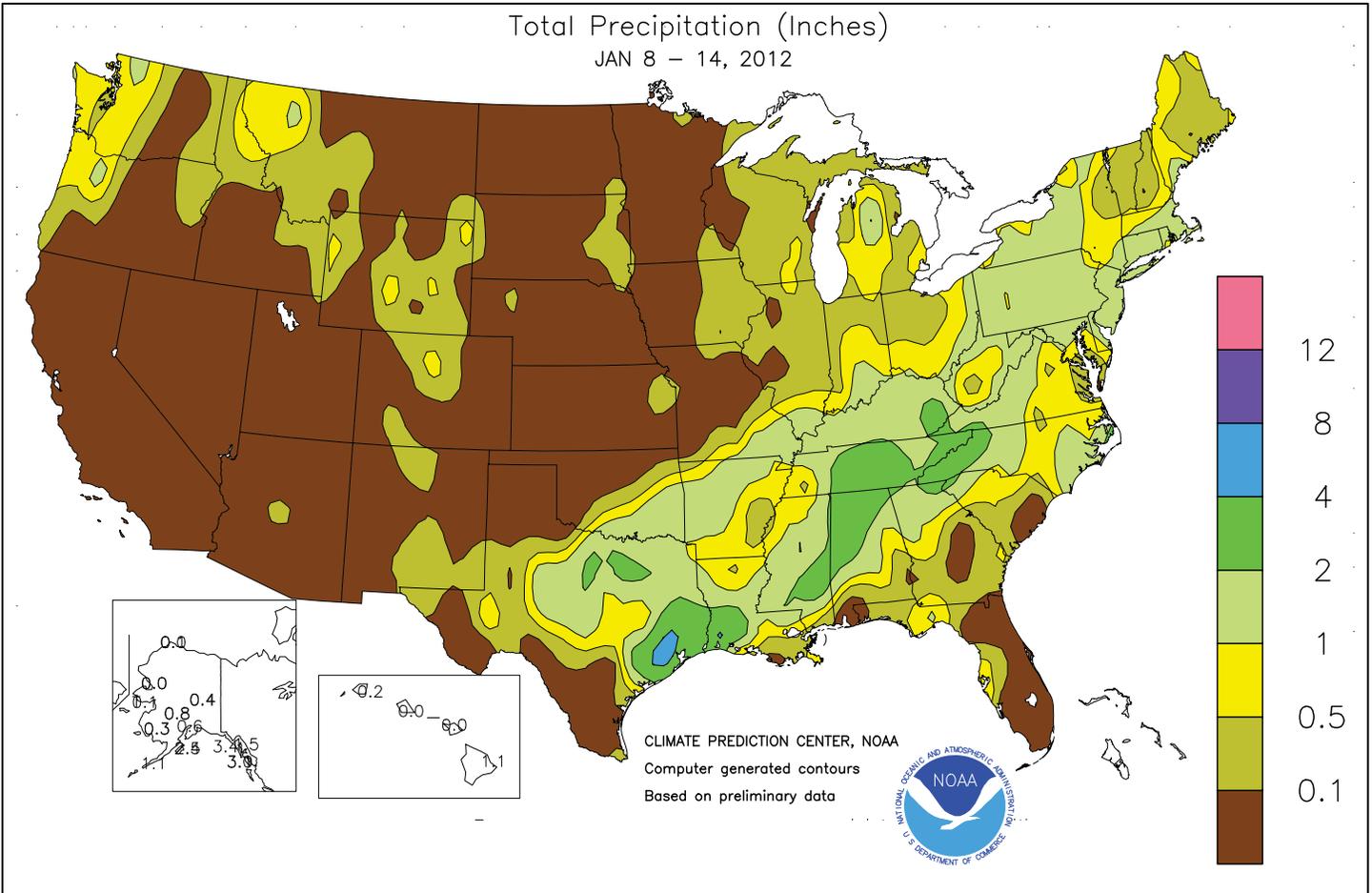


# WEEKLY WEATHER AND CROP BULLETIN



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 January 8-14, 2012

*Highlights provided by USDA/WAOB*

Showery weather returned to the **South and East**. Some of the heaviest rain (1 to 3 inches, with locally higher amounts) fell from the **western Gulf Coast to the southern Appalachians**. Parts of **Texas** experienced additional drought relief, but unfavorably wet conditions prevailed from the **Ohio Valley into the northern Mid-Atlantic States**. In contrast, dry conditions persisted across the **lower Southeast**, including **Florida's peninsula**. Farther west, mild, mostly dry weather covered the **Plains** and the **upper Midwest**. In fact, mild

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# Water Supply Forecast for the Western United States

## Highlights

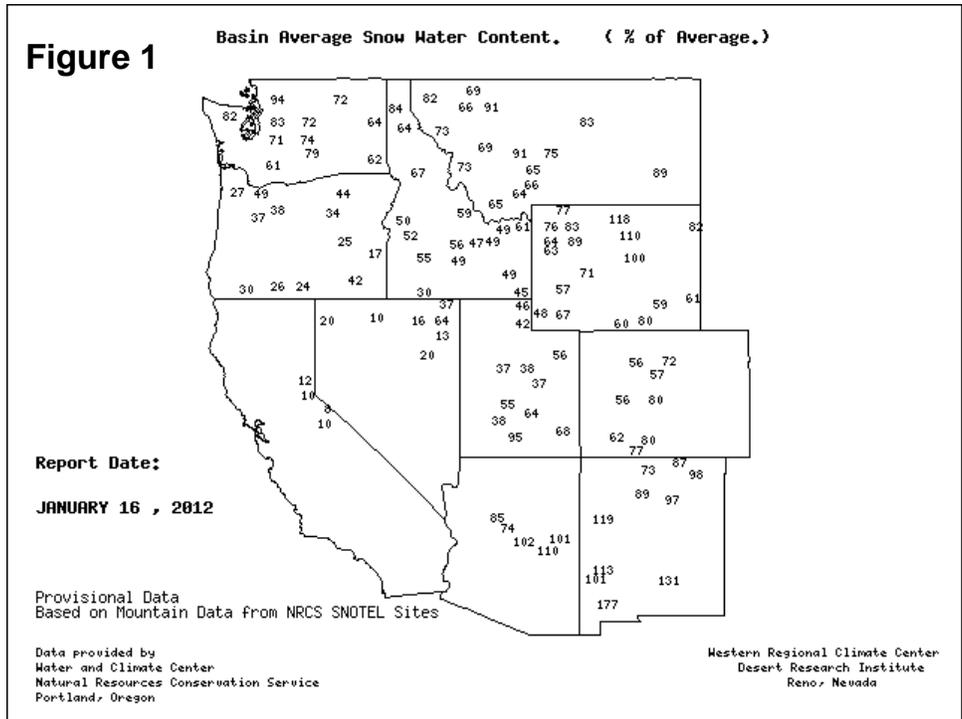
Despite the presence of a weak to moderate La Niña, the early part of the 2012 Water Year was a disappointment in terms of precipitation across the northern two-thirds of the West. However, a series of unexpected storms marched across the Southwest in December, providing the region with much-needed moisture. Most of Alaska also experienced normal to above-normal precipitation during the early part of the winter.

## Snowpack and Precipitation

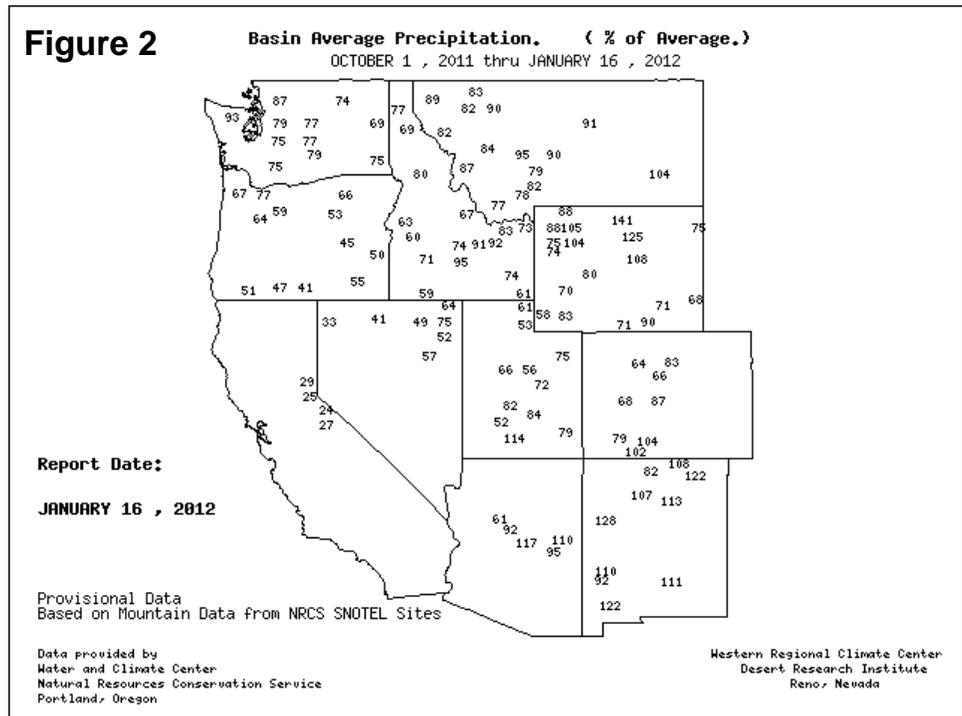
By January 16, 2012, the snow water content map reflected below-average snow water content in nearly every river basin outside Arizona, New Mexico, and Wyoming (figure 1). In mid-January, the driest region with respect to normal water equivalency of the snow pack stretched from the Sierra Nevada northeastward into the northern Great Basin. The wettest areas, relative to normal, were found in Arizona, central and southern New Mexico, and parts of the Wyoming Front Range.

Season-to-date precipitation (October 1, 2011 - January 16, 2012) indicated that many parts of the Southwest were wetter than normal during the first 3½ months of the 2012 Water Year. Early-season wetness also extended northward along portions of the Rocky Front Range, particularly in Wyoming (figure 2). In stark contrast, precipitation averaged generally 25 to 50 percent of normal in several basins from the Sierra Nevada into parts of Oregon and northern Nevada.

## SNOTEL – River Basin Snow Water Content



## SNOTEL – River Basin Precipitation



In a typical La Niña winter, the Western States usually experience above-normal precipitation north of latitude of 41°N (excluding interior Alaska) and below-normal amounts south of 41°N. However, the early portion of the 2012 Water Year featured heavy precipitation in the Southwest, with the heaviest Northwestern amounts confined to the upper Snake and upper Columbia River basins.

### Spring and Summer Streamflow Forecasts

Early projections for spring and summer runoff were not optimistic in the majority of Western basins. Less than half of the normal streamflow can be expected in much of the northern Great Basin, including northern Nevada (figure 3). Streamflow prospects are only slightly better (expected to be less than 70 percent of average from the Sierra Nevada to the Intermountain West. Even parts of the Southwest—including Arizona—that received beneficial snow late in 2011 will likely see much of that moisture restoring drought-depleted soil moisture reserves rather than running off into streams, rivers, and reservoirs. Projections are slightly more favorable in the Cascades and the Rockies, where near- to slightly below-normal runoff can be expected in most basins. Barring mid- to late-winter developments, significantly above-normal spring and summer runoff should be confined to a few basins in New Mexico, northern Wyoming, and southern Montana.

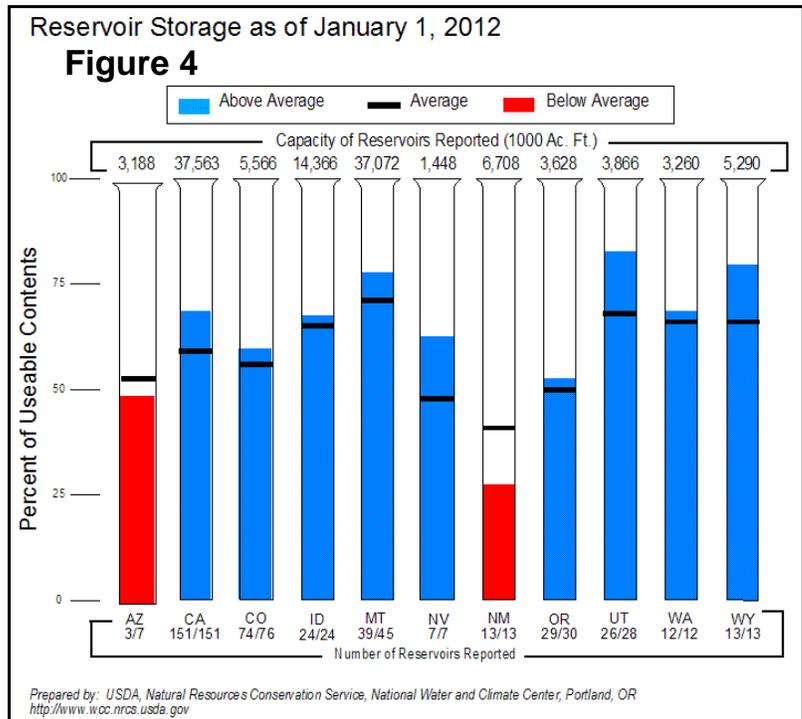
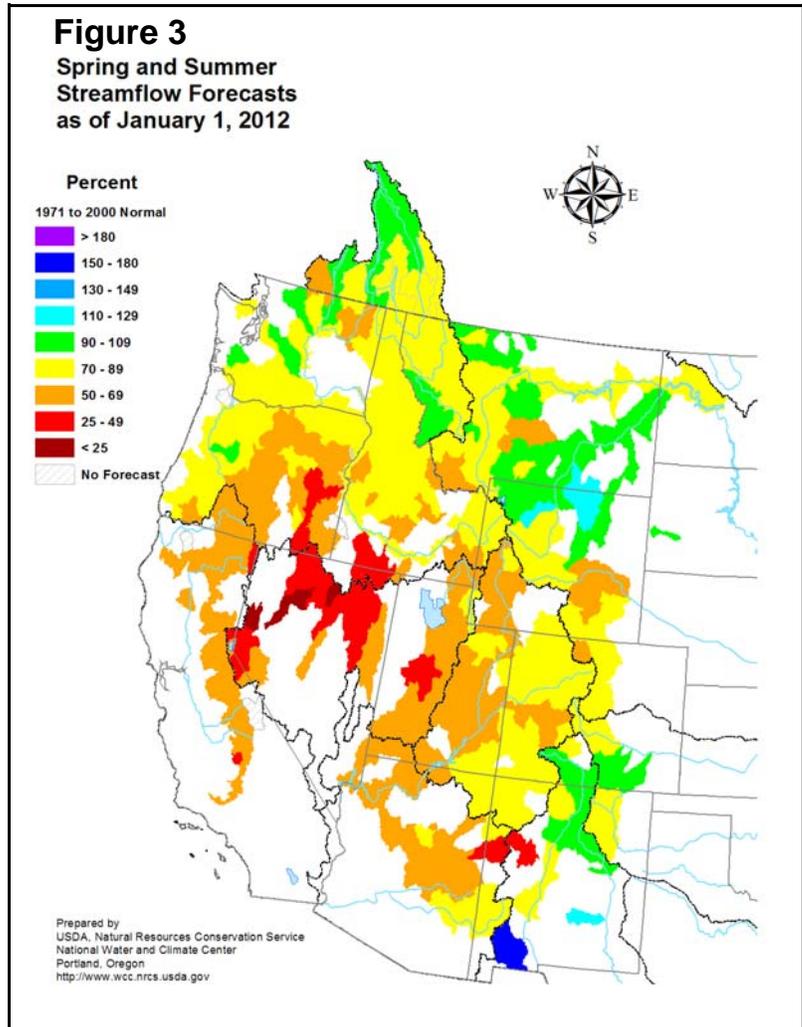
### Reservoir Storage

