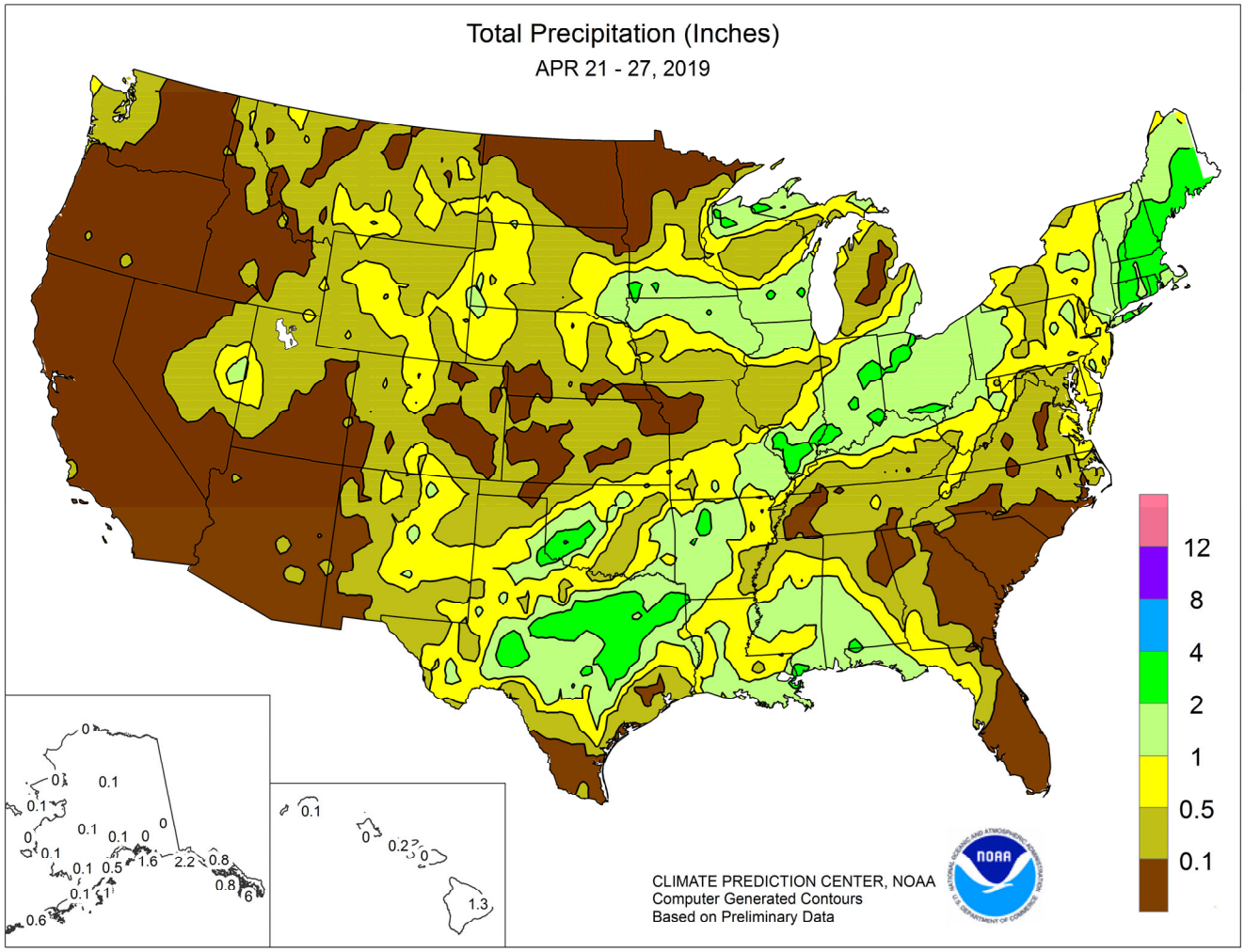
Volume 106, No. 18 http://www.usda.gov/oce/weather April 30, 2019

# 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
## April 21 – 27, 2019

*Highlights provided by USDA/WAOB*

Several days of warm, mostly dry weather allowed for an acceleration of planting activities in some regions, including the **northern and central Plains** and the **Southeast**. However, a late-week surge of cold air—accompanied and trailed by rain and snow—brought renewed fieldwork delays across the **North**. In many other areas, stretching from the **southern Plains into the Northeast**, frequent showers limited fieldwork. Some of the heaviest rain, locally 1 to 3 inches or more, fell in **New England** and generally along an axis from **central Texas**

*(Continued on page 5)*

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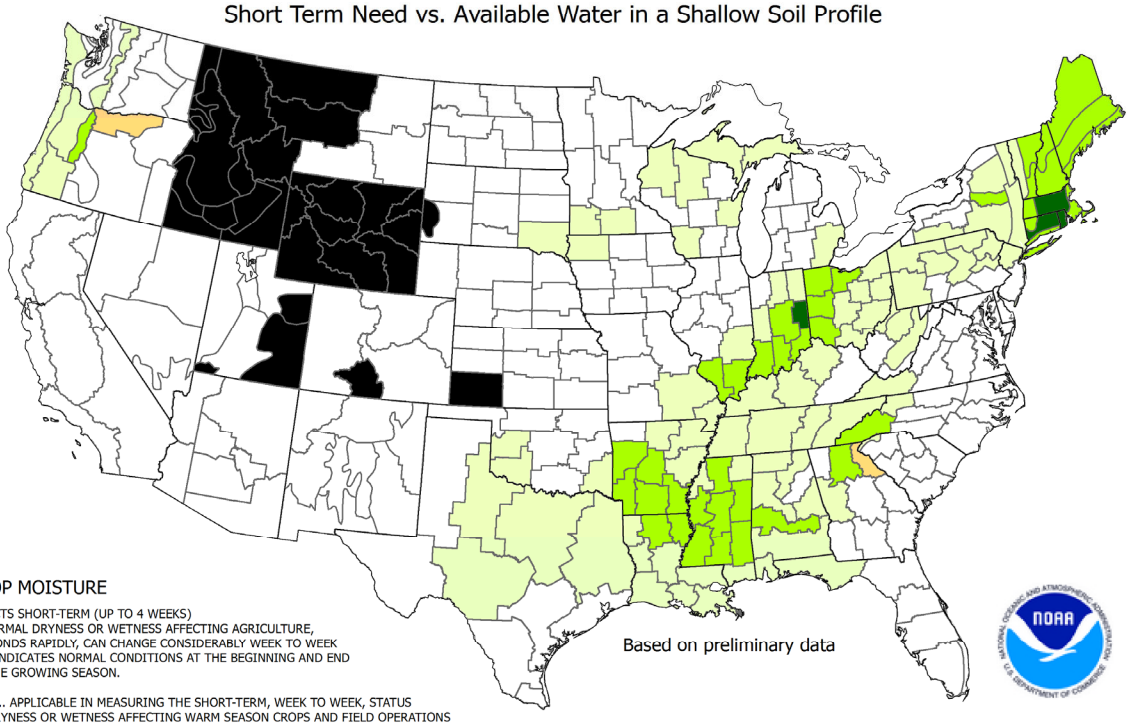
## Crop Moisture Index by Division
### Weekly Value for Period Ending Apr 27, 2019
### Short Term Need vs. Available Water in a Shallow Soil Profile




**CROP MOISTURE**

DEPICTS SHORT-TERM (UP TO 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.

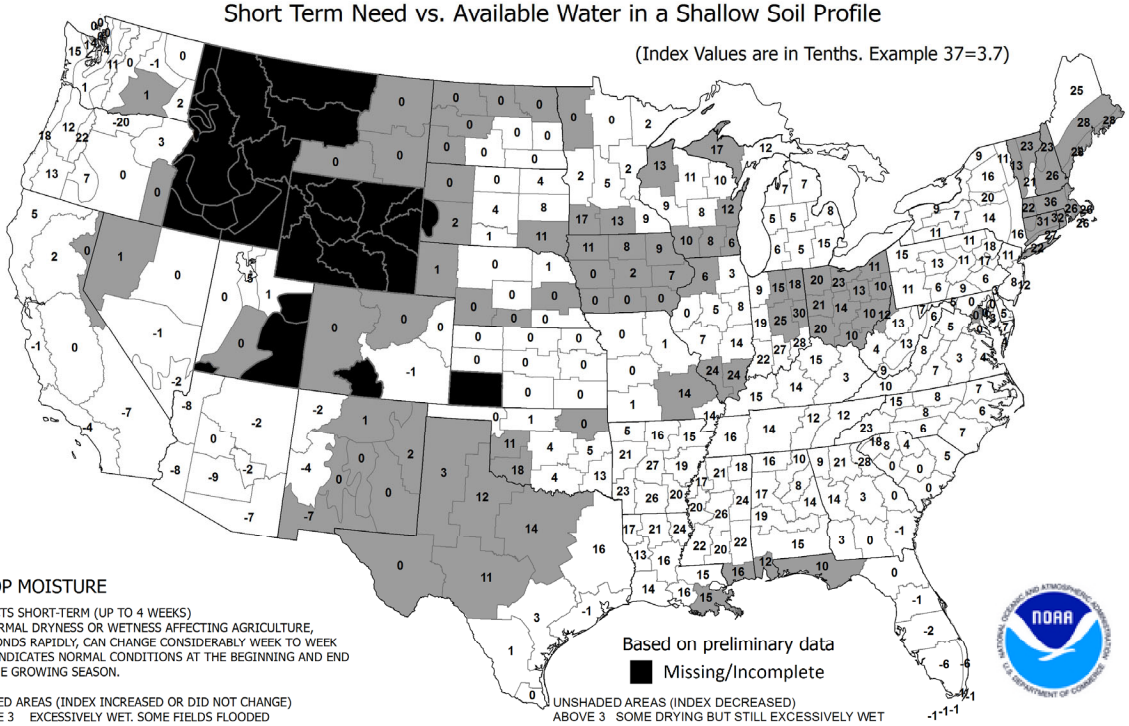
USES... APPLICABLE IN MEASURING THE SHORT-TERM, WEEK TO WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS

LIMITATIONS... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A SHALLOW SOIL PROFILE,OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55F.IT IS NOT GENERALLY INDICATIVE OF THE LONG-TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.

- -3.0 or less (Severly Dry)
- -2.0 to -2.9 (Excessively Dry)
- -1.0 to -1.9 (Abnormally Dry)
- -0.9 to +0.9 (Slightly Dry/Favorably Moist)
- +1.0 to +1.9 (Abnormally Moist)
- +2.0 to +3.0 (Wet)
- 3.0 and above (Excessively Wet)
- Missing/Incomplete

## Crop Moisture Index by Division
### Weekly Value for Period Ending Apr 27, 2019
### Short Term Need vs. Available Water in a Shallow Soil Profile

(Index Values are in Tenths. Example 37=3.7)




**CROP MOISTURE**

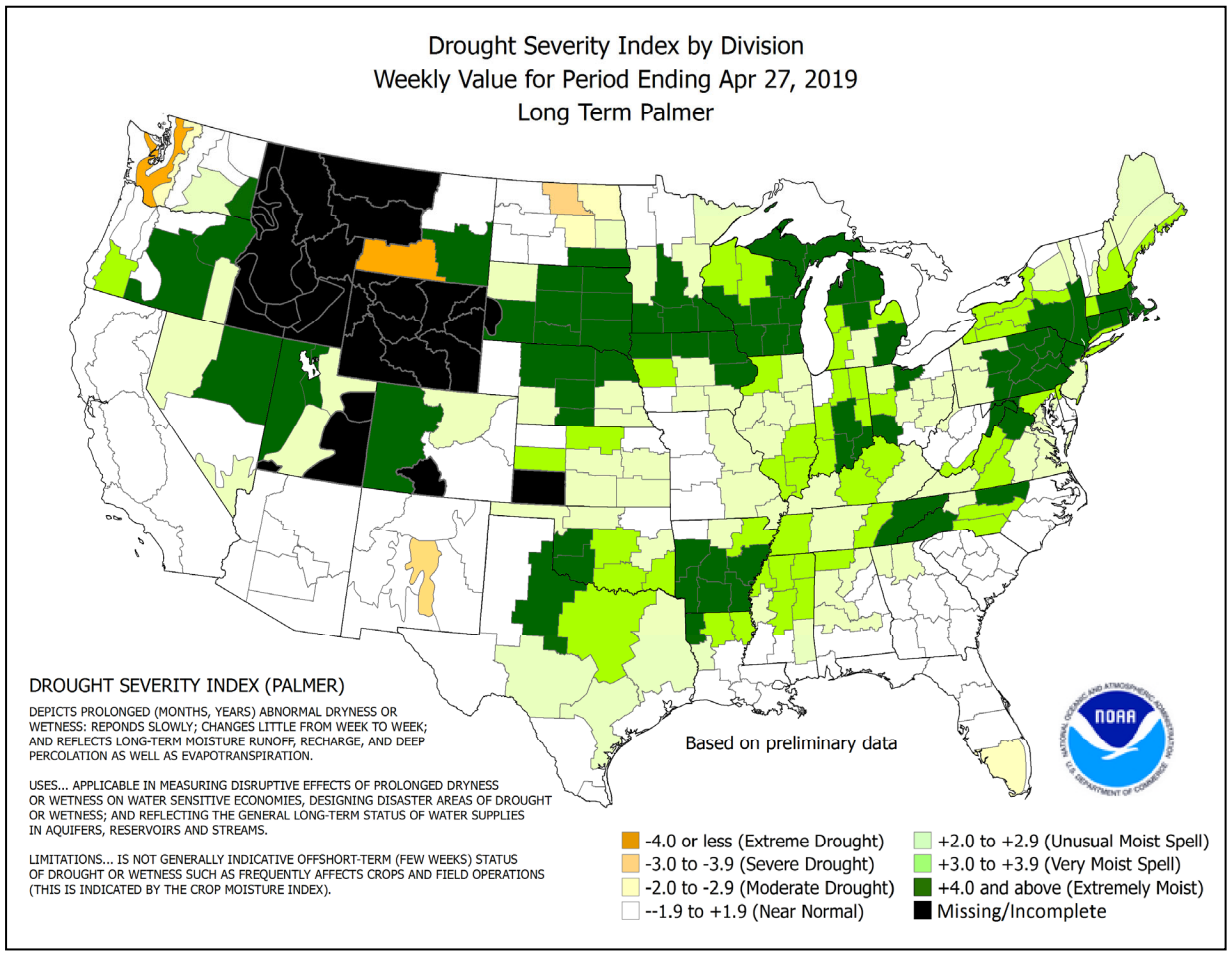
DEPICTS SHORT-TERM (UP TO 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.

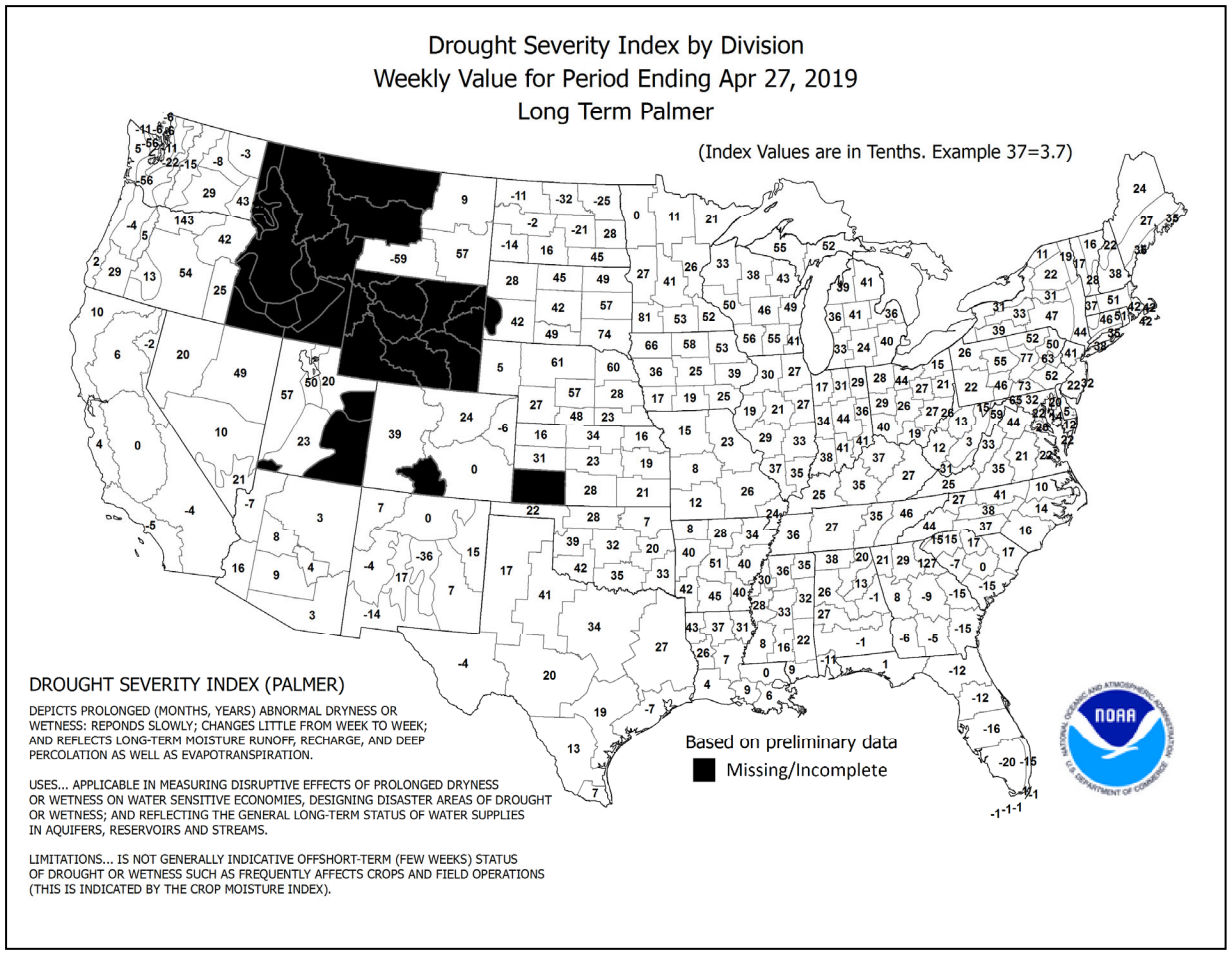
SHADED AREAS (INDEX INCREASED OR DID NOT CHANGE)

| | |
|---|---|
| ABOVE 3 | EXCESSIVELY WET. SOME FIELDS FLOODED |
| 2 TO 3 | TOO WET. SOME STANDING WATER |
| 1 TO 2 | SOME FIELDS TOO WET, PROSPECTS ABOVE NORMAL |
| 0 TO 1 | MOISTURE ADEQUATE FOR PRESENT CROP NEEDS |
| 0 TO -1 | PROSPECTS IMPROVED BUT RAIN STILL NEEDED |
| -1 TO -2 | SOME IMPROVEMENT BUT STILL ABNORMALLY DRY |
| -2 TO -3 | DRYNESS EASED BUT FIELDS STILL EXCESSIVELY DRY |
| -3 TO -4 | SEVERE DRYNESS CONTINUES, MORE RAIN URGENTLY NEEDED |
| BELOW -4 | NOT ENOUGH RAIN. EXTREMELY DRY |

UNSHADED AREAS (INDEX DECREASED)

| | |
|---|---|
| ABOVE 3 | SOME DRYING BUT STILL EXCESSIVELY WET |
| 2 TO 3 | MORE DRY WEATHER NEEDED, WORK DELAYED |
| 1 TO 2 | FAVORABLE EXCEPT STILL TOO WET IN SPOTS |
| 0 TO 1 | FAVORABLE FOR NORMAL GROWTH AND FIELDWORK |
| 0 TO -1 | TOPSOIL MOISTURE SHORT, GERMINATION SLOW |
| -1 TO -2 | ABNORMALLY DRY. PROSPECTS DETERIORATING |
| -2 TO -3 | EXCESSIVELY DRY. YIELD PROSPECTS REDUCED |
| -3 TO -4 | POTENTIAL YIELDS SEVERELY CUT BY DRYNESS |
| BELOW -4 | EXTREMELY DRY. CROPS RUINED |


