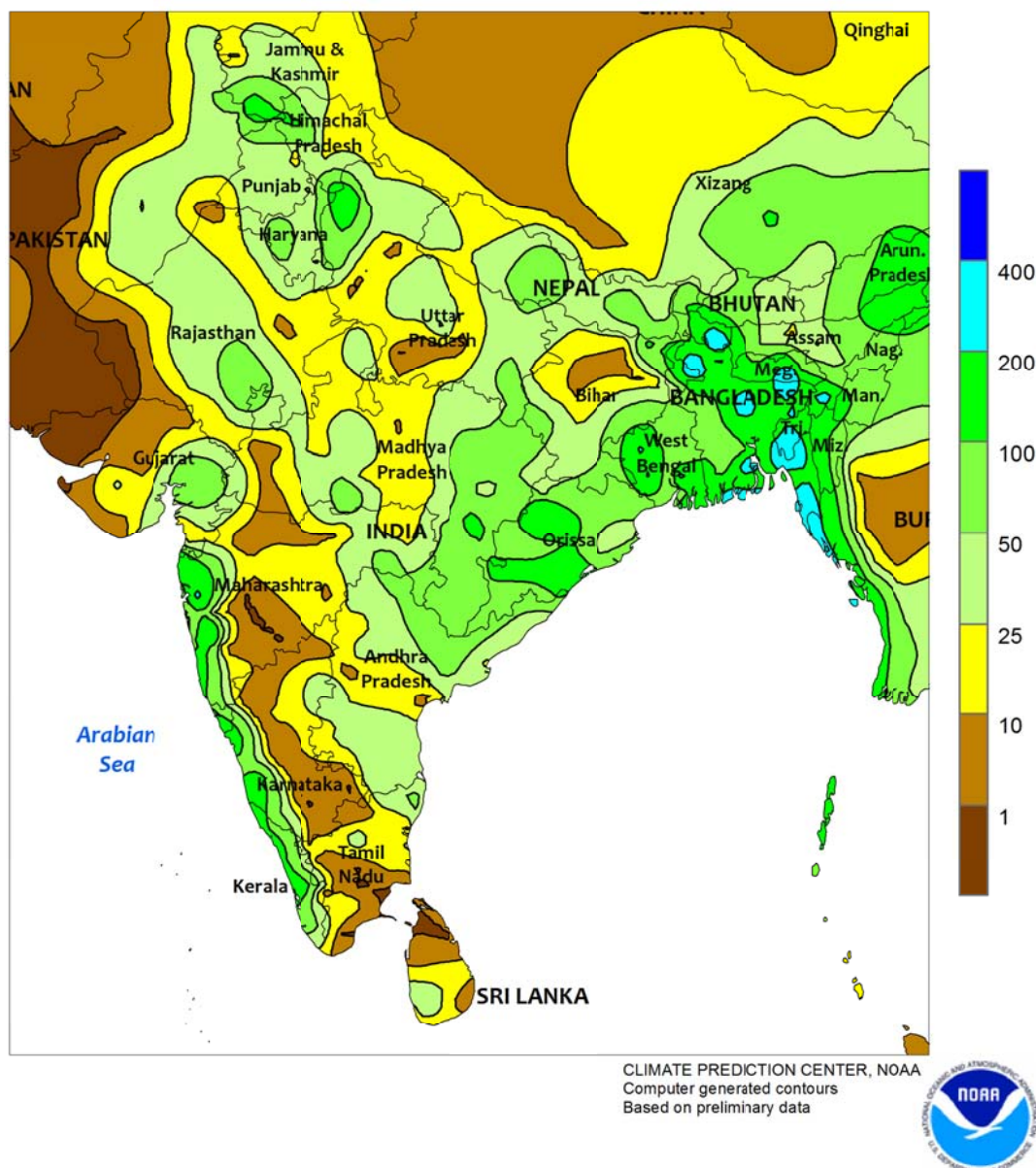


MIDDLE EAST

Additional late-season showers in Turkey maintained favorable conditions for summer crops but slowed winter grain maturation and drydown. Rain on central Turkey's Anatolian Plateau totaled 10 to 40 mm, hampering wheat and barley maturation and harvesting efforts. However, prospects for irrigated summer crops remained good to excellent due to the supplemental moisture; in particular,

satellite-derived vegetation health data indicated good to excellent prospects for vegetative corn (southeast), squaring cotton (west), and vegetative sunflowers (northwest). Elsewhere, sunny weather with seasonal heat and dryness favored late winter wheat harvesting in Iran but maintained high irrigation demands for specialty crops near the Mediterranean Coast.

SOUTH ASIA  
Total Precipitation (mm)  
JUN 18 - 24, 2017



### SOUTH ASIA

The monsoon surged into western India but still lagged in northeastern areas (Bihar and Uttar Pradesh) as reported by the Indian Meteorological Department. Despite the delayed onset in some areas, showers were widespread in India with pockets of drier weather interspersed. Most of the country received at least 10 mm of rain with eastern and northern states as well as the western coast receiving 25 to over 100 mm. The increase in soil moisture spurred cotton and oilseed planting in Gujarat,