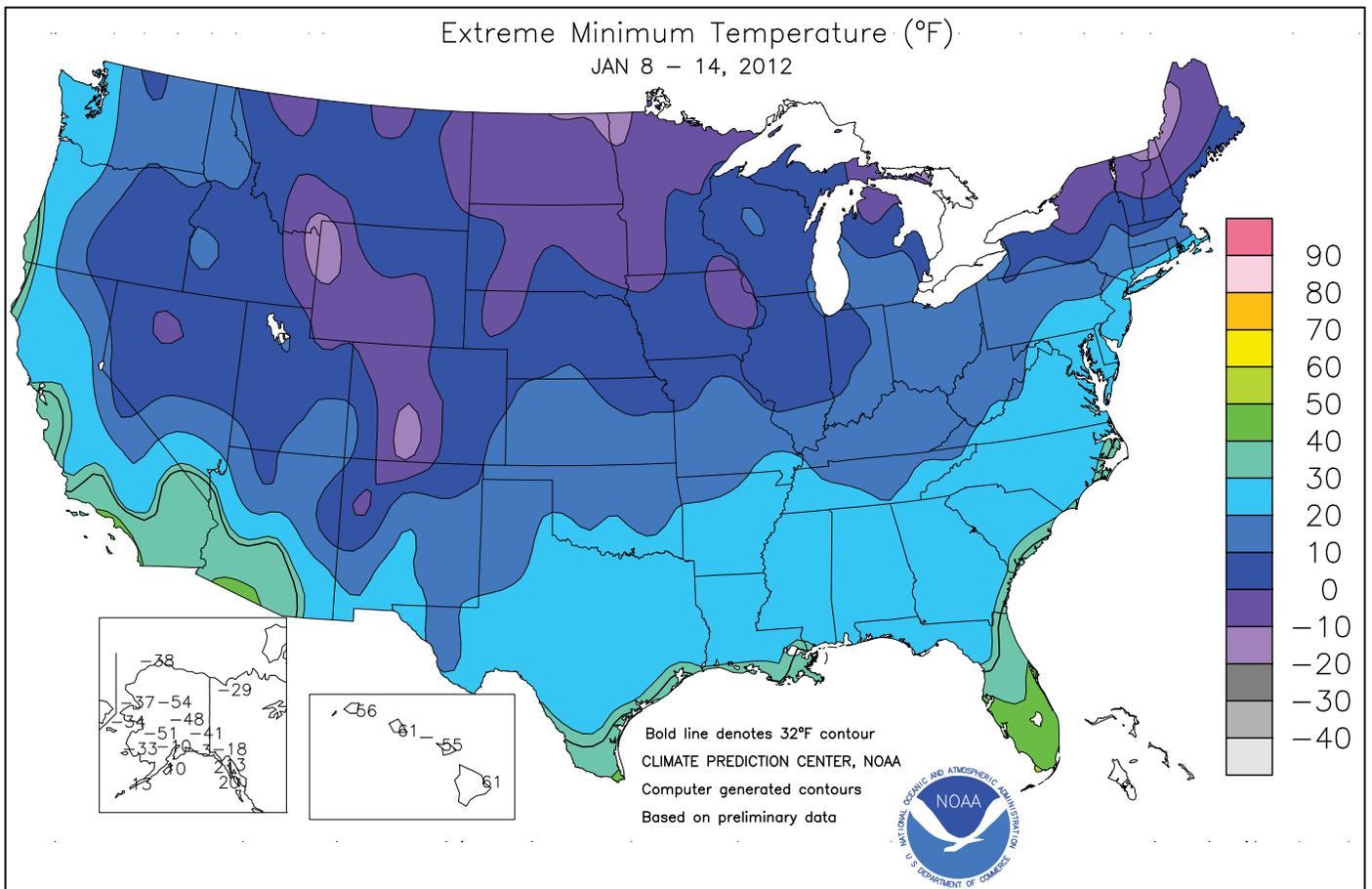
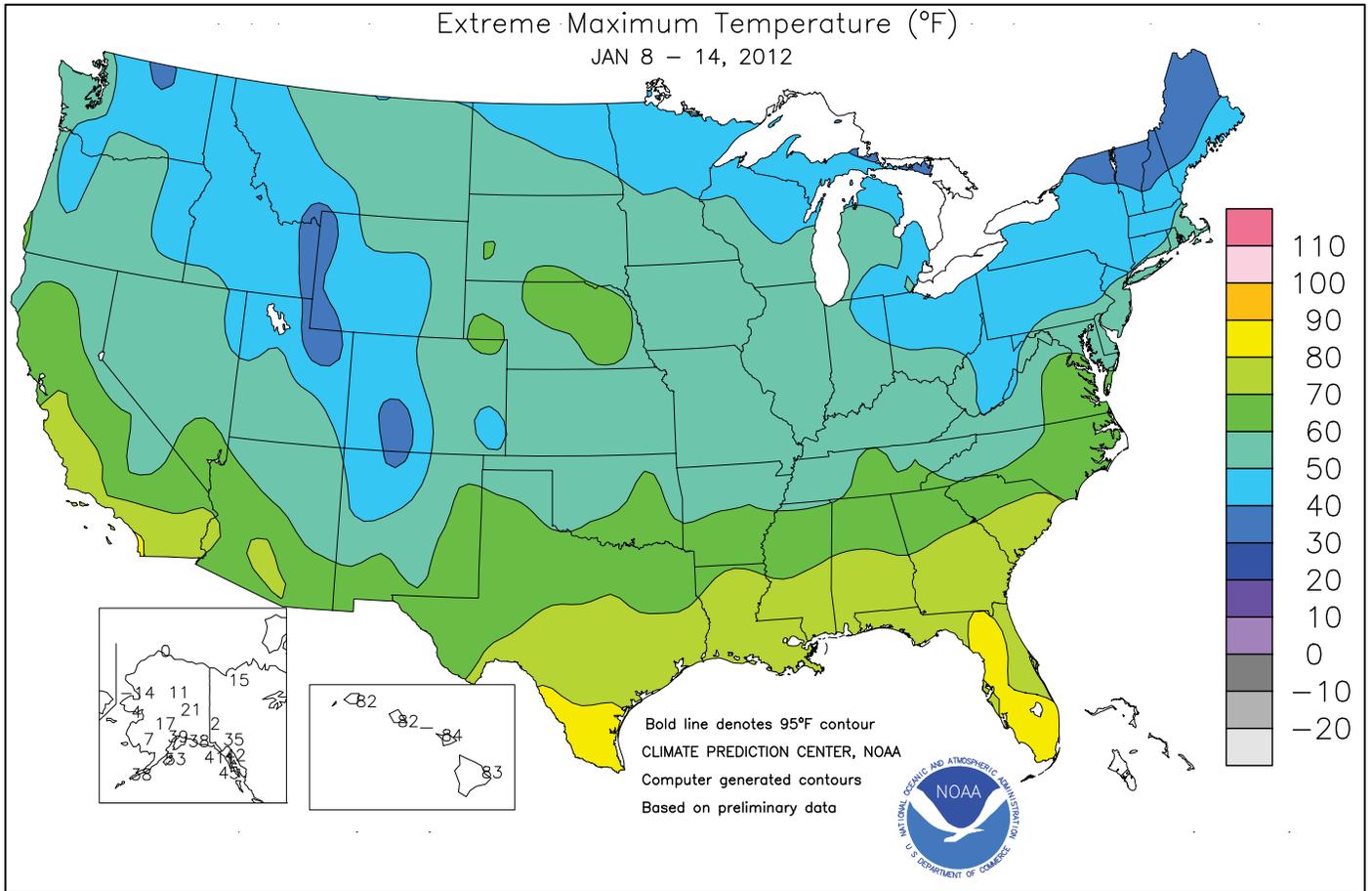
On January 1, reservoir storage as a percent of average for the date was near to above normal in every Western State except Arizona and New Mexico (figure 4). Ironically, those two states have had the best start to Western wet season. As a result, many Western States, including California, have a buffer against developing drought.

### For More Information

The National Water and Climate Center homepage provides the latest available snowpack and water supply information. Please visit:

<http://www.wcc.nrcs.usda.gov>



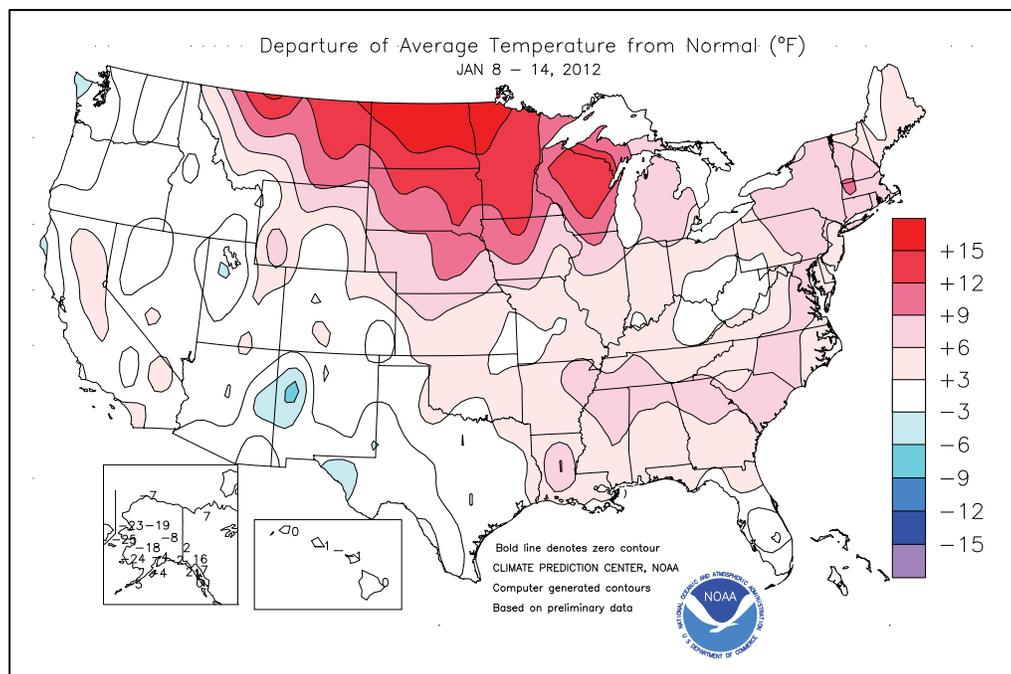


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weather continued to dominate the nation, especially in the **north-central U.S.** Weekly temperatures averaged at least 10°F above normal across the **northern Plains** and the **upper Midwest**. Although wheat continued to generally overwinter well, concerns persisted with respect to a lack of a protective snow cover, lingering drought (on the **southern Plains**), and poor autumn establishment (in some northern areas). Elsewhere, the **West**—excluding **Arizona** and **New Mexico**—continued to experience an unusually dry winter wet season. **California** and the **Great Basin** remained especially dry, although reservoirs were mostly well-stocked due to carryover storage from the abundant 2010-11 wet season.

During the early- to mid-week period, another round of record-setting warmth overspread the **northern Plains** and **Midwest**. On January 9, temperatures topped 60°F as far north as **Montana**, where **Glendive** (63°F) posted a daily-record high. Other records for the 9<sup>th</sup> included 57°F in **Huron, SD**, and 54°F in **Dickinson, ND**. The following day, **Huron** reached 58°F, setting another record. On January 10-11, consecutive daily-record highs were set in a few locations, including **Wisconsin Rapids, WI** (50 and 49°F). Scattered record highs were also noted across the **South** and **West**. On January 8, highs climbed to 79°F in **New Orleans, LA**, and **Beaumont-Port Arthur, TX**. The next day, **Charleston, SC** (78°F), notched a record-setting high for January 9. In **California**, **Bakersfield** registered daily-record highs on January 10 and 13 (71 and 74°F, respectively). Elsewhere in **California**, **Sacramento** (66 and 65°F) closed with week with consecutive daily-record highs on January 13-14.

The week's heaviest rain fell in the **western Gulf Coast region** on January 9, when daily-record totals reached 6.26 inches in **Lake Charles, LA**, and 4.06 inches in **Houston (Hobby Airport), TX**. For **Lake Charles**, it was also the second-wettest January day on record, behind 6.60 inches on January 24, 1915. Meanwhile, heavy snow blanketed **west-central Texas**, where **Midland** (10.6 inches on January 9) experienced its snowiest day on record. Previously, **Midland's** snowiest day had occurred on December 11, 1998, when 9.8 inches fell. **Midland** also set a record for its greatest seasonal snowfall, which reached 19.5 inches (previously, 13.9 inches in 1946-47). By January 11, heavy showers shifted into the **Southeast**, resulting in daily-record rainfall amounts in locations such as **Cape Hatteras, NC** (3.08 inches), and **Huntsville, AL** (2.42 inches). A day later, **Northeastern** daily-record totals for January 12 included 1.54 inches in **Providence, RI**, and 1.35 inches in **Newark, NJ**. Meanwhile, snow spread from the **Midwest** into parts of the **Northeast**. **Waterloo, IA** (4.8 inches), received a daily-record snowfall for January 12, followed the next day by record-setting totals in **New York** locations such as **Syracuse** (8.0 inches) and **Buffalo** (6.3 inches). In **Chicago, IL**, where 4.7 inches fell on January 12, it was the latest date of the season's first 2-inch snowfall since January 16, 2002. Snow squalls lingered through week's end downwind of the **Great Lakes**, where **Muskegon, MI**, was buried by 14.9 inches on January 14. **Muskegon's** January 12-15 snowfall totaled 23.9 inches. In contrast, **Reno, NV**, completed its 56<sup>th</sup> (and final) day without



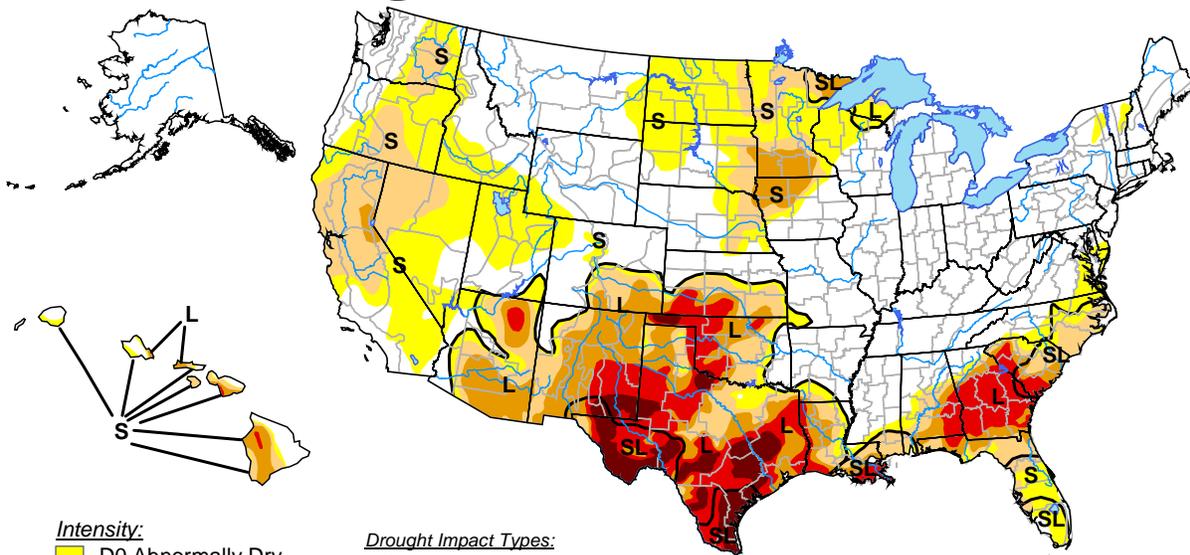
measurable precipitation on January 15. Previously, **Reno's** longest winter stretch without measurable rain or snow had been 54 days, from December 2, 1960, to January 24, 1961. The average mid-January water content of the high-elevation **Sierra Nevada** snow pack stood at 2 inches, just 11 percent of normal for this time of year. On December 31, however, **California's** 154 intrastate reservoirs held 118 percent of their normal water volume, a carryover from the bounty of the 2010-11 winter wet season.