Drought Severity Index by Division
Weekly Value for Period Ending Apr 27, 2019
Long Term Palmer
DROUGHT SEVERITY INDEX (PALMER)
DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS: REPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.
USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS AND STREAMS.
LIMITATIONS... IS NOT GENERALLY INDICATIVE OFFSHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).
Based on preliminary data
-4.0 or less (Extreme Drought)
-3.0 to -3.9 (Severe Drought)
-2.0 to -2.9 (Moderate Drought)
--1.9 to +1.9 (Near Normal)
+2.0 to +2.9 (Unusual Moist Spell)
+3.0 to +3.9 (Very Moist Spell)
+4.0 and above (Extremely Moist)
Missing/Incomplete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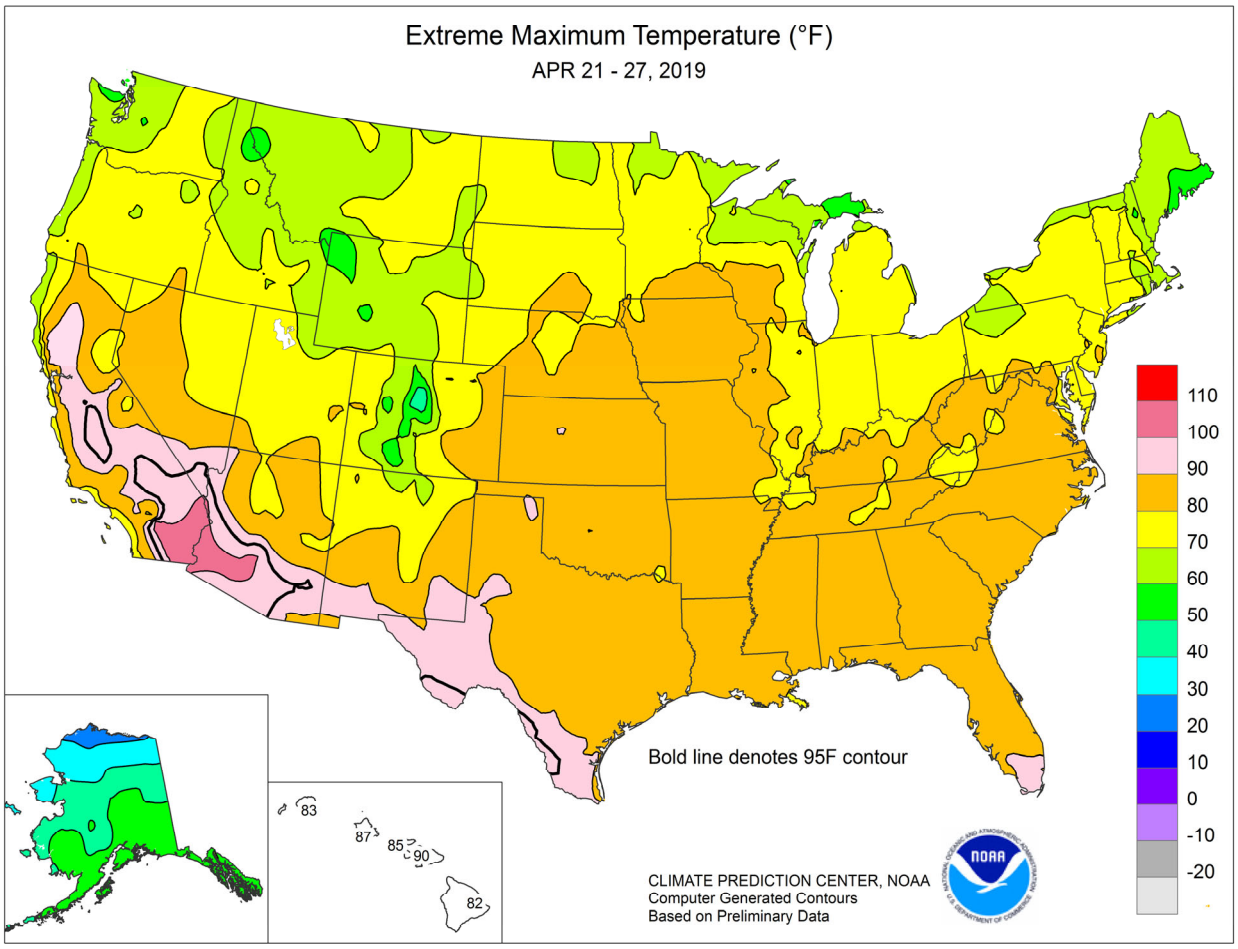
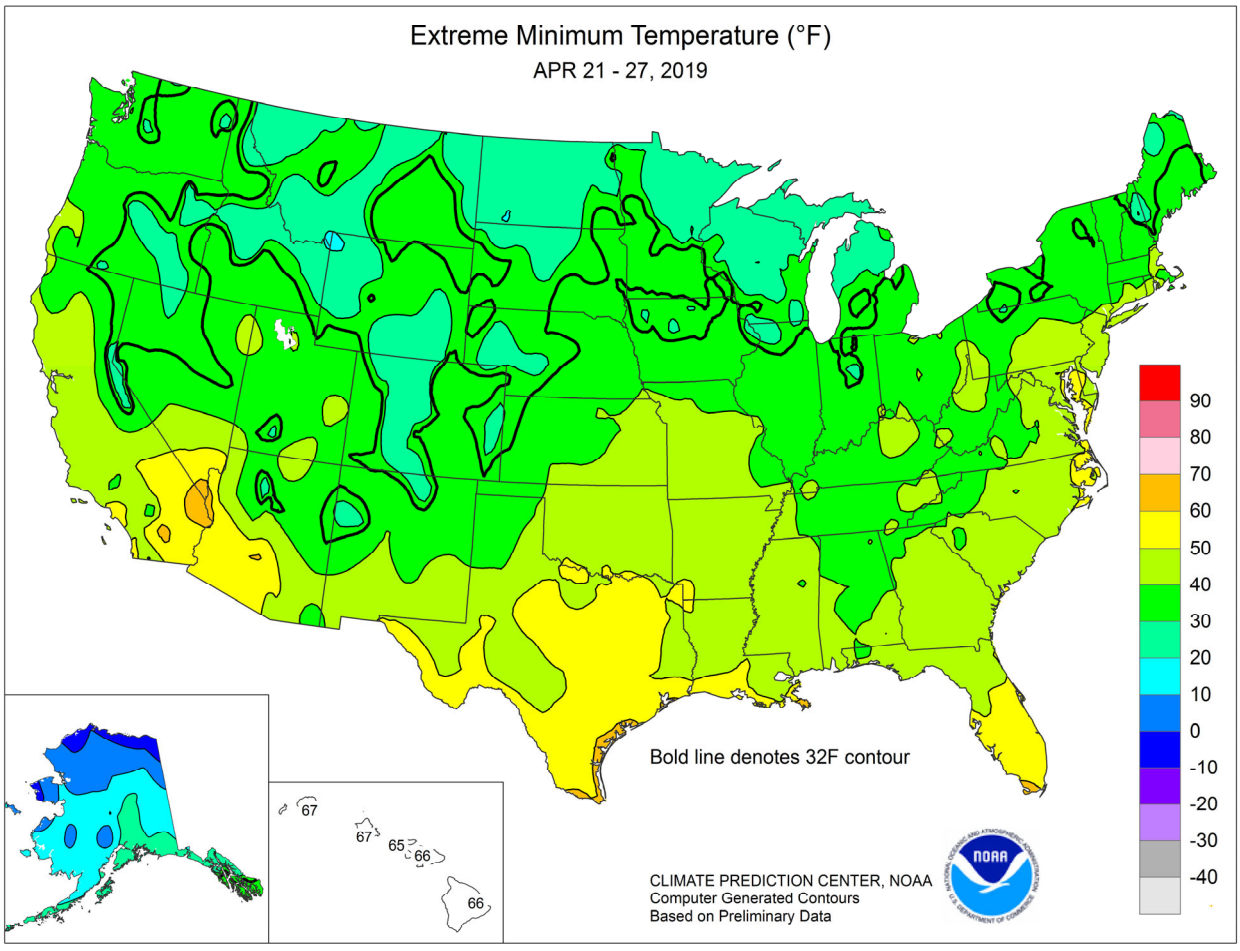
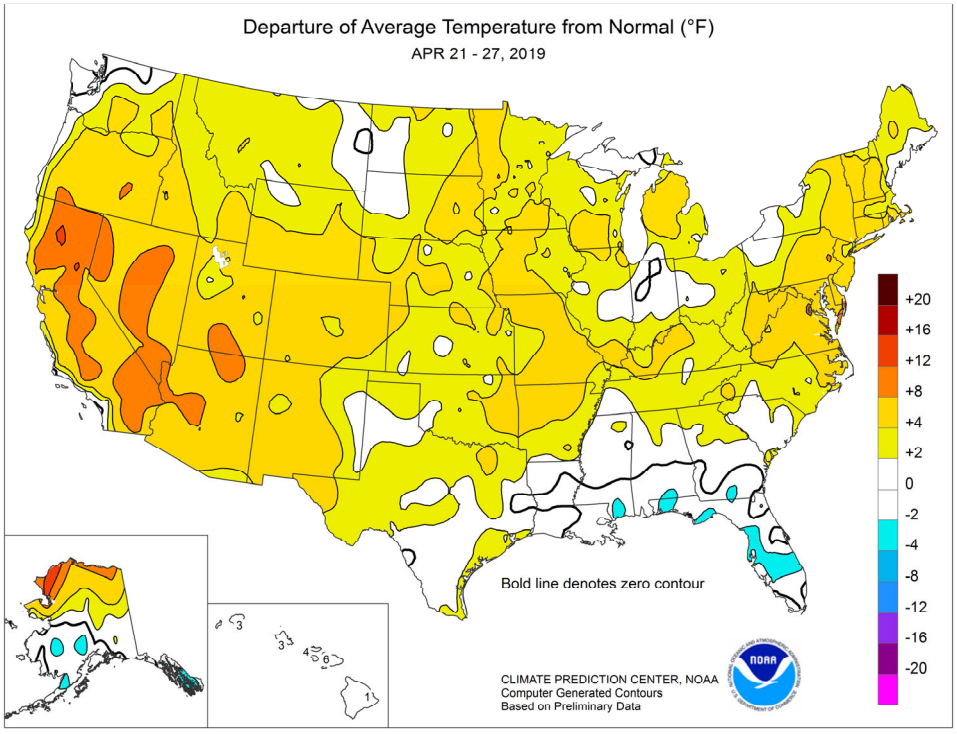
Based on preliminary data
Missing/Incomplete


Extreme Maximum Temperature (°F)
APR 21 - 27, 2019
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
Bold line denotes 95F contour
83
87
85
90
82
CLIMATE PREDICTION CENTER, NOAA
Computer Generated Contours
Based on Preliminary Data


Extreme Minimum Temperature (°F)
APR 21 - 27, 2019
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
Bold line denotes 32F contour
67
67
65
66
66
CLIMATE PREDICTION CENTER, NOAA
Computer Generated Contours
Based on Preliminary Data

*(Continued from front cover)*

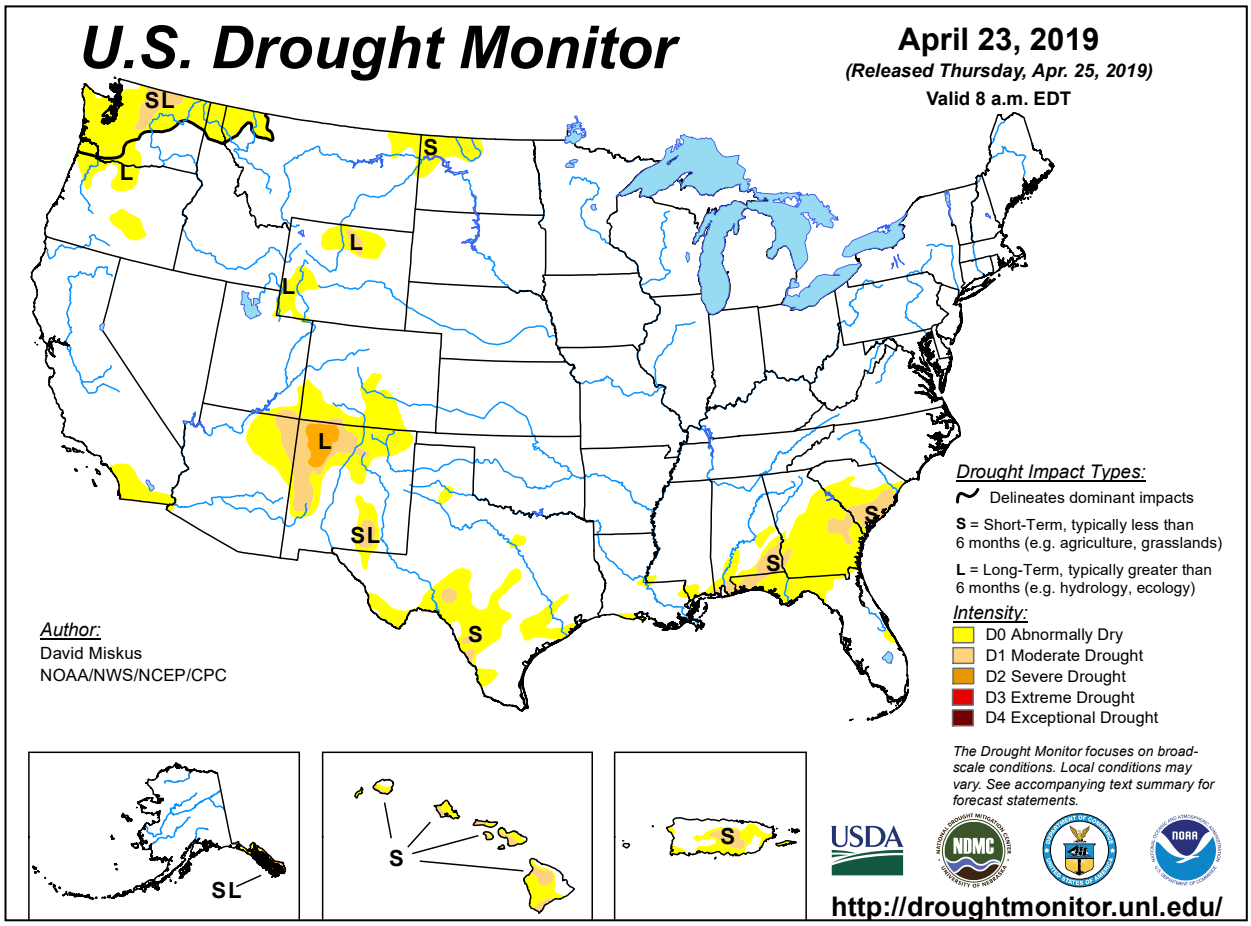
**into the Ohio Valley**. In contrast, warm, mostly dry weather **west of the Rockies** favored crop development and a rapid planting pace. An early-season heat wave in **California**, the **Great Basin**, and the **Desert Southwest** boosted weekly temperatures more than 10°F above normal in a few locations. Meanwhile, early-week temperatures climbed to 80°F or higher as far north as **southern Minnesota** and **central Wisconsin**. The **Midwestern** warmth generally peaked on April 21, but snow blanketed portions of the **northern Corn Belt** just 6 days later.

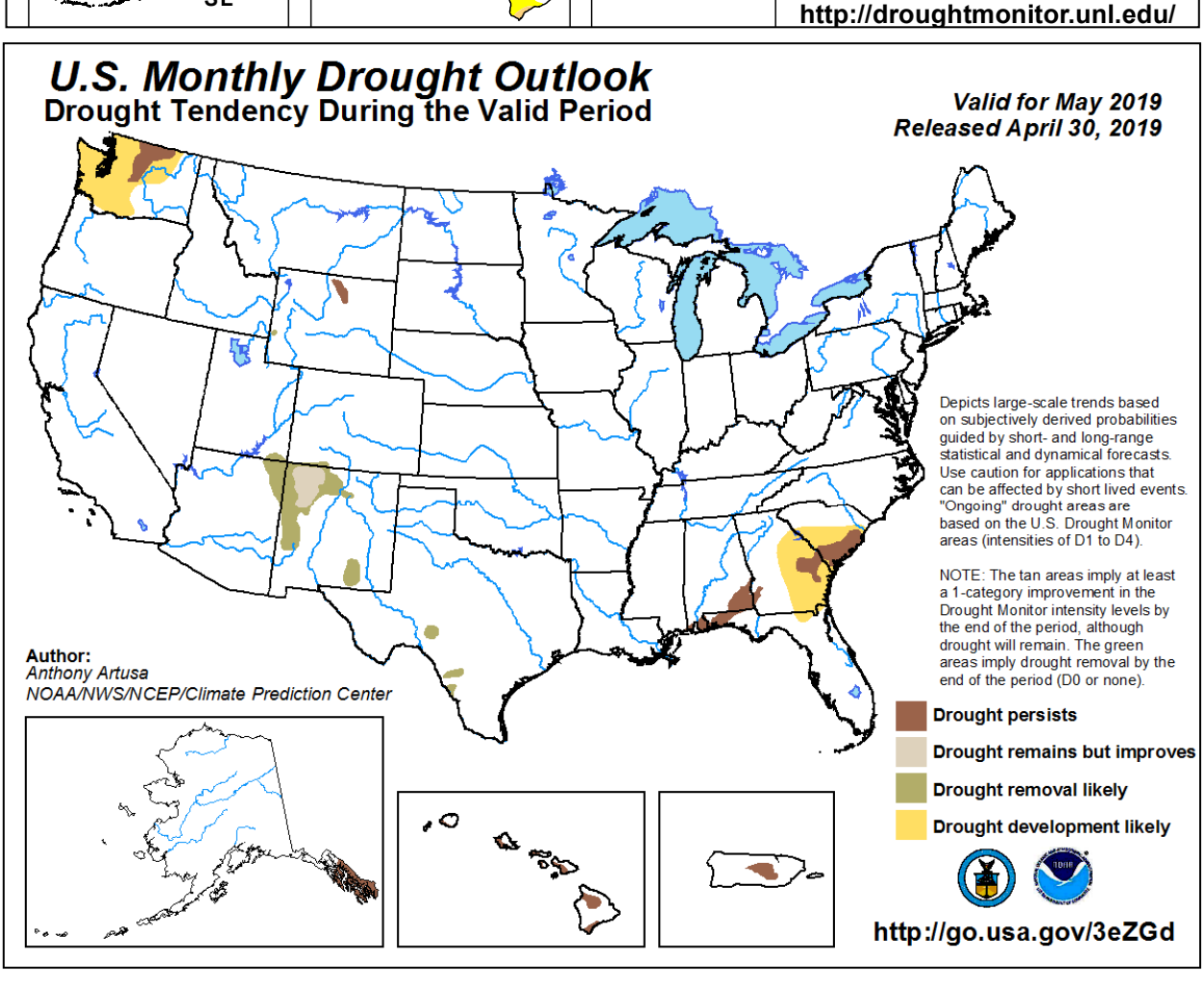


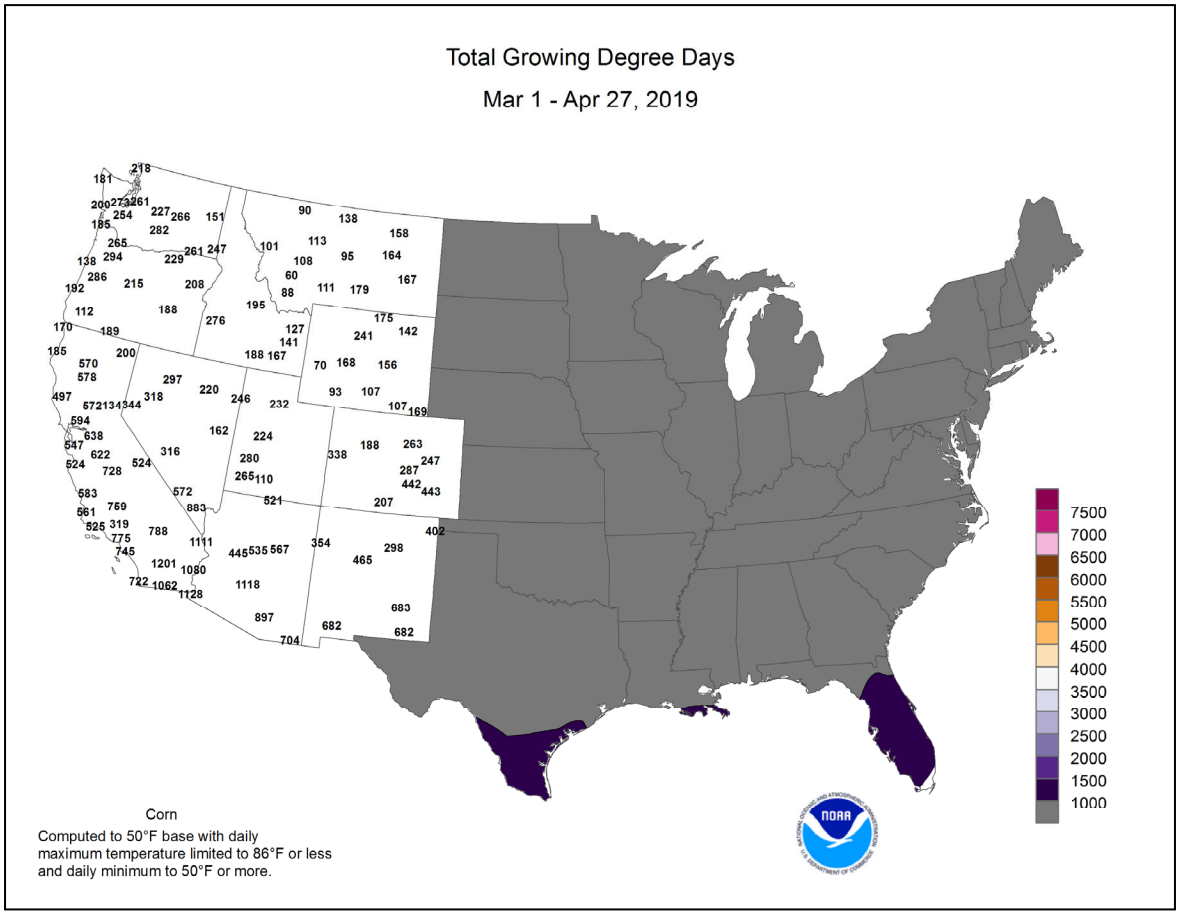

The week's most impressive warmth developed across the **Far West**, where dozens of daily-record highs were set starting on April 23. In **California's Central Valley**, consecutive daily-record highs were set on April 23-24 in **Sacramento** (90°F both days). Similarly, a pair of daily records were broken on April 24-25 in **California** locations such as **Modesto** (93°F both days) and **Stockton** (93 and 94°F). **Death Valley, CA**, posted consecutive daily-record highs (109 and 110°F, respectively) on April 25-26. Other triple-digit, daily-record highs in **California** included 103°F (on April 24) in **Palm Springs** and 103°F (on April 25) in **Needles**. In **Nevada**, **Las Vegas** (96°F), **Reno** (85°F), and **Tonopah** (82°F) collected daily-record highs for April 25. In contrast, chilly air settled across the **North** late in the week. In **Iowa**, **Dubuque** notched consecutive daily-record lows (27 and 23°F, respectively) on April 27-28.

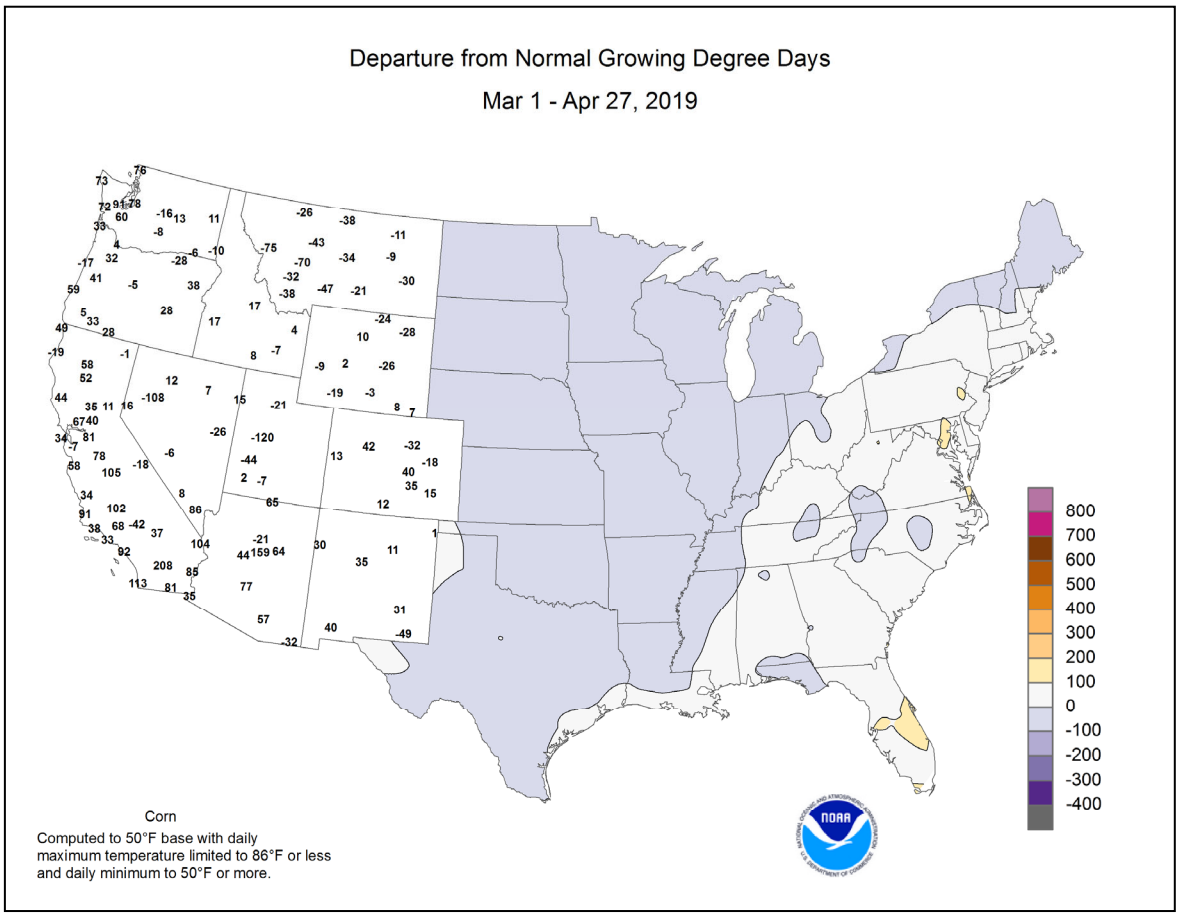
Late-week snow pushed seasonal accumulations to record-high levels in **Midwestern** locations such as **Rochester, MN** (86.8 inches) and **Waterloo, IA** (60.0 inches). Previous records had been 85.1 inches (in 1996-97) in **Rochester** and 59.4 inches (in 1961-62) in **Waterloo**. On April 27, snowfall totaled 2.1 inches in **Rochester** and 0.7 inch in **Waterloo**, while **Waterloo** also netted a daily-record precipitation sum of 1.01 inches. Other record-setting snowfall amounts for April 27 included 3.7 inches in **Rockford, IL**; 2.5 inches in **Chicago, IL**; 1.7 inches in **Milwaukee, WI**; and 1.2 inches in **Madison, WI**. For **Rockford**, it was the latest-ever storm with a 2-inch snowfall; the previous record was set on April 23-24, 1910, when 2.5 inches fell. For **Chicago**, it was the latest calendar-day snowfall of 2 inches or more, although that city had received a 2.2-inch total on May 1-2, 1940. Prior to the late-week storm, periodically heavy showers affected parts of the **South**, **East**, and **Midwest**. Selected daily-record totals included 2.57 inches (on April 25) in **Vicksburg, MS**; 2.30 inches (on April 22) in **Boston, MA**; 1.88 inches (on April 24) in **Austin, TX**; 1.37 inches (on April 23) in **Oklahoma City, OK**; 1.31 inches (on April 22) in **Marquette, MI**; and 1.02 inches (on April 26) in **Zanesville, OH**. **Dallas-Fort Worth, TX**, recorded 3.57 inches on April 23-24.