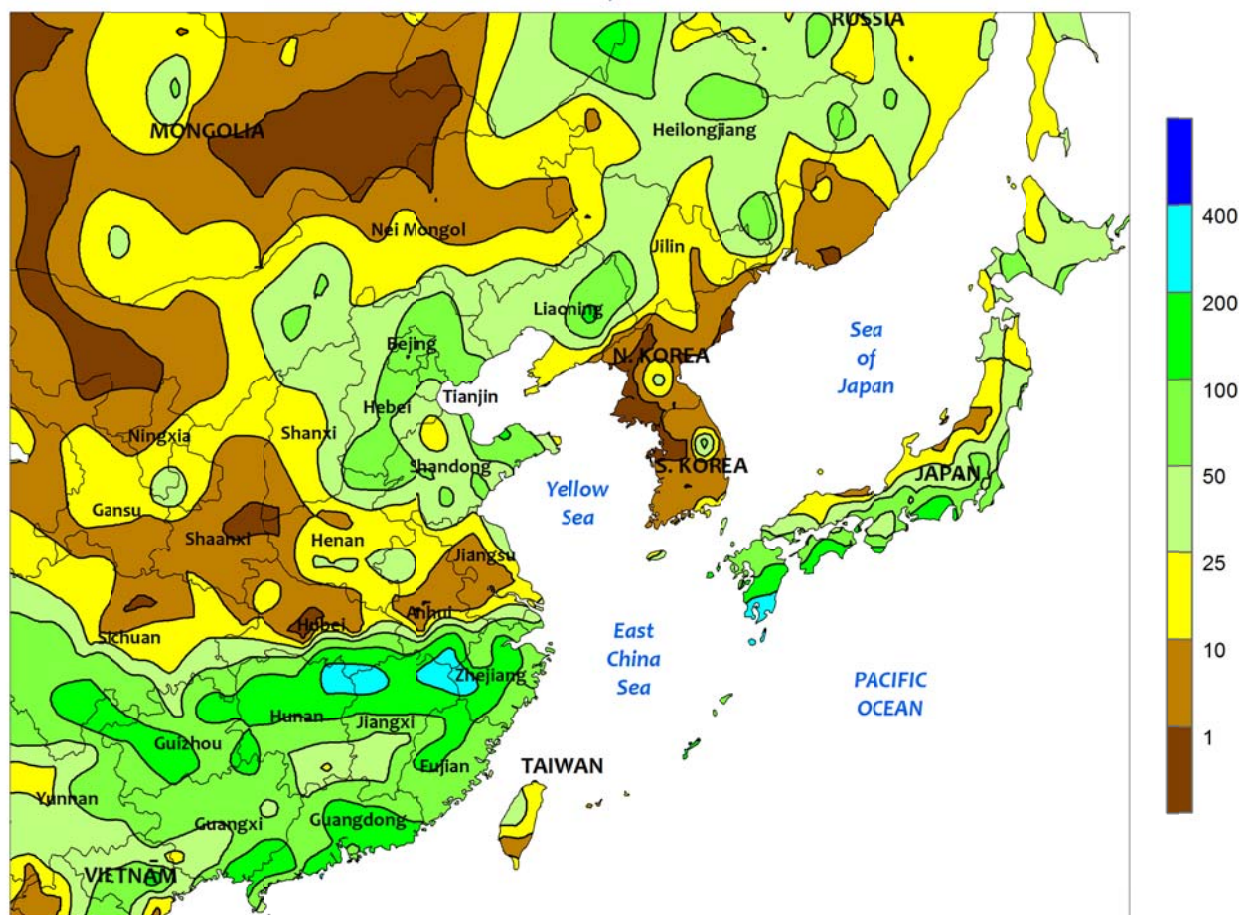
Madhya Pradesh and Maharashtra; planting typically won't begin in earnest until July. Even with the increasing showers, the delay in the monsoon left many crop areas with rainfall deficits for June thus far. Meanwhile in other parts of the region, flooding rainfall (50-200 mm) returned to Bangladesh maintaining concerns over reduced rice production, while more seasonable showers (10-25 mm or more) benefited rice and cotton in Pakistan and rice in southwestern Sri Lanka.



## EASTERN ASIA

Total Precipitation (mm)