Extreme cold temporarily eroded across parts of **Alaska**, although weekly temperatures averaged more than 20°F below normal in some western locations. **Nome's** temperature rose above 0°F for the first time this year on January 14, peaking at 1°F. **Nome's** spell of sub-zero temperatures lasted 19 days (December 26 - January 13)—well shy of the record-setting, 28-day cold wave in February-March 1971. However, **Nome** posted daily-record lows of -33 and -34°F on January 12 and 13, respectively. The first half of the month featured an average temperature of -25.9°F in **Fairbanks**, nearly 18°F below normal—and the coldest January 1-16 period in that location since 2000. **Fairbanks** also reported ten readings of -40°F or lower during the first 16 days of the month, including lows of -48°F on January 14 and 15. Those were **Fairbanks' lowest** readings since February 10, 2008, when it was also -48°F. Elsewhere in **Alaska** on January 14, unofficial readings included -66°F at **Jim River** and -63°F at **Coldfoot**. Meanwhile, record-setting snowfall ended late in the week across **southern Alaska**. **Anchorage** received 13.9 inches of snow from January 8-13, boosting its season-to-date total to 89.3 inches. The previous highest July 1 - January 13 snowfall in **Anchorage** had been 77.8 inches in 1994-95. **Valdez** received 98.5 inches of snow during the first 12 days of the year, on top of December's record-setting, 152.2-inch total. The snow depth in **Valdez** peaked at 84 inches on January 12, following a final flurry of 31.6 inches from January 10-12. The heavy snow briefly reached deep into **interior Alaska**, where daily-record amounts for January 10 included 8.5 inches in **McGrath** and 4.2 inches in **King Salmon**. Farther south, most of **Hawaii** experienced another week of warm, tranquil weather. On the **Big Island**, Hilo's January 1-14 rainfall totaled just 1.59 inches (41 percent of normal). During the same period, no rain fell at **Kahului, Maui**, while only a trace dampened **Honolulu, Oahu**.

# U.S. Drought Monitor

January 10, 2012

Valid 8 a.m. EDT



**Intensity:**

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

**Drought Impact Types:**

- Delineates dominant impacts
- S = Short-Term, typically <6 months (e.g. agriculture, grasslands)
- L = Long-Term, typically >6 months (e.g. hydrology, ecology)

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<http://drought.unl.edu/dm>

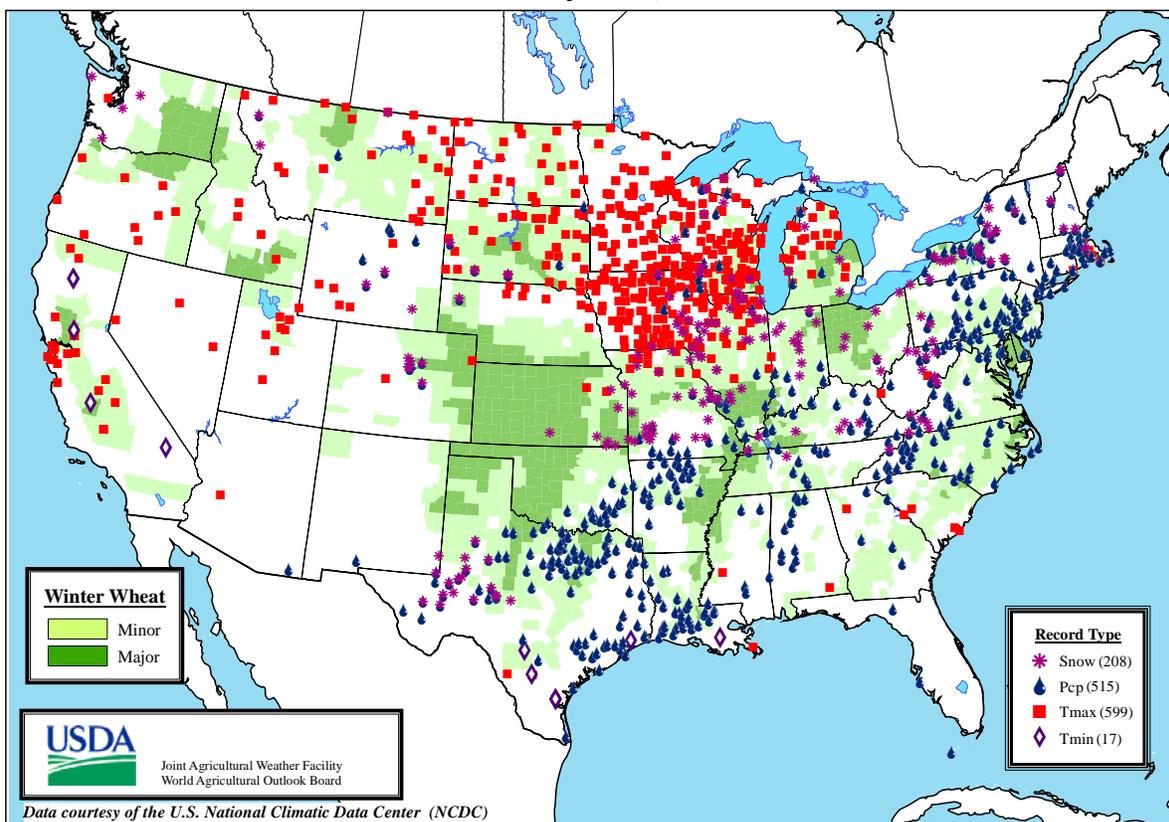


Released Thursday, January 12, 2012

Author: Laura Edwards, Western Regional Climate Center, South Dakota State University

## Daily Weather Records (ASOS & COOP)

January 8-14, 2012

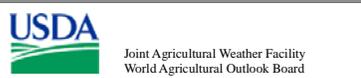


**Winter Wheat**

- Minor
- Major

**Record Type**

- Snow (208)
- Pcp (515)
- Tmax (599)
- Tmin (17)



Data courtesy of the U.S. National Climatic Data Center (NCDC)

National Weather Data for Selected Cities

Weather Data for the Week Ending January 14, 2012

Data Provided by Climate Prediction Center (301-763-8000, Ext. 7503)