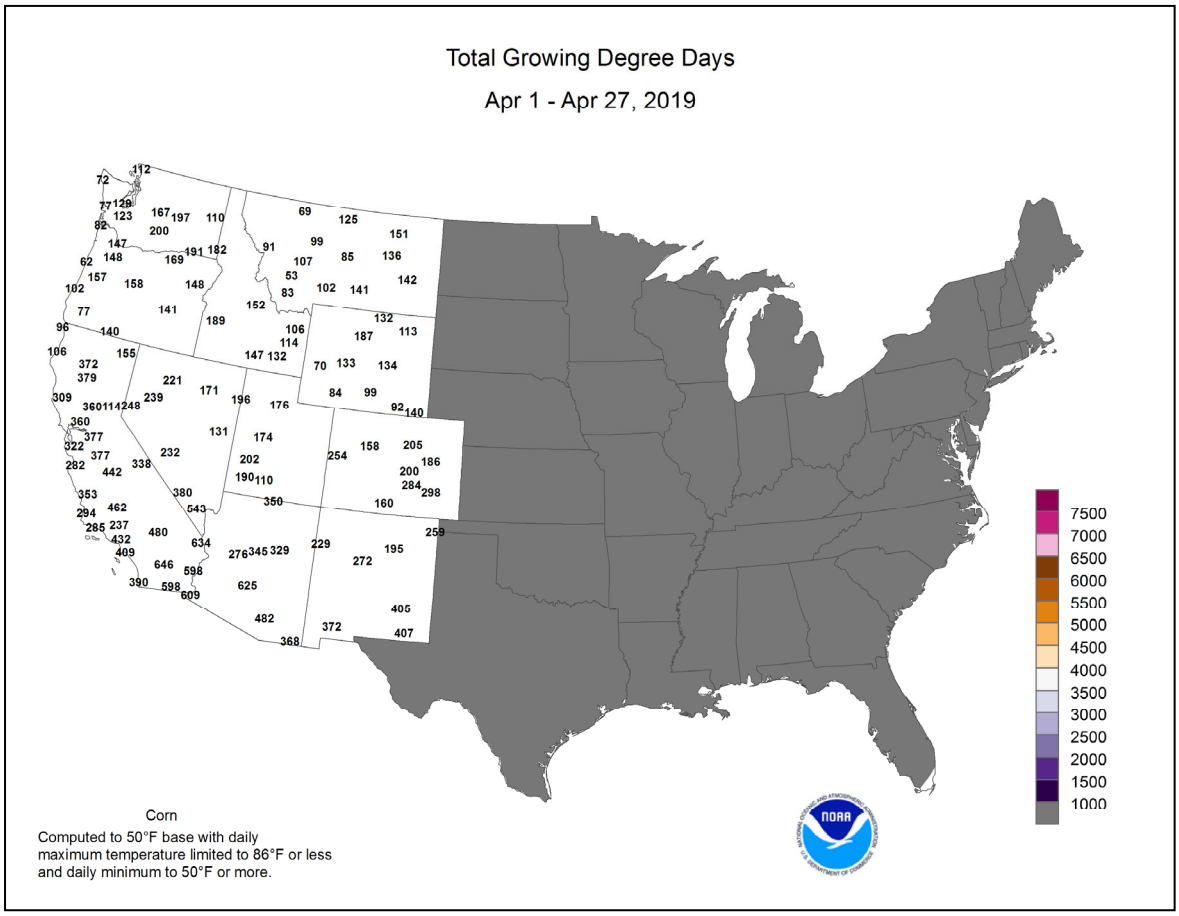
Widespread precipitation accompanied near- or below-normal temperatures in the **southern half of Alaska**. Mild conditions lingered, however, across the **state's northern tier**, where weekly temperatures locally averaged more than 10°F above normal. Late in the week, however, markedly warmer air overspread **southwestern Alaska**, including the **Aleutians**, where **Cold Bay** collected consecutive daily-record highs (52 and 57°F, respectively) on April 27-28. Early in the week, when cold air was entrenched across much of **Alaska**, **Anchorage** measured a daily-record snowfall (3.5 inches) on April 22 and **Fairbanks** received 1.4 inches of snow of April 23. Meanwhile, heavy precipitation fell in **lower southeastern Alaska**, where **Ketchikan** netted a weekly total of 5.91 inches. More than three-quarters (4.46 inches) of **Ketchikan's** weekly sum fell on April 21-22. Farther south, mostly drier- and warmer-than-normal weather prevailed in **Hawaii**. **Kahului, Maui**, posted a daily-record high temperature of 90°F on April 21, as well as consecutive records of 89°F on April 25-26. For the week, **Kahului's** average temperature was 6°F above normal, while month-to-date rainfall through April 27 in that location totaled just 0.30 inch (21 percent of normal). Some rain continued to fall, however, in windward areas. On the **Big Island**, for example, **Hilo's** April 1-27 rainfall totaled 12.97 inches (123 percent of normal), albeit aided by an 8.01-inch deluge earlier in the month from April 11-13.

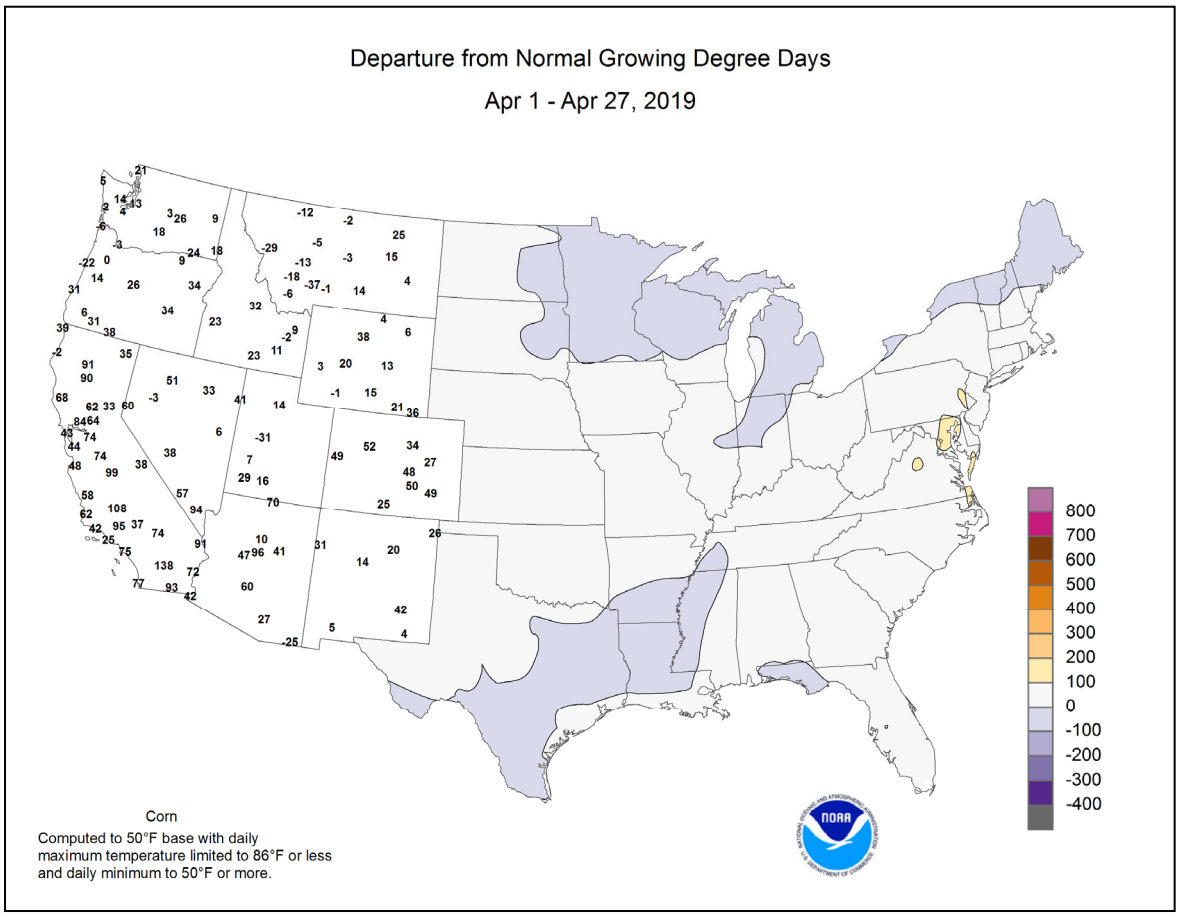

U.S. Drought Monitor
April 23, 2019
(Released Thursday, Apr. 25, 2019)
Valid 8 a.m. EDT
Author:
David Miskus
NOAA/NWS/NCEP/CPC
Drought Impact Types:
Delineates dominant impacts
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)
Intensity:
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.
USDA
NDMC
NOAA
http://droughtmonitor.unl.edu/


U.S. Monthly Drought Outlook
Drought Tendency During the Valid Period
Valid for May 2019
Released April 30, 2019
Author:
Anthony Artusa
NOAA/NWS/NCEP/Climate Prediction Center
Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).
Drought persists
Drought remains but improves
Drought removal likely
Drought development likely
http://go.usa.gov/3eZGd


Total Growing Degree Days
Mar 1 - Apr 27, 2019
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
NOAA
Corn
Computed to 50°F base with daily maximum temperature limited to 86°F or less and daily minimum to 50°F or more.


Departure from Normal Growing Degree Days
Mar 1 - Apr 27, 2019
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400
NOAA
Corn
Computed to 50°F base with daily maximum temperature limited to 86°F or less and daily minimum to 50°F or more.


Total Growing Degree Days
Apr 1 - Apr 27, 2019
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
Corn
Computed to 50°F base with daily maximum temperature limited to 86°F or less and daily minimum to 50°F or more.


Departure from Normal Growing Degree Days
Apr 1 - Apr 27, 2019
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400
Corn
Computed to 50°F base with daily maximum temperature limited to 86°F or less and daily minimum to 50°F or more.

# National Weather Data for Selected Cities

## Weather Data for the Week Ending April 27, 2019

**Data Provided by Climate Prediction Center**

| STATES AND STATIONS | | TEMPERATURE ˚F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY PERCENT | | NUMBER OF DAYS | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | TEMP. ˚F | | PRECIP | |
| | | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE MAR 1 | PCT. NORMAL SINCE MAR 1 | TOTAL, IN., SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| AL | BIRMINGHAM | 80 | 51 | 84 | 40 | 65 | 2 | 0.30 | -0.72 | 0.29 | 7.22 | 70 | 19.84 | 99 | 91 | 34 | 0 | 0 | 2 | 0 |
| | HUNTSVILLE | 79 | 50 | 84 | 38 | 65 | 3 | 0.20 | -0.77 | 0.18 | 10.36 | 96 | 31.23 | 147 | 95 | 49 | 0 | 0 | 2 | 0 |
| | MOBILE | 79 | 52 | 82 | 42 | 66 | -1 | 1.09 | 0.00 | 1.09 | 7.93 | 67 | 17.42 | 77 | 91 | 46 | 0 | 0 | 1 | 1 |
| | MONTGOMERY | 80 | 50 | 83 | 40 | 65 | -1 | 1.07 | 0.13 | 1.07 | 8.49 | 82 | 15.49 | 74 | 95 | 38 | 0 | 0 | 1 | 1 |
| AK | ANCHORAGE | 47 | 31 | 56 | 27 | 39 | 0 | 0.31 | 0.20 | 0.28 | 0.93 | 86 | 2.61 | 104 | 76 | 56 | 0 | 5 | 3 | 0 |
| | BARROW | 18 | 7 | 22 | -1 | 12 | 8 | 0.03 | 0.00 | 0.03 | 0.90 | 643 | 2.53 | 666 | 94 | 81 | 0 | 7 | 1 | 0 |
| | FAIRBANKS | 50 | 29 | 56 | 24 | 39 | 3 | 0.29 | 0.26 | 0.24 | 1.04 | 267 | 2.48 | 189 | 67 | 47 | 0 | 6 | 2 | 0 |
| | JUNEAU | 48 | 35 | 60 | 29 | 42 | -1 | 0.77 | 0.07 | 0.41 | 5.26 | 87 | 14.96 | 100 | 91 | 74 | 0 | 2 | 6 | 0 |
| | KODIAK | 44 | 29 | 54 | 22 | 36 | -2 | 1.00 | -0.31 | 0.77 | 11.45 | 114 | 19.53 | 82 | 80 | 53 | 0 | 5 | 3 | 1 |
| | NOME | 29 | 17 | 34 | -2 | 23 | 0 | 0.06 | -0.08 | 0.05 | 1.96 | 173 | 5.79 | 207 | 84 | 75 | 0 | 7 | 2 | 0 |
| AZ | FLAGSTAFF | 68 | 33 | 73 | 26 | 50 | 6 | 0.05 | -0.20 | 0.05 | 2.71 | 71 | 11.61 | 136 | 74 | 22 | 0 | 3 | 1 | 0 |
| | PHOENIX | 94 | 67 | 100 | 62 | 80 | 8 | 0.00 | -0.01 | 0.00 | 0.31 | 24 | 2.84 | 98 | 35 | 17 | 5 | 0 | 0 | 0 |
| | PRESCOTT | 76 | 45 | 82 | 39 | 61 | 9 | 0.00 | -0.14 | 0.00 | 1.15 | 45 | 7.58 | 126 | 56 | 16 | 0 | 0 | 0 | 0 |
| | TUCSON | 89 | 57 | 97 | 50 | 73 | 5 | 0.00 | -0.06 | 0.00 | 0.69 | 68 | 3.81 | 132 | 39 | 17 | 3 | 0 | 0 | 0 |
| AR | FORT SMITH | 79 | 56 | 85 | 49 | 68 | 5 | 1.57 | 0.64 | 1.34 | 8.53 | 117 | 17.52 | 143 | 89 | 48 | 0 | 0 | 2 | 1 |
| | LITTLE ROCK | 78 | 55 | 80 | 46 | 67 | 4 | 1.13 | -0.14 | 1.09 | 14.88 | 153 | 26.07 | 156 | 88 | 44 | 0 | 0 | 2 | 1 |
| CA | BAKERSFIELD | 89 | 60 | 96 | 48 | 75 | 11 | 0.00 | -0.04 | 0.00 | 2.06 | 112 | 4.64 | 110 | 50 | 30 | 5 | 0 | 0 | 0 |
| | FRESNO | 88 | 60 | 96 | 49 | 74 | 11 | 0.00 | -0.09 | 0.00 | 1.65 | 56 | 7.14 | 99 | 66 | 39 | 3 | 0 | 0 | 0 |
| | LOS ANGELES | 68 | 56 | 72 | 53 | 62 | 1 | 0.00 | -0.07 | 0.00 | 2.09 | 69 | 12.03 | 132 | 88 | 68 | 0 | 0 | 0 | 0 |
| | REDDING | 88 | 57 | 93 | 49 | 73 | 14 | 0.00 | -0.41 | 0.00 | 11.42 | 153 | 27.21 | 140 | 64 | 33 | 2 | 0 | 0 | 0 |
| | SACRAMENTO | 85 | 53 | 90 | 46 | 69 | 9 | 0.00 | -0.15 | 0.00 | 4.54 | 120 | 16.20 | 145 | 86 | 31 | 2 | 0 | 0 | 0 |
| | SAN DIEGO | 68 | 59 | 71 | 57 | 64 | 1 | 0.00 | -0.07 | 0.00 | 1.32 | 44 | 7.54 | 103 | 79 | 64 | 0 | 0 | 0 | 0 |
| | SAN FRANCISCO | 73 | 51 | 88 | 47 | 62 | 5 | 0.00 | -0.16 | 0.00 | 4.67 | 105 | 16.43 | 127 | 82 | 68 | 0 | 0 | 0 | 0 |
| | STOCKTON | 88 | 52 | 93 | 48 | 70 | 9 | 0.00 | -0.15 | 0.00 | 3.02 | 94 | 9.91 | 118 | 82 | 42 | 3 | 0 | 0 | 0 |
| CO | ALAMOSA | 65 | 32 | 70 | 28 | 49 | 6 | 0.52 | 0.41 | 0.50 | 1.98 | 222 | 3.51 | 260 | 90 | 35 | 0 | 5 | 2 | 1 |
| | CO SPRINGS | 66 | 42 | 77 | 37 | 54 | 7 | 0.00 | -0.39 | 0.00 | 1.84 | 77 | 2.80 | 92 | 74 | 30 | 0 | 0 | 0 | 0 |
| | DENVER INTL | 66 | 42 | 77 | 39 | 54 | 7 | 0.83 | 0.53 | 0.82 | 2.50 | 153 | 3.97 | 190 | 82 | 38 | 0 | 0 | 2 | 1 |
| | GRAND JUNCTION | 75 | 45 | 81 | 39 | 60 | 7 | 0.40 | 0.21 | 0.32 | 2.75 | 161 | 4.19 | 149 | 65 | 36 | 0 | 0 | 2 | 0 |
| | PUEBLO | 73 | 42 | 85 | 36 | 58 | 6 | 0.00 | -0.28 | 0.00 | 1.38 | 68 | 2.12 | 81 | 69 | 39 | 0 | 0 | 0 | 0 |
| CT | BRIDGEPORT | 63 | 48 | 70 | 42 | 55 | 4 | 2.41 | 1.52 | 1.39 | 9.18 | 119 | 16.77 | 117 | 83 | 62 | 0 | 0 | 4 | 2 |
| | HARTFORD | 64 | 47 | 76 | 41 | 56 | 5 | 2.89 | 2.01 | 2.16 | 10.75 | 147 | 19.80 | 140 | 83 | 57 | 0 | 0 | 5 | 1 |
| DC | WASHINGTON | 76 | 57 | 82 | 52 | 66 | 8 | 0.62 | -0.01 | 0.58 | 6.25 | 104 | 13.07 | 110 | 72 | 35 | 0 | 0 | 3 | 1 |
| DE | WILMINGTON | 72 | 51 | 78 | 49 | 61 | 7 | 1.00 | 0.22 | 1.00 | 6.80 | 98 | 14.63 | 111 | 86 | 41 | 0 | 0 | 1 | 1 |
| FL | DAYTONA BEACH | 82 | 57 | 87 | 51 | 70 | 0 | 0.00 | -0.47 | 0.00 | 4.59 | 74 | 9.39 | 78 | 98 | 40 | 0 | 0 | 0 | 0 |
| | JACKSONVILLE | 83 | 53 | 88 | 46 | 68 | 0 | 0.01 | -0.64 | 0.01 | 4.62 | 68 | 10.82 | 79 | 90 | 32 | 0 | 0 | 1 | 0 |
| | KEY WEST | 83 | 72 | 85 | 67 | 78 | 0 | 0.00 | -0.47 | 0.00 | 3.99 | 109 | 7.03 | 95 | 74 | 56 | 0 | 0 | 0 | 0 |
| | MIAMI | 84 | 68 | 90 | 60 | 76 | 0 | 0.00 | -0.77 | 0.00 | 4.95 | 90 | 8.48 | 90 | 77 | 46 | 1 | 0 | 0 | 0 |
| | ORLANDO | 84 | 59 | 87 | 53 | 72 | 0 | 0.02 | -0.44 | 0.02 | 2.06 | 36 | 7.32 | 69 | 82 | 38 | 0 | 0 | 1 | 0 |
| | PENSACOLA | 77 | 56 | 81 | 48 | 66 | -2 | 1.10 | 0.35 | 1.10 | 6.99 | 69 | 12.10 | 60 | 88 | 50 | 0 | 0 | 1 | 1 |
| | TALLAHASSEE | 82 | 49 | 87 | 41 | 66 | -2 | 0.75 | 0.08 | 0.75 | 6.26 | 64 | 10.84 | 55 | 93 | 39 | 0 | 0 | 1 | 1 |
| | TAMPA | 82 | 64 | 85 | 59 | 73 | 1 | 0.17 | -0.19 | 0.17 | 4.55 | 102 | 11.67 | 124 | 77 | 43 | 0 | 0 | 1 | 0 |
| | WEST PALM BEACH | 82 | 64 | 88 | 58 | 73 | -2 | 0.00 | -0.77 | 0.00 | 4.33 | 63 | 15.64 | 119 | 80 | 45 | 0 | 0 | 0 | 0 |
| GA | ATHENS | 79 | 51 | 85 | 43 | 65 | 2 | 0.03 | -0.69 | 0.02 | 5.46 | 68 | 14.41 | 84 | 84 | 44 | 0 | 0 | 2 | 0 |
| | ATLANTA | 78 | 54 | 82 | 44 | 66 | 3 | 0.11 | -0.67 | 0.09 | 8.51 | 98 | 18.88 | 103 | 71 | 40 | 0 | 0 | 2 | 0 |
| | AUGUSTA | 83 | 49 | 89 | 43 | 66 | 2 | 0.00 | -0.57 | 0.00 | 5.24 | 71 | 10.78 | 67 | 90 | 46 | 0 | 0 | 0 | 0 |
| | COLUMBUS | 81 | 52 | 84 | 43 | 67 | 1 | 0.32 | -0.48 | 0.32 | 6.82 | 73 | 13.97 | 75 | 91 | 29 | 0 | 0 | 1 | 0 |
| | MACON | 82 | 49 | 86 | 42 | 65 | 1 | 0.12 | -0.52 | 0.12 | 4.45 | 57 | 11.97 | 69 | 92 | 28 | 0 | 0 | 1 | 0 |
| | SAVANNAH | 83 | 54 | 89 | 48 | 69 | 2 | 0.00 | -0.69 | 0.00 | 4.19 | 63 | 7.63 | 56 | 84 | 38 | 0 | 0 | 0 | 0 |
| HI | HILO | 80 | 68 | 82 | 66 | 74 | 1 | 1.29 | -1.34 | 0.55 | 17.67 | 68 | 30.17 | 67 | 85 | 75 | 0 | 0 | 7 | 1 |
| | HONOLULU | 85 | 72 | 87 | 67 | 78 | 2 | 0.01 | -0.21 | 0.01 | 0.21 | 7 | 2.71 | 34 | 76 | 66 | 0 | 0 | 1 | 0 |
| | KAHULUI | 89 | 71 | 90 | 66 | 80 | 6 | 0.01 | -0.32 | 0.01 | 0.88 | 22 | 8.38 | 83 | 74 | 61 | 2 | 0 | 1 | 0 |
| | LIHUE | 82 | 72 | 83 | 67 | 77 | 3 | 0.09 | -0.57 | 0.03 | 2.83 | 45 | 6.29 | 45 | 81 | 72 | 0 | 0 | 3 | 0 |
| ID | BOISE | 70 | 45 | 75 | 39 | 57 | 5 | 0.01 | -0.27 | 0.01 | 3.26 | 130 | 8.05 | 160 | 70 | 42 | 0 | 0 | 1 | 0 |
| | LEWISTON | 68 | 46 | 72 | 39 | 57 | 4 | 0.01 | -0.29 | 0.01 | 3.16 | 143 | 7.15 | 166 | 63 | 46 | 0 | 0 | 1 | 0 |
| | POCATELLO | 65 | 40 | 70 | 33 | 53 | 6 | 0.26 | 0.00 | 0.26 | 3.33 | 141 | 6.93 | 153 | 77 | 52 | 0 | 0 | 1 | 0 |
| IL | CHICAGO/O'HARE | 66 | 46 | 80 | 32 | 56 | 6 | 1.02 | 0.17 | 0.79 | 4.88 | 82 | 9.75 | 105 | 76 | 44 | 0 | 1 | 4 | 1 |
| | MOLINE | 69 | 44 | 84 | 37 | 57 | 4 | 1.59 | 0.71 | 1.09 | 4.78 | 76 | 11.56 | 124 | 80 | 57 | 0 | 0 | 3 | 1 |
| | PEORIA | 66 | 46 | 80 | 35 | 56 | 2 | 0.19 | -0.68 | 0.10 | 6.47 | 110 | 12.12 | 134 | 85 | 48 | 0 | 0 | 3 | 0 |
| | ROCKFORD | 68 | 43 | 80 | 31 | 55 | 5 | 1.20 | 0.35 | 1.00 | 4.32 | 78 | 10.62 | 128 | 76 | 45 | 0 | 1 | 4 | 1 |
| | SPRINGFIELD | 67 | 47 | 81 | 37 | 57 | 2 | 0.20 | -0.58 | 0.13 | 8.06 | 133 | 14.09 | 148 | 91 | 50 | 0 | 0 | 4 | 0 |
| IN | EVANSVILLE | 73 | 49 | 79 | 35 | 61 | 3 | 1.56 | 0.50 | 0.89 | 12.73 | 155 | 24.12 | 170 | 92 | 57 | 0 | 0 | 4 | 2 |
| | FORT WAYNE | 63 | 43 | 75 | 35 | 53 | 2 | 1.94 | 1.11 | 1.27 | 8.58 | 144 | 13.12 | 132 | 91 | 52 | 0 | 0 | 5 | 1 |
| | INDIANAPOLIS | 66 | 46 | 77 | 37 | 56 | 2 | 1.68 | 0.83 | 1.33 | 9.99 | 152 | 17.48 | 152 | 88 | 50 | 0 | 0 | 4 | 1 |
| | SOUTH BEND | 63 | 38 | 76 | 32 | 51 | 0 | 0.69 | -0.14 | 0.66 | 6.09 | 100 | 11.08 | 107 | 84 | 50 | 0 | 2 | 2 | 1 |
| IA | BURLINGTON | 67 | 46 | 81 | 37 | 57 | 2 | 0.50 | -0.37 | 0.44 | 4.82 | 79 | 9.43 | 106 | 83 | 46 | 0 | 0 | 3 | 0 |
| | CEDAR RAPIDS | 68 | 42 | 84 | 32 | 55 | 3 | 0.47 | -0.29 | 0.42 | 3.64 | 72 | 8.51 | 119 | 93 | 43 | 0 | 1 | 2 | 0 |
| | DES MOINES | 68 | 46 | 84 | 36 | 57 | 4 | 0.56 | -0.31 | 0.50 | 3.75 | 71 | 7.56 | 101 | 76 | 49 | 0 | 0 | 2 | 1 |
| | DUBUQUE | 66 | 42 | 81 | 28 | 54 | 4 | 1.11 | 0.28 | 0.77 | 4.77 | 85 | 11.42 | 138 | 82 | 51 | 0 | 1 | 3 | 1 |
| | SIOUX CITY | 68 | 40 | 81 | 33 | 54 | 2 | 0.44 | -0.22 | 0.28 | 5.27 | 121 | 6.91 | 125 | 86 | 52 | 0 | 0 | 3 | 0 |
| | WATERLOO | 67 | 43 | 86 | 32 | 55 | 4 | 1.39 | 0.62 | 1.11 | 4.79 | 98 | 8.96 | 132 | 83 | 53 | 0 | 1 | 3 | 1 |
| KS | CONCORDIA | 72 | 48 | 85 | 41 | 60 | 5 | 0.13 | -0.46 | 0.13 | 3.01 | 69 | 5.38 | 93 | 78 | 46 | 0 | 0 | 1 | 0 |
| | DODGE CITY | 74 | 45 | 90 | 40 | 60 | 4 | 0.00 | -0.53 | 0.00 | 1.34 | 36 | 2.95 | 58 | 74 | 30 | 1 | 0 | 0 | 0 |
| | GOODLAND | 70 | 41 | 82 | 31 | 56 | 5 | 0.00 | -0.40 | 0.00 | 1.44 | 61 | 2.61 | 81 | 85 | 44 | 0 | 1 | 0 | 0 |
| | TOPEKA | 73 | 51 | 86 | 45 | 62 | 5 | 0.08 | -0.68 | 0.08 | 3.16 | 60 | 6.65 | 90 | 71 | 51 | 0 | 0 | 1 | 0 |