JUN 18 - 24, 2017



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

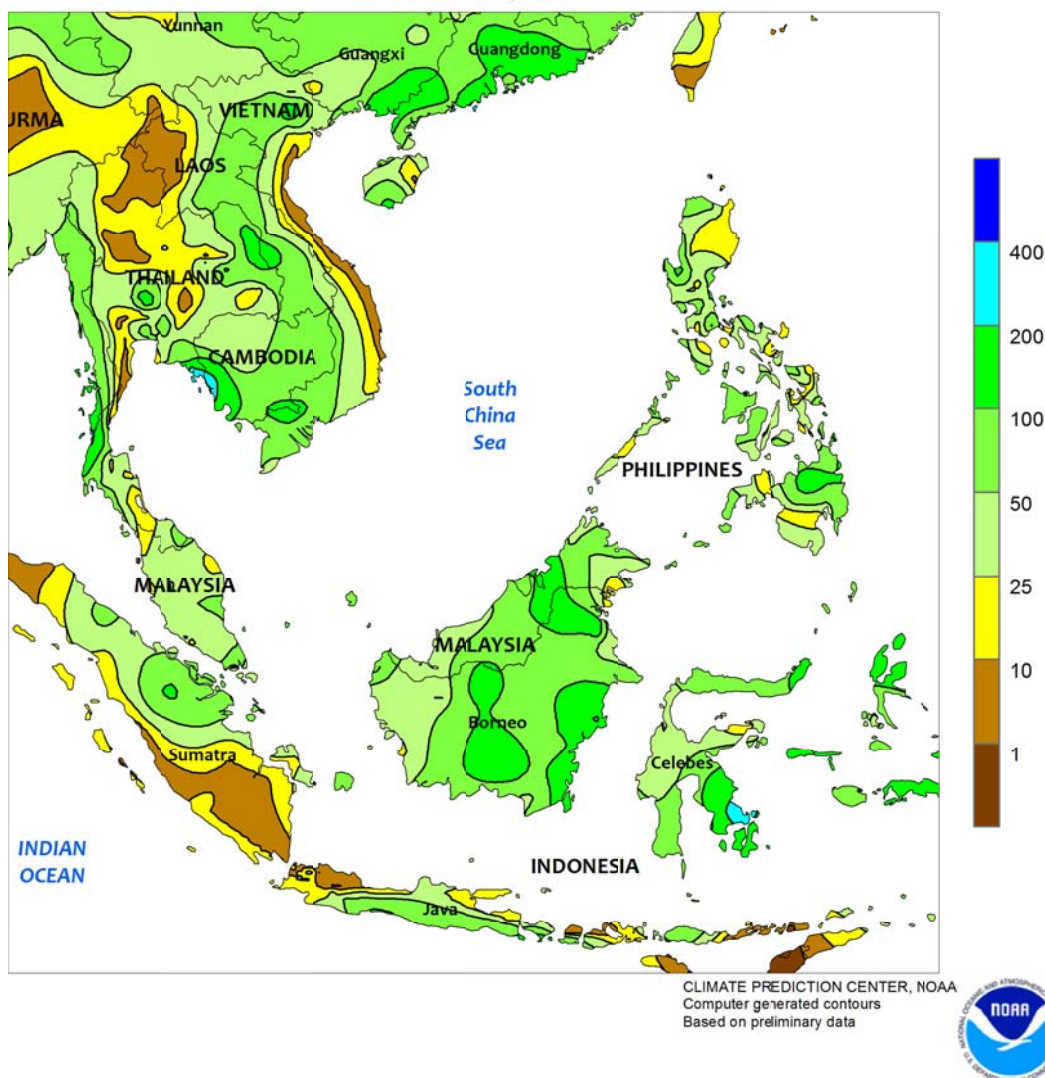


## EASTERN ASIA

Wet weather overspread much of eastern China, benefiting summer crops. In northeastern China, 10 to locally over 50 mm of rain increased soil moisture for vegetative corn and soybeans. The moisture was particularly welcomed in southern and western prefectures following nearly four weeks with little to no rainfall. Farther south, showers on the North China Plain (10-25 mm south, 25-50 mm north) slowed lingering wheat harvesting but further improved soil moisture for corn, groundnut, and other summer crop sowing. Meanwhile, heavy showers (50-200 mm or more) in southern China maintained or improved water supplies for rice, although Jiangxi, Guangdong, and Guangxi

were still experiencing rainfall deficits (beginning May 1). In addition, little if any rainfall in Hubei and neighboring sections of Anhui and Jiangsu increased short-term (less than 4 weeks) dryness. Elsewhere in the region, dry weather persisted on the Korean Peninsula, where rainfall totals since May 1 have been less than 50 percent of normal; and while irrigation supplies were reportedly sufficient for rice development, more rain would be welcome. In contrast, increased showers in Japan (25-50 mm, more in the south) improved soil moisture and water supplies for rice following a drier-than-normal start to the growing season.

SOUTHEAST ASIA  
Total Precipitation (mm)  
JUN 18 - 24, 2017

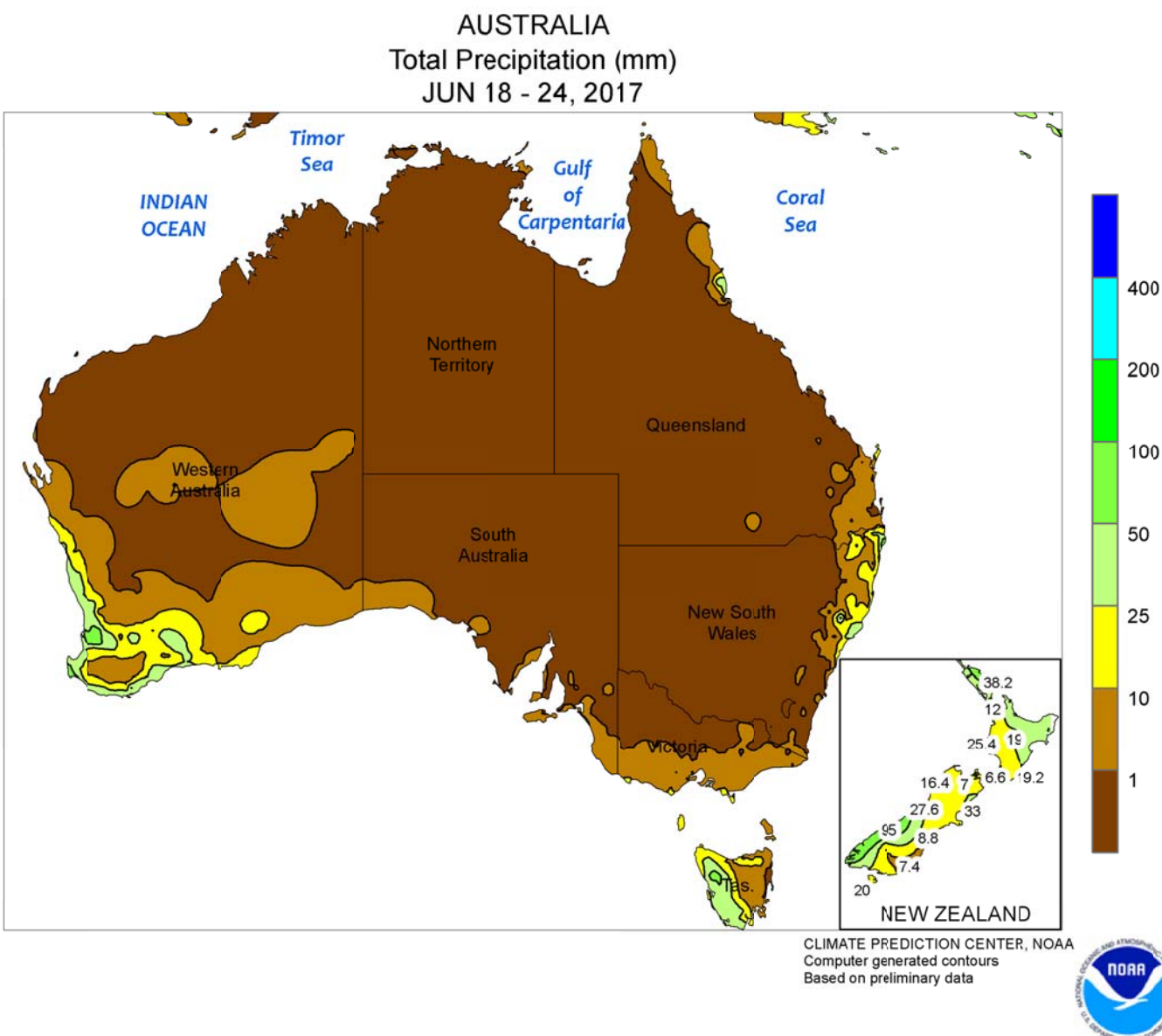


### SOUTHEAST ASIA

Seasonal showers maintained favorable moisture conditions and water supplies for rice and other summer crops across Indochina and the Philippines. Rainfall eased somewhat in Thailand; with most of the country received 10 to 25 mm, with portions of the Central Plain and Northeast Region receiving over 50 mm. Showers were lighter (less than 10 mm) in the far northern districts but seasonal totals since May 1 remained above normal. Rainfall remained heavier (25-100 mm or more) in Cambodia, Laos, and Vietnam, keeping rice well watered. In the Philippines, showers returned to nearly all regions, with 25 to