| STATES AND STATIONS | TEMPERATURE °F  |                 |              |             |         |                       | PRECIPITATION     |                       |                          |                        |                         |                        |                         |                 | RELATIVE HUMIDITY PERCENT |              | NUMBER OF DAYS |                  |                  |                  |                  |
|---------------------|-----------------|-----------------|--------------|-------------|---------|-----------------------|-------------------|-----------------------|--------------------------|------------------------|-------------------------|------------------------|-------------------------|-----------------|---------------------------|--------------|----------------|------------------|------------------|------------------|------------------|
|                     | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL, IN. SINCE DEC 1 | PCT. NORMAL SINCE DEC 1 | TOTAL, IN. SINCE JAN 1 | PCT. NORMAL SINCE JAN 1 | AVERAGE MAXIMUM | AVERAGE MINIMUM           | 90 AND ABOVE | 32 AND BELOW   | TEMP. °F         |                  | PRECIP           |                  |
|                     |                 |                 |              |             |         |                       |                   |                       |                          |                        |                         |                        |                         |                 |                           |              |                | .01 INCH OF MORE | .50 INCH OF MORE | .01 INCH OF MORE | .50 INCH OF MORE |
| AL BIRMINGHAM       | 57              | 41              | 68           | 24          | 49      | 7                     | 1.62              | 0.38                  | 1.19                     | 6.90                   | 105                     | 1.66                   | 80                      | 93              | 64                        | 0            | 3              | 3                | 1                | 1                |                  |
| HUNTSVILLE          | 54              | 40              | 61           | 22          | 47      | 8                     | 2.90              | 1.63                  | 2.45                     | 9.89                   | 127                     | 3.52                   | 161                     | 89              | 77                        | 0            | 3              | 5                | 1                | 1                |                  |
| MOBILE              | 66              | 44              | 76           | 25          | 55      | 5                     | 0.05              | -1.21                 | 0.05                     | 1.93                   | 29                      | 0.05                   | 2                       | 88              | 54                        | 0            | 2              | 1                | 0                | 0                |                  |
| AK MONTGOMERY       | 62              | 42              | 74           | 22          | 52      | 6                     | 0.94              | -0.13                 | 0.45                     | 4.36                   | 64                      | 0.94                   | 51                      | 91              | 54                        | 0            | 2              | 4                | 0                | 0                |                  |
| ANCHORAGE           | 20              | 3               | 39           | -10         | 12      | -4                    | 0.62              | 0.47                  | 0.31                     | 3.56                   | 268                     | 0.82                   | 293                     | 82              | 71                        | 0            | 7              | 5                | 0                | 0                |                  |
| BARROW              | -14             | -27             | 0            | -38         | -20     | -7                    | 0.06              | 0.06                  | 0.04                     | 0.79                   | 608                     | 0.19                   | 1900                    | 84              | 72                        | 0            | 7              | 2                | 0                | 0                |                  |
| FAIRBANKS           | -6              | -30             | 21           | -48         | -18     | -8                    | 0.40              | 0.27                  | 0.20                     | 1.55                   | 158                     | 0.60                   | 250                     | ***             | ***                       | 0            | 7              | 4                | 0                | 0                |                  |
| JUNEAU              | 36              | 28              | 42           | 13          | 32      | 6                     | 1.49              | 0.37                  | 0.59                     | 11.36                  | 154                     | 3.24                   | 164                     | 93              | 72                        | 0            | 5              | 6                | 1                | 1                |                  |
| KODIAK              | 35              | 18              | 53           | 10          | 26      | -4                    | 2.45              | 0.55                  | 1.93                     | 9.17                   | 84                      | 3.25                   | 100                     | 70              | 51                        | 0            | 7              | 5                | 1                | 1                |                  |
| NOME                | -8              | -30             | 4            | -34         | -19     | -25                   | 0.02              | -0.17                 | 0.02                     | 2.19                   | 162                     | 0.02                   | 6                       | 74              | 65                        | 0            | 7              | 1                | 0                | 0                |                  |
| AZ FLAGSTAFF        | 47              | 21              | 56           | 13          | 34      | 5                     | 0.00              | -0.45                 | 0.00                     | 2.16                   | 83                      | 0.00                   | 0                       | 70              | 19                        | 0            | 7              | 0                | 0                | 0                |                  |
| PHOENIX             | 68              | 43              | 72           | 38          | 56      | 3                     | 0.00              | -0.19                 | 0.00                     | 1.10                   | 87                      | 0.00                   | 0                       | 42              | 22                        | 0            | 0              | 0                | 0                | 0                |                  |
| PRESCOTT            | 56              | 23              | 61           | 17          | 40      | 4                     | 0.00              | -0.33                 | 0.00                     | 2.33                   | 127                     | 0.00                   | 0                       | 57              | 11                        | 0            | 7              | 0                | 0                | 0                |                  |
| TUCSON              | 65              | 37              | 71           | 32          | 51      | 0                     | 0.00              | -0.23                 | 0.00                     | 2.03                   | 140                     | 0.00                   | 0                       | 55              | 28                        | 0            | 2              | 0                | 0                | 0                |                  |
| AR FORT SMITH       | 51              | 35              | 59           | 23          | 43      | 6                     | 1.05              | 0.53                  | 1.05                     | 4.51                   | 105                     | 1.07                   | 116                     | 76              | 41                        | 0            | 3              | 1                | 1                | 1                |                  |
| LITTLE ROCK         | 53              | 37              | 63           | 25          | 45      | 5                     | 0.64              | -0.16                 | 0.56                     | 8.38                   | 137                     | 0.64                   | 45                      | 78              | 42                        | 0            | 3              | 4                | 1                | 1                |                  |
| CA BAKERSFIELD      | 67              | 36              | 74           | 34          | 52      | 5                     | 0.00              | -0.25                 | 0.00                     | 0.00                   | 0                       | 0.00                   | 0                       | 70              | 50                        | 0            | 0              | 0                | 0                | 0                |                  |
| FRESNO              | 65              | 35              | 68           | 34          | 50      | 5                     | 0.00              | -0.45                 | 0.00                     | 0.00                   | 0                       | 0.00                   | 0                       | 76              | 58                        | 0            | 0              | 0                | 0                | 0                |                  |
| LOS ANGELES         | 72              | 49              | 79           | 44          | 60      | 3                     | 0.00              | -0.60                 | 0.00                     | 0.67                   | 24                      | 0.00                   | 0                       | 59              | 29                        | 0            | 0              | 0                | 0                | 0                |                  |
| REDDING             | 65              | 33              | 69           | 25          | 49      | 4                     | 0.00              | -1.43                 | 0.00                     | 0.38                   | 5                       | 0.00                   | 0                       | 71              | 49                        | 0            | 5              | 0                | 0                | 0                |                  |
| SACRAMENTO          | 64              | 30              | 66           | 29          | 47      | 2                     | 0.00              | -0.79                 | 0.00                     | 0.27                   | 7                       | 0.00                   | 0                       | 92              | 32                        | 0            | 7              | 0                | 0                | 0                |                  |
| SAN DIEGO           | 70              | 49              | 77           | 46          | 59      | 2                     | 0.00              | -0.48                 | 0.00                     | 0.87                   | 41                      | 0.01                   | 1                       | 67              | 38                        | 0            | 0              | 0                | 0                | 0                |                  |
| SAN FRANCISCO       | 62              | 41              | 65           | 39          | 52      | 3                     | 0.00              | -0.93                 | 0.00                     | 0.13                   | 3                       | 0.00                   | 0                       | 74              | 54                        | 0            | 0              | 0                | 0                | 0                |                  |
| STOCKTON            | 65              | 29              | 75           | 27          | 47      | 2                     | 0.00              | -0.56                 | 0.00                     | 0.17                   | 6                       | 0.01                   | 1                       | 80              | 60                        | 0            | 6              | 0                | 0                | 0                |                  |
| CO ALAMOSA          | 37              | -4              | 42           | -10         | 17      | 3                     | 0.00              | -0.06                 | 0.00                     | 0.27                   | 61                      | 0.00                   | 0                       | 77              | 57                        | 0            | 7              | 0                | 0                | 0                |                  |
| CO SPRINGS          | 48              | 17              | 54           | 5           | 32      | 4                     | 0.00              | -0.07                 | 0.00                     | 0.46                   | 82                      | 0.00                   | 0                       | 70              | 22                        | 0            | 7              | 0                | 0                | 0                |                  |
| DENVER INTL         | 48              | 15              | 59           | -6          | 32      | 4                     | 0.10              | 0.04                  | 0.10                     | 0.96                   | 218                     | 0.18                   | 138                     | 66              | 34                        | 0            | 7              | 1                | 0                | 0                |                  |
| GRAND JUNCTION      | 41              | 15              | 45           | 11          | 28      | 3                     | 0.00              | -0.14                 | 0.00                     | 0.35                   | 45                      | 0.00                   | 0                       | 67              | 44                        | 0            | 7              | 0                | 0                | 0                |                  |
| PUEBLO              | 48              | 16              | 56           | 6           | 32      | 3                     | 0.02              | -0.06                 | 0.02                     | 0.87                   | 161                     | 0.03                   | 20                      | 74              | 44                        | 0            | 7              | 1                | 0                | 0                |                  |
| CT BRIDGEPORT       | 45              | 30              | 51           | 25          | 37      | 7                     | 0.95              | 0.10                  | 0.87                     | 4.76                   | 97                      | 1.06                   | 73                      | 70              | 50                        | 0            | 6              | 3                | 1                | 1                |                  |
| HARTFORD            | 42              | 25              | 46           | 15          | 33      | 7                     | 0.99              | 0.12                  | 0.96                     | 6.10                   | 120                     | 1.10                   | 74                      | 77              | 48                        | 0            | 6              | 2                | 1                | 1                |                  |
| DC WASHINGTON       | 49              | 34              | 57           | 27          | 41      | 6                     | 0.96              | 0.22                  | 0.59                     | 5.86                   | 135                     | 0.96                   | 75                      | 79              | 50                        | 0            | 3              | 4                | 1                | 1                |                  |
| DE WILMINGTON       | 47              | 29              | 53           | 26          | 38      | 6                     | 1.12              | 0.32                  | 0.62                     | 5.59                   | 117                     | 1.15                   | 84                      | 91              | 50                        | 0            | 6              | 3                | 1                | 1                |                  |
| FL DAYTONA BEACH    | 71              | 48              | 77           | 35          | 59      | 1                     | 0.03              | -0.67                 | 0.03                     | 3.11                   | 80                      | 0.03                   | 3                       | 93              | 44                        | 0            | 0              | 1                | 0                | 0                |                  |
| JACKSONVILLE        | 70              | 43              | 76           | 29          | 57      | 4                     | 0.00              | -0.80                 | 0.00                     | 1.84                   | 46                      | 0.00                   | 0                       | 85              | 40                        | 0            | 1              | 0                | 0                | 0                |                  |
| KEY WEST            | 76              | 67              | 79           | 61          | 72      | 2                     | 0.68              | 0.16                  | 0.63                     | 1.08                   | 36                      | 0.68                   | 76                      | 88              | 65                        | 0            | 0              | 2                | 1                | 1                |                  |
| MIAMI               | 76              | 62              | 79           | 54          | 69      | 1                     | 0.01              | -0.38                 | 0.01                     | 1.05                   | 37                      | 0.01                   | 1                       | 83              | 55                        | 0            | 0              | 1                | 0                | 0                |                  |
| ORLANDO             | 72              | 49              | 78           | 36          | 60      | -1                    | 0.09              | -0.44                 | 0.09                     | 0.89                   | 28                      | 0.09                   | 10                      | 90              | 56                        | 0            | 0              | 1                | 0                | 0                |                  |
| PENSACOLA           | 66              | 47              | 74           | 31          | 57      | 5                     | 0.30              | -0.88                 | 0.25                     | 8.13                   | 137                     | 0.43                   | 22                      | 83              | 53                        | 0            | 2              | 3                | 0                | 0                |                  |
| TALLAHASSEE         | 68              | 41              | 75           | 23          | 54      | 2                     | 1.19              | -0.03                 | 0.60                     | 5.59                   | 91                      | 1.19                   | 58                      | 93              | 59                        | 0            | 2              | 2                | 2                | 2                |                  |
| TAMPA               | 72              | 55              | 81           | 43          | 64      | 3                     | 0.31              | -0.16                 | 0.31                     | 0.50                   | 16                      | 0.31                   | 38                      | 84              | 49                        | 0            | 0              | 1                | 0                | 0                |                  |
| GA WEST PALM BEACH  | 74              | 56              | 78           | 46          | 65      | -1                    | 0.00              | -0.80                 | 0.00                     | 0.90                   | 20                      | 0.00                   | 0                       | 88              | 56                        | 0            | 0              | 0                | 0                | 0                |                  |
| ATHENS              | 59              | 40              | 69           | 25          | 50      | 8                     | 0.47              | -0.55                 | 0.22                     | 4.23                   | 78                      | 0.55                   | 32                      | 85              | 63                        | 0            | 3              | 4                | 0                | 0                |                  |
| ATLANTA             | 58              | 41              | 66           | 25          | 49      | 7                     | 0.56              | -0.51                 | 0.27                     | 4.98                   | 89                      | 0.56                   | 31                      | 80              | 61                        | 0            | 3              | 4                | 0                | 0                |                  |
| AUGUSTA             | 64              | 39              | 74           | 29          | 52      | 8                     | 0.29              | -0.69                 | 0.26                     | 1.57                   | 33                      | 0.29                   | 18                      | 85              | 63                        | 0            | 2              | 2                | 0                | 0                |                  |
| COLUMBUS            | 60              | 42              | 70           | 26          | 51      | 5                     | 1.81              | 0.74                  | 0.84                     | 6.85                   | 110                     | 1.83                   | 101                     | 90              | 55                        | 0            | 2              | 4                | 2                | 2                |                  |
| MACON               | 61              | 39              | 72           | 23          | 50      | 5                     | 0.77              | -0.32                 | 0.53                     | 3.80                   | 66                      | 0.77                   | 42                      | 88              | 55                        | 0            | 2              | 4                | 1                | 1                |                  |
| SAVANNAH            | 67              | 42              | 76           | 28          | 55      | 6                     | 0.41              | -0.48                 | 0.41                     | 1.58                   | 37                      | 0.43                   | 29                      | 81              | 56                        | 0            | 1              | 1                | 0                | 0                |                  |
| HI HILO             | 80              | 63              | 83           | 61          | 72      | 1                     | 1.08              | -1.05                 | 0.79                     | 21.92                  | 156                     | 1.64                   | 46                      | 88              | 73                        | 0            | 0              | 4                | 1                | 1                |                  |
| HONOLULU            | 81              | 64              | 82           | 61          | 72      | -1                    | 0.00              | -0.62                 | 0.00                     | 1.10                   | 28                      | 0.00                   | 0                       | 85              | 72                        | 0            | 0              | 0                | 0                | 0                |                  |
| KAHULUI             | 82              | 60              | 84           | 55          | 71      | -1                    | 0.00              | -0.85                 | 0.00                     | 0.00                   | 0                       | 0.00                   | 0                       | 81              | 71                        | 0            | 0              | 0                | 0                | 0                |                  |
| LIHUE               | 80              | 64              | 82           | 56          | 72      | 0                     | 0.19              | -0.88                 | 0.10                     | 2.15                   | 32                      | 0.46                   | 25                      | 85              | 75                        | 0            | 0              | 5                | 0                | 0                |                  |
| ID BOISE            | 40              | 21              | 47           | 17          | 31      | 2                     | 0.00              | -0.30                 | 0.00                     | 0.36                   | 19                      | 0.00                   | 0                       | 79              | 68                        | 0            | 7              | 0                | 0                | 0                |                  |
| LEWISTON            | 42              | 25              | 53           | 15          | 34      | 1                     | 0.06              | -0.19                 | 0.06                     | 0.27                   | 18                      | 0.06                   | 14                      | 79              | 62                        | 0            | 6              | 1                | 0                | 0                |                  |
| POCATELLO           | 39              | 8               | 52           | -3          | 23      | -1                    | 0.00              | -0.25                 | 0.00                     | 0.20                   | 13                      | 0.00                   | 0                       | 85              | 68                        | 0            | 7              | 0                | 0                | 0                |                  |
| IL CHICAGO/O'HARE   | 39              | 21              | 54           | 8           | 30      | 8                     | 0.36              | -0.03                 | 0.35                     | 3.06                   | 98                      | 0.41                   | 59                      | 82              | 62                        | 0            | 7              | 2                | 0                | 0                |                  |
| MOLINE              | 39              | 14              | 56           | -4          | 26      | 5                     | 0.22              | -0.14                 | 0.22                     | 3.02                   | 106                     | 0.36                   | 55                      | 86              | 63                        | 0            | 7              | 1                | 0                | 0                |                  |
| PEORIA              | 40              | 18              | 56           | 8           | 29      | 7                     | 0.34              | 0.01                  | 0.34                     | 3.29                   | 109                     | 0.41                   | 67                      | 89              | 53                        | 0            | 7              | 1                | 0                | 0                |                  |
| ROCKFORD            | 39              | 18              | 57           | 8           | 28      | 9                     | 0.33              | 0.03                  | 0.33                     | 2.48                   | 95                      | 0.42                   | 76                      | 84              | 59                        | 0            | 7              | 1                | 0                | 0                |                  |
| SPRINGFIELD         | 40              | 18              | 58           | 6           | 29      | 4                     | 0.15              | -0.22                 | 0.13                     | 2.79                   | 86                      | 0.17                   | 25                      | 88              | 56                        | 0            | 7              | 2                | 0                | 0                |                  |
| IN EVANSVILLE       | 44              | 24              | 56           | 12          | 34      | 3                     | 0.81              | 0.18                  | 0.62                     | 6.85                   | 148                     | 0.81                   | 74                      | 88              | 63                        | 0            | 6              | 5                | 1                | 1                |                  |
| FORT WAYNE          | 36              | 21              | 48           | 12          | 29      | 5                     | 0.41              | -0.05                 | 0.25                     | 4.30                   | 120                     | 0.53                   | 65                      | 90              | 66                        | 0            | 7              | 3                | 0                | 0                |                  |
| INDIANAPOLIS        | 40              | 24              | 54           | 13          | 32      | 6                     | 0.73              | 0.18                  | 0.69                     | 5.87                   | 147                     | 0.77                   | 80                      | 84              | 55                        | 0            | 6              | 2                | 1                | 1                |                  |
| SOUTH BEND          | 38              | 20              | 49           | 5           | 29      | 5                     | 0.30              | -0.21                 | 0.17                     | 3.29                   | 82                      | 0.67                   | 74                      | 86              | 67                        | 0            | 7              | 2                | 0                | 0                |                  |
| IA BURLINGTON       | 38              | 17              | 55           | 5           | 27      | 4                     | 0.01              | -0.29                 | 0.01                     | 3.39                   | 128                     | 0.07                   |                         |                 |                           |              |                |                  |                  |                  |                  |