**Based on 1971-2000 normals**

***** Not Available**

## Weather Data for the Week Ending April 27, 2019

| STATES AND STATIONS | | TEMPERATURE °F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY PERCENT | | NUMBER OF DAYS TEMP. °F | | NUMBER OF DAYS PRECIP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE MAR 1 | PCT. NORMAL SINCE MAR 1 | TOTAL, IN., SINCE JAN01 | PCT. NORMAL SINCE JAN01 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| | WICHITA | 72 | 51 | 82 | 45 | 61 | 4 | 0.08 | -0.51 | 0.08 | 3.86 | 78 | 6.00 | 88 | 77 | 57 | 0 | 0 | 1 | 0 |
| KY | JACKSON | 73 | 50 | 83 | 39 | 61 | 3 | 0.42 | -0.47 | 0.25 | 5.21 | 68 | 18.34 | 123 | 87 | 34 | 0 | 0 | 2 | 0 |
| | LEXINGTON | 73 | 50 | 80 | 42 | 61 | 4 | 0.73 | -0.12 | 0.44 | 7.26 | 95 | 19.00 | 134 | 79 | 51 | 0 | 0 | 4 | 0 |
| | LOUISVILLE | 75 | 52 | 84 | 39 | 64 | 6 | 1.27 | 0.35 | 0.68 | 10.36 | 133 | 22.76 | 159 | 84 | 39 | 0 | 0 | 4 | 1 |
| | PADUCAH | 77 | 49 | 80 | 38 | 63 | 4 | 0.47 | -0.72 | 0.45 | 12.25 | 143 | 27.45 | 172 | 83 | 48 | 0 | 0 | 3 | 0 |
| LA | BATON ROUGE | 81 | 56 | 83 | 47 | 68 | 0 | 0.17 | -1.13 | 0.17 | 11.06 | 111 | 17.96 | 84 | 93 | 42 | 0 | 0 | 1 | 0 |
| | LAKE CHARLES | 80 | 60 | 85 | 53 | 70 | 1 | 3.24 | 2.36 | 3.23 | 12.44 | 187 | 20.36 | 132 | 90 | 49 | 0 | 0 | 2 | 1 |
| | NEW ORLEANS | 79 | 61 | 82 | 50 | 70 | 1 | 1.87 | 0.78 | 1.87 | 8.50 | 87 | 19.01 | 90 | 82 | 52 | 0 | 0 | 1 | 1 |
| | SHREVEPORT | 79 | 56 | 83 | 48 | 68 | 1 | 0.99 | -0.07 | 0.99 | 8.27 | 103 | 15.91 | 95 | 90 | 51 | 0 | 0 | 1 | 1 |
| ME | CARIBOU | 51 | 36 | 62 | 31 | 43 | 2 | 0.93 | 0.32 | 0.52 | 6.81 | 140 | 15.37 | 156 | 89 | 63 | 0 | 2 | 5 | 1 |
| | PORTLAND | 55 | 41 | 60 | 38 | 48 | 2 | 1.53 | 0.57 | 0.88 | 6.64 | 83 | 16.12 | 106 | 93 | 74 | 0 | 0 | 5 | 1 |
| MD | BALTIMORE | 75 | 53 | 84 | 48 | 64 | 9 | 0.48 | -0.19 | 0.40 | 5.59 | 85 | 12.78 | 98 | 77 | 38 | 0 | 0 | 3 | 0 |
| MA | BOSTON | 59 | 48 | 70 | 45 | 54 | 3 | 3.98 | 3.19 | 2.31 | 9.32 | 131 | 16.69 | 117 | 89 | 65 | 0 | 0 | 5 | 2 |
| | WORCESTER | 57 | 43 | 65 | 37 | 50 | 3 | 3.21 | 2.33 | 1.56 | 10.96 | 142 | 19.52 | 131 | 98 | 60 | 0 | 0 | 5 | 2 |
| MI | ALPENA | 62 | 35 | 76 | 31 | 49 | 6 | 0.19 | -0.33 | 0.15 | 4.93 | 119 | 10.06 | 139 | 85 | 41 | 0 | 3 | 2 | 0 |
| | GRAND RAPIDS | 66 | 40 | 77 | 33 | 53 | 4 | 0.15 | -0.65 | 0.12 | 6.11 | 108 | 13.00 | 141 | 79 | 36 | 0 | 0 | 3 | 0 |
| | HOUGHTON LAKE | 64 | 36 | 77 | 29 | 50 | 5 | 0.05 | -0.45 | 0.05 | 5.01 | 123 | 10.02 | 144 | 76 | 41 | 0 | 3 | 1 | 0 |
| | LANSING | 65 | 40 | 76 | 31 | 53 | 5 | 0.21 | -0.48 | 0.16 | 5.30 | 104 | 10.18 | 125 | 82 | 46 | 0 | 1 | 3 | 0 |
| | MUSKEGON | 64 | 38 | 80 | 30 | 51 | 4 | 0.13 | -0.53 | 0.06 | 6.29 | 128 | 14.06 | 162 | 70 | 39 | 0 | 1 | 3 | 0 |
| | TRAVERSE CITY | 63 | 38 | 83 | 30 | 50 | 5 | 0.70 | 0.09 | 0.54 | 5.15 | 117 | 12.11 | 132 | 86 | 39 | 0 | 1 | 4 | 1 |
| MN | DULUTH | 58 | 37 | 72 | 29 | 48 | 6 | 0.30 | -0.17 | 0.18 | 3.35 | 96 | 6.43 | 118 | 75 | 45 | 0 | 3 | 3 | 0 |
| | INT'L FALLS | 62 | 31 | 72 | 24 | 47 | 4 | 0.02 | -0.30 | 0.02 | 2.31 | 109 | 5.25 | 146 | 89 | 28 | 0 | 5 | 1 | 0 |
| | MINNEAPOLIS | 64 | 44 | 77 | 36 | 54 | 4 | 0.35 | -0.17 | 0.35 | 5.98 | 154 | 9.50 | 166 | 67 | 45 | 0 | 0 | 1 | 0 |
| | ROCHESTER | 64 | 41 | 83 | 31 | 52 | 4 | 0.87 | 0.15 | 0.37 | 5.63 | 126 | 10.53 | 171 | 81 | 52 | 0 | 1 | 3 | 0 |
| | ST. CLOUD | 62 | 39 | 74 | 30 | 51 | 4 | 0.68 | 0.21 | 0.68 | 5.06 | 150 | 7.42 | 157 | 78 | 34 | 0 | 1 | 1 | 1 |
| MS | JACKSON | 80 | 52 | 83 | 45 | 66 | 1 | 1.24 | -0.12 | 1.24 | 12.58 | 113 | 22.22 | 104 | 88 | 39 | 0 | 0 | 1 | 1 |
| | MERIDIAN | 80 | 52 | 84 | 42 | 66 | 1 | 1.83 | 0.59 | 1.83 | 13.23 | 110 | 25.33 | 109 | 89 | 42 | 0 | 0 | 1 | 1 |
| | TUPELO | 79 | 52 | 83 | 44 | 65 | 2 | 0.55 | -0.56 | 0.55 | 11.52 | 107 | 32.54 | 158 | 87 | 47 | 0 | 0 | 1 | 1 |
| MO | COLUMBIA | 73 | 51 | 84 | 43 | 62 | 6 | 0.16 | -0.86 | 0.12 | 7.29 | 108 | 14.25 | 133 | 82 | 50 | 0 | 0 | 3 | 0 |
| | KANSAS CITY | 72 | 49 | 85 | 42 | 61 | 5 | 0.01 | -0.88 | 0.01 | 4.52 | 87 | 8.75 | 114 | 80 | 48 | 0 | 0 | 1 | 0 |
| | SAINT LOUIS | 73 | 52 | 87 | 43 | 63 | 4 | 0.88 | 0.02 | 0.63 | 10.02 | 147 | 16.51 | 147 | 77 | 56 | 0 | 0 | 4 | 1 |
| | SPRINGFIELD | 74 | 52 | 83 | 47 | 63 | 5 | 0.41 | -0.57 | 0.32 | 6.12 | 80 | 11.86 | 99 | 82 | 59 | 0 | 0 | 3 | 0 |
| MT | BILLINGS | 61 | 44 | 77 | 38 | 52 | 4 | 0.60 | 0.17 | 0.24 | 2.29 | 90 | 5.24 | 134 | 77 | 44 | 0 | 0 | 5 | 0 |
| | BUTTE | 57 | 33 | 62 | 25 | 45 | 4 | 0.28 | 0.04 | 0.22 | 2.44 | 149 | 3.62 | 137 | 80 | 33 | 0 | 3 | 3 | 0 |
| | CUT BANK | 58 | 35 | 65 | 30 | 46 | 3 | 0.10 | -0.13 | 0.04 | 1.58 | 128 | 2.31 | 122 | 84 | 29 | 0 | 2 | 4 | 0 |
| | GLASGOW | 63 | 40 | 71 | 32 | 51 | 4 | 0.22 | 0.03 | 0.11 | 0.76 | 74 | 2.76 | 168 | 64 | 29 | 0 | 1 | 2 | 0 |
| | GREAT FALLS | 60 | 38 | 67 | 32 | 49 | 4 | 0.13 | -0.22 | 0.11 | 2.37 | 111 | 5.93 | 178 | 88 | 33 | 0 | 1 | 2 | 0 |
| | HAVRE | 62 | 40 | 72 | 31 | 51 | 4 | 0.23 | 0.02 | 0.13 | 0.70 | 52 | 2.60 | 119 | 73 | 35 | 0 | 1 | 3 | 0 |
| | MISSOULA | 60 | 39 | 66 | 31 | 50 | 3 | 0.37 | 0.11 | 0.32 | 3.32 | 182 | 5.97 | 164 | 77 | 53 | 0 | 1 | 3 | 0 |
| NE | GRAND ISLAND | 71 | 42 | 84 | 35 | 56 | 4 | 0.29 | -0.34 | 0.26 | 6.58 | 156 | 8.03 | 147 | 86 | 46 | 0 | 0 | 2 | 0 |
| | LINCOLN | 72 | 44 | 86 | 36 | 58 | 4 | 0.51 | -0.20 | 0.20 | 3.88 | 83 | 6.86 | 115 | 80 | 50 | 0 | 0 | 5 | 0 |
| | NORFOLK | 68 | 41 | 82 | 36 | 54 | 2 | 0.40 | -0.23 | 0.18 | 7.00 | 168 | 8.70 | 158 | 85 | 47 | 0 | 0 | 5 | 0 |
| | NORTH PLATTE | 70 | 37 | 81 | 28 | 54 | 4 | 0.16 | -0.35 | 0.12 | 3.58 | 127 | 4.34 | 117 | 86 | 36 | 0 | 1 | 3 | 0 |
| | OMAHA | 72 | 48 | 88 | 39 | 60 | 6 | 0.70 | -0.04 | 0.67 | 4.31 | 94 | 7.46 | 121 | 73 | 48 | 0 | 0 | 3 | 1 |
| | SCOTTSBLUFF | 68 | 39 | 77 | 32 | 54 | 6 | 1.09 | 0.64 | 0.69 | 5.07 | 193 | 5.73 | 153 | 90 | 54 | 0 | 1 | 5 | 1 |
| | VALENTINE | 67 | 39 | 82 | 31 | 53 | 4 | 0.54 | 0.02 | 0.27 | 4.51 | 168 | 5.73 | 166 | 77 | 40 | 0 | 1 | 2 | 0 |
| NV | ELY | 63 | 35 | 71 | 30 | 49 | 5 | 1.03 | 0.83 | 0.85 | 5.96 | 333 | 8.61 | 263 | 88 | 43 | 0 | 1 | 3 | 1 |
| | LAS VEGAS | 89 | 67 | 96 | 62 | 78 | 10 | 0.00 | -0.02 | 0.00 | 0.46 | 69 | 3.55 | 182 | 33 | 18 | 4 | 0 | 0 | 0 |
| | RENO | 78 | 46 | 86 | 37 | 62 | 12 | 0.00 | -0.06 | 0.00 | 1.36 | 121 | 8.12 | 251 | 56 | 25 | 0 | 0 | 0 | 0 |
| | WINNEMUCCA | 75 | 37 | 81 | 30 | 56 | 8 | 0.02 | -0.17 | 0.02 | 1.99 | 126 | 4.67 | 154 | 72 | 34 | 0 | 3 | 1 | 0 |
| NH | CONCORD | 61 | 42 | 72 | 34 | 51 | 4 | 2.32 | 1.62 | 1.45 | 6.67 | 116 | 13.21 | 119 | 96 | 56 | 0 | 0 | 6 | 1 |
| NJ | NEWARK | 67 | 51 | 78 | 46 | 59 | 4 | 0.95 | 0.04 | 0.81 | 7.93 | 104 | 15.61 | 107 | 73 | 55 | 0 | 0 | 5 | 1 |
| NM | ALBUQUERQUE | 74 | 49 | 81 | 42 | 61 | 4 | 0.41 | 0.30 | 0.36 | 1.75 | 168 | 2.92 | 148 | 67 | 27 | 0 | 0 | 2 | 0 |
| NY | ALBANY | 66 | 46 | 75 | 38 | 56 | 7 | 1.02 | 0.28 | 0.64 | 6.19 | 103 | 13.16 | 123 | 78 | 48 | 0 | 0 | 3 | 1 |
| | BINGHAMTON | 59 | 40 | 72 | 32 | 50 | 3 | 0.73 | -0.09 | 0.62 | 5.38 | 89 | 11.61 | 105 | 86 | 54 | 0 | 1 | 4 | 1 |
| | BUFFALO | 58 | 38 | 71 | 32 | 48 | 0 | 0.56 | -0.12 | 0.48 | 5.53 | 97 | 14.52 | 129 | 90 | 60 | 0 | 1 | 4 | 0 |
| | ROCHESTER | 61 | 41 | 75 | 34 | 51 | 3 | 0.47 | -0.14 | 0.30 | 4.28 | 85 | 9.75 | 104 | 81 | 65 | 0 | 0 | 4 | 0 |
| | SYRACUSE | 61 | 42 | 78 | 34 | 51 | 3 | 0.89 | 0.12 | 0.72 | 5.36 | 89 | 11.46 | 107 | 87 | 56 | 0 | 0 | 3 | 1 |
| NC | ASHEVILLE | 75 | 48 | 84 | 40 | 61 | 5 | 0.06 | -0.70 | 0.05 | 11.60 | 150 | 23.79 | 152 | 77 | 54 | 0 | 0 | 2 | 0 |
| | CHARLOTTE | 78 | 49 | 86 | 40 | 64 | 1 | 0.07 | -0.55 | 0.07 | 8.46 | 120 | 18.99 | 130 | 79 | 35 | 0 | 0 | 1 | 0 |
| | GREENSBORO | 76 | 50 | 84 | 44 | 63 | 4 | 0.04 | -0.75 | 0.04 | 7.35 | 107 | 17.25 | 128 | 83 | 41 | 0 | 0 | 1 | 0 |
| | HATTERAS | 75 | 62 | 77 | 58 | 68 | 7 | 0.33 | -0.33 | 0.32 | 12.51 | 157 | 22.52 | 127 | 86 | 55 | 0 | 0 | 2 | 0 |
| | RALEIGH | 76 | 49 | 84 | 43 | 63 | 2 | 0.21 | -0.41 | 0.21 | 9.54 | 147 | 17.23 | 123 | 86 | 47 | 0 | 0 | 1 | 0 |
| | WILMINGTON | 80 | 56 | 88 | 48 | 68 | 4 | 0.00 | -0.66 | 0.00 | 6.93 | 102 | 10.76 | 72 | 83 | 33 | 0 | 0 | 0 | 0 |
| ND | BISMARCK | 65 | 36 | 77 | 29 | 50 | 4 | 0.02 | -0.35 | 0.02 | 1.73 | 85 | 3.53 | 118 | 81 | 34 | 0 | 1 | 1 | 0 |
| | DICKINSON | 59 | 33 | 73 | 24 | 46 | 0 | 0.52 | 0.08 | 0.36 | 1.76 | 81 | 4.15 | 139 | 86 | 33 | 0 | 4 | 3 | 0 |
| | FARGO | 65 | 40 | 75 | 30 | 53 | 6 | 0.04 | -0.27 | 0.04 | 2.19 | 96 | 4.76 | 131 | 84 | 30 | 0 | 1 | 1 | 0 |
| | GRAND FORKS | 63 | 35 | 73 | 29 | 49 | 3 | 0.00 | -0.29 | 0.00 | 1.89 | 100 | 4.76 | 151 | 85 | 29 | 0 | 3 | 0 | 0 |
| | JAMESTOWN | 64 | 36 | 73 | 30 | 50 | 4 | 0.11 | -0.22 | 0.11 | 1.93 | 97 | 3.76 | 120 | 85 | 28 | 0 | 2 | 1 | 0 |
| | WILLISTON | 63 | 34 | 74 | 24 | 49 | 4 | 0.11 | -0.15 | 0.07 | 0.46 | 29 | 2.39 | 95 | 80 | 46 | 0 | 3 | 2 | 0 |
| OH | AKRON-CANTON | 63 | 44 | 74 | 40 | 54 | 4 | 0.93 | 0.12 | 0.50 | 6.46 | 106 | 13.87 | 128 | 81 | 59 | 0 | 0 | 3 | 1 |
| | CINCINNATI | 69 | 48 | 77 | 40 | 59 | 3 | 1.45 | 0.54 | 0.58 | 10.72 | 145 | 22.06 | 169 | 83 | 57 | 0 | 0 | 4 | 1 |
| | CLEVELAND | 63 | 45 | 73 | 40 | 54 | 4 | 1.05 | 0.28 | 0.60 | 6.28 | 106 | 13.44 | 126 | 88 | 51 | 0 | 0 | 4 | 1 |
| | COLUMBUS | 65 | 44 | 75 | 41 | 55 | 1 | 1.58 | 0.81 | 0.67 | 8.79 | 154 | 17.37 | 167 | 87 | 64 | 0 | 0 | 3 | 2 |
| | DAYTON | 66 | 44 | 74 | 39 | 55 | 2 | 1.35 | 0.41 | 0.63 | 7.90 | 115 | 18.30 | 156 | 86 | 47 | 0 | 0 | 3 | 1 |
| | MANSFIELD | 63 | 43 | 71 | 38 | 53 | 4 | 1.58 | 0.62 | 0.70 | 7.57 | 108 | 15.04 | 127 | 97 | 48 | 0 | 0 | 4 | 2 |