over 50 mm of rain recorded in Luzon, the Visayan Islands, and Mindanao. All major rice and corn areas continued to report seasonal (since May 1) rainfall totals near to well above normal. Meanwhile, showers across oil palm areas of Malaysia (25-50 mm west, 50-100 mm east) maintained or improved soil moisture for trees. The wet weather was especially welcomed in the west, where rainfall has been below normal for most of June. In addition, showers (25-100 mm) in most major oil palm areas of Indonesia maintained favorable soil moisture, although portions of southern Sumatra were dry.

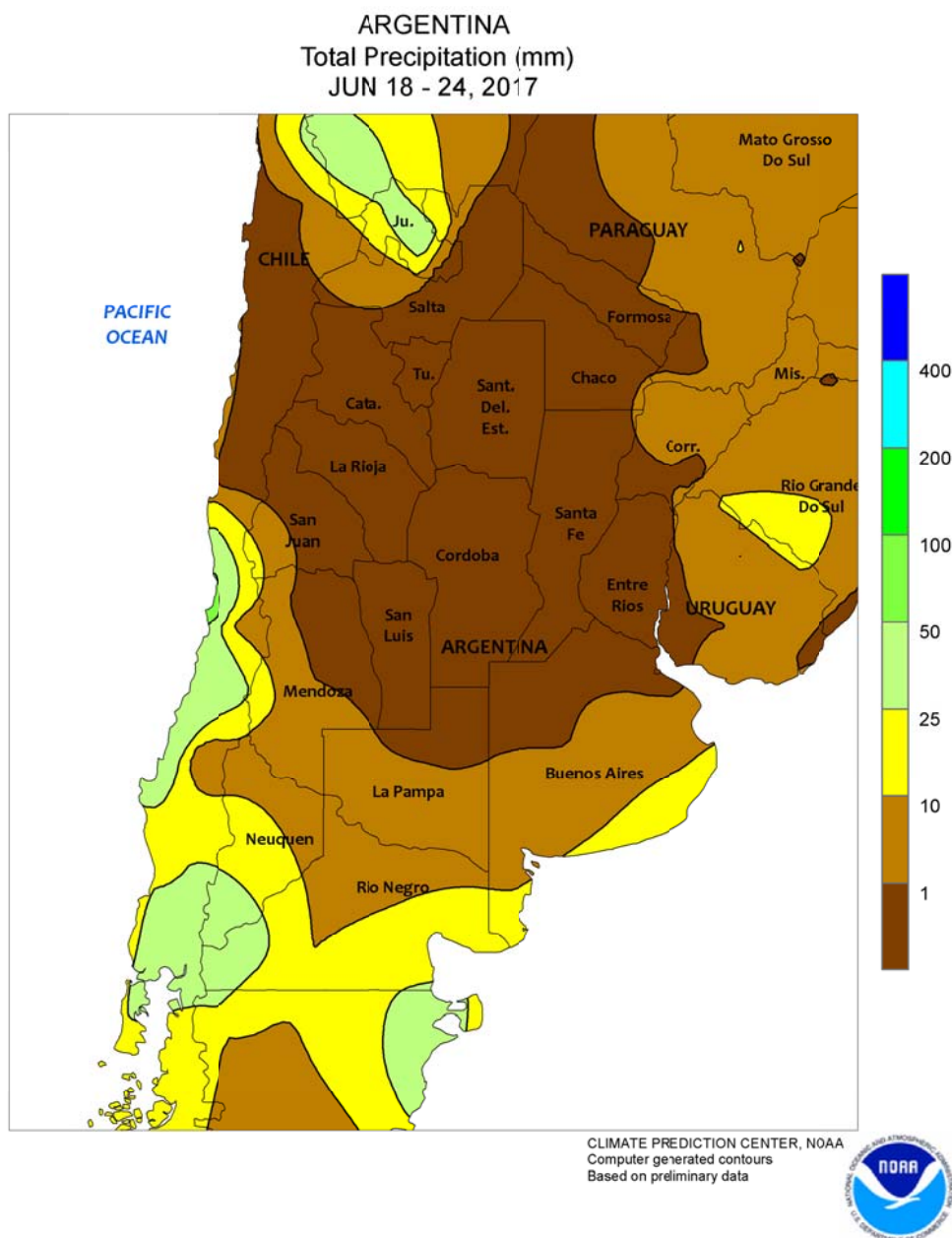




### AUSTRALIA

For the second consecutive week, scattered showers (5-25 mm) overspread Western Australia, helping to moisten topsoils for vegetative wheat, barley, and canola. Rainfall has been well below normal in this region since May 1, averaging about 30 percent of normal. Consequently, this week's rainfall was welcome, but continued rainfall is necessary to promote uniform crop emergence and establishment. Farther east, scattered showers overspread South Australia and northern Victoria, but the rainfall was generally light (1-10 mm). Similar to Western Australia, more frequent, soaking rains are