Weather Data for the Week Ending January 14, 2012

| STATES AND STATIONS | TEMPERATURE °F  |                 |              |             |         |                       | PRECIPITATION    |                       |                          |                       |                         |                       |                         |                 | RELATIVE HUMIDITY PERCENT |              | NUMBER OF DAYS |                  |                  |  |
|---------------------|-----------------|-----------------|--------------|-------------|---------|-----------------------|------------------|-----------------------|--------------------------|-----------------------|-------------------------|-----------------------|-------------------------|-----------------|---------------------------|--------------|----------------|------------------|------------------|--|
|                     | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL IN. SINCE DEC 1 | PCT. NORMAL SINCE DEC 1 | TOTAL IN. SINCE JAN01 | PCT. NORMAL SINCE JAN01 | AVERAGE MAXIMUM | AVERAGE MINIMUM           | TEMP. °F     |                | PRECIP           |                  |  |
|                     |                 |                 |              |             |         |                       |                  |                       |                          |                       |                         |                       |                         |                 |                           | 90 AND ABOVE | 32 AND BELOW   | .01 INCH OR MORE | .50 INCH OR MORE |  |
| KY WICHITA          | 47              | 22              | 57           | 14          | 35      | 5                     | 0.00             | -0.21                 | 0.00                     | 3.69                  | 211                     | 0.00                  | 0                       | 74              | 50                        | 0            | 7              | 0                | 0                |  |
| JACKSON             | 43              | 28              | 58           | 17          | 36      | 2                     | 1.66             | 0.86                  | 1.01                     | 5.85                  | 103                     | 1.68                  | 121                     | 89              | 60                        | 0            | 4              | 5                | 1                |  |
| LEXINGTON           | 44              | 25              | 58           | 14          | 34      | 2                     | 1.15             | 0.37                  | 0.99                     | 5.57                  | 103                     | 1.15                  | 84                      | 88              | 68                        | 0            | 6              | 3                | 1                |  |
| LOUISVILLE          | 45              | 27              | 56           | 17          | 36      | 3                     | 1.14             | 0.40                  | 1.00                     | 6.35                  | 128                     | 1.14                  | 88                      | 84              | 54                        | 0            | 5              | 4                | 1                |  |
| PADUCAH             | 47              | 27              | 55           | 18          | 37      | 5                     | 1.23             | 0.51                  | 0.78                     | 8.52                  | 151                     | 1.23                  | 98                      | 91              | 53                        | 0            | 5              | 3                | 1                |  |
| LA BATON ROUGE      | 66              | 44              | 79           | 27          | 55      | 5                     | 1.08             | -0.27                 | 0.69                     | 3.92                  | 52                      | 1.10                  | 48                      | 93              | 45                        | 0            | 2              | 2                | 1                |  |
| LAKE CHARLES        | 67              | 45              | 79           | 29          | 56      | 5                     | 6.38             | 5.11                  | 6.26                     | 11.09                 | 165                     | 6.40                  | 300                     | 86              | 46                        | 0            | 2              | 2                | 1                |  |
| NEW ORLEANS         | 67              | 49              | 79           | 32          | 58      | 6                     | 0.01             | -1.20                 | 0.01                     | 1.33                  | 19                      | 0.03                  | 1                       | 77              | 55                        | 0            | 1              | 1                | 0                |  |
| SHREVEPORT          | 59              | 41              | 69           | 27          | 50      | 4                     | 1.40             | 0.40                  | 0.90                     | 9.28                  | 148                     | 1.40                  | 81                      | 84              | 51                        | 0            | 2              | 3                | 1                |  |
| ME CARIBOU          | 23              | 4               | 36           | -6          | 14      | 4                     | 0.59             | -0.11                 | 0.35                     | 4.47                  | 101                     | 1.15                  | 94                      | 83              | 65                        | 0            | 7              | 3                | 0                |  |
| PORTLAND            | 36              | 20              | 43           | 5           | 28      | 6                     | 1.23             | 0.29                  | 1.11                     | 5.06                  | 86                      | 1.55                  | 96                      | 79              | 48                        | 0            | 7              | 2                | 1                |  |
| MD BALTIMORE        | 48              | 30              | 57           | 25          | 39      | 7                     | 1.15             | 0.35                  | 0.75                     | 5.68                  | 120                     | 1.18                  | 86                      | 80              | 59                        | 0            | 6              | 3                | 1                |  |
| MA BOSTON           | 43              | 28              | 54           | 17          | 35      | 5                     | 0.99             | 0.12                  | 0.92                     | 4.98                  | 95                      | 1.01                  | 68                      | 76              | 47                        | 0            | 6              | 3                | 1                |  |
| WORCESTER           | 37              | 23              | 41           | 10          | 30      | 6                     | 1.15             | 0.21                  | 1.06                     | 6.40                  | 119                     | 1.24                  | 78                      | 83              | 51                        | 0            | 7              | 2                | 1                |  |
| MI ALPENA           | 35              | 20              | 50           | 3           | 28      | 9                     | 0.26             | -0.15                 | 0.21                     | 1.53                  | 60                      | 0.53                  | 74                      | 89              | 64                        | 0            | 7              | 2                | 0                |  |
| GRAND RAPIDS        | 39              | 23              | 50           | 16          | 31      | 8                     | 0.60             | 0.16                  | 0.41                     | 3.27                  | 94                      | 0.68                  | 87                      | 90              | 63                        | 0            | 7              | 3                | 0                |  |
| HOUGHTON LAKE       | 36              | 18              | 50           | -1          | 27      | 9                     | 2.96             | 2.60                  | 1.90                     | 4.31                  | 181                     | 3.21                  | 510                     | 88              | 69                        | 0            | 7              | 3                | 3                |  |
| LANSING             | 37              | 22              | 50           | 16          | 30      | 8                     | 0.63             | 0.30                  | 0.36                     | 2.87                  | 104                     | 0.65                  | 110                     | 89              | 68                        | 0            | 7              | 4                | 0                |  |
| MUSKEGON            | 40              | 26              | 56           | 20          | 33      | 9                     | 1.16             | 0.66                  | 0.59                     | 3.77                  | 107                     | 1.44                  | 164                     | 86              | 64                        | 0            | 6              | 3                | 1                |  |
| TRAVERSE CITY       | 38              | 23              | 53           | 7           | 30      | 9                     | 0.43             | -0.24                 | 0.27                     | 2.17                  | 57                      | 0.67                  | 59                      | 88              | 59                        | 0            | 7              | 2                | 0                |  |
| MN DULUTH           | 28              | 12              | 47           | -1          | 20      | 12                    | 0.09             | -0.13                 | 0.08                     | 0.66                  | 51                      | 0.11                  | 31                      | 80              | 66                        | 0            | 7              | 2                | 0                |  |
| INT'L FALLS         | 26              | 9               | 41           | 1           | 18      | 16                    | 0.17             | 0.00                  | 0.16                     | 0.68                  | 69                      | 0.19                  | 68                      | 90              | 70                        | 0            | 7              | 2                | 0                |  |
| MINNEAPOLIS         | 33              | 17              | 52           | 5           | 25      | 12                    | 0.05             | -0.17                 | 0.03                     | 1.04                  | 75                      | 0.05                  | 13                      | 82              | 65                        | 0            | 6              | 2                | 0                |  |
| ROCHESTER           | 34              | 14              | 54           | -1          | 24      | 12                    | 0.05             | -0.14                 | 0.04                     | 1.29                  | 96                      | 0.08                  | 24                      | 85              | 69                        | 0            | 7              | 2                | 0                |  |
| ST. CLOUD           | 32              | 12              | 52           | 3           | 22      | 14                    | 0.11             | -0.05                 | 0.08                     | 0.51                  | 53                      | 0.11                  | 41                      | 87              | 58                        | 0            | 7              | 2                | 0                |  |
| MS JACKSON          | 60              | 42              | 69           | 25          | 51      | 6                     | 1.02             | -0.26                 | 0.55                     | 7.93                  | 105                     | 1.26                  | 58                      | 90              | 56                        | 0            | 2              | 3                | 1                |  |
| MERIDIAN            | 59              | 40              | 70           | 22          | 50      | 4                     | 2.06             | 0.75                  | 1.51                     | 7.47                  | 99                      | 2.06                  | 93                      | 96              | 76                        | 0            | 3              | 3                | 1                |  |
| TUPELO              | 56              | 40              | 63           | 23          | 48      | 8                     | 1.97             | 0.76                  | 0.83                     | 7.85                  | 95                      | 2.09                  | 98                      | 90              | 71                        | 0            | 3              | 4                | 2                |  |
| MO COLUMBIA         | 41              | 20              | 56           | 11          | 30      | 2                     | 0.17             | -0.19                 | 0.07                     | 4.36                  | 141                     | 0.85                  | 135                     | 84              | 48                        | 0            | 7              | 3                | 0                |  |
| KANSAS CITY         | 42              | 20              | 56           | 8           | 31      | 4                     | 0.15             | -0.10                 | 0.12                     | 3.20                  | 152                     | 0.17                  | 37                      | 79              | 44                        | 0            | 7              | 2                | 0                |  |
| SAINT LOUIS         | 44              | 24              | 58           | 13          | 34      | 5                     | 0.19             | -0.28                 | 0.15                     | 3.31                  | 90                      | 0.19                  | 23                      | 81              | 55                        | 0            | 6              | 2                | 0                |  |
| SPRINGFIELD         | 44              | 22              | 56           | 13          | 33      | 2                     | 0.01             | -0.43                 | 0.01                     | 2.84                  | 72                      | 0.01                  | 1                       | 80              | 47                        | 0            | 7              | 1                | 0                |  |
| MT BILLINGS         | 45              | 23              | 51           | 11          | 34      | 10                    | 0.00             | -0.19                 | 0.00                     | 0.21                  | 21                      | 0.00                  | 0                       | 55              | 27                        | 0            | 7              | 0                | 0                |  |
| BUTTE               | 36              | 7               | 47           | -5          | 22      | 5                     | 0.02             | -0.09                 | 0.02                     | 0.31                  | 42                      | 0.02                  | 10                      | 85              | 40                        | 0            | 7              | 1                | 0                |  |
| CUT BANK            | 40              | 20              | 54           | -5          | 30      | 11                    | 0.00             | -0.08                 | 0.00                     | 0.23                  | 48                      | 0.00                  | 0                       | 71              | 45                        | 0            | 6              | 0                | 0                |  |
| GLASGOW             | 37              | 16              | 56           | 6           | 26      | 16                    | 0.05             | -0.03                 | 0.02                     | 0.40                  | 77                      | 0.05                  | 33                      | 82              | 65                        | 0            | 7              | 3                | 0                |  |
| GREAT FALLS         | 42              | 23              | 53           | 1           | 33      | 11                    | 0.06             | -0.11                 | 0.06                     | 0.74                  | 76                      | 0.54                  | 180                     | 66              | 37                        | 0            | 6              | 1                | 0                |  |
| HAVRE               | 41              | 20              | 56           | 2           | 30      | 16                    | 0.01             | -0.10                 | 0.01                     | 0.13                  | 18                      | 0.01                  | 5                       | 64              | 50                        | 0            | 6              | 1                | 0                |  |
| MISSOULA            | 34              | 18              | 48           | 11          | 26      | 3                     | 0.04             | -0.21                 | 0.02                     | 0.62                  | 39                      | 0.05                  | 11                      | 86              | 74                        | 0            | 7              | 3                | 0                |  |
| NE GRAND ISLAND     | 45              | 20              | 61           | 10          | 33      | 11                    | 0.01             | -0.10                 | 0.01                     | 1.12                  | 130                     | 0.01                  | 5                       | 71              | 44                        | 0            | 7              | 1                | 0                |  |
| LINCOLN             | 42              | 18              | 62           | 4           | 30      | 8                     | 0.00             | -0.17                 | 0.00                     | 1.58                  | 136                     | 0.00                  | 0                       | 79              | 52                        | 0            | 7              | 0                | 0                |  |
| NORFOLK             | 42              | 17              | 62           | 4           | 30      | 10                    | 0.00             | -0.11                 | 0.00                     | 0.79                  | 93                      | 0.00                  | 0                       | 77              | 50                        | 0            | 7              | 0                | 0                |  |
| NORTH PLATTE        | 46              | 12              | 58           | 4           | 29      | 6                     | 0.00             | -0.08                 | 0.00                     | 0.39                  | 71                      | 0.07                  | 47                      | 84              | 35                        | 0            | 7              | 0                | 0                |  |
| OMAHA               | 41              | 19              | 57           | 6           | 30      | 9                     | 0.00             | -0.17                 | 0.00                     | 1.71                  | 141                     | 0.00                  | 0                       | 75              | 54                        | 0            | 7              | 0                | 0                |  |
| SCOTTSBLUFF         | 48              | 11              | 59           | 3           | 29      | 5                     | 0.02             | -0.09                 | 0.01                     | 0.37                  | 49                      | 0.03                  | 15                      | 76              | 46                        | 0            | 7              | 2                | 0                |  |
| VALENTINE           | 46              | 15              | 61           | 4           | 30      | 10                    | 0.01             | -0.05                 | 0.01                     | 0.21                  | 48                      | 0.01                  | 9                       | 83              | 54                        | 0            | 7              | 1                | 0                |  |
| NV ELY              | 48              | 9               | 59           | 3           | 29      | 4                     | 0.00             | -0.16                 | 0.00                     | 0.23                  | 30                      | 0.01                  | 4                       | 70              | 44                        | 0            | 7              | 0                | 0                |  |
| LAS VEGAS           | 59              | 38              | 62           | 34          | 49      | 3                     | 0.00             | -0.11                 | 0.00                     | 0.14                  | 23                      | 0.00                  | 0                       | 40              | 28                        | 0            | 0              | 0                | 0                |  |
| RENO                | 52              | 18              | 62           | 16          | 35      | 2                     | 0.00             | -0.22                 | 0.00                     | 0.00                  | 0                       | 0.00                  | 0                       | 66              | 48                        | 0            | 7              | 0                | 0                |  |
| WINNEMUCCA          | 47              | 2               | 59           | -2          | 25      | -4                    | 0.06             | -0.13                 | 0.02                     | 0.09                  | 8                       | 0.08                  | 24                      | 76              | 48                        | 0            | 7              | 5                | 0                |  |
| NH CONCORD          | 36              | 19              | 43           | 3           | 28      | 8                     | 0.45             | -0.21                 | 0.34                     | 4.64                  | 113                     | 0.56                  | 49                      | 86              | 54                        | 0            | 7              | 2                | 0                |  |
| NJ NEWARK           | 45              | 31              | 50           | 27          | 38      | 6                     | 1.57             | 0.66                  | 1.26                     | 6.14                  | 120                     | 1.63                  | 106                     | 70              | 50                        | 0            | 6              | 3                | 1                |  |
| NM ALBUQUERQUE      | 48              | 25              | 52           | 22          | 37      | 2                     | 0.00             | -0.11                 | 0.00                     | 1.20                  | 174                     | 0.00                  | 0                       | 61              | 28                        | 0            | 7              | 0                | 0                |  |
| NY ALBANY           | 38              | 23              | 41           | 6           | 30      | 7                     | 0.64             | 0.09                  | 0.57                     | 4.42                  | 122                     | 0.66                  | 69                      | 82              | 58                        | 0            | 7              | 2                | 1                |  |
| BINGHAMTON          | 36              | 22              | 43           | 6           | 29      | 7                     | 1.00             | 0.45                  | 0.38                     | 4.21                  | 106                     | 1.10                  | 115                     | 85              | 66                        | 0            | 6              | 5                | 0                |  |
| BUFFALO             | 39              | 26              | 50           | 5           | 33      | 8                     | 1.06             | 0.34                  | 0.69                     | 4.85                  | 96                      | 1.23                  | 97                      | 83              | 59                        | 0            | 5              | 5                | 1                |  |
| ROCHESTER           | 40              | 24              | 49           | 8           | 32      | 8                     | 0.80             | 0.28                  | 0.55                     | 3.39                  | 93                      | 0.88                  | 97                      | 83              | 62                        | 0            | 5              | 5                | 1                |  |
| SYRACUSE            | 42              | 24              | 49           | 2           | 33      | 10                    | 1.58             | 1.00                  | 0.80                     | 4.30                  | 104                     | 1.82                  | 182                     | 81              | 56                        | 0            | 5              | 4                | 2                |  |
| NC ASHEVILLE        | 45              | 33              | 55           | 23          | 39      | 3                     | 1.31             | 0.43                  | 0.91                     | 6.50                  | 133                     | 1.39                  | 94                      | 87              | 79                        | 0            | 3              | 4                | 1                |  |
| CHARLOTTE           | 53              | 38              | 60           | 21          | 46      | 5                     | 0.50             | -0.39                 | 0.43                     | 3.91                  | 83                      | 0.50                  | 33                      | 89              | 58                        | 0            | 2              | 3                | 0                |  |
| GREENSBORO          | 50              | 36              | 56           | 22          | 43      | 5                     | 1.10             | 0.32                  | 0.96                     | 4.13                  | 94                      | 1.11                  | 83                      | 84              | 55                        | 0            | 2              | 3                | 1                |  |
| HATTERAS            | 58              | 44              | 66           | 36          | 51      | 5                     | 3.93             | 2.57                  | 3.46                     | 7.09                  | 104                     | 3.93                  | 172                     | 85              | 60                        | 0            | 0              | 2                | 1                |  |
| RALEIGH             | 55              | 39              | 60           | 23          | 47      | 8                     | 0.91             | 0.02                  | 0.61                     | 2.97                  | 66                      | 0.92                  | 62                      | 84              | 55                        | 0            | 2              | 3                | 1                |  |
| WILMINGTON          | 61              | 43              | 66           | 30          | 52      | 6                     | 1.25             | 0.24                  | 1.18                     | 1.83                  | 33                      | 1.25                  | 74                      | 88              | 51                        | 0            | 1              | 2                | 1                |  |
| ND BISMARCK         | 38              | 13              | 53           | -1          | 26      | 16                    | 0.04             | -0.04                 | 0.02                     | 0.51                  | 86                      | 0.04                  | 27                      | 79              | 58                        | 0            | 7              | 2                | 0                |  |
| DICKINSON           | 38              | 14              | 54           | -5          | 26      | 12                    | 0.05             | -0.01                 | 0.05                     | 0.17                  | 38                      | 0.05                  | 45                      | 87              | 53                        | 0            | 6              | 1                | 0                |  |
| FARGO               | 34              | 12              | 51           | -6          | 23      | 16                    | 0.11             | -0.06                 | 0.03                     | 0.47                  | 55                      | 0.11                  | 38                      | 78              | 55                        | 0            | 7              | 4                | 0                |  |
| GRAND FORKS         | 31              | 11              | 46           | -10         | 21      | 16                    | 0.10             | -0.04                 | 0.03                     | 0.76                  | 95                      | 0.11                  | 44                      | 89              | 65                        | 0            | 7              | 5                | 0                |  |
| JAMESTOWN           | 34              | 11              | 52           | -4          | 23      | 15                    | 0.01             | -0.12                 | 0.01                     | 0.27                  | 41                      | 0.01                  | 5                       | 87              | 53                        | 0            | 7              | 1                | 0                |  |
| WILLISTON           | 35              | 12              | 51           | -6          | 24      | 16                    | 0.06             | -0.05                 | 0.05                     | 0.24                  | 31                      | 0.06                  | 30                      | 84              | 67                        | 0            | 7              | 2                | 0                |  |
| OH AKRON-CANTON     | 37              | 24              | 45           | 15          | 30      | 4                     | 0.66             | 0.10                  | 0.31                     | 5.52                  | 139                     | 0.77                  | 79                      | 79              | 63                        | 0            | 7              | 4                | 0                |  |
| CINCINNATI          | 42              | 25              | 54           | 15          | 34      | 4                     | 0.86             | 0.20                  | 0.67                     | 7.39                  | 166                     | 0.87                  | 75                      | 81              | 62                        | 0            | 5              | 2                | 1                |  |
| CLEVELAND           | 38              | 25              | 48           | 17          | 31      | 5                     | 0.59             | 0.04                  | 0.31                     | 5.73                  | 140                     | 0.77                  | 80                      | 86              | 64                        | 0            | 7              | 4                | 0                |  |
| COLUMBUS            | 39              | 24              | 50           | 17          | 32      | 4                     | 0.59             | 0.04                  | 0.34                     | 6.09                  | 157                     | 0.65                  | 68                      | 83              | 67                        | 0            | 7              | 3                | 0                |  |
| DAYTON              | 38              | 21              | 49           | 11          | 29      | 3                     | 0.41             | -0.17                 | 0.33                     | 5.76                  | 140                     | 0.42                  | 41                      | 88              | 59                        | 0            | 7              | 2                | 0                |  |
| MANSFIELD           | 36              | 21              | 46           | 11          | 29      | 4                     | 0.38             | -0.21                 | 0.22                     | 5.63                  | 131                     | 0.54                  | 52                      | 93              | 65                        | 0            | 7              | 3                | 0                |  |