**Based on 1971-2000 normals**

***** Not Available**

## Weather Data for the Week Ending April 27, 2019

| STATES AND STATIONS | | TEMPERATURE ˚F | | | | | | PRECIPITATION | | | | | | | RELATIVE HUMIDITY PERCENT | | NUMBER OF DAYS TEMP. ˚F | | NUMBER OF DAYS PRECIP | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN., SINCE MAR 1 | PCT. NORMAL SINCE MAR 1 | TOTAL, IN., SINCE JAN01 | PCT. NORMAL SINCE JAN01 | AVERAGE MAXIMUM | AVERAGE MINIMUM | 90 AND ABOVE | 32 AND BELOW | .01 INCH OR MORE | .50 INCH OR MORE |
| | TOLEDO | 66 | 43 | 75 | 37 | 55 | 4 | 1.26 | 0.53 | 0.57 | 7.66 | 139 | 12.03 | 129 | 81 | 47 | 0 | 0 | 3 | 1 |
| | YOUNGSTOWN | 62 | 43 | 72 | 39 | 52 | 2 | 1.08 | 0.31 | 0.50 | 7.10 | 118 | 14.56 | 140 | 82 | 57 | 0 | 0 | 4 | 1 |
| OK | OKLAHOMA CITY | 73 | 54 | 81 | 46 | 63 | 1 | 1.39 | 0.64 | 1.38 | 7.28 | 135 | 9.82 | 119 | 89 | 59 | 0 | 0 | 2 | 1 |
| | TULSA | 77 | 56 | 85 | 47 | 66 | 3 | 0.08 | -0.90 | 0.08 | 6.00 | 87 | 11.07 | 106 | 81 | 63 | 0 | 0 | 1 | 0 |
| OR | ASTORIA | 57 | 44 | 65 | 37 | 51 | 2 | 0.25 | -0.75 | 0.12 | 7.80 | 65 | 20.38 | 69 | 85 | 61 | 0 | 0 | 3 | 0 |
| | BURNS | 69 | 37 | 74 | 29 | 53 | 9 | 0.00 | -0.18 | 0.00 | 3.60 | 185 | 7.84 | 185 | 78 | 42 | 0 | 2 | 0 | 0 |
| | EUGENE | 67 | 43 | 72 | 39 | 55 | 4 | 0.00 | -0.74 | 0.00 | 8.41 | 91 | 19.64 | 85 | 85 | 60 | 0 | 0 | 0 | 0 |
| | MEDFORD | 77 | 47 | 83 | 41 | 62 | 9 | 0.00 | -0.28 | 0.00 | 3.96 | 132 | 11.95 | 158 | 79 | 33 | 0 | 0 | 0 | 0 |
| | PENDLETON | 66 | 43 | 70 | 36 | 55 | 3 | 0.00 | -0.25 | 0.00 | 2.91 | 131 | 7.76 | 159 | 73 | 48 | 0 | 0 | 0 | 0 |
| | PORTLAND | 67 | 46 | 74 | 41 | 56 | 4 | 0.02 | -0.55 | 0.01 | 4.53 | 74 | 11.42 | 74 | 78 | 54 | 0 | 0 | 2 | 0 |
| | SALEM | 66 | 44 | 72 | 38 | 55 | 4 | 0.00 | -0.58 | 0.00 | 6.81 | 102 | 16.83 | 96 | 80 | 58 | 0 | 0 | 0 | 0 |
| PA | ALLENTOWN | 70 | 50 | 80 | 47 | 60 | 9 | 0.88 | 0.06 | 0.88 | 9.43 | 143 | 17.24 | 134 | 69 | 44 | 0 | 0 | 1 | 1 |
| | ERIE | 58 | 41 | 71 | 38 | 50 | 1 | 0.64 | -0.11 | 0.39 | 6.25 | 101 | 13.03 | 119 | 82 | 61 | 0 | 0 | 4 | 0 |
| | MIDDLETOWN | 69 | 52 | 80 | 49 | 61 | 7 | 0.41 | -0.37 | 0.27 | 7.94 | 131 | 14.82 | 125 | 85 | 41 | 0 | 0 | 3 | 0 |
| | PHILADELPHIA | 71 | 54 | 79 | 50 | 63 | 8 | 0.79 | -0.01 | 0.78 | 7.66 | 111 | 14.95 | 114 | 69 | 44 | 0 | 0 | 2 | 1 |
| | PITTSBURGH | 64 | 45 | 77 | 41 | 55 | 3 | 1.03 | 0.34 | 0.63 | 5.45 | 94 | 13.74 | 126 | 89 | 50 | 0 | 0 | 5 | 1 |
| | WILKES-BARRE | 66 | 46 | 76 | 39 | 56 | 5 | 0.86 | 0.09 | 0.75 | 7.13 | 129 | 13.37 | 133 | 80 | 44 | 0 | 0 | 2 | 1 |
| | WILLIAMSPORT | 67 | 47 | 72 | 42 | 57 | 6 | 0.51 | -0.29 | 0.38 | 6.00 | 96 | 13.27 | 113 | 79 | 45 | 0 | 0 | 3 | 0 |
| RI | PROVIDENCE | 63 | 47 | 68 | 43 | 55 | 4 | 2.50 | 1.59 | 1.80 | 9.97 | 121 | 20.39 | 127 | 94 | 69 | 0 | 0 | 6 | 1 |
| SC | CHARLESTON | 80 | 54 | 88 | 46 | 67 | 1 | 0.00 | -0.54 | 0.00 | 3.71 | 56 | 6.07 | 44 | 87 | 36 | 0 | 0 | 0 | 0 |
| | COLUMBIA | 81 | 49 | 89 | 42 | 65 | 0 | 0.00 | -0.57 | 0.00 | 5.49 | 74 | 9.44 | 59 | 79 | 40 | 0 | 0 | 0 | 0 |
| | FLORENCE | 81 | 51 | 89 | 43 | 66 | 1 | 0.00 | -0.56 | 0.00 | 6.40 | 98 | 10.91 | 80 | 87 | 31 | 0 | 0 | 0 | 0 |
| | GREENVILLE | 78 | 50 | 85 | 41 | 64 | 3 | 0.03 | -0.74 | 0.03 | 6.97 | 82 | 19.22 | 112 | 79 | 35 | 0 | 0 | 1 | 0 |
| SD | ABERDEEN | 67 | 39 | 80 | 31 | 53 | 4 | 0.07 | -0.35 | 0.07 | 2.56 | 88 | 5.00 | 129 | 81 | 32 | 0 | 2 | 1 | 0 |
| | HURON | 65 | 40 | 78 | 30 | 53 | 4 | 0.81 | 0.27 | 0.79 | 5.19 | 143 | 7.27 | 155 | 85 | 37 | 0 | 2 | 3 | 1 |
| | RAPID CITY | 61 | 37 | 72 | 32 | 49 | 2 | 0.31 | -0.16 | 0.15 | 3.62 | 143 | 5.10 | 151 | 89 | 47 | 0 | 1 | 4 | 0 |
| | SIOUX FALLS | 65 | 42 | 80 | 34 | 53 | 4 | 1.75 | 1.12 | 0.76 | 8.09 | 198 | 10.61 | 208 | 82 | 52 | 0 | 0 | 4 | 2 |
| TN | BRISTOL | 71 | 45 | 80 | 38 | 58 | 2 | 0.62 | -0.14 | 0.61 | 8.85 | 132 | 23.61 | 173 | 90 | 40 | 0 | 0 | 2 | 1 |
| | CHATTANOOGA | 80 | 50 | 85 | 41 | 65 | 4 | 0.00 | -0.88 | 0.00 | 10.32 | 103 | 28.63 | 141 | 84 | 42 | 0 | 0 | 0 | 0 |
| | KNOXVILLE | 75 | 49 | 80 | 43 | 62 | 3 | 0.08 | -0.81 | 0.08 | 8.45 | 97 | 26.51 | 153 | 84 | 36 | 0 | 0 | 1 | 0 |
| | MEMPHIS | 76 | 55 | 80 | 48 | 66 | 2 | 0.21 | -1.14 | 0.21 | 12.01 | 112 | 25.54 | 132 | 84 | 49 | 0 | 0 | 1 | 0 |
| | NASHVILLE | 79 | 49 | 83 | 35 | 64 | 4 | 0.21 | -0.69 | 0.21 | 9.87 | 119 | 28.28 | 177 | 83 | 33 | 0 | 0 | 1 | 0 |
| TX | ABILENE | 79 | 59 | 88 | 51 | 69 | 3 | 2.98 | 2.58 | 2.16 | 6.02 | 215 | 7.12 | 145 | 86 | 61 | 0 | 0 | 2 | 2 |
| | AMARILLO | 72 | 47 | 86 | 35 | 60 | 2 | 0.42 | 0.11 | 0.28 | 3.24 | 145 | 3.58 | 105 | 79 | 40 | 0 | 0 | 4 | 0 |
| | AUSTIN | 82 | 58 | 88 | 50 | 70 | 0 | 1.88 | 1.21 | 1.88 | 6.67 | 161 | 10.54 | 131 | 85 | 62 | 0 | 0 | 1 | 1 |
| | BEAUMONT | 81 | 62 | 86 | 53 | 72 | 3 | 0.64 | -0.25 | 0.63 | 3.92 | 55 | 13.44 | 83 | 89 | 56 | 0 | 0 | 2 | 1 |
| | BROWNSVILLE | 87 | 68 | 91 | 62 | 78 | 3 | 0.03 | -0.46 | 0.03 | 2.63 | 103 | 4.53 | 89 | 96 | 52 | 2 | 0 | 1 | 0 |
| | CORPUS CHRISTI | 84 | 65 | 88 | 61 | 75 | 2 | 0.54 | 0.02 | 0.54 | 4.57 | 134 | 6.98 | 101 | 90 | 56 | 0 | 0 | 1 | 1 |
| | DEL RIO | 85 | 62 | 94 | 53 | 74 | 2 | 0.85 | 0.41 | 0.83 | 1.66 | 71 | 1.91 | 49 | 80 | 62 | 2 | 0 | 2 | 1 |
| | EL PASO | 86 | 58 | 94 | 53 | 72 | 6 | 0.08 | 0.02 | 0.08 | 0.33 | 83 | 0.55 | 44 | 49 | 16 | 2 | 0 | 1 | 0 |
| | FORT WORTH | 78 | 60 | 85 | 57 | 69 | 2 | 3.57 | 2.75 | 2.16 | 8.78 | 154 | 11.65 | 117 | 84 | 51 | 0 | 0 | 2 | 2 |
| | GALVESTON | 79 | 68 | 85 | 65 | 73 | 2 | 0.04 | -0.54 | 0.04 | 2.52 | 51 | 10.40 | 89 | 90 | 59 | 0 | 0 | 1 | 0 |
| | HOUSTON | 82 | 62 | 86 | 54 | 72 | 2 | 0.09 | -0.75 | 0.05 | 3.89 | 60 | 10.00 | 76 | 97 | 62 | 0 | 0 | 3 | 0 |
| | LUBBOCK | 77 | 53 | 92 | 43 | 65 | 3 | 0.70 | 0.38 | 0.35 | 2.85 | 159 | 2.91 | 97 | 82 | 52 | 1 | 0 | 3 | 0 |
| | MIDLAND | 80 | 57 | 91 | 51 | 69 | 3 | 0.53 | 0.31 | 0.43 | 2.96 | 329 | 3.10 | 154 | 86 | 55 | 2 | 0 | 2 | 0 |
| | SAN ANGELO | 81 | 56 | 89 | 49 | 68 | 1 | 1.89 | 1.46 | 1.80 | 3.66 | 166 | 4.26 | 101 | 87 | 63 | 0 | 0 | 2 | 1 |
| | SAN ANTONIO | 81 | 60 | 87 | 54 | 70 | 0 | 0.44 | -0.23 | 0.43 | 3.95 | 99 | 6.05 | 82 | 89 | 55 | 0 | 0 | 2 | 0 |
| | VICTORIA | 84 | 61 | 88 | 57 | 73 | 2 | 0.05 | -0.71 | 0.04 | 2.62 | 56 | 7.41 | 81 | 93 | 58 | 0 | 0 | 2 | 0 |
| | WACO | 78 | 59 | 82 | 53 | 68 | 1 | 2.01 | 1.22 | 2.01 | 8.20 | 167 | 13.78 | 149 | 90 | 71 | 0 | 0 | 1 | 1 |
| | WICHITA FALLS | 77 | 55 | 85 | 52 | 66 | 2 | 0.73 | 0.10 | 0.72 | 6.03 | 134 | 7.92 | 110 | 93 | 68 | 0 | 0 | 2 | 1 |
| UT | SALT LAKE CITY | 68 | 48 | 74 | 43 | 58 | 7 | 0.60 | 0.12 | 0.59 | 7.00 | 193 | 10.02 | 158 | 79 | 45 | 0 | 0 | 2 | 1 |
| VT | BURLINGTON | 62 | 45 | 75 | 38 | 53 | 7 | 1.24 | 0.56 | 0.57 | 5.88 | 122 | 11.50 | 132 | 85 | 49 | 0 | 0 | 4 | 1 |
| VA | LYNCHBURG | 76 | 51 | 83 | 37 | 64 | 7 | 0.38 | -0.42 | 0.38 | 7.57 | 110 | 15.22 | 113 | 81 | 39 | 0 | 0 | 1 | 0 |
| | NORFOLK | 77 | 57 | 86 | 52 | 67 | 8 | 0.35 | -0.40 | 0.35 | 5.67 | 80 | 14.17 | 99 | 77 | 45 | 0 | 0 | 1 | 0 |
| | RICHMOND | 78 | 54 | 85 | 46 | 66 | 7 | 0.83 | 0.12 | 0.83 | 6.94 | 101 | 14.55 | 108 | 74 | 43 | 0 | 0 | 1 | 1 |
| | ROANOKE | 76 | 50 | 86 | 43 | 63 | 5 | 0.17 | -0.67 | 0.17 | 6.42 | 92 | 14.94 | 112 | 71 | 40 | 0 | 0 | 1 | 0 |
| | WASH/DULLES | 74 | 51 | 83 | 45 | 62 | 7 | 0.57 | -0.17 | 0.41 | 7.36 | 116 | 14.82 | 122 | 79 | 38 | 0 | 0 | 3 | 0 |
| WA | OLYMPIA | 61 | 37 | 65 | 32 | 49 | 0 | 0.06 | -0.66 | 0.06 | 4.07 | 47 | 14.11 | 63 | 91 | 57 | 0 | 1 | 1 | 0 |
| | QUILLAYUTE | 55 | 40 | 64 | 33 | 48 | 0 | 0.66 | -0.92 | 0.46 | 9.78 | 55 | 30.85 | 70 | 94 | 66 | 0 | 0 | 3 | 0 |
| | SEATTLE-TACOMA | 60 | 46 | 63 | 44 | 53 | 2 | 0.27 | -0.25 | 0.14 | 4.90 | 80 | 13.35 | 86 | 77 | 61 | 0 | 0 | 2 | 0 |
| | SPOKANE | 63 | 42 | 67 | 36 | 52 | 4 | 0.07 | -0.22 | 0.07 | 2.18 | 84 | 6.33 | 107 | 68 | 30 | 0 | 0 | 1 | 0 |
| | YAKIMA | 70 | 42 | 75 | 34 | 56 | 6 | 0.00 | -0.10 | 0.00 | 1.30 | 113 | 5.13 | 164 | 57 | 33 | 0 | 0 | 0 | 0 |
| WV | BECKLEY | 69 | 46 | 79 | 39 | 58 | 5 | 0.57 | -0.25 | 0.57 | 5.44 | 83 | 16.90 | 132 | 77 | 55 | 0 | 0 | 1 | 1 |
| | CHARLESTON | 72 | 47 | 84 | 39 | 60 | 4 | 0.48 | -0.27 | 0.39 | 4.73 | 70 | 13.86 | 105 | 96 | 44 | 0 | 0 | 4 | 0 |
| | ELKINS | 68 | 45 | 81 | 39 | 57 | 6 | 1.05 | 0.22 | 0.58 | 6.08 | 87 | 13.80 | 101 | 84 | 50 | 0 | 0 | 4 | 1 |
| | HUNTINGTON | 72 | 47 | 84 | 40 | 60 | 3 | 0.95 | 0.17 | 0.66 | 4.94 | 74 | 14.12 | 109 | 89 | 42 | 0 | 0 | 4 | 1 |
| WI | EAU CLAIRE | 64 | 39 | 80 | 30 | 51 | 3 | 0.13 | -0.56 | 0.13 | 3.99 | 91 | 8.79 | 141 | 82 | 31 | 0 | 2 | 1 | 0 |
| | GREEN BAY | 61 | 41 | 74 | 32 | 51 | 4 | 1.04 | 0.47 | 0.79 | 5.11 | 118 | 10.16 | 155 | 86 | 45 | 0 | 1 | 3 | 1 |
| | LA CROSSE | 66 | 43 | 85 | 32 | 55 | 4 | 0.58 | -0.22 | 0.24 | 4.81 | 99 | 10.01 | 143 | 79 | 37 | 0 | 1 | 3 | 0 |
| | MADISON | 66 | 41 | 80 | 30 | 54 | 5 | 1.46 | 0.69 | 1.00 | 4.02 | 77 | 10.12 | 130 | 80 | 44 | 0 | 1 | 4 | 1 |
| | MILWAUKEE | 62 | 40 | 76 | 31 | 51 | 4 | 1.21 | 0.34 | 0.68 | 4.39 | 74 | 10.17 | 108 | 75 | 46 | 0 | 1 | 4 | 1 |
| WY | CASPER | 62 | 34 | 70 | 31 | 48 | 4 | 0.34 | -0.07 | 0.16 | 2.85 | 137 | 3.83 | 116 | 98 | 61 | 0 | 3 | 4 | 0 |
| | CHEYENNE | 62 | 37 | 78 | 34 | 50 | 7 | 0.05 | -0.34 | 0.05 | 4.01 | 175 | 4.86 | 153 | 84 | 53 | 0 | 0 | 1 | 0 |
| | LANDER | 62 | 37 | 70 | 33 | 49 | 3 | 0.74 | 0.22 | 0.59 | 4.27 | 145 | 5.52 | 138 | 90 | 34 | 0 | 0 | 3 | 1 |
| | SHERIDAN | 60 | 37 | 74 | 31 | 49 | 3 | 0.66 | 0.22 | 0.33 | 2.35 | 96 | 3.76 | 99 | 84 | 52 | 0 | 1 | 3 | 0 |

**Based on 1971-2000 normals**

***** Not Available**

# National Agricultural Summary

## April 22 – 28, 2019

*Weekly National Agricultural Summary provided by USDA/NASS*

### HIGHLIGHTS

**Rain fell most heavily in the Great Lakes Region, New England, and the southern Plains, with some areas receiving more than 3 inches. However, little or no rain fell in the Pacific Northwest, Arizona, California, northern Missouri, Tennessee, the Southeast, and parts of the northern Great Plains. Weekly temperatures averaged slightly below normal in parts of Alabama, Florida, Georgia, and Mississippi. Across the rest of the country, temperatures generally averaged at least 2°F above normal.**

**Corn**: By April 28, producers had planted 15 percent of the nation's corn acreage, equal to last year but 12 percentage points behind the 5-year average. Twenty-one percent of Iowa's intended corn acreage was planted by week's end. This was 6 percentage points ahead of last year but 5 points behind average. Three percent of the nation's corn acreage had emerged by April 28, equal to last year but 2 percentage points behind average.

**Soybean**: Three percent of the nation's soybean acreage was planted by April 28, two percentage points behind last year and 3 points behind the 5-year average. States with 10 percent or more of the intended acreage planted were Arkansas, Louisiana, and Mississippi with 10, 24, and 20 percent, respectively.

**Winter Wheat:** By April 28, nineteen percent of the nation's winter wheat acreage had reached the headed stage, 1 percentage point ahead of last year but 10 points behind the 5-year average. On April 28, sixty-four percent of the 2019 winter wheat acreage was reported in good to excellent condition, 2 percentage points above of the previous week and 31 points above last year. In Kansas, the largest winter wheat-producing state, 58 percent of the acreage was rated in good to excellent condition, an increase of 1 percentage point from the previous week.

**Cotton:** Nationwide, 11 percent of the cotton acreage had been planted by April 28, one percentage point behind last year and 2 points behind the 5-year average. In Texas, 13 percent of the 2019 cotton acreage was planted by April 28, two percentage points behind the previous year but equal to the 5-year average.

**Sorghum:** Twenty percent of the nation's sorghum acreage was planted by April 28, six percentage points behind the previous year and 5 points behind the 5-year average. Texas producers had planted 65 percent of the intended sorghum acreage by week's end, 16 percentage points behind last year and 1 point behind average.

**Rice:** By April 28, producers had seeded 38 percent of the 2019 rice acreage, 16 percentage points behind the previous year and 19 points behind the 5-year average. Louisiana had the largest percentage of acreage planted, at 85 percent, 8 percentage points behind last year and 3 points behind average. By April 28, twenty-seven percent of the nation's rice acreage had emerged, 1 percentage point behind last year and 10 points behind average.

**Small Grains:** Nationally, oat producers had seeded 43 percent of this year's acreage by April 28, five percentage points ahead of the previous year but 18 points behind the 5-year average. Oat planting progress was behind the 5-year average in five of the nine estimating states. Thirty-one percent of the nation's oat acreage had emerged by April 28, two percentage points ahead of the previous year but 10 points behind average.

Twenty-eight percent of the nation's barley was planted by April 28, four percentage points ahead of last year but 13 points behind the 5-year average. Planting progress was behind average in all estimating states. Planting had not yet begun in Minnesota. Twenty-three percent of Montana's intended acreage was planted by April 28, six percentage points ahead of last year but 18 points behind average. Six percent of the nation's barley acreage had emerged by April 28, equal to the previous year but 9 percentage points behind average.

By April 28, thirteen percent of the spring wheat acreage was seeded, 4 percentage points ahead of last year but 20 points behind the 5-year average. Spring wheat planting progress was behind the 5-year average pace in all estimating states.

**Other Crops:** Nationally, peanut producers had planted 8 percent of the 2019 peanut acreage by April 28, equal to both last year and the 5-year average. Producers in Florida had planted 23 percent of the 2019 intended acreage by week's end, 3 percentage points ahead of last year and 8 points ahead of average.

By April 28, twenty-five percent of the sugarbeet acreage was planted, 3 percentage points ahead of last year but 23 points behind the 5-year average.

# Crop Progress and Condition

## Week Ending April 28, 2019

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

### Corn Percent Planted

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| CO | 6 | 2 | 8 | 14 |
| IL | 28 | 1 | 9 | 43 |
| IN | 7 | 1 | 2 | 17 |
| IA | 15 | 4 | 21 | 26 |
| KS | 25 | 17 | 31 | 36 |
| KY | 14 | 17 | 28 | 31 |
| MI | 3 | 0 | 2 | 5 |
| MN | 0 | 0 | 2 | 24 |
| MO | 47 | 16 | 45 | 55 |
| NE | 15 | 2 | 16 | 23 |
| NC | 61 | 28 | 53 | 68 |
| ND | 0 | 0 | 1 | 7 |
| OH | 1 | 1 | 2 | 13 |
| PA | 1 | 0 | 5 | 8 |
| SD | 0 | 0 | 0 | 11 |
| TN | 35 | 24 | 41 | 50 |
| TX | 69 | 59 | 65 | 65 |
| WI | 3 | 1 | 4 | 8 |
| 18 Sts | 15 | 6 | 15 | 27 |

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

### Corn Percent Emerged

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| CO | 0 | NA | 0 | 0 |
| IL | 0 | NA | 0 | 8 |
| IN | 0 | NA | 0 | 2 |
| IA | 0 | NA | 0 | 1 |
| KS | 5 | NA | 3 | 14 |
| KY | 3 | 3 | 12 | 11 |
| MI | 0 | NA | 0 | 0 |
| MN | 0 | NA | 0 | 1 |
| MO | 5 | 2 | 7 | 19 |
| NE | 0 | NA | 0 | 2 |
| NC | 32 | 7 | 23 | 37 |
| ND | 0 | NA | 0 | 0 |
| OH | 0 | NA | 0 | 1 |
| PA | 0 | NA | 0 | 1 |
| SD | 0 | NA | 0 | 0 |
| TN | 7 | 9 | 19 | 19 |
| TX | 50 | 45 | 55 | 53 |
| WI | 0 | NA | 0 | 0 |
| 18 Sts | 3 | NA | 3 | 5 |

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

### Soybeans Percent Planted

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| AR | 25 | 6 | 10 | 26 |
| IL | 6 | 0 | 3 | 6 |
| IN | 3 | 0 | 0 | 4 |
| IA | 3 | 0 | 3 | 3 |
| KS | 2 | 0 | 2 | 2 |
| KY | 1 | 1 | 4 | 2 |
| LA | 38 | 16 | 24 | 43 |
| MI | 0 | 0 | 2 | 1 |
| MN | 0 | 0 | 0 | 3 |
| MS | 34 | 16 | 20 | 41 |
| MO | 4 | 0 | 2 | 4 |
| NE | 5 | 0 | 3 | 5 |
| NC | 4 | 0 | 5 | 2 |
| ND | 0 | 0 | 0 | 1 |
| OH | 1 | 0 | 1 | 3 |
| SD | 0 | 0 | 0 | 1 |
| TN | 2 | 1 | 3 | 4 |
| WI | 1 | 0 | 0 | 1 |
| 18 Sts | 5 | 1 | 3 | 6 |

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

### Cotton Percent Planted

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| AL | 8 | 2 | 6 | 11 |
| AZ | 51 | 40 | 50 | 63 |
| AR | 2 | 0 | 5 | 10 |
| CA | 64 | 35 | 50 | 68 |
| GA | 9 | 6 | 12 | 7 |
| KS | 0 | 0 | 0 | 1 |
| LA | 4 | 0 | 3 | 18 |
| MS | 6 | 0 | 2 | 11 |
| MO | 3 | 2 | 4 | 12 |
| NC | 1 | 0 | 3 | 2 |
| OK | 5 | 5 | 6 | 6 |
| SC | 3 | 1 | 5 | 8 |
| TN | 1 | 1 | 1 | 4 |
| TX | 15 | 12 | 13 | 13 |
| VA | 5 | 0 | 0 | 5 |
| 15 Sts | 12 | 9 | 11 | 13 |

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

### Rice Percent Planted

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| AR | 59 | 24 | 34 | 65 |
| CA | 2 | 0 | 0 | 7 |
| LA | 93 | 82 | 85 | 88 |
| MS | 43 | 19 | 32 | 54 |
| MO | 48 | 23 | 33 | 53 |
| TX | 77 | 64 | 73 | 75 |
| 6 Sts | 54 | 31 | 38 | 57 |

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

### Rice Percent Emerged

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| AR | 22 | 9 | 20 | 38 |
| CA | 0 | 0 | 0 | 1 |
| LA | 81 | 70 | 77 | 76 |
| MS | 13 | 10 | 18 | 31 |
| MO | 2 | 4 | 13 | 19 |
| TX | 68 | 43 | 53 | 67 |
| 6 Sts | 28 | 18 | 27 | 37 |

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

### Sorghum Percent Planted

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| CO | 0 | 0 | 0 | 1 |
| KS | 0 | 0 | 0 | 0 |
| NE | 0 | 0 | 1 | 1 |
| OK | 12 | 4 | 8 | 15 |
| SD | 0 | 0 | 0 | 0 |
| TX | 81 | 57 | 65 | 66 |
| 6 Sts | 26 | 17 | 20 | 25 |

These 6 States planted 97% of last year's sorghum acreage.