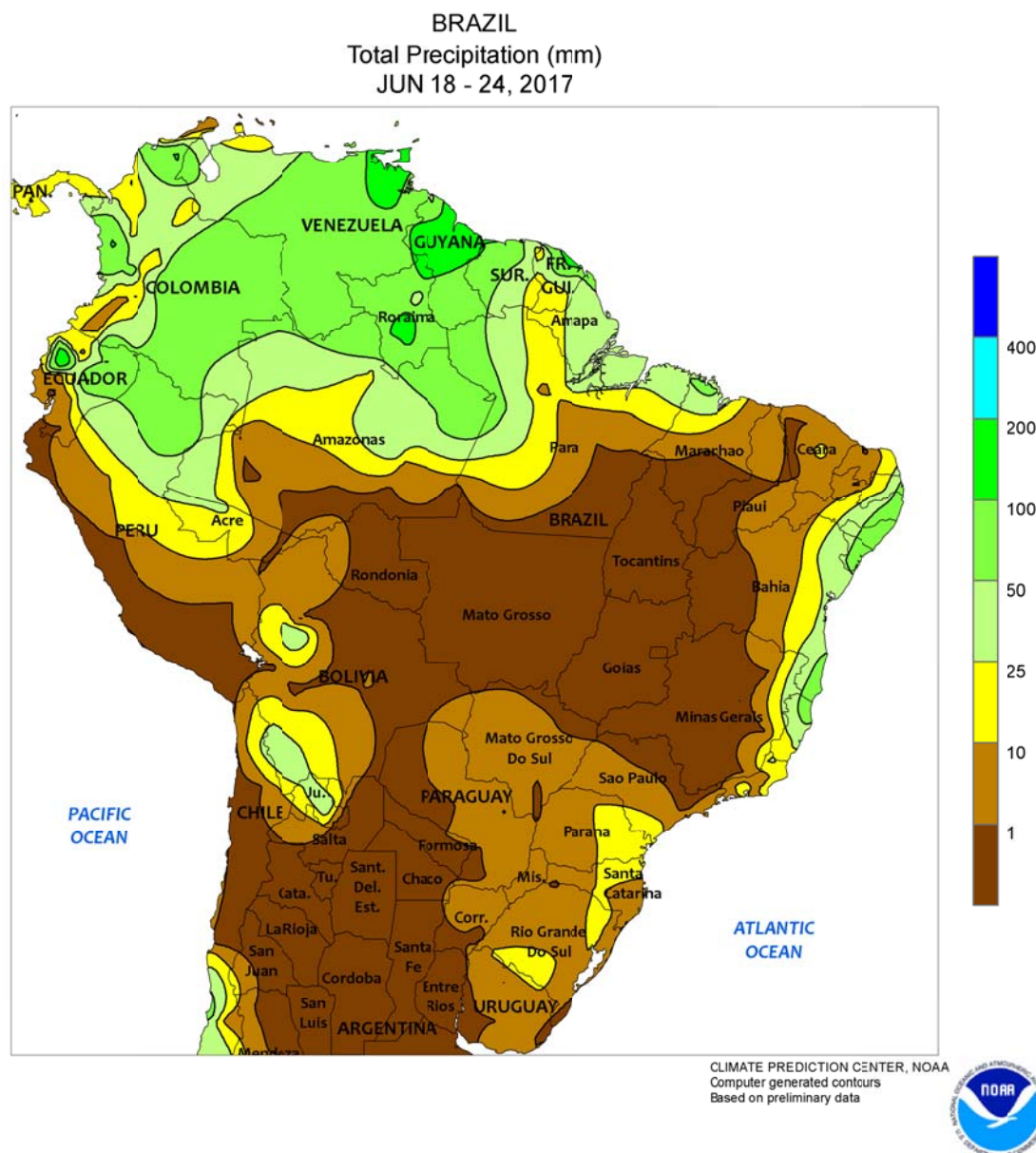
needed throughout this region to promote early-season crop development. Elsewhere in the wheat belt, dry weather prevailed throughout most of New South Wales and southern Queensland, with showers (10-25 mm) mainly confined to easternmost areas. The dryness allowed fieldwork to proceed without delay but was unfavorable for recently planted wheat and other winter crops. Comparable to the other regions, more rain would be welcome throughout eastern Australia to spur early crop development. Temperatures in Australia's wheat belt averaged near to above normal (up to 2°C above normal).



### ARGENTINA

Dry weather dominated much of the country, favoring drydown and harvesting of corn, soybeans, and cotton. Similar to last week, rain (5-20 mm) was confined to southern production areas of Buenos Aires, where wheat and barley planting was underway. Virtually no rain fell elsewhere. Weekly average temperatures were near to below normal in western agricultural areas (La Pampa to Salta), due to an early-week cold snap that dropped nighttime lows below  $-5^{\circ}\text{C}$  as far north as Santiago del Estero. Warmer weather returned during the latter half of the

week, with daytime temperatures across the north ranging from  $25$  to  $30^{\circ}\text{C}$  on several days. According to the government of Argentina, corn and soybeans were 62 and 97 percent harvested, respectively, as of June 22. In addition, wheat planting advanced to 46 percent complete, slightly behind last year's pace (48 percent). Planting reached 28 percent complete in Buenos Aires — Argentina's largest producer — 10 points ahead of last year's pace. Similarly, barley in Buenos Aires was 34 percent planted versus 21 percent at this time last season.