Based on 1971-2000 normals

\*\*\* Not Available

Weather Data for the Week Ending January 14, 2012

| STATES AND STATIONS | TEMPERATURE °F  |                 |              |             |         |                       | PRECIPITATION     |                       |                          |                        |                         |                         |                          | RELATIVE HUMIDITY PERCENT |                 | NUMBER OF DAYS |              |                  |                  |
|---------------------|-----------------|-----------------|--------------|-------------|---------|-----------------------|-------------------|-----------------------|--------------------------|------------------------|-------------------------|-------------------------|--------------------------|---------------------------|-----------------|----------------|--------------|------------------|------------------|
|                     | AVERAGE MAXIMUM | AVERAGE MINIMUM | EXTREME HIGH | EXTREME LOW | AVERAGE | DEPARTURE FROM NORMAL | WEEKLY TOTAL, IN. | DEPARTURE FROM NORMAL | GREATEST IN 24-HOUR, IN. | TOTAL IN., SINCE DEC 1 | PCT. NORMAL SINCE DEC 1 | TOTAL IN., SINCE JAN 01 | PCT. NORMAL SINCE JAN 01 | AVERAGE MAXIMUM           | AVERAGE MINIMUM | 90 AND ABOVE   | 32 AND BELOW | PRECIP           |                  |
|                     |                 |                 |              |             |         |                       |                   |                       |                          |                        |                         |                         |                          |                           |                 |                |              | .01 INCH OR MORE | .50 INCH OR MORE |
| OK TOLEDO           | 37              | 22              | 49           | 18          | 30      | 6                     | 0.28              | -0.14                 | 0.16                     | 3.69                   | 109                     | 0.32                    | 42                       | 86                        | 64              | 0              | 7            | 3                | 0                |
| OK YOUNGSTOWN       | 38              | 23              | 46           | 16          | 30      | 5                     | 1.09              | -0.57                 | 0.48                     | 5.99                   | 154                     | 1.57                    | 171                      | 82                        | 67              | 0              | 7            | 4                | 0                |
| OK OKLAHOMA CITY    | 51              | 28              | 58           | 18          | 40      | 4                     | 0.00              | 0.31                  | 0.00                     | 1.86                   | 75                      | 0.00                    | 0                        | 67                        | 31              | 0              | 6            | 0                | 0                |
| OR TULSA            | 51              | 27              | 61           | 20          | 39      | 3                     | 0.02              | -0.34                 | 0.02                     | 1.47                   | 48                      | 0.02                    | 3                        | 72                        | 38              | 0              | 6            | 1                | 0                |
| OR ASTORIA          | 48              | 32              | 52           | 27          | 40      | -2                    | 0.40              | -1.75                 | 0.21                     | 6.58                   | 47                      | 1.73                    | 47                       | 91                        | 78              | 0              | 3            | 2                | 0                |
| OR BURNS            | 42              | 10              | 49           | 3           | 26      | 2                     | 0.00              | -0.26                 | 0.00                     | 0.35                   | 20                      | 0.00                    | 0                        | 85                        | 69              | 0              | 7            | 0                | 0                |
| OR EUGENE           | 45              | 27              | 48           | 22          | 36      | -3                    | 0.16              | -1.54                 | 0.12                     | 5.27                   | 47                      | 0.26                    | 9                        | 92                        | 80              | 0              | 6            | 2                | 0                |
| OR MEDFORD          | 48              | 25              | 54           | 18          | 36      | -2                    | 0.00              | -0.55                 | 0.00                     | 0.95                   | 25                      | 0.01                    | 1                        | 93                        | 67              | 0              | 7            | 0                | 0                |
| OR PENDLETON        | 44              | 21              | 55           | 11          | 33      | 0                     | 0.03              | -0.27                 | 0.02                     | 0.43                   | 21                      | 0.03                    | 6                        | 90                        | 74              | 0              | 7            | 2                | 0                |
| OR PORTLAND         | 44              | 31              | 46           | 26          | 38      | -1                    | 0.47              | -0.66                 | 0.18                     | 3.29                   | 43                      | 0.78                    | 40                       | 86                        | 71              | 0              | 4            | 4                | 0                |
| OR SALEM            | 45              | 30              | 49           | 24          | 37      | -3                    | 0.38              | -0.90                 | 0.16                     | 4.24                   | 49                      | 0.92                    | 42                       | 88                        | 70              | 0              | 6            | 3                | 0                |
| PA ALLENTOWN        | 44              | 26              | 49           | 20          | 35      | 8                     | 1.30              | 0.51                  | 1.00                     | 5.50                   | 116                     | 1.33                    | 99                       | 77                        | 54              | 0              | 6            | 3                | 1                |
| PA ERIE             | 39              | 24              | 46           | 13          | 32      | 4                     | 0.75              | 0.17                  | 0.22                     | 6.41                   | 134                     | 1.15                    | 110                      | 83                        | 65              | 0              | 7            | 4                | 0                |
| PA MIDDLETOWN       | 44              | 27              | 49           | 23          | 36      | 7                     | 1.43              | 0.82                  | 0.75                     | 4.73                   | 110                     | 1.47                    | 140                      | 86                        | 54              | 0              | 6            | 3                | 2                |
| PA PHILADELPHIA     | 47              | 31              | 53           | 27          | 39      | 7                     | 1.09              | 0.29                  | 0.57                     | 5.49                   | 117                     | 1.12                    | 82                       | 77                        | 46              | 0              | 5            | 3                | 1                |
| PA PITTSBURGH       | 39              | 24              | 47           | 16          | 32      | 4                     | 1.22              | 0.61                  | 0.63                     | 3.77                   | 97                      | 1.30                    | 126                      | 83                        | 57              | 0              | 7            | 3                | 2                |
| PA WILKES-BARRE     | 41              | 25              | 47           | 15          | 33      | 6                     | 0.55              | 0.02                  | 0.20                     | 3.77                   | 109                     | 0.66                    | 73                       | 85                        | 55              | 0              | 6            | 3                | 0                |
| PA WILLIAMSPORT     | 42              | 24              | 47           | 21          | 33      | 7                     | 1.41              | 0.81                  | 0.65                     | 5.28                   | 133                     | 1.60                    | 157                      | 82                        | 55              | 0              | 6            | 3                | 1                |
| RI PROVIDENCE       | 44              | 27              | 54           | 19          | 36      | 7                     | 1.60              | 0.62                  | 1.54                     | 5.60                   | 96                      | 1.65                    | 98                       | 79                        | 50              | 0              | 6            | 3                | 1                |
| SC BEAUFORT         | 67              | 43              | 76           | 33          | 55      | 7                     | 0.21              | -0.71                 | 0.20                     | 1.33                   | 29                      | 0.26                    | 17                       | 81                        | 44              | 0              | 0            | 2                | 0                |
| SC CHARLESTON       | 68              | 44              | 78           | 32          | 56      | 8                     | 0.10              | -0.83                 | 0.10                     | 0.75                   | 16                      | 0.10                    | 6                        | 82                        | 44              | 0              | 1            | 1                | 0                |
| SC COLUMBIA         | 60              | 42              | 73           | 26          | 51      | 7                     | 0.46              | -0.58                 | 0.40                     | 1.57                   | 31                      | 0.46                    | 26                       | 86                        | 67              | 0              | 2            | 3                | 0                |
| SC GREENVILLE       | 54              | 39              | 62           | 22          | 46      | 5                     | 0.75              | -0.24                 | 0.67                     | 4.74                   | 85                      | 0.78                    | 46                       | 89                        | 61              | 0              | 3            | 3                | 1                |
| SD ABERDEEN         | 37              | 9               | 56           | -6          | 23      | 13                    | 0.15              | 0.04                  | 0.13                     | 0.49                   | 84                      | 0.16                    | 80                       | 84                        | 66              | 0              | 7            | 2                | 0                |
| SD HURON            | 38              | 12              | 58           | -3          | 25      | 11                    | 0.06              | -0.04                 | 0.03                     | 0.30                   | 54                      | 0.06                    | 35                       | 87                        | 56              | 0              | 7            | 3                | 0                |
| SD RAPID CITY       | 47              | 17              | 61           | 6           | 32      | 10                    | 0.00              | -0.08                 | 0.00                     | 0.29                   | 53                      | 0.00                    | 0                        | 76                        | 31              | 0              | 7            | 0                | 0                |
| SD SIOUX FALLS      | 37              | 12              | 57           | -2          | 24      | 10                    | 0.05              | -0.06                 | 0.04                     | 0.67                   | 94                      | 0.05                    | 26                       | 82                        | 64              | 0              | 7            | 2                | 0                |
| TN BRISTOL          | 47              | 32              | 57           | 19          | 39      | 5                     | 1.74              | 0.97                  | 0.91                     | 6.04                   | 128                     | 1.94                    | 147                      | 95                        | 66              | 0              | 3            | 5                | 2                |
| TN CHATTANOOGA      | 50              | 37              | 57           | 21          | 44      | 5                     | 1.74              | 0.55                  | 1.19                     | 8.46                   | 124                     | 1.93                    | 96                       | 90                        | 71              | 0              | 3            | 5                | 1                |
| TN KNOXVILLE        | 49              | 36              | 57           | 23          | 42      | 5                     | 1.68              | 0.63                  | 0.78                     | 7.43                   | 118                     | 2.52                    | 141                      | 91                        | 68              | 0              | 3            | 5                | 2                |
| TN MEMPHIS          | 53              | 39              | 59           | 26          | 46      | 7                     | 0.37              | -0.57                 | 0.36                     | 8.92                   | 122                     | 0.37                    | 22                       | 78                        | 54              | 0              | 3            | 2                | 0                |
| TN NASHVILLE        | 50              | 33              | 61           | 20          | 42      | 5                     | 2.19              | 1.28                  | 1.81                     | 6.45                   | 106                     | 2.20                    | 140                      | 83                        | 56              | 0              | 3            | 4                | 1                |
| TX ABILENE          | 54              | 33              | 68           | 27          | 43      | 0                     | 1.33              | 1.11                  | 1.24                     | 3.26                   | 194                     | 1.33                    | 324                      | 82                        | 58              | 0              | 3            | 3                | 1                |
| TX AMARILLO         | 50              | 21              | 60           | 16          | 35      | 0                     | 0.00              | -0.15                 | 0.00                     | 1.54                   | 173                     | 0.00                    | 0                        | 72                        | 32              | 0              | 7            | 0                | 0                |
| TX AUSTIN           | 62              | 32              | 76           | 22          | 47      | -3                    | 0.64              | 0.20                  | 0.63                     | 5.53                   | 171                     | 0.64                    | 80                       | 69                        | 55              | 0              | 4            | 2                | 1                |
| TX BEAUMONT         | 66              | 44              | 79           | 28          | 55      | 3                     | 2.79              | 1.45                  | 2.69                     | 7.53                   | 100                     | 3.53                    | 155                      | 90                        | 45              | 0              | 2            | 5                | 1                |
| TX BROWNSVILLE      | 72              | 50              | 81           | 43          | 61      | 2                     | 0.02              | -0.24                 | 0.02                     | 1.81                   | 118                     | 0.26                    | 60                       | 83                        | 49              | 0              | 0            | 1                | 0                |
| TX CORPUS CHRISTI   | 72              | 41              | 83           | 30          | 57      | 1                     | 0.01              | -0.33                 | 0.01                     | 1.18                   | 50                      | 0.01                    | 2                        | 76                        | 50              | 0              | 1            | 1                | 0                |
| TX DEL RIO          | 64              | 34              | 76           | 27          | 49      | -2                    | 0.08              | 0.00                  | 0.08                     | 1.06                   | 115                     | 0.08                    | 47                       | 81                        | 45              | 0              | 3            | 1                | 0                |
| TX EL PASO          | 54              | 33              | 64           | 24          | 43      | -1                    | 0.65              | 0.55                  | 0.59                     | 1.39                   | 143                     | 0.65                    | 325                      | 79                        | 38              | 0              | 4            | 2                | 1                |
| TX FORT WORTH       | 55              | 35              | 66           | 26          | 45      | 1                     | 1.77              | 1.32                  | 1.32                     | 6.12                   | 180                     | 1.77                    | 213                      | 82                        | 49              | 0              | 3            | 3                | 1                |
| TX GALVESTON        | 64              | 50              | 73           | 38          | 57      | 1                     | 2.14              | 1.22                  | 2.08                     | 6.60                   | 130                     | 2.19                    | 141                      | 90                        | 53              | 0              | 0            | 3                | 1                |
| TX HOUSTON          | 66              | 44              | 78           | 30          | 55      | 4                     | 1.15              | 0.32                  | 1.01                     | 5.44                   | 106                     | 1.16                    | 81                       | 81                        | 58              | 0              | 2            | 3                | 1                |
| TX LUBBOCK          | 53              | 23              | 65           | 14          | 38      | 1                     | 0.00              | -0.08                 | 0.00                     | 1.52                   | 181                     | 0.00                    | 0                        | 71                        | 49              | 0              | 7            | 0                | 0                |
| TX MIDLAND          | 52              | 29              | 64           | 24          | 41      | -2                    | 0.73              | 0.62                  | 0.70                     | 2.36                   | 278                     | 0.73                    | 365                      | 81                        | 57              | 0              | 5            | 2                | 1                |
| TX SAN ANGELO       | 56              | 32              | 69           | 28          | 44      | 0                     | 1.46              | 1.30                  | 1.38                     | 2.46                   | 200                     | 1.46                    | 503                      | 77                        | 59              | 0              | 3            | 2                | 1                |
| TX SAN ANTONIO      | 64              | 39              | 75           | 30          | 51      | 1                     | 0.12              | -0.24                 | 0.12                     | 2.96                   | 113                     | 0.12                    | 18                       | 75                        | 38              | 0              | 2            | 1                | 0                |
| TX VICTORIA         | 68              | 40              | 81           | 28          | 54      | 1                     | 0.57              | 0.02                  | 0.57                     | 1.92                   | 56                      | 0.57                    | 59                       | 82                        | 58              | 0              | 2            | 1                | 1                |
| TX WACO             | 58              | 33              | 71           | 23          | 46      | 0                     | 1.35              | 0.93                  | 1.31                     | 6.31                   | 178                     | 1.35                    | 173                      | 84                        | 64              | 0              | 3            | 2                | 1                |
| TX WICHITA FALLS    | 53              | 32              | 59           | 24          | 43      | 3                     | 0.90              | 0.65                  | 0.72                     | 2.35                   | 109                     | 0.90                    | 191                      | 79                        | 50              | 0              | 3            | 2                | 1                |
| UT SALT LAKE CITY   | 36              | 17              | 42           | 14          | 27      | -2                    | 0.00              | -0.30                 | 0.00                     | 0.28                   | 16                      | 0.25                    | 49                       | 83                        | 54              | 0              | 7            | 0                | 0                |
| VT BURLINGTON       | 33              | 15              | 39           | 1           | 24      | 5                     | 0.53              | 0.04                  | 0.46                     | 3.07                   | 101                     | 0.84                    | 101                      | 82                        | 58              | 0              | 7            | 3                | 0                |
| VA LYNCHBURG        | 48              | 30              | 60           | 26          | 39      | 5                     | 1.46              | 0.67                  | 1.32                     | 6.08                   | 133                     | 1.47                    | 109                      | 83                        | 58              | 0              | 5            | 3                | 1                |
| VA NORFOLK          | 56              | 40              | 65           | 30          | 48      | 8                     | 0.74              | -0.13                 | 0.61                     | 2.30                   | 51                      | 0.74                    | 50                       | 82                        | 51              | 0              | 1            | 2                | 1                |
| VA RICHMOND         | 53              | 34              | 63           | 27          | 43      | 7                     | 0.89              | 0.06                  | 0.68                     | 2.92                   | 64                      | 0.89                    | 63                       | 80                        | 57              | 0              | 3            | 3                | 1                |
| VA ROANOKE          | 48              | 32              | 58           | 28          | 40      | 4                     | 0.87              | 0.17                  | 0.68                     | 5.08                   | 126                     | 0.89                    | 75                       | 81                        | 54              | 0              | 5            | 3                | 1                |
| WA WASH/DULLES      | 48              | 28              | 59           | 23          | 38      | 6                     | 1.18              | 0.49                  | 0.72                     | 5.68                   | 133                     | 1.22                    | 103                      | 80                        | 58              | 0              | 6            | 4                | 1                |
| WA OLYMPIA          | 44              | 28              | 53           | 21          | 36      | -2                    | 0.34              | -1.33                 | 0.28                     | 6.23                   | 58                      | 1.54                    | 54                       | 96                        | 85              | 0              | 6            | 3                | 0                |
| WA QUILLAYUTE       | 46              | 31              | 53           | 25          | 39      | -1                    | 1.00              | -0.03                 | 0.75                     | 12.56                  | 64                      | 4.66                    | 89                       | 96                        | 84              | 0              | 5            | 2                | 1                |
| WA SEATTLE-TACOMA   | 44              | 33              | 50           | 27          | 39      | -1                    | 0.37              | -0.76                 | 0.16                     | 4.02                   | 53                      | 1.78                    | 91                       | 84                        | 73              | 0              | 3            | 3                | 0                |
| WA SPOKANE          | 36              | 21              | 45           | 13          | 29      | 2                     | 0.12              | -0.29                 | 0.12                     | 1.15                   | 39                      | 0.14                    | 19                       | 90                        | 61              | 0              | 7            | 1                | 0                |
| WA YAKIMA           | 41              | 17              | 50           | 11          | 29      | 1                     | 0.08              | -0.19                 | 0.08                     | 0.42                   | 23                      | 0.08                    | 17                       | 85                        | 69              | 0              | 7            | 1                | 0                |
| WV BECKLEY          | 40              | 26              | 47           | 17          | 33      | 3                     | 0.76              | 0.04                  | 0.41                     | 5.01                   | 116                     | 1.00                    | 81                       | 88                        | 68              | 0              | 6            | 4                | 0                |
| WV CHARLESTON       | 44              | 25              | 54           | 20          | 35      | 2                     | 0.60              | -0.11                 | 0.32                     | 4.16                   | 92                      | 0.73                    | 60                       | 92                        | 58              | 0              | 7            | 5                | 0                |
| WV ELKINS           | 41              | 20              | 49           | 14          | 31      | 2                     | 0.19              | -0.57                 | 0.10                     | 4.23                   | 89                      | 0.49                    | 37                       | 93                        | 62              | 0              | 7            | 3                | 0                |
| WV HUNTINGTON       | 45              | 26              | 54           | 18          | 35      | 2                     | 0.67              | -0.05                 | 0.45                     | 4.03                   | 87                      | 0.70                    | 56                       | 90                        | 58              | 0              | 6            | 3                | 0                |
| WI EAU CLAIRE       | 33              | 16              | 53           | 10          | 25      | 13                    | 0.09              | -0.13                 | 0.06                     | 1.38                   | 99                      | 0.18                    | 49                       | 88                        | 59              | 0              | 7            | 2                | 0                |
| WI GREEN BAY        | 37              | 19              | 51           | 2           | 28      | 12                    | 0.28              | 0.03                  | 0.25                     | 1.83                   | 99                      | 0.43                    | 98                       | 85                        | 57              | 0              | 7            | 2                | 0                |
| WI LA CROSSE        | 35              | 18              | 53           | 4           | 26      | 10                    | 0.20              | -0.04                 | 0.18                     | 1.73                   | 105                     | 0.32                    | 78                       | 89                        | 59              | 0              | 7            | 2                | 0                |
| WI MADISON          | 38              | 18              | 53           | 8           | 28      | 11                    | 0.36              | 0.11                  | 0.36                     | 2.69                   | 128                     | 0.46                    | 105                      | 80                        | 60              | 0              | 7            | 1                | 0                |
| WI MILWAUKEE        | 39              | 22              | 55           | 14          | 30      | 9                     | 0.41              | 0.02                  | 0.35                     | 2.76                   | 96                      | 0.53                    | 79                       | 81                        | 60              | 0              | 7            | 3                | 0                |
| WY CASPER           | 35              | 14              | 44           | -2          | 25      | 3                     | 0.18              | 0.07                  | 0.13                     | 0.89                   | 109                     | 0.18                    | 90                       | 66                        | 49              | 0              | 7            | 2                | 0                |
| WY CHEYENNE         | 43              | 18              | 58           | 3           | 30      | 4                     | 0.01              | -0.07                 | 0.01                     | 0.44                   | 72                      | 0.01                    | 7                        | 55                        | 33              | 0              | 7            | 1                | 0                |
| WY LANDER           | 36              | 7               | 51           | -5          | 21      | 1                     | 0.23              | 0.12                  | 0.23                     | 1.20                   | 148                     | 0.23                    | 115                      | 78                        | 44              | 0              | 7            | 1                | 0                |
| WY SHERIDAN         | 43              | 16              | 56           | 4           | 30      | 9                     | 0.09              | -0.08                 | 0.08                     | 0.67                   | 68                      | 0.09                    | 30                       | 79                        | 52              | 0              | 7            | 2                | 0                |