### Sugarbeets Percent Planted

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| ID | 82 | 70 | 94 | 80 |
| MI | 11 | 12 | 24 | 32 |
| MN | 9 | 0 | 7 | 45 |
| ND | 9 | 0 | 7 | 39 |
| 4 Sts | 22 | 14 | 25 | 48 |

These 4 States planted 84% of last year's sugarbeet acreage.

# Crop Progress and Condition

## Week Ending April 28, 2019

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

### Oats Percent Planted

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| IA | 56 | 48 | 77 | 77 |
| MN | 3 | 4 | 12 | 40 |
| NE | 61 | 30 | 55 | 84 |
| ND | 1 | 0 | 1 | 19 |
| OH | 24 | 38 | 50 | 48 |
| PA | 24 | 59 | 68 | 52 |
| SD | 6 | 3 | 7 | 62 |
| TX | 100 | 100 | 100 | 100 |
| WI | 14 | 10 | 19 | 32 |
| 9 Sts | 38 | 36 | 43 | 61 |

These 9 States planted 66% of last year's oat acreage.

### Oats Percent Emerged

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| IA | 9 | 4 | 14 | 36 |
| MN | 0 | 0 | 0 | 17 |
| NE | 28 | 2 | 18 | 56 |
| ND | 0 | 0 | 0 | 3 |
| OH | 6 | 11 | 24 | 18 |
| PA | 3 | 30 | 53 | 25 |
| SD | 1 | 0 | 0 | 29 |
| TX | 100 | 100 | 100 | 100 |
| WI | 3 | 1 | 4 | 9 |
| 9 Sts | 29 | 27 | 31 | 41 |

These 9 States planted 66% of last year's oat acreage.

### Peanuts Percent Planted

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| AL | 11 | 1 | 9 | 9 |
| FL | 20 | 13 | 23 | 15 |
| GA | 8 | 1 | 9 | 9 |
| NC | 3 | 0 | 1 | 2 |
| OK | 0 | 0 | 10 | 9 |
| SC | 3 | 0 | 7 | 5 |
| TX | 0 | 0 | 0 | 3 |
| VA | 1 | 0 | 0 | 1 |
| 8 Sts | 8 | 2 | 8 | 8 |

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

### Winter Wheat Percent Headed

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| AR | 63 | 40 | 63 | 62 |
| CA | 36 | 40 | 55 | 78 |
| CO | 0 | 0 | 0 | 1 |
| ID | 2 | 0 | 1 | 2 |
| IL | 5 | 2 | 3 | 17 |
| IN | 3 | 1 | 1 | 9 |
| KS | 2 | 0 | 4 | 22 |
| MI | 0 | 0 | 0 | 0 |
| MO | 4 | 2 | 11 | 25 |
| MT | 0 | 0 | 0 | 0 |
| NE | 0 | 0 | 0 | 0 |
| NC | 46 | 9 | 41 | 49 |
| OH | 1 | 0 | 1 | 2 |
| OK | 33 | 11 | 37 | 60 |
| OR | 2 | 0 | 0 | 2 |
| SD | 0 | 0 | 0 | 0 |
| TX | 68 | 41 | 64 | 65 |
| WA | 0 | 0 | 1 | 2 |
| 18 Sts | 18 | 9 | 19 | 29 |

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

### Winter Wheat Condition by Percent

| | VP | P | F | G | EX |
|---|---|---|---|---|---|
| AR | 1 | 5 | 49 | 38 | 7 |
| CA | 0 | 0 | 0 | 30 | 70 |
| CO | 0 | 2 | 22 | 60 | 16 |
| ID | 0 | 3 | 31 | 51 | 15 |
| IL | 5 | 14 | 37 | 38 | 6 |
| IN | 3 | 10 | 35 | 45 | 7 |
| KS | 3 | 8 | 31 | 48 | 10 |
| MI | 5 | 18 | 33 | 36 | 8 |
| MO | 2 | 9 | 47 | 34 | 8 |
| MT | 1 | 4 | 17 | 40 | 38 |
| NE | 1 | 3 | 28 | 65 | 3 |
| NC | 8 | 12 | 28 | 40 | 12 |
| OH | 8 | 22 | 41 | 26 | 3 |
| OK | 0 | 2 | 19 | 61 | 18 |
| OR | 2 | 8 | 25 | 33 | 32 |
| SD | 0 | 2 | 41 | 55 | 2 |
| TX | 2 | 8 | 29 | 46 | 15 |
| WA | 0 | 1 | 31 | 60 | 8 |
| 18 Sts | 2 | 6 | 28 | 49 | 15 |
| Prev Wk | 2 | 6 | 30 | 48 | 14 |
| Prev Yr | 16 | 21 | 30 | 26 | 7 |

### Spring Wheat Percent Planted

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| ID | 61 | 40 | 61 | 71 |
| MN | 2 | 0 | 2 | 33 |
| MT | 5 | 10 | 23 | 34 |
| ND | 3 | 0 | 5 | 21 |
| SD | 11 | 2 | 8 | 60 |
| WA | 72 | 27 | 52 | 73 |
| 6 Sts | 9 | 5 | 13 | 33 |

These 6 States planted 99% of last year's spring wheat acreage.

### Barley Percent Planted

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| ID | 65 | 44 | 66 | 73 |
| MN | 1 | 0 | 0 | 24 |
| MT | 17 | 11 | 23 | 41 |
| ND | 1 | 0 | 1 | 16 |
| WA | 51 | 21 | 39 | 54 |
| 5 Sts | 24 | 17 | 28 | 41 |

These 5 States planted 78% of last year's barley acreage.

### Barley Percent Emerged

| | Prev Year | Prev Week | Apr 28 2019 | 5-Yr Avg |
|---|---|---|---|---|
| ID | 24 | 8 | 21 | 40 |
| MN | 0 | 0 | 0 | 7 |
| MT | 0 | 0 | 0 | 10 |
| ND | 0 | 0 | 0 | 3 |
| WA | 16 | 1 | 6 | 24 |
| 5 Sts | 6 | 2 | 6 | 15 |

These 5 States planted 78% of last year's barley acreage.

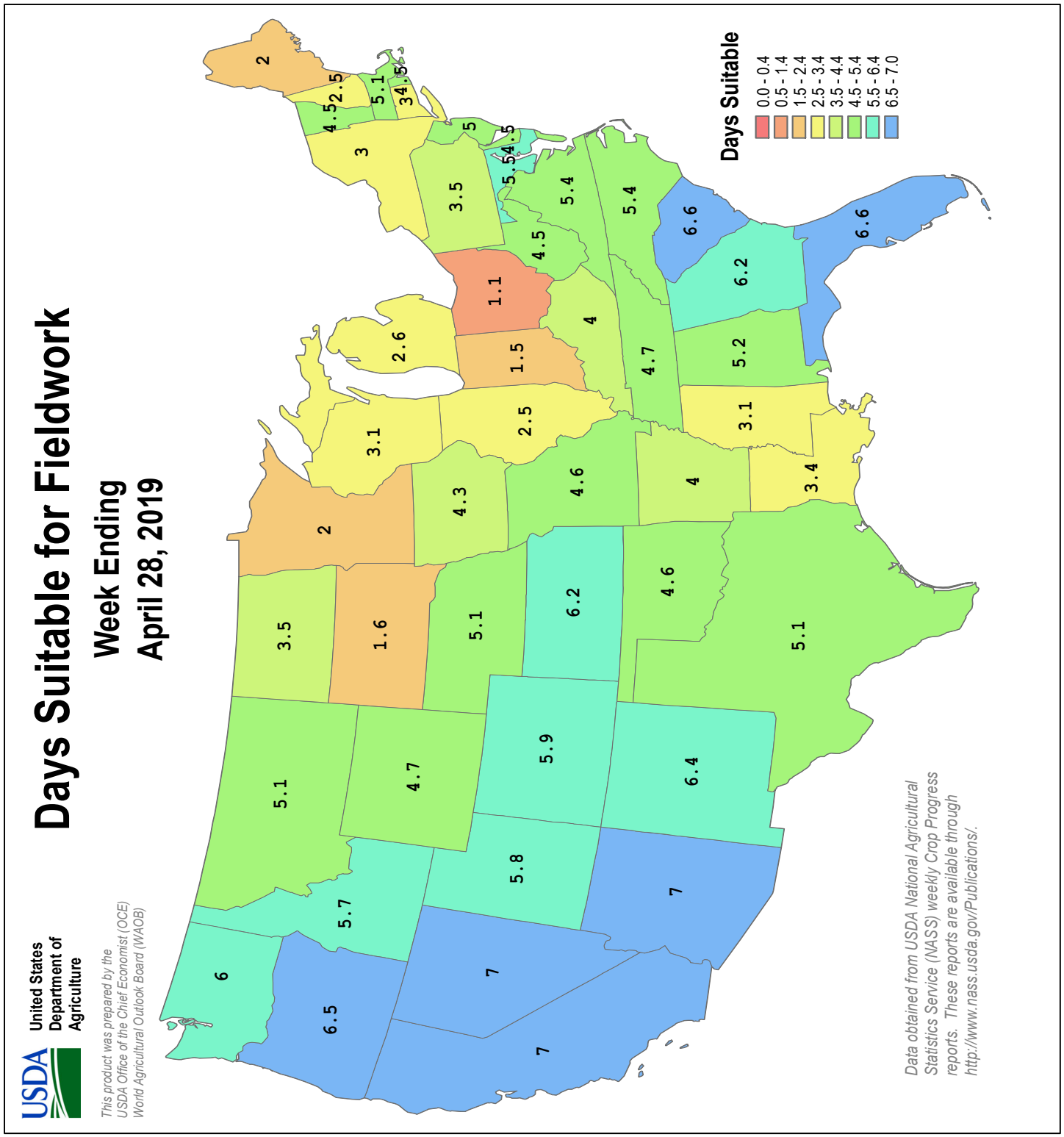
VP - Very Poor; P - Poor;
F - Fair;
G - Good; EX - Excellent

NA - Not Available
* Revised

## Crop Progress and Condition

### Week Ending April 28, 2019

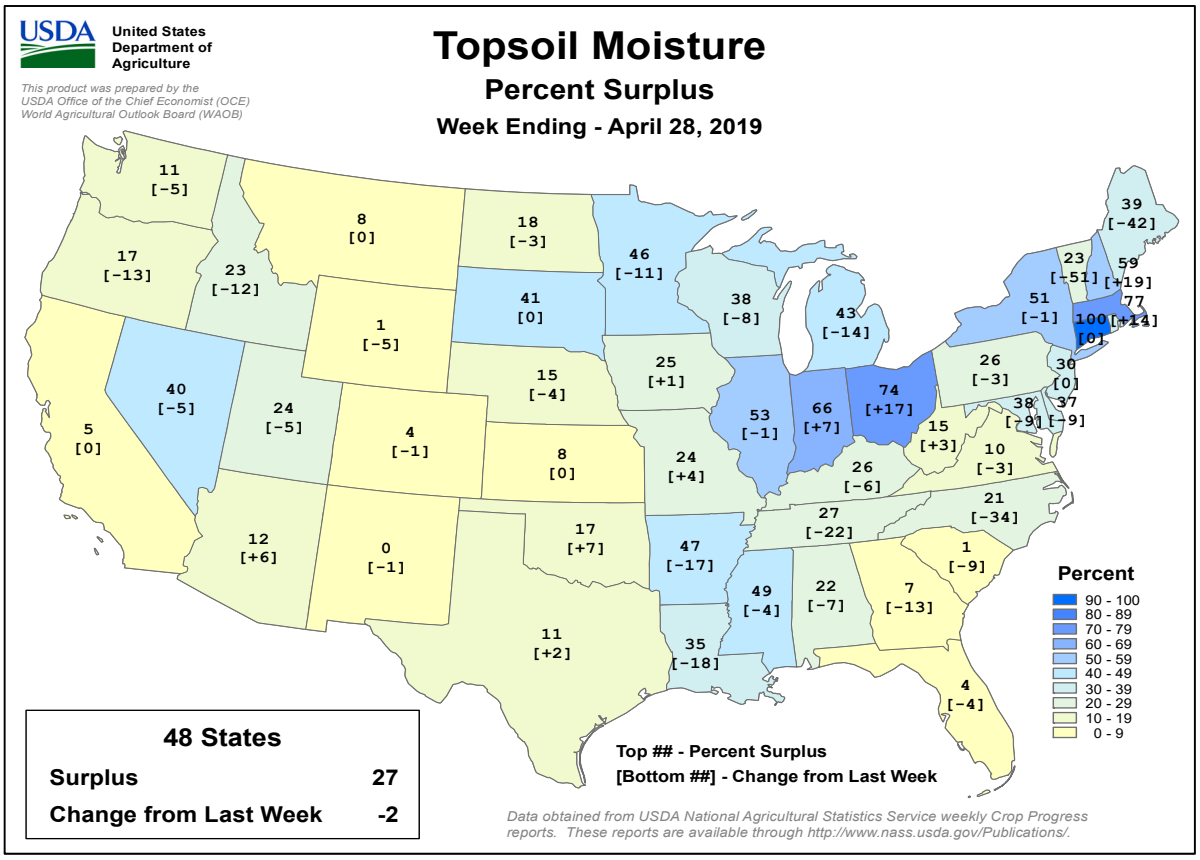
Weekly U.S. Progress and Condition Data provided by USDA/NASS

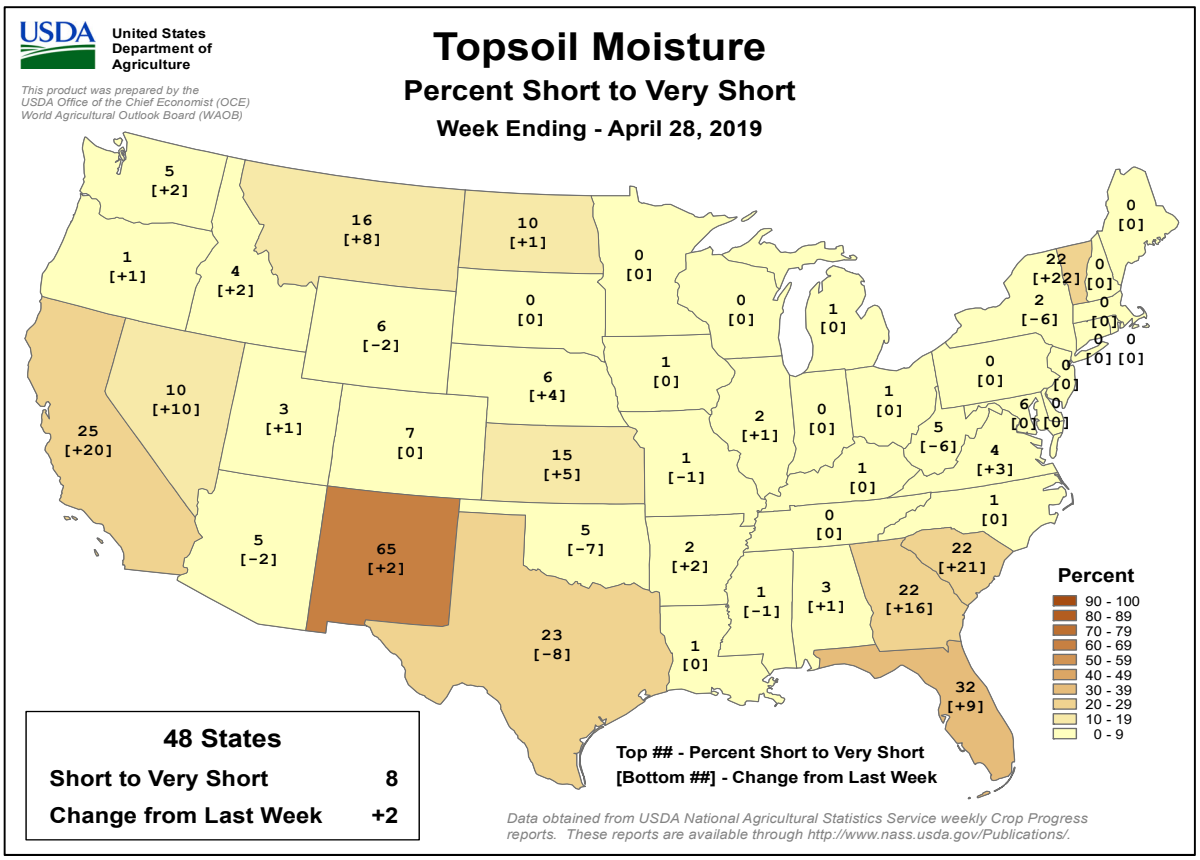


# Crop Progress and Condition

## Week Ending April 28, 2019

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

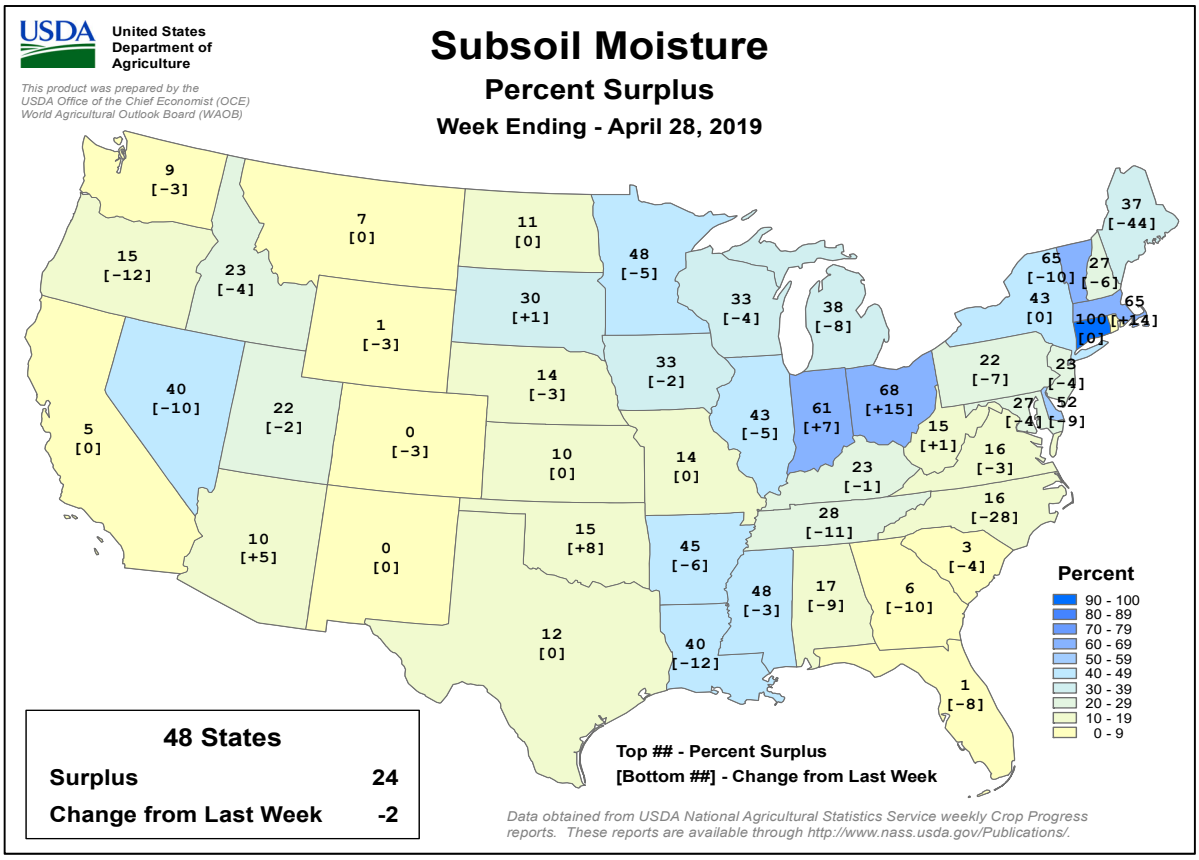


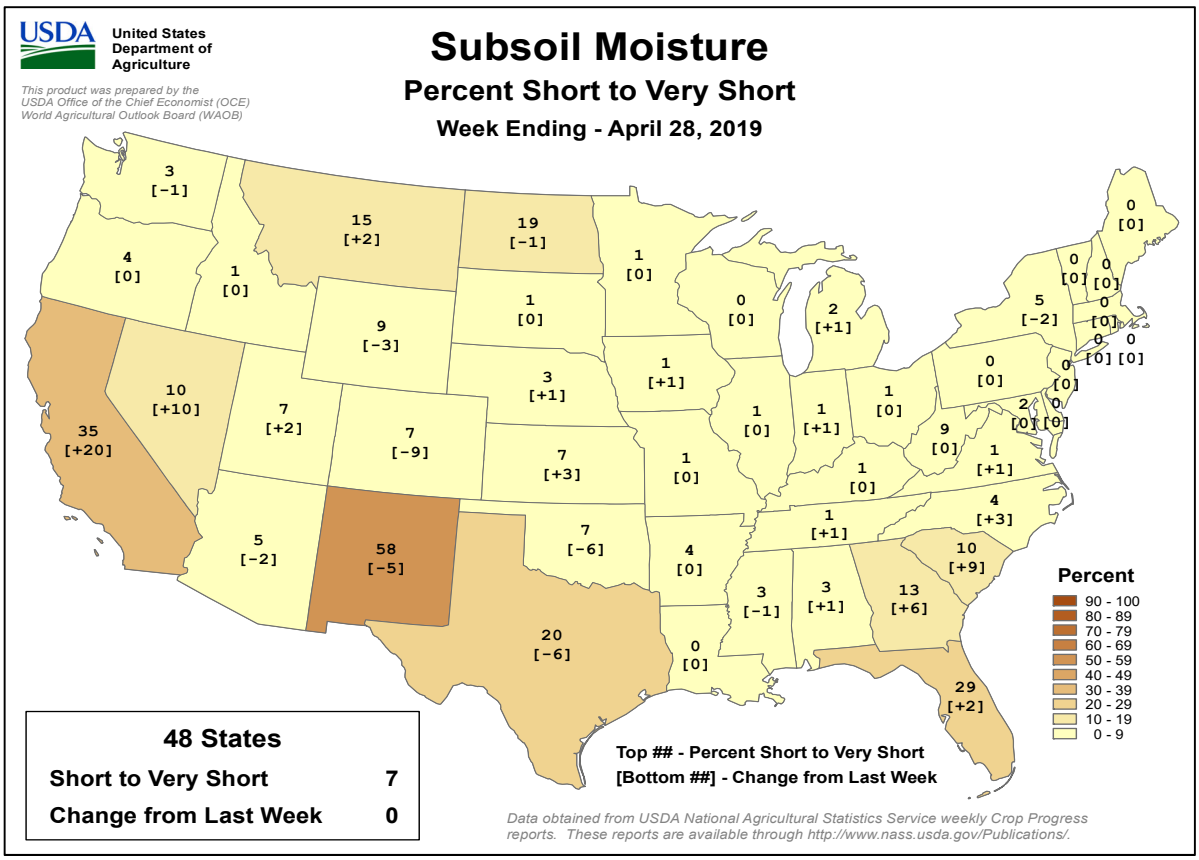



# Crop Progress and Condition

## Week Ending April 28, 2019

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



# International Weather and Crop Summary

**April 21-27, 2019**

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

## HIGHLIGHTS

**EUROPE:** Rain across southern and western Europe contrasted with intensifying short-term dryness in northeastern growing areas.

**WESTERN FSU:** Sunny skies promoted winter wheat development after recent beneficial rain.

**MIDDLE EAST:** Despite a late-season freeze, additional showers maintained favorable yield prospects for winter grains.

**NORTHWESTERN AFRICA:** Wet weather maintained good to excellent crop conditions in central growing areas, while rain was mostly too late to benefit drought-afflicted wheat in Morocco.