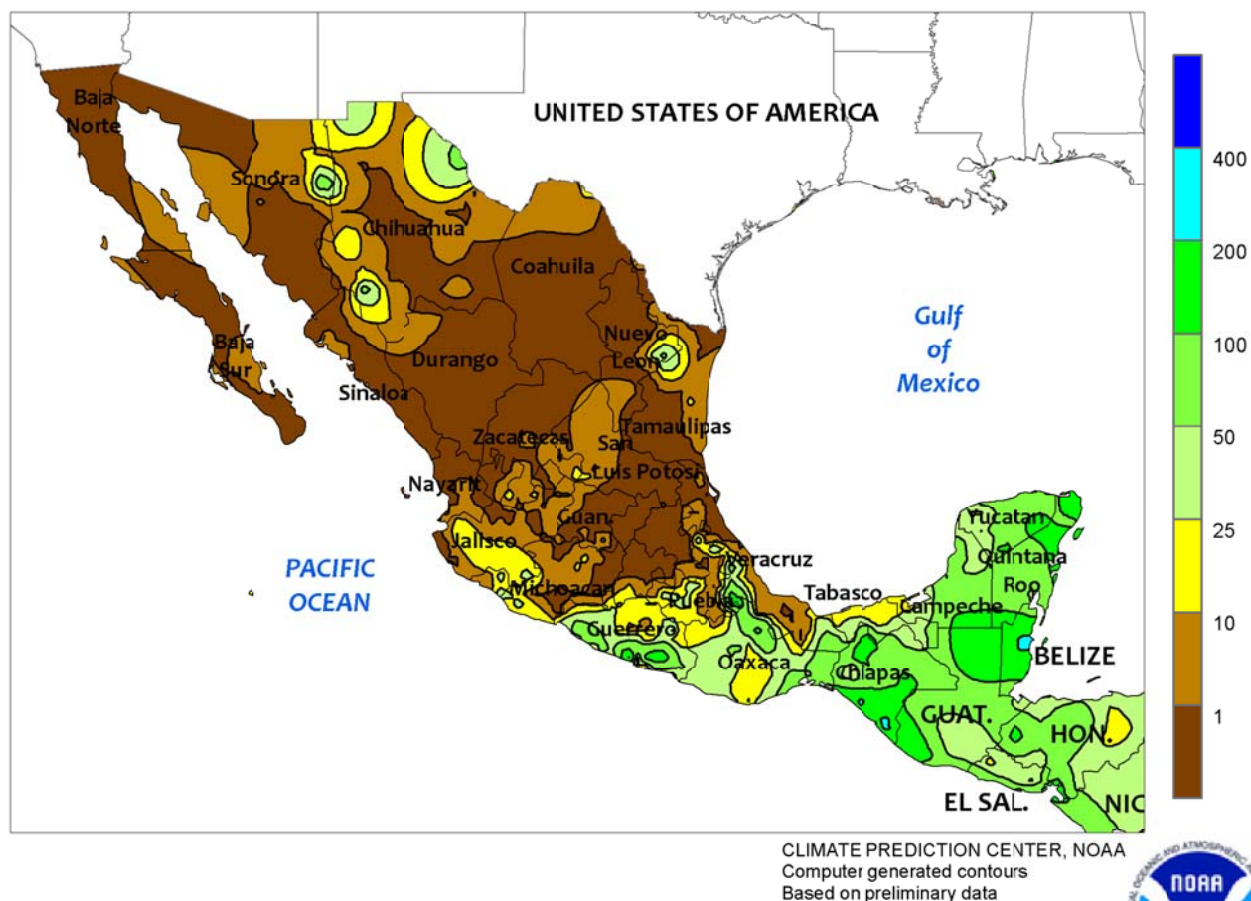


### BRAZIL

Dry weather dominated nearly all agricultural areas, favoring a rapid pace of seasonal fieldwork. For a second week, little to no rain fell in the main winter wheat areas of Rio Grande do Sul; as reported by the government on June 22, planting of wheat jumped nearly 40 points to 53 percent complete but still lagged the average pace of 74 percent. Mostly dry weather also prevailed in Parana's western farming areas, with light showers (greater than 10 mm) confined to the east. Virtually no rain fell from Sao Paulo and Mato Grosso do Sul northward to Mato Grosso and the northeast interior. The dryness was accompanied by near- to above normal-temperatures, with

daytime highs reaching the middle 30s (degrees C) from Mato Grosso and Goias northeastward to Maranhao and Piaui. The warmth and dryness further improved conditions for sugarcane and coffee harvesting in major production areas of Sao Paulo and Minas Gerais. In the Center-West and northeastern interior regions, the seasonable weather prompted rapid development of second-crop corn and cotton. Elsewhere, seasonal showers (10-50 mm, locally higher) intensified along the northeastern coast (Rio de Janeiro northward), boosting moisture for coffee, cocoa, and other regionally important crops.