Based on 1971-2000 normals

\*\*\* Not Available

# National Agricultural Summary

January 9-15, 2012

Weekly National Agricultural Summary provided by USDA/NASS

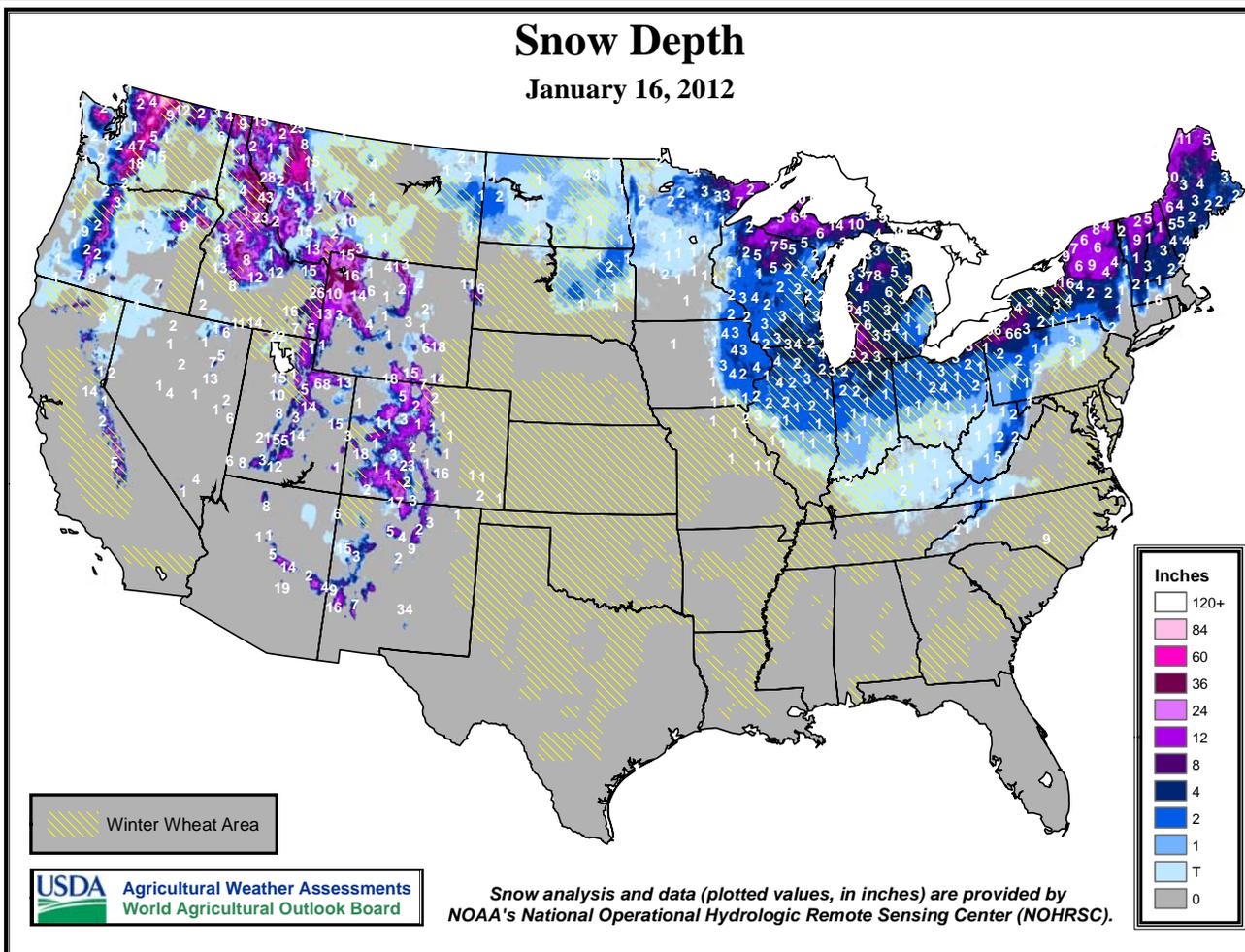
Near- to above-normal temperatures prevailed across much of the nation during the week, with readings averaging more than 15°F above normal in portions of the north-central U.S. A late-week storm system delivered snowfall totaling 5 inches or more to parts of the Corn Belt and Great Lakes region. With the exception of coastal portions of the Pacific Northwest, precipitation was minimal across much of the West during the week. Conversely, precipitation totaled 1 inch or more in a band stretching from Texas to the Northeast.

In Florida, sub-freezing overnight temperatures blanketed northern parts of the State, while little to no rainfall was reported. Topsoil and subsoil moisture levels were mostly short to adequate. Following recent low temperatures, sugarcane producers were busy assessing damage to cane plants. During the coldest weather, fruit and vegetable growers had worked endlessly to protect their crops from sub-freezing temperatures. Overhead sprinklers were run on strawberries to help form ice caps on plants for protection. Rainfall was light and scattered across the abnormally dry citrus-producing region. Orange harvest continued, while growers completed limited hedging and topping of orchards.

Rainfall totaling an inch or more fell over central and eastern Texas during the week. In the Northern High Plains, rainfall received over the past month led to improved winter wheat conditions. Elsewhere, producers in the Blacklands seeded additional wheat in areas that had previously been saturated. In southern parts of the state, potato fields were being prepared for planting, while onion and spinach producers completed herbicide applications.

Near- to above-average temperatures across Arizona led to increased melting of snowpack and the depletion of soil moisture in some areas. Alfalfa, as well as range and pasture condition, were reported as mostly very poor to fair. Cotton harvest was nearly complete. Small grain produces continued to seed barley and Durum wheat. A variety of vegetables were shipped from both central and western producers.

High pressure brought another dry, mostly mild week to California. Field crop producers continued cultivation, fertilization, and herbicide application. New alfalfa fields were planted. Dry conditions limited spraying in many fruit orchards. Growers irrigated, planted, and pruned peach and prune groves. A variety of fruit and vegetable crops continued to be harvested.



## International Weather and Crop Summary

January 8-14, 2012

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

### HIGHLIGHTS

**EUROPE:** Unsettled weather persisted across central and eastern portions of the continent, while dry conditions expanded over western crop districts.

**WESTERN FSU:** Despite persistent warmer-than-normal weather, additional snow maintained adequate insulation for dormant winter crops against potential incursions of bitter cold.

**MIDDLE EAST:** Additional rain and snow maintained excellent prospects for winter grains.

**NORTHWESTERN AFRICA:** Dry weather expanded across western and central crop areas, reducing soil moisture for vegetative winter grains.

**SOUTH ASIA:** Drier weather returned to much of India, with showers bringing additional moisture to rabi rice in eastern India.