**EASTERN ASIA:** Warm weather and periods of rain in eastern and southeastern China benefited reproductive wheat and rapeseed as well as vegetative early-crop rice.

**SOUTHEAST ASIA:** Field preparations continued in northern sections of the region as growers await the start of the summer rainy season.

**AUSTRALIA:** Rain fell across a large portion of eastern Australia, except in the wheat belt.

**SOUTH AFRICA:** Unseasonable wetness came too late for corn but improved moisture for winter grains.

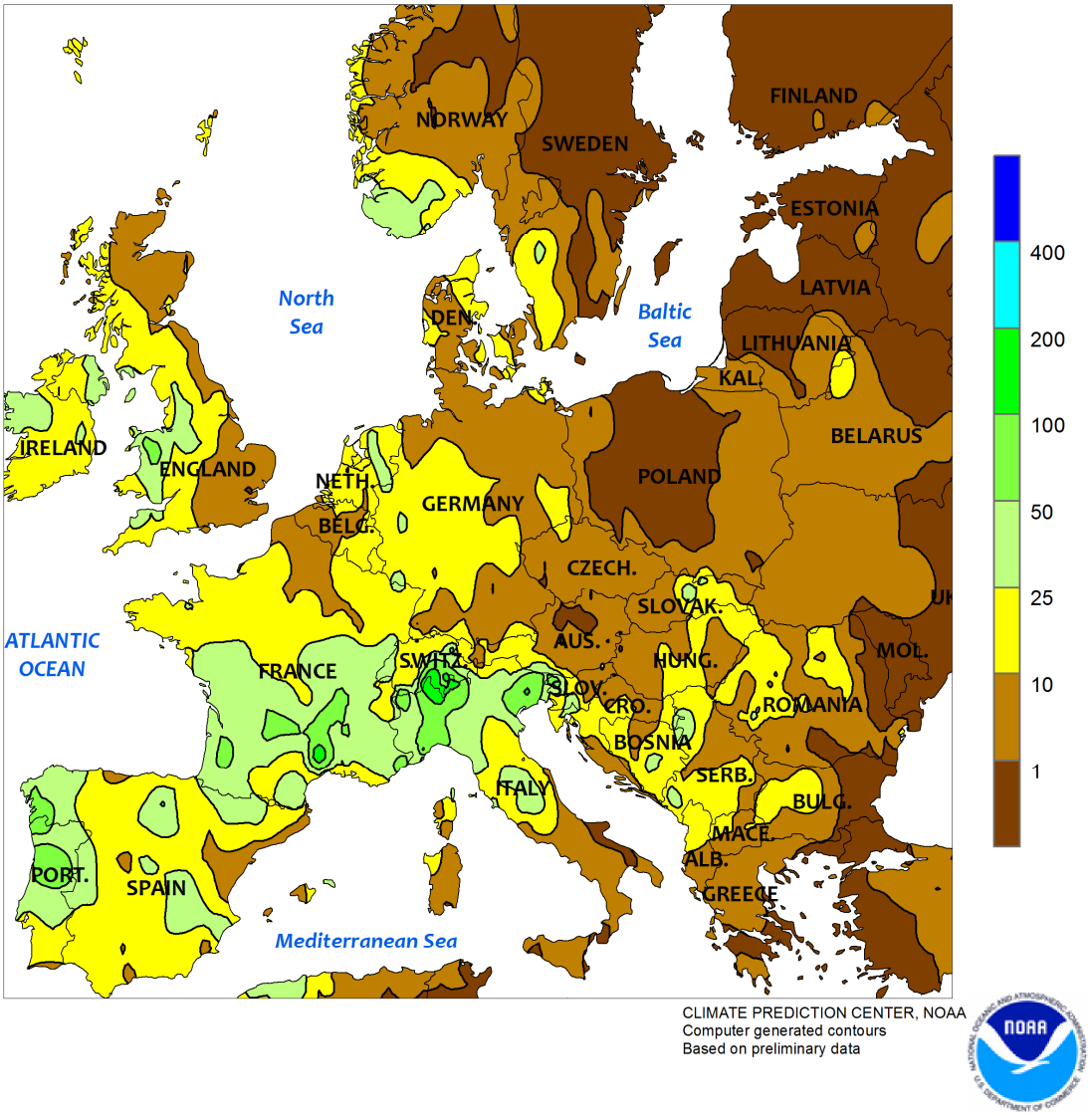
**ARGENTINA:** Heavy showers were untimely for cotton and other maturing summer crops in northern production areas.

**BRAZIL:** Seasonal rain maintained overall favorable conditions for corn and cotton.

**MEXICO:** Unseasonable dryness persisted, limiting opportunities for planting corn and other rain-fed summer crops.


For additional information contact: mbrusberg@oce.usda.gov

EUROPE
Total Precipitation (mm)
APR 21 - 27, 2019

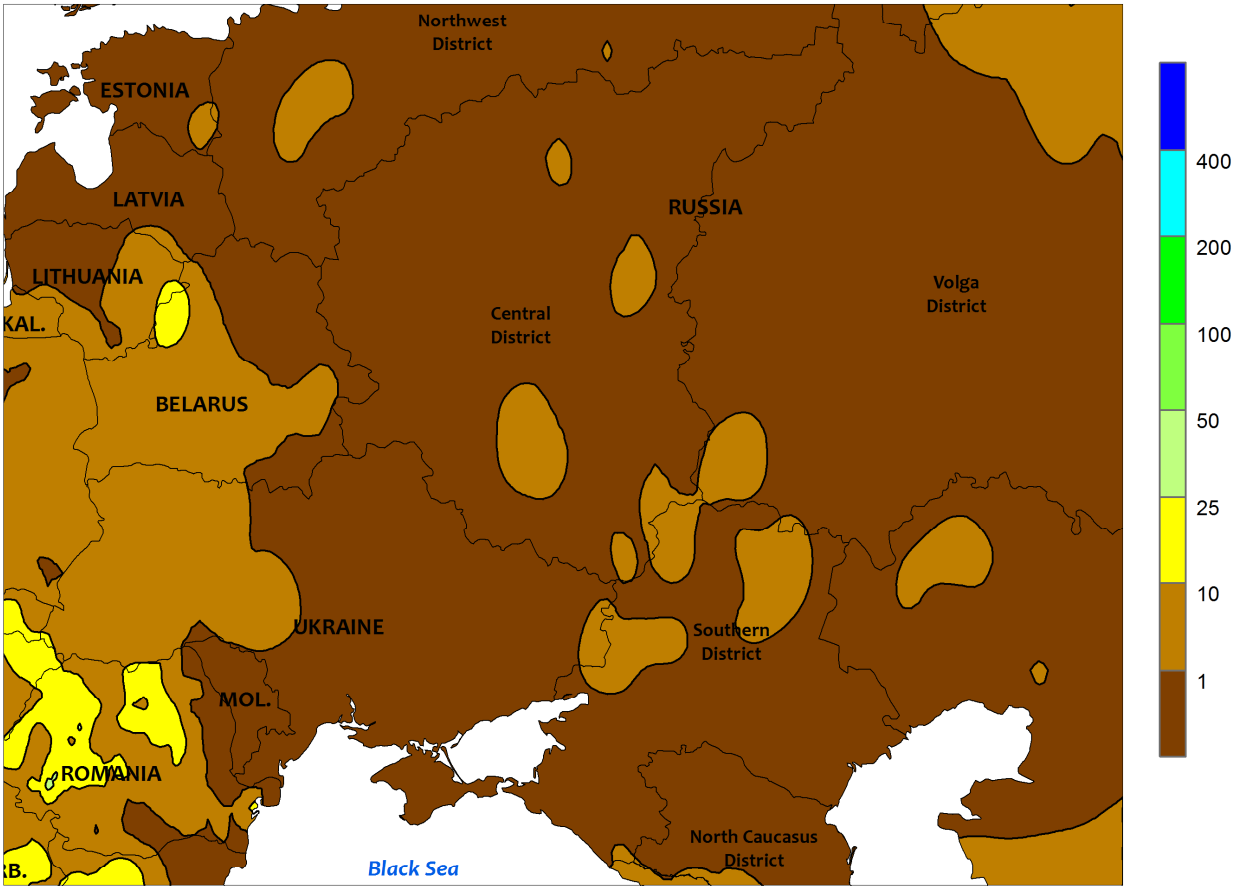



## EUROPE

Beneficial rain over western and southern Europe contrasted with increasing short-term dryness in northeastern growing areas. Widespread showers (12-50 mm) for a third consecutive week across Italy and the Iberian Peninsula boosted soil moisture for reproductive to filling winter grains; wheat and barley yield prospects have improved considerably in these locales due to a wet April following early-spring drought. Showers also expanded northward into France and England, providing timely moisture improvements for reproductive wheat and rapeseed. Farther east, scattered showers (1-15 mm) across Hungary and the Balkans maintained mostly favorable conditions for jointing to heading winter wheat, though some locales need more rain. A strong blocking high maintained dry weather across the northeastern quadrant of Europe, where soil moisture has declined due to recent dryness (30-day rainfall less than 25 percent of normal, locally less than 10 percent). However, winter crops are still in the vegetative stages of development and there is ample time to improve yield prospects; in fact, rain had overspread much of Germany and southern Poland as of April 29. Temperatures averaging 4 to 8°C above normal accelerated wheat and rapeseed development across much of Europe, though near- to below-normal temperatures were reported in Spain and along the Black Sea Coast and environs.

**For additional information contact:** mbrusberg@oce.usda.gov

WESTERN FSU
Total Precipitation (mm)
APR 21 - 27, 2019



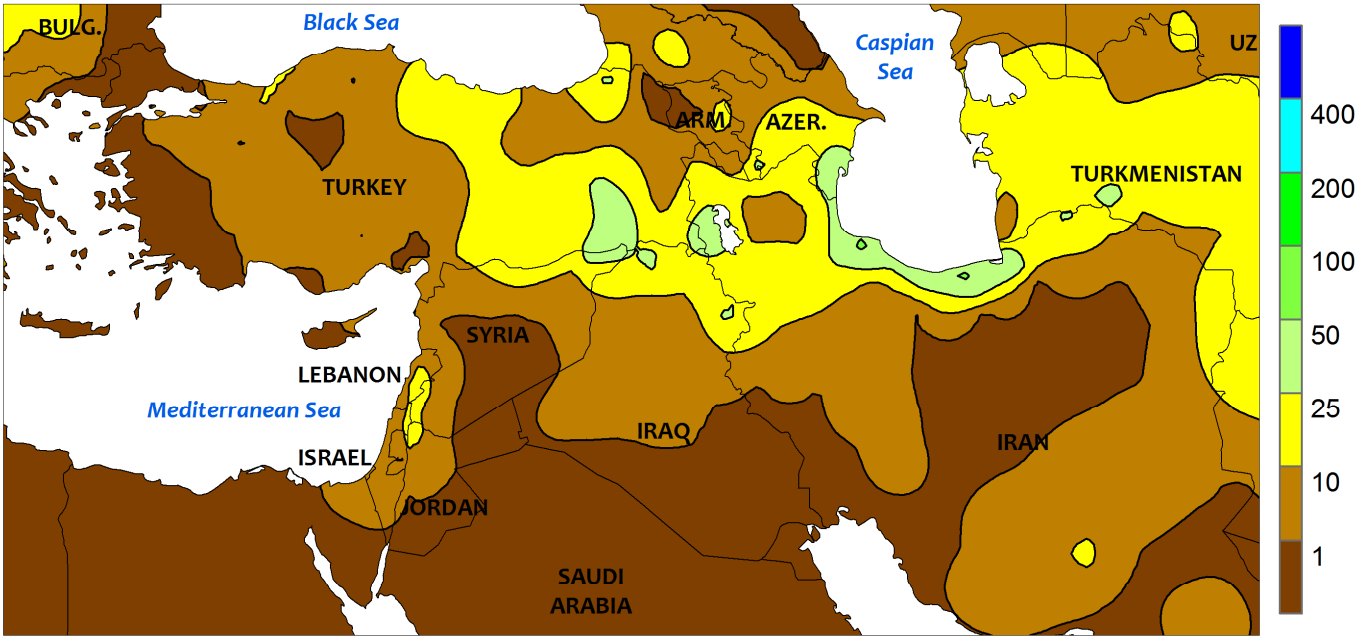

CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

## WESTERN FSU

Sunny weather favored winter wheat development following recent beneficial rain. After a dry start to the spring, showers in mid-April improved soil moisture for winter wheat development. The past week's sunny, increasingly warm weather promoted wheat growth and facilitated summer crop planting. Early yield prospects for tillering to jointing winter wheat remained mostly favorable across Ukraine and Russia following good overwintering conditions and mid-April rainfall.

**For additional information contact:** mbrusberg@oce.usda.gov

MIDDLE EAST
Total Precipitation (mm)
APR 21 - 27, 2019



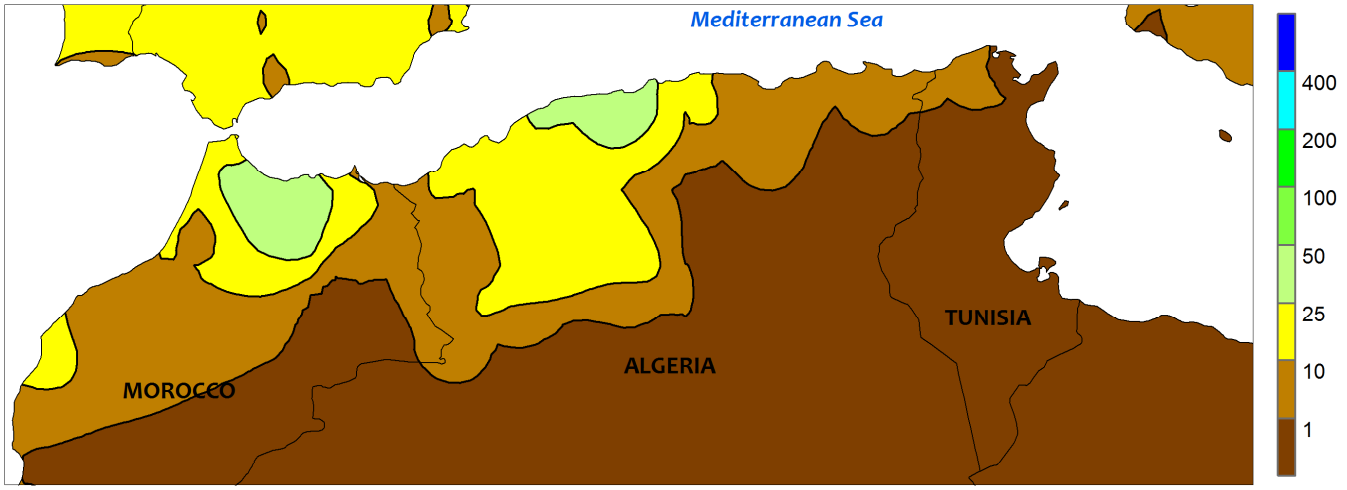

CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

## MIDDLE EAST

Unsettled albeit chilly weather prevailed across the region. A strong blocking high north of the region caused unseasonably cold conditions (4-8°C below normal) to settle across the Middle East, with hard freezes (-7 to -2°C) noted in central Turkey and northwestern Iran. However, the cold did not pose a threat to winter wheat, which was in the freeze-tolerant jointing stage of development (per growing degree data) in these coldest locales. The high also maintained a slow and southward-displaced storm track, with another round of variable, locally heavy rainfall (2-50 mm) maintaining good to surplus moisture supplies for vegetative (north) to reproductive (south and east) winter grains. The record-setting winter and spring wetness has also recharged reservoirs, mountain snowpacks, and groundwater supplies, indicating favorable prospects for irrigated summer crops.

**For additional information contact:** mbrusberg@oce.usda.gov

NORTHWESTERN AFRICA
Total Precipitation (mm)
APR 21 - 27, 2019

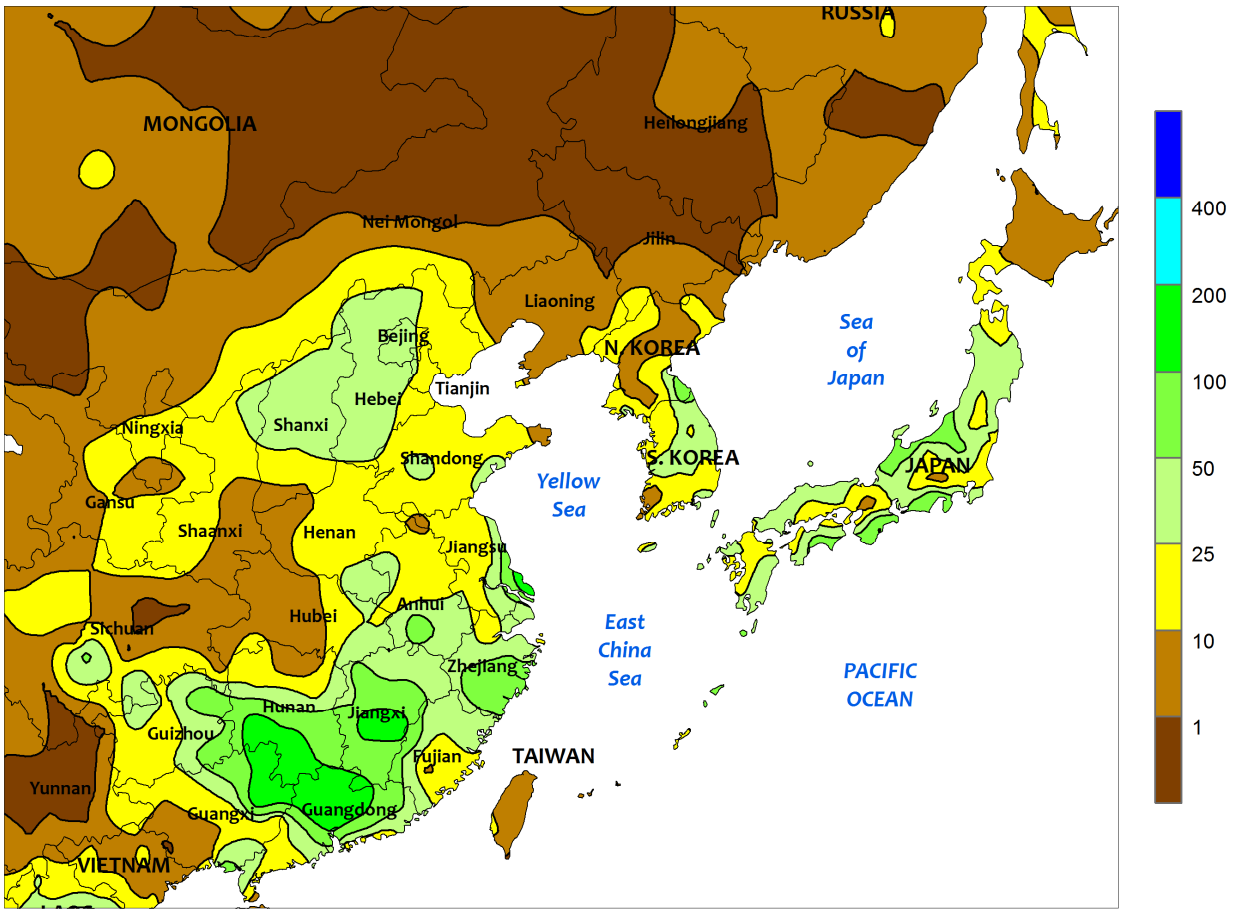



## NORTHWESTERN AFRICA

Late-season rain across western and central growing areas contrasted with favorably sunny weather in the east. Early in the period, widespread moderate to heavy showers (5-44 mm) provided a boost to late-developing winter grains in northern Morocco and maintained good to excellent conditions for reproductive to filling wheat and barley in Algeria. In northern Tunisia, mostly sunny weather favored the development of flowering winter wheat, where current yield prospects are excellent following timely rain in late March and early April. Near-normal temperatures in western growing areas contrasted with readings up to 3°C above normal over the eastern third of the region, though there was no crop heat stress in these warmer locales as daytime highs remained below 30°C.

**For additional information contact:** mbrusberg@oce.usda.gov

EASTERN ASIA
Total Precipitation (mm)
APR 21 - 27, 2019



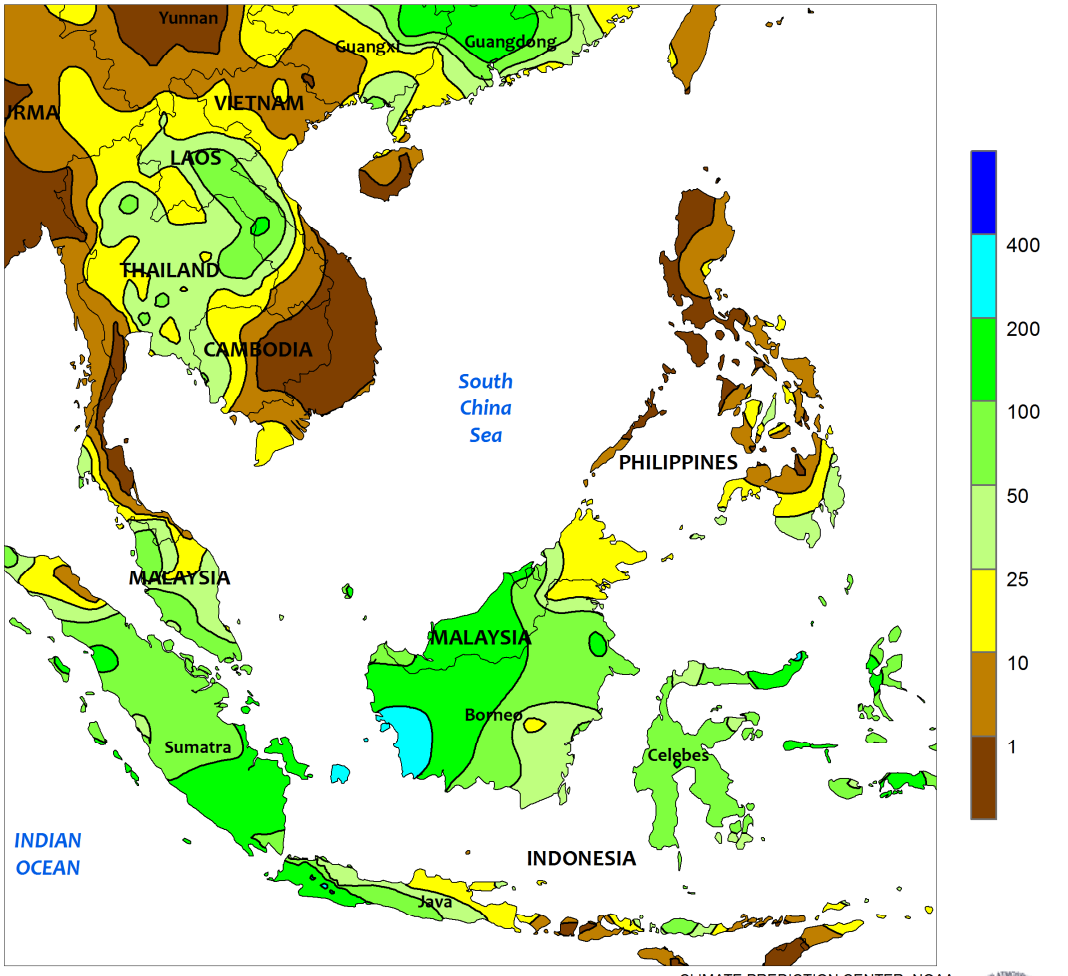

CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

## EASTERN ASIA

In China, showers continued across large portions of the east and southeast. Upwards of 25 mm of rain benefited reproductive wheat on the North China Plain, while 25 to 50 mm maintained good soil moisture for reproductive rapeseed in the eastern Yangtze Valley; lesser amounts (1-25 mm) were reported in western sections of the valley. In the southeast, rainfall amounts varied between 25 to as much as 200 mm, keeping vegetative early-crop rice well watered. Meanwhile, unseasonably warm weather (5°C or more above normal in some locales) promoted crop development and encouraged summer crop sowing. In contrast, northeastern-most parts of China remained too cold for corn and soybean planting.