MEXICO  
Total Precipitation (mm)  
JUN 18 - 24, 2017



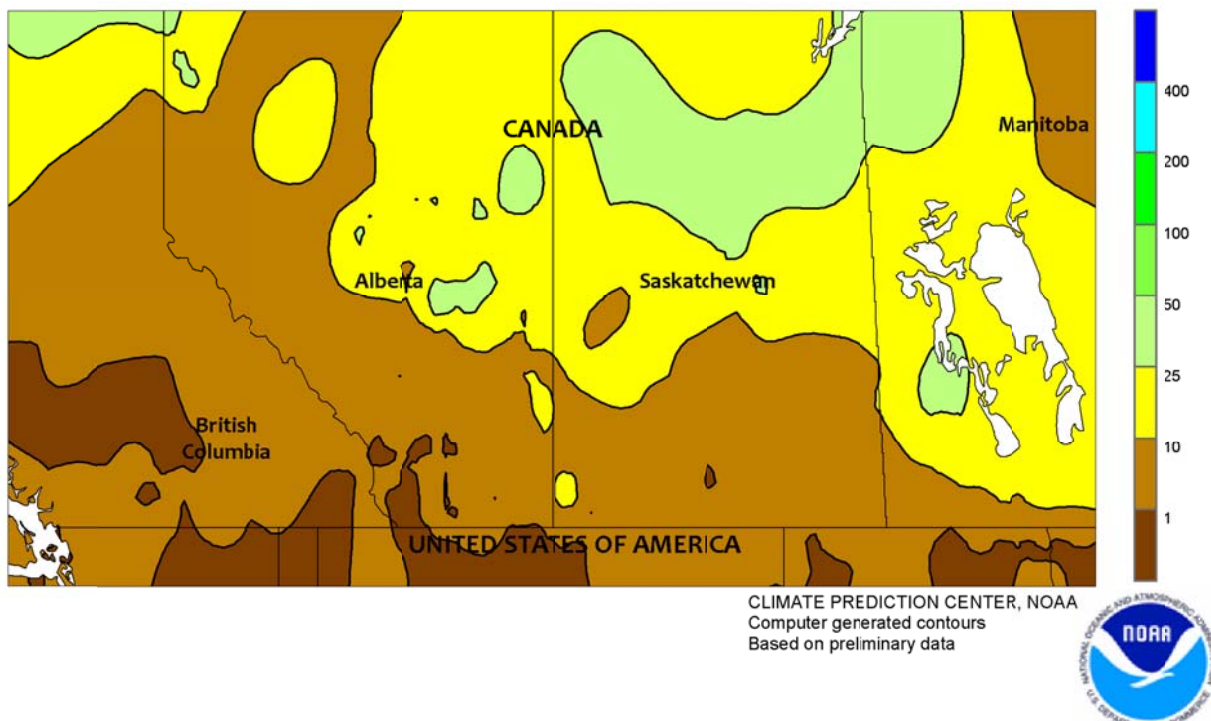
**MEXICO**

Showers tapered off from last week's levels across the southern plateau, reducing moisture for establishment of corn and other summer crops. Light rain (greater than 10 mm) lingered over parts of Jalisco, as well as from northern Guerrero to Puebla, but little to no rain was recorded elsewhere in the region. Daytime highs reaching the upper 20s and lower 30s (degrees C) exacerbated evaporative losses in the driest locations. On the year, much of the region has received near- to above-normal rainfall, though pockets of dryness have lingered in some northern and western locations. Elsewhere, moderate to heavy rain (10-50 mm, locally higher) fell along the southern Pacific Coast (Guerrero to Chiapas), though amounts were generally less

than those generated by last week's tropical storm remnants. Showers (25-50 mm in spots) also continued in the vicinity of southern Veracruz but drier conditions persisted in the northern half of the state, as well as most of northeastern Mexico (Tamaulipas and San Luis Potosi northwestward to Coahuila); hot weather (daytime highs reaching 40°C) accompanied the dryness, maintaining high evaporative losses and increasing moisture requirements for crops and livestock. The heat emanated from the northwest, where temperatures reached into the middle 40s in northern sections of Sonora and Chihuahua. Showers were generally scattered and light in northwestern watersheds, with just a few locations recording rainfall in excess of 10 mm.



CANADIAN PRAIRIES  
Total Precipitation (mm)  
JUN 18 - 24, 2017

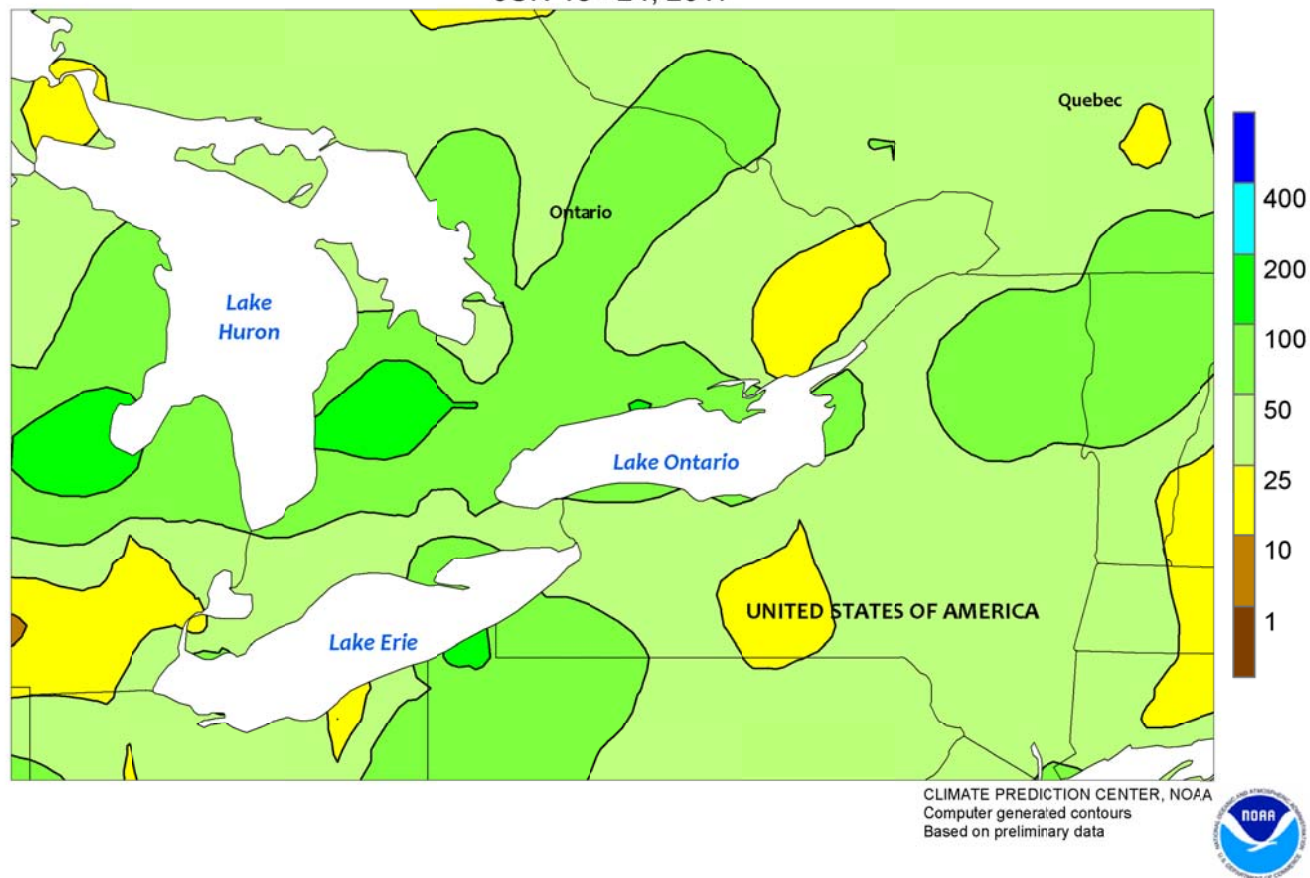


CANADIAN PRAIRIES

Unfavorably dry weather continued in southwestern agricultural districts, even as some more northerly production areas struggled with lingering wetness. The driest area continued to be southwestern Saskatchewan, which recorded little to no rain this week and has trended below normal since early May; this is reinforced by reports out of Canada as well as the *U.S. Drought Monitor*, which has closely followed the deteriorating conditions in adjacent areas in the United States northern High Plains. Dry weather was also recorded this week in southern sections of Alberta, southeastern Saskatchewan, and Manitoba, areas which received beneficial,

locally heavy rain last week. In contrast to the southern dryness, light to moderate rain (5-25 mm, locally higher) continued across northern agricultural districts, hindering the final stages of spring planting, cutting hay, and treatments for pests and diseases. Reports emanating from Canada indicated the continuation of waterlogging in some fields which, at this late point in the growing season, would likely go unplanted with a major spring crop. Weekly temperatures averaged near to below normal across the region, with nighttime lows approaching 0°C in some of the colder parts of Alberta and Saskatchewan.

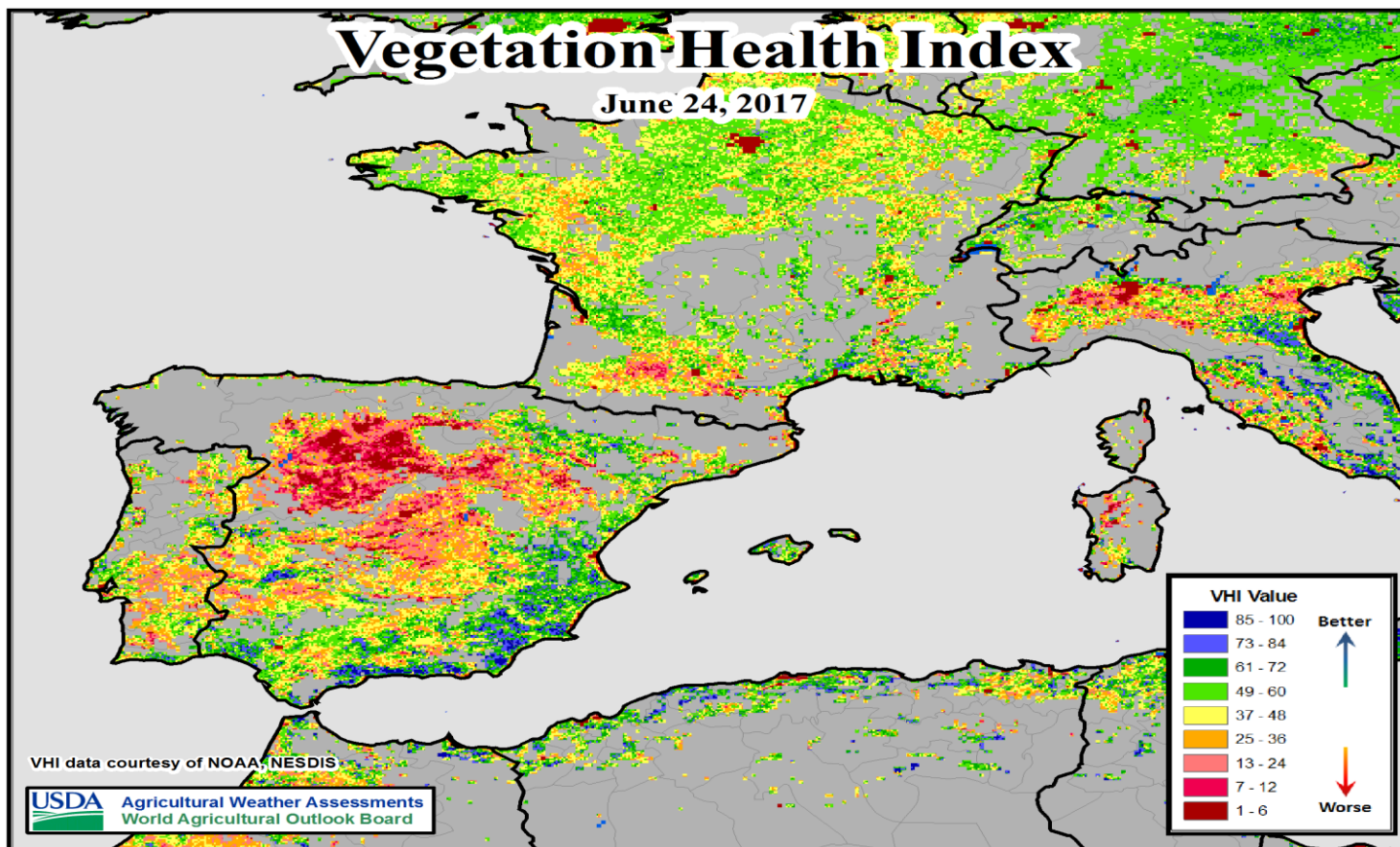
SOUTHEASTERN CANADA  
Total Precipitation (mm)  
JUN 18 - 24, 2017



**SOUTHEASTERN CANADA**

Rainy weather continued, and planting was nearly complete in most areas. Rainfall totaled 25 to 50 mm across Ontario, with higher amounts around Lake Huron (50-150 mm), and lower amounts in eastern Ontario (less than 25mm). Rainfall provided well-above-normal amounts of moisture for agriculture (especially in major growing areas), which compounded on the already wet start to summer that continued

to disrupt crop planting and treatments for diseases and pests. Slightly above-normal temperatures (1-3°C) were coupled with wet weather, as daytime highs reached the upper 20s (degrees C) for much of the week, and isolated areas in southern Quebec exceeded 30°C. Overnight lows continued to drop into the low teens, with only a few places recording single digit nighttime low temperatures.



An excessive heat wave has impacted vegetative to reproductive summer crops over much of southwestern Europe. Spain, in particular, has been hit hard by the untimely record-setting heat, with a variety of crops likely suffering yield losses. Corn, grown primarily in the north (Castilla y León), has been subjected to nearly two weeks of highs above 35°C, which has the crop either entering reproduction up to 4 weeks early (in the north) or suffering yield losses due to heat during tassel and silk in the middle of the country. Sunflowers, grown primarily in the south (Andalucía), have been blistered by 13 days with highs above 38°C (the damage threshold for the more heat tolerant sunflower), with readings as high as 44.5°C. Even cotton, also grown in Andalucía, suffers yield losses above 40°C; there have been 8 days with highs above 40°C in southern Spain. The Vegetation Health Index from this past week (above) clearly shows the impact of the heat.

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