**For additional information contact:** mbrusberg@oce.usda.gov

SOUTHEAST ASIA
Total Precipitation (mm)
APR 21 - 27, 2019




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

## SOUTHEAST ASIA

Dry weather returned to the Philippines as planting preparations continued prior to the start of the summer rainy season. Much of the Philippines experienced a severe winter drought that adversely impacted rice and corn yields. Normal rainfall will be needed over the coming months to replenish reservoirs and ensure improved yield prospects. Meanwhile, occasional showers in Thailand and environs provided beneficial pre-monsoon moisture as field preparations were underway ahead of the summer rainy season as well; rice and corn sowing has already commenced in areas where irrigation is available. Rainfall in the region was confined mainly to Indonesia and Malaysia, where 25 to 100 mm, or more, maintained good soil moisture for oil palm and second-season rice.

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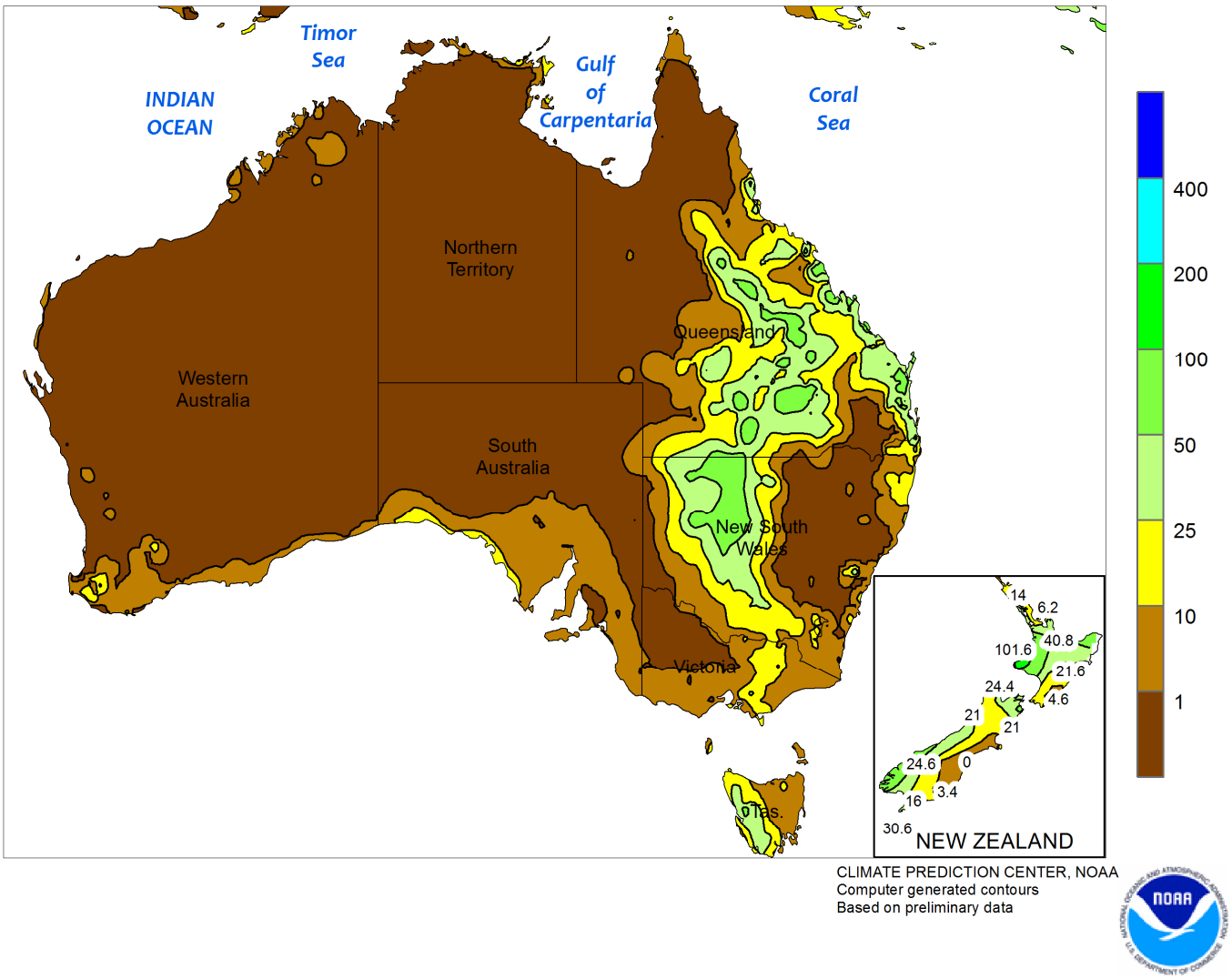
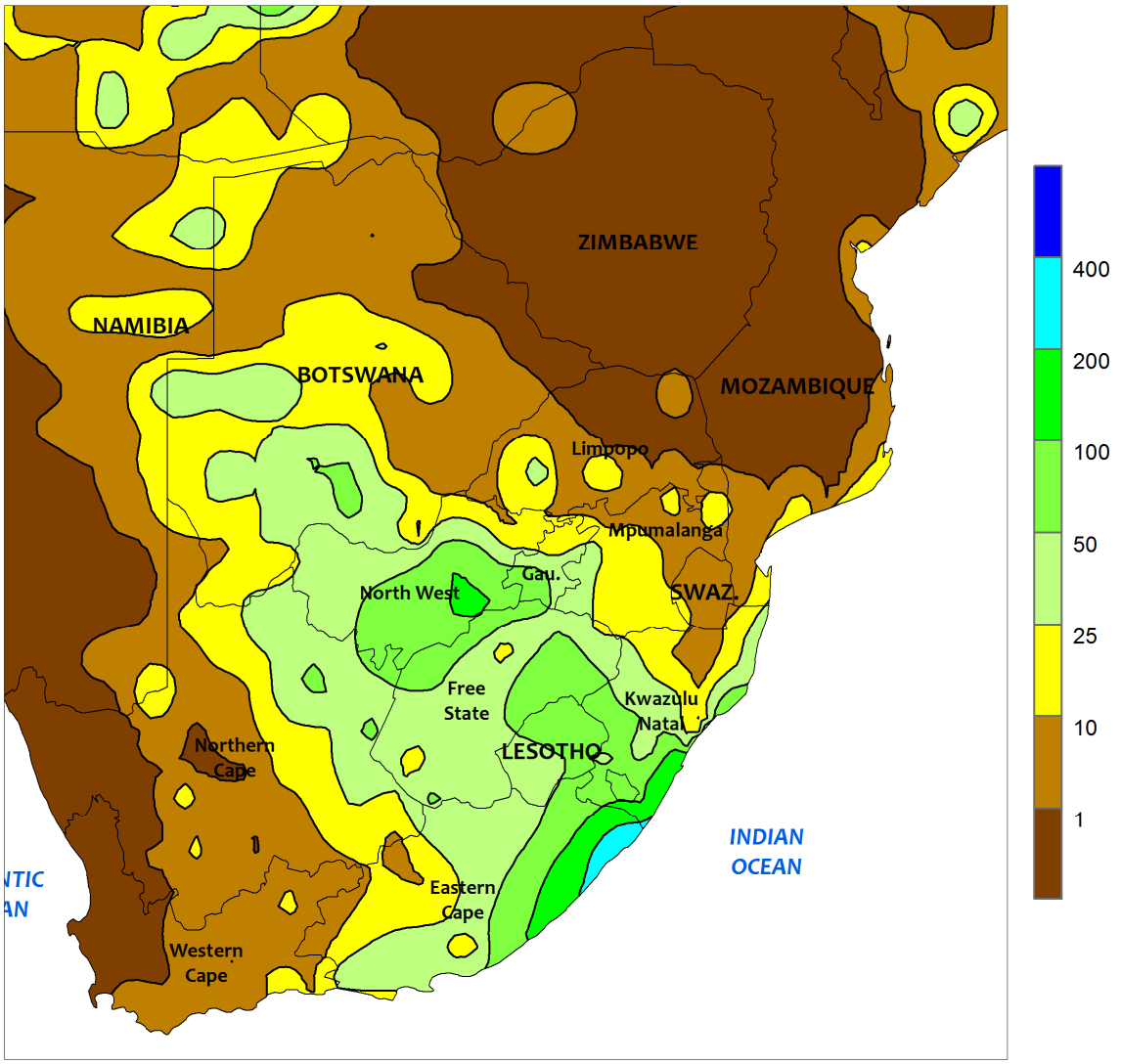



## AUSTRALIA

Widespread showers (10-50 mm, locally more) overspread a large portion of eastern Australia, but very little of the rain fell in major agricultural areas. The relatively dry weather in the wheat belt enabled fieldwork to progress, including late summer crop harvesting and early winter crop planting. Wheat, barley, and canola planting advanced slowly, however, as many farmers wait and hope that more substantial rain will arrive before they begin sowing. Repeated, soaking rain would be welcome, as well, to end the severe drought that has plagued significant portions of the wheat belt since last year. Within the wheat belt, temperatures averaged 2 to 3°C above normal in the east and near normal in the south and west.

**For additional information contact:** mbrusberg@oce.usda.gov

SOUTH AFRICA
Total Precipitation (mm)
APR 21 - 27, 2019



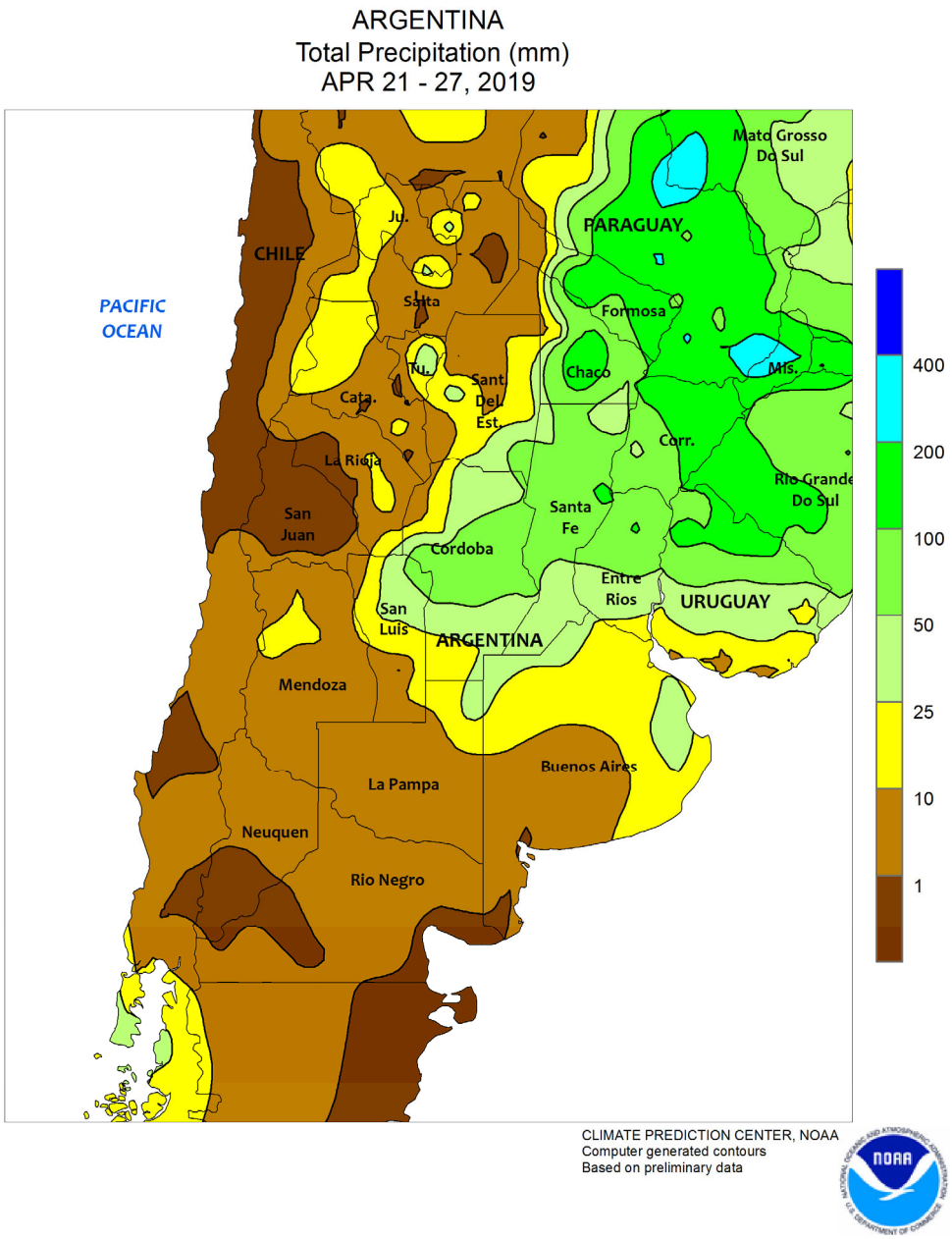

CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data

## SOUTH AFRICA

showers intensified in major eastern commercial farming areas, coming too late for corn and other summer crops impacted by drought but increasing moisture for winter grains and pastures. Rainfall totaling 25 to more than 100 mm covered a broad area extending from North West and western Mpumalanga to the southeastern coast, including rain-fed sugarcane areas in southern KwaZulu-Natal. Lighter rain (less than 25 mm) fell from Limpopo to northern KwaZulu-Natal, where above-normal temperatures (daytime highs ranging from the upper 20s to middle 30s degrees C) hastened maturation of corn and sugarcane. Warmth and dryness favored winter wheat planting in Western Cape, following last week's rain.

*This is the final weekly summary of the season; coverage will resume in October 2019 upon commencement of summer crop planting.*

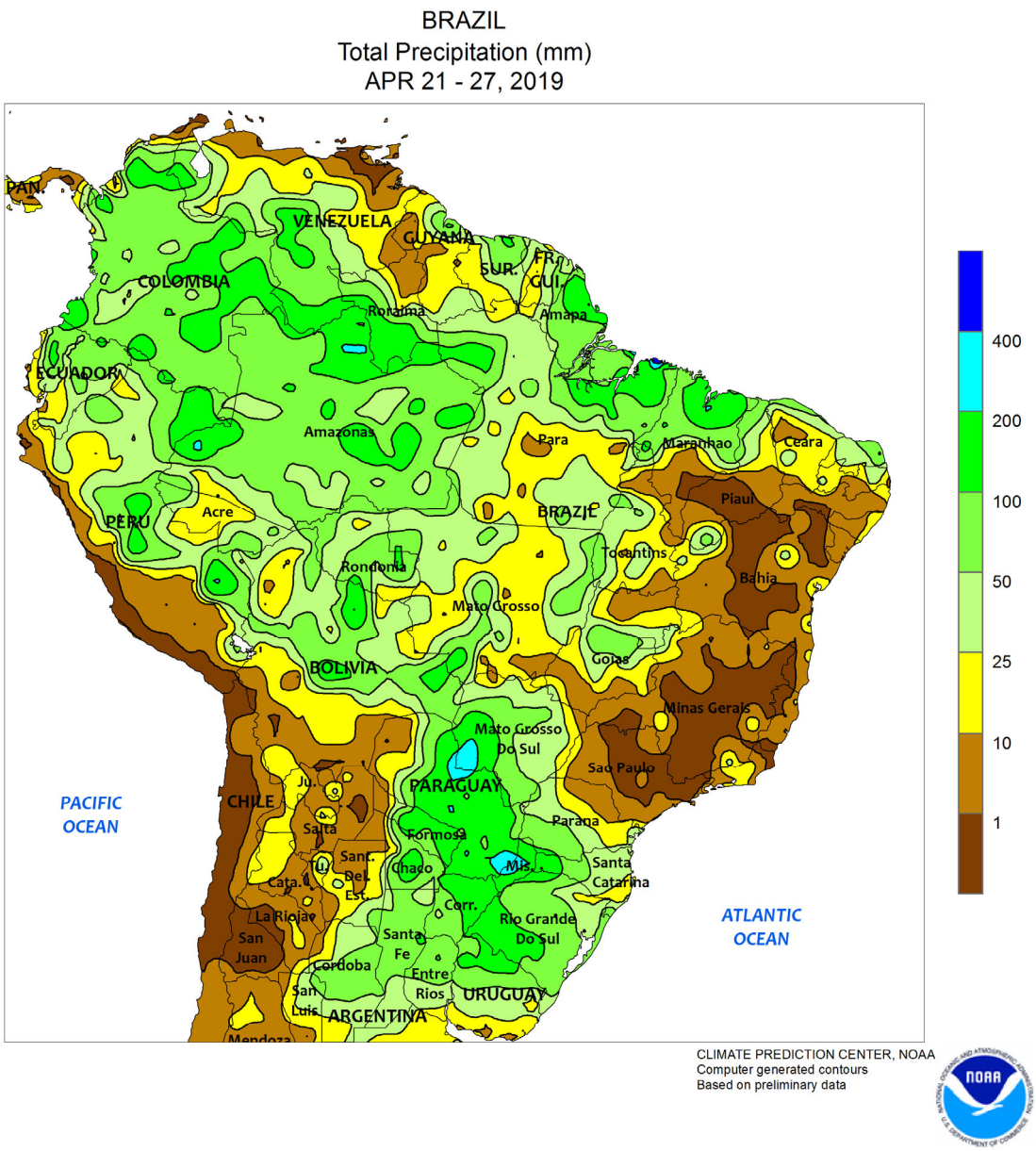
**For additional information contact:** mbrusberg@oce.usda.gov




## ARGENTINA

Unseasonable wetness expanded to include much of northern Argentina, providing abundant moisture for the upcoming winter cropping season but disrupting summer crop harvesting. Most major farming areas stretching north- and eastward from central Cordoba recorded rainfall totaling more than 50 mm, with highest amounts (greater than 100 mm) concentrated from Chaco and Formosa eastward. In contrast, lighter rain (less than 35 mm) supported fieldwork in La Pampa and Buenos Aires. According to the government of Argentina, corn and soybeans were 37 and 44 percent harvested, respectively, as of April 25. Weekly average temperatures were highly variable across the region, with daytime highs reaching the middle and upper 20s (degrees C) in La Pampa and in northern Argentina; temperatures were capped at 25°C in the region in between. Nighttime lows reached the low single digits in southern farming areas of La Pampa and Buenos Aires but no widespread freeze was reported.

**For additional information contact:** mbrusberg@oce.usda.gov




## BRAZIL

Seasonal rainfall maintained adequate to abundant levels of moisture for corn and cotton in major production areas of southern and central Brazil. Rainfall totaling 25 to 50 mm (locally higher) was concentrated over Mato Grosso, Goias, and Tocantins to the north and from southern Parana southward in southern farmlands. In contrast, drier conditions (rainfall totaling less than 25 mm, with complete dryness locally) dominated a broad section of the east stretching from northern Parana to the northeastern interior (including western Bahia, Piaui, and southern Maranhao). Summer warmth (daytime highs reaching the lower and middle 30s degrees C in most areas) promoted rapid maturation of summer crops, though additional rainfall would be welcome for later planted crops. According to the government of Parana, 80 percent of second-crop corn had reached reproduction as of April 22; harvesting of both soybeans and first-crop corn was over 95 percent complete.

**For additional information contact:** mbrusberg@oce.usda.gov

MEXICO
Total Precipitation (mm)
APR 21 - 27, 2019


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

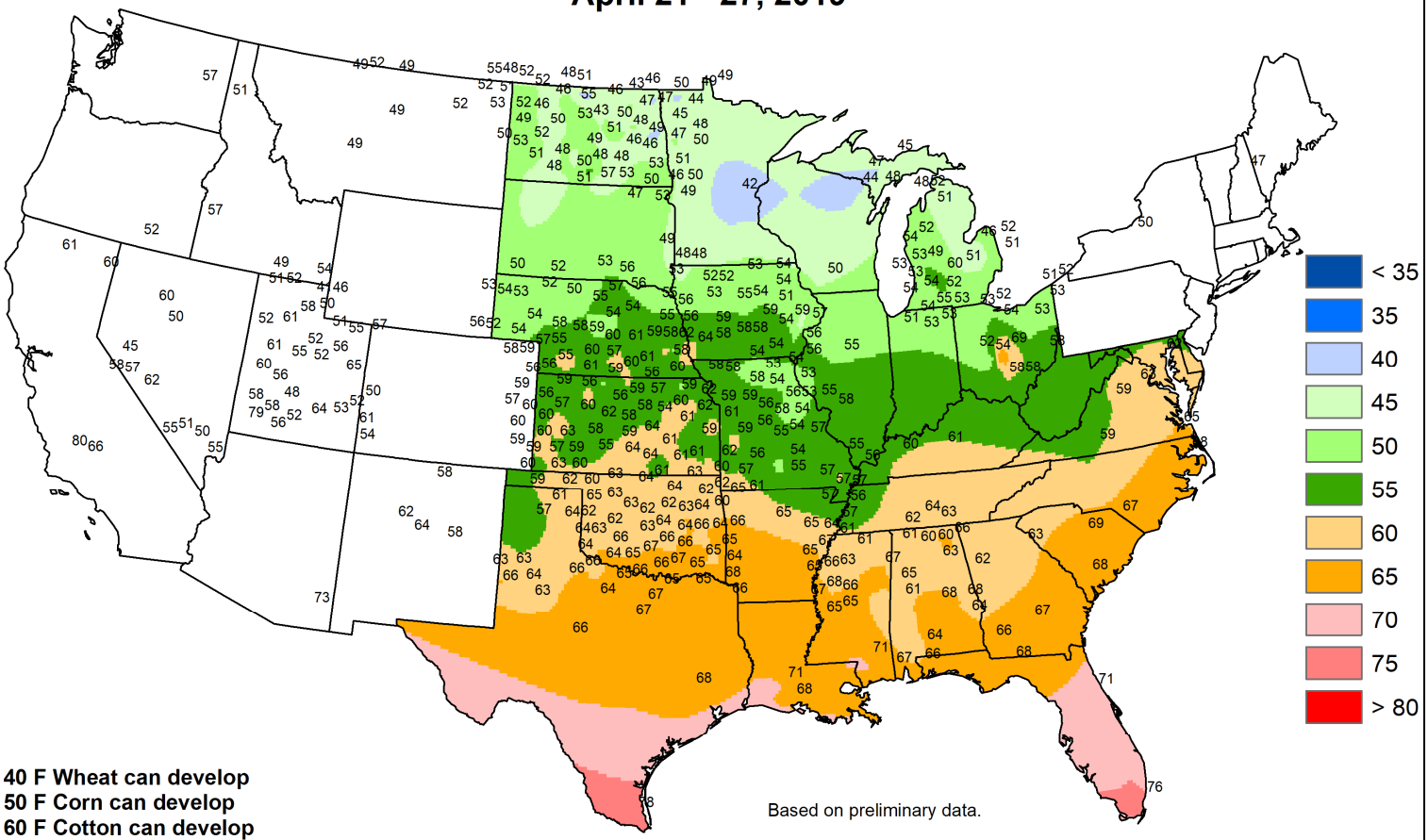
## MEXICO

Unseasonable dryness persisted across the south, limiting opportunities for farmers to begin planting rain-fed summer crops. No rain fell in eastern sections of the southern plateau corn belt (Puebla and neighboring states), where seasonal rainfall typically begins in April. Mostly dry weather also continued to dominate from Veracruz and Oaxaca eastward through the Yucatan Peninsula, another part of the region that should be experiencing an increase in seasonal rainfall. Farther north, dryness and summer warmth (daytime highs exceeding 35°C) hastened development of rain-fed winter sorghum while in northwestern Mexico, similar conditions prevailed for predominantly irrigated winter wheat and corn.

**For additional information contact:** mbrusberg@oce.usda.gov

# Average Soil Temperature (Deg. F, 4" Bare)

## April 21 - 27, 2019




**40 F Wheat can develop**
**50 F Corn can develop**
**60 F Cotton can develop**

Based on preliminary data.

Data provided by the Climate Prediction Center, High Plains Regional Climate Center, Nebraska Mesonet at Univ of Nebraska, CoAgMet at Colorado State Univ, Kansas Mesonet at Kansas State Univ, North Dakota Agricultural Weather Network at North Dakota State Univ, Wyoming State Climate Office at the Univ of Wyoming, Illinois State Water Survey, Iowa State University, Oklahoma Mesonet, Purdue University, University of Missouri, Illinois State Water Survey, Michigan Automated Weather Network, West Texas Mesonet, South Dakota State Univ. Mesonet, Ohio Agricultural Research and Development Center, Univ. of Missouri and USDA/NRCS.

USDA United States Department of Agriculture

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

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E-mail address: ***brippey@oce.usda.gov***

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