**EAST ASIA:** Cold, dry weather continued for overwintering wheat.

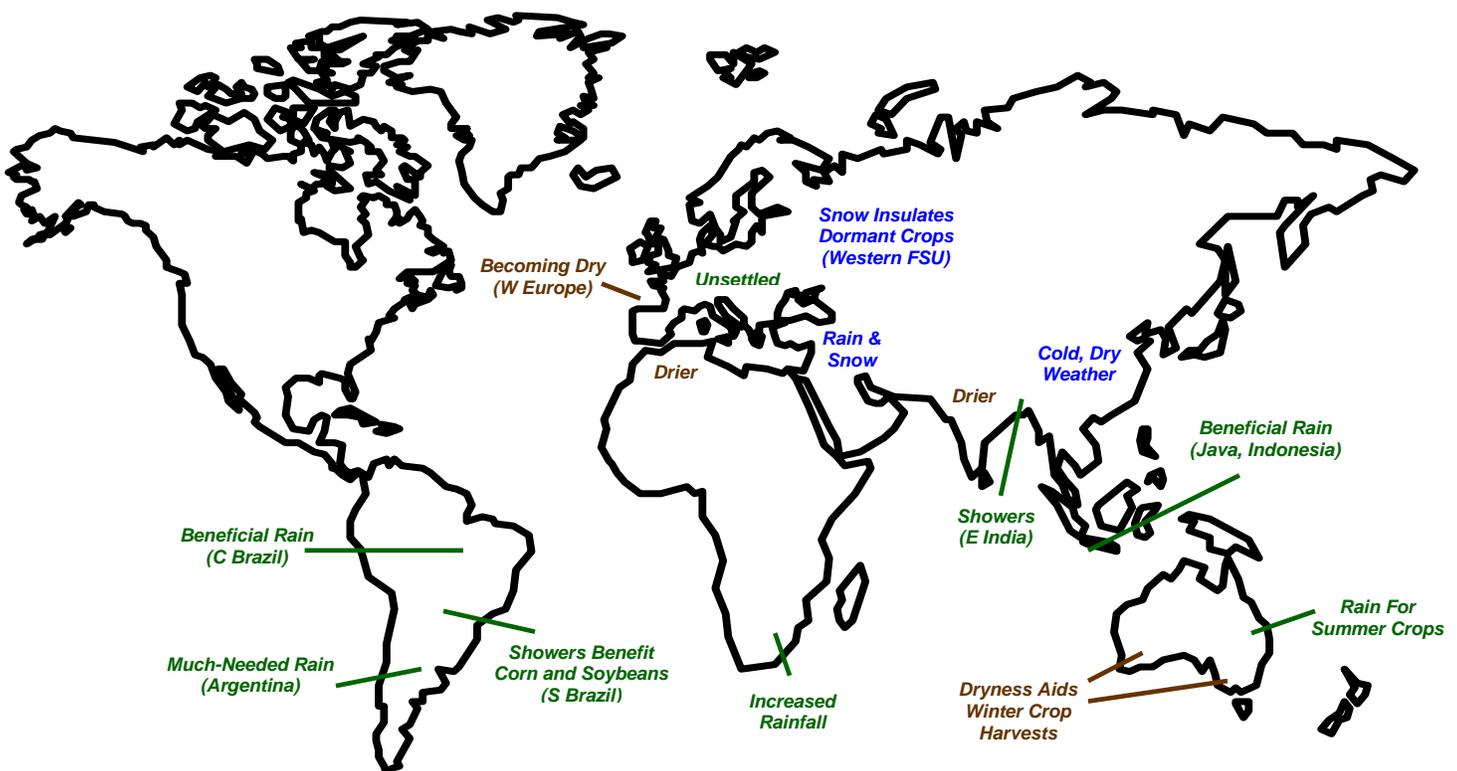
**SOUTHEAST ASIA:** Favorable moisture conditions continued in Java, Indonesia, benefiting reproductive rice.

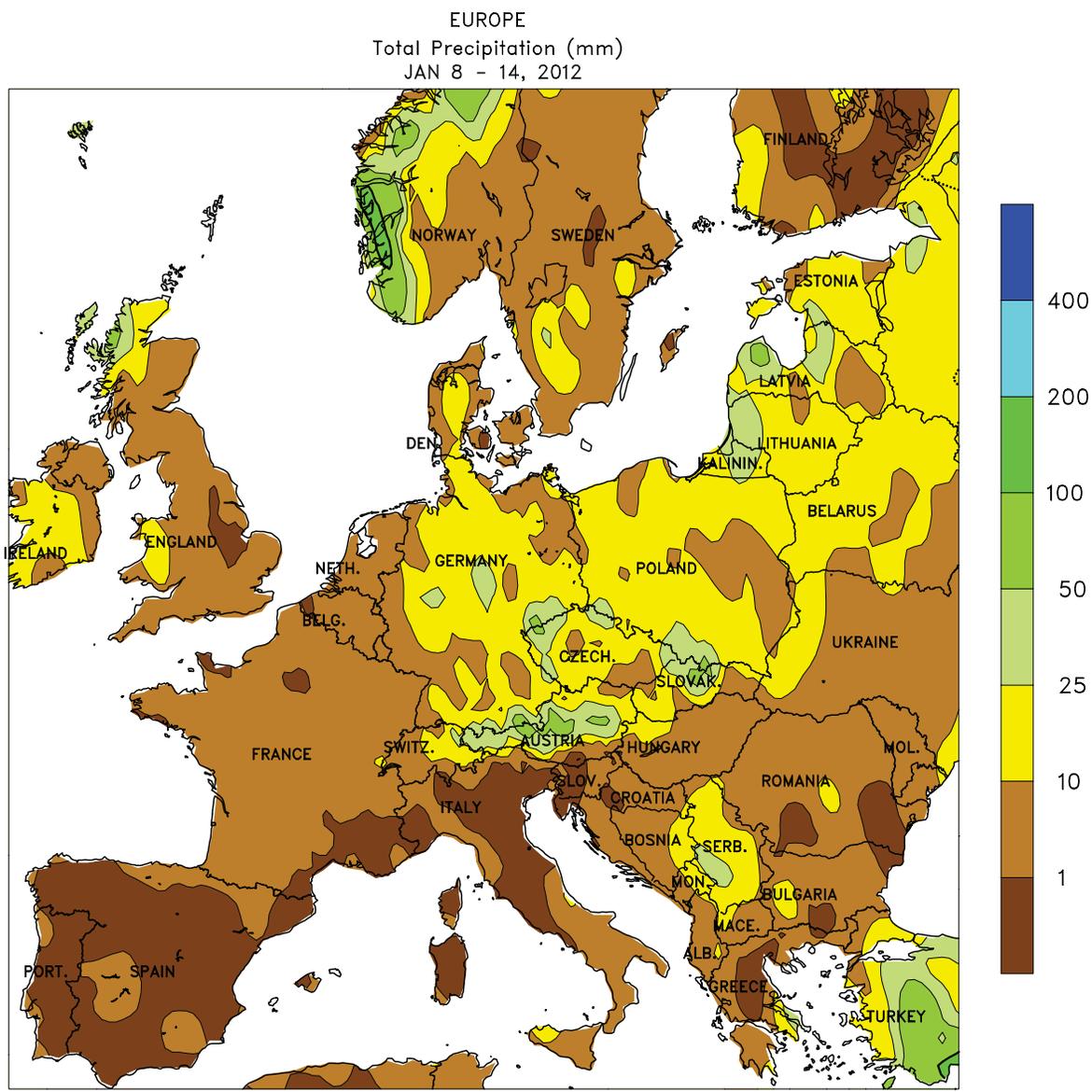
**AUSTRALIA:** Rain continued to benefit summer crops in eastern Australia, while mostly dry weather favored final winter crop harvesting in southeastern and western Australia.

**SOUTH AFRICA:** Increased rainfall benefited corn and other summer crops.

**ARGENTINA:** Rain brought much-needed relief from stressful heat and dryness.

**BRAZIL:** Showers benefited soybeans and corn in Brazil's southern production areas.





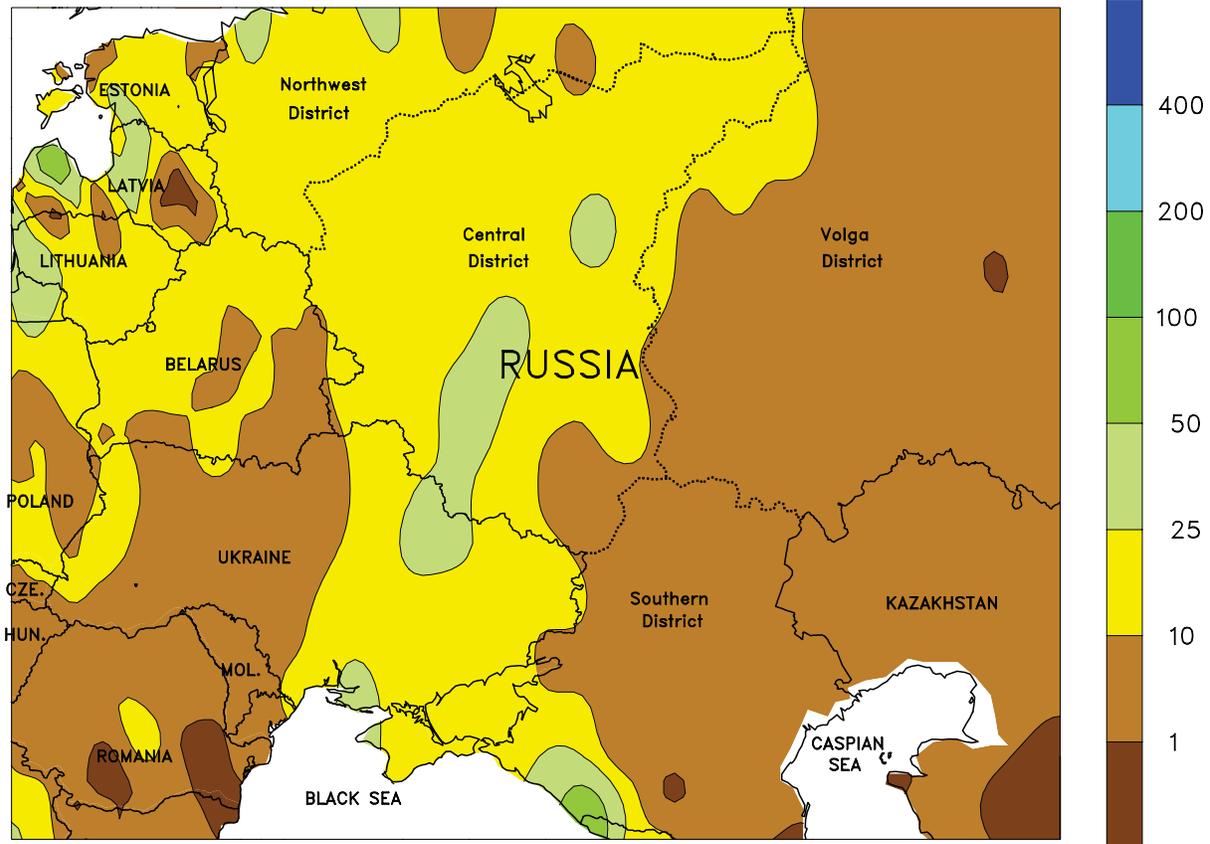
CLIMATE PREDICTION CENTER, NOAA  
Computer generated contours  
Based on preliminary data

**EUROPE**

Wet, mild weather continued over most major growing areas, although dry conditions expanded over the western portions of the continent. A cold front triggered widespread showers (2-50 mm) from eastern France into Poland and the northern Balkans, maintaining adequate soil moisture for dormant winter grains and oilseeds. The rain changed to snow in Poland and the Baltic States, with snow depths ranging from a trace to 20 cm (8 inches) by week's end. In contrast, dry weather expanded northward from Spain into western France

and southern England, promoting fieldwork (including late summer crop harvesting) and southern wheat growth. However, soil moisture and irrigation reserves continued to decline on the Iberian Peninsula, with rain needed soon to ensure uniform wheat and barley establishment. Dry weather also prevailed in Italy, maintaining high irrigation demands for winter wheat. Temperatures averaged up to 5°C above normal, which kept most major growing areas outside of eastern Europe devoid of snow cover.

WESTERN FSU  
 Total Precipitation (mm)  
 JAN 8 - 14, 2012



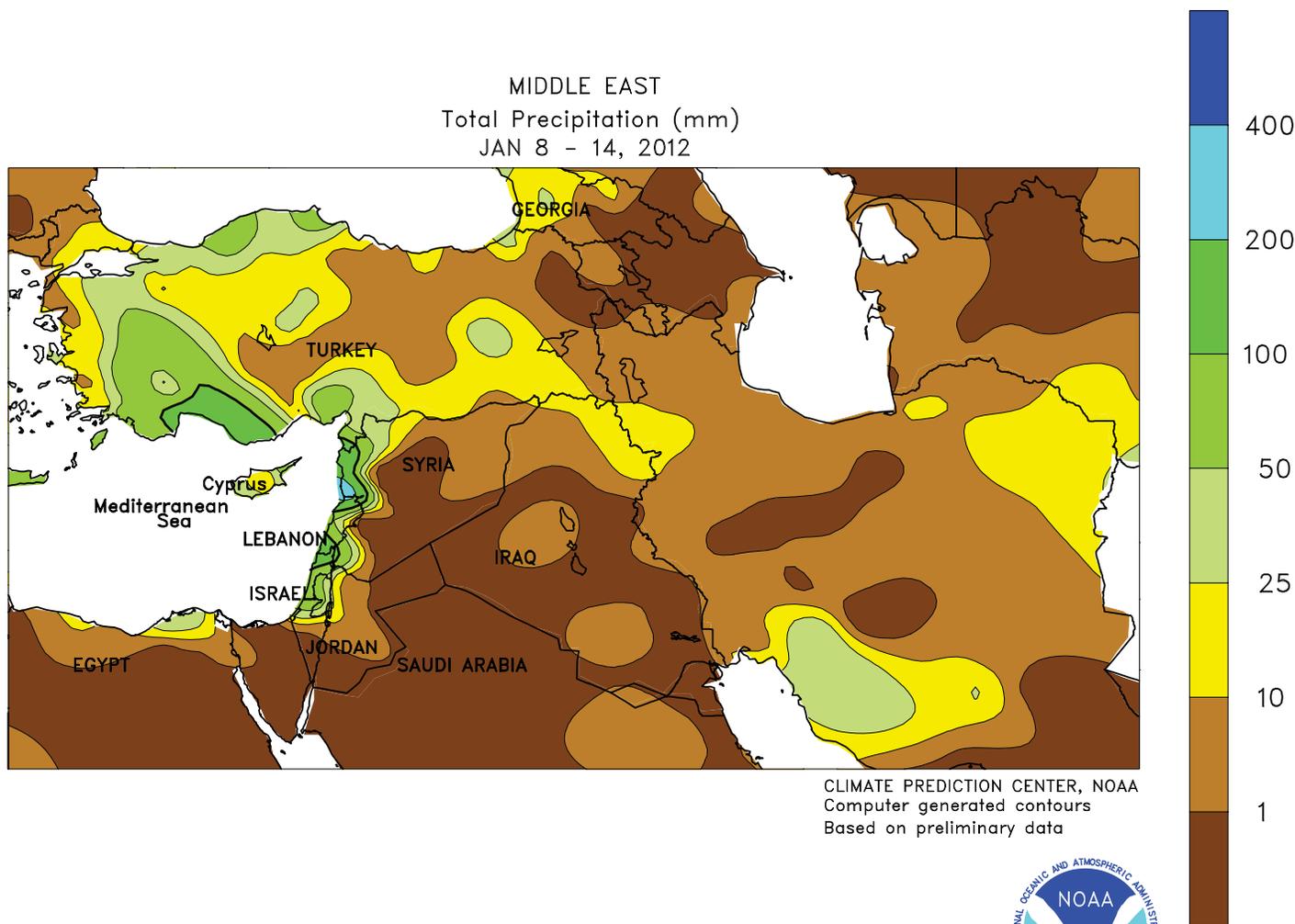
CLIMATE PREDICTION CENTER, NOAA  
 Computer generated contours  
 Based on preliminary data



**WESTERN FSU**

Favorable overwintering conditions continued for dormant winter grains and oilseeds. Additional rain and snow (10-60 mm, liquid equivalent) boosted soil moisture reserves from Belarus and eastern Ukraine into western and northern Russia. Temperatures averaged 4 to 8°C above normal, minimizing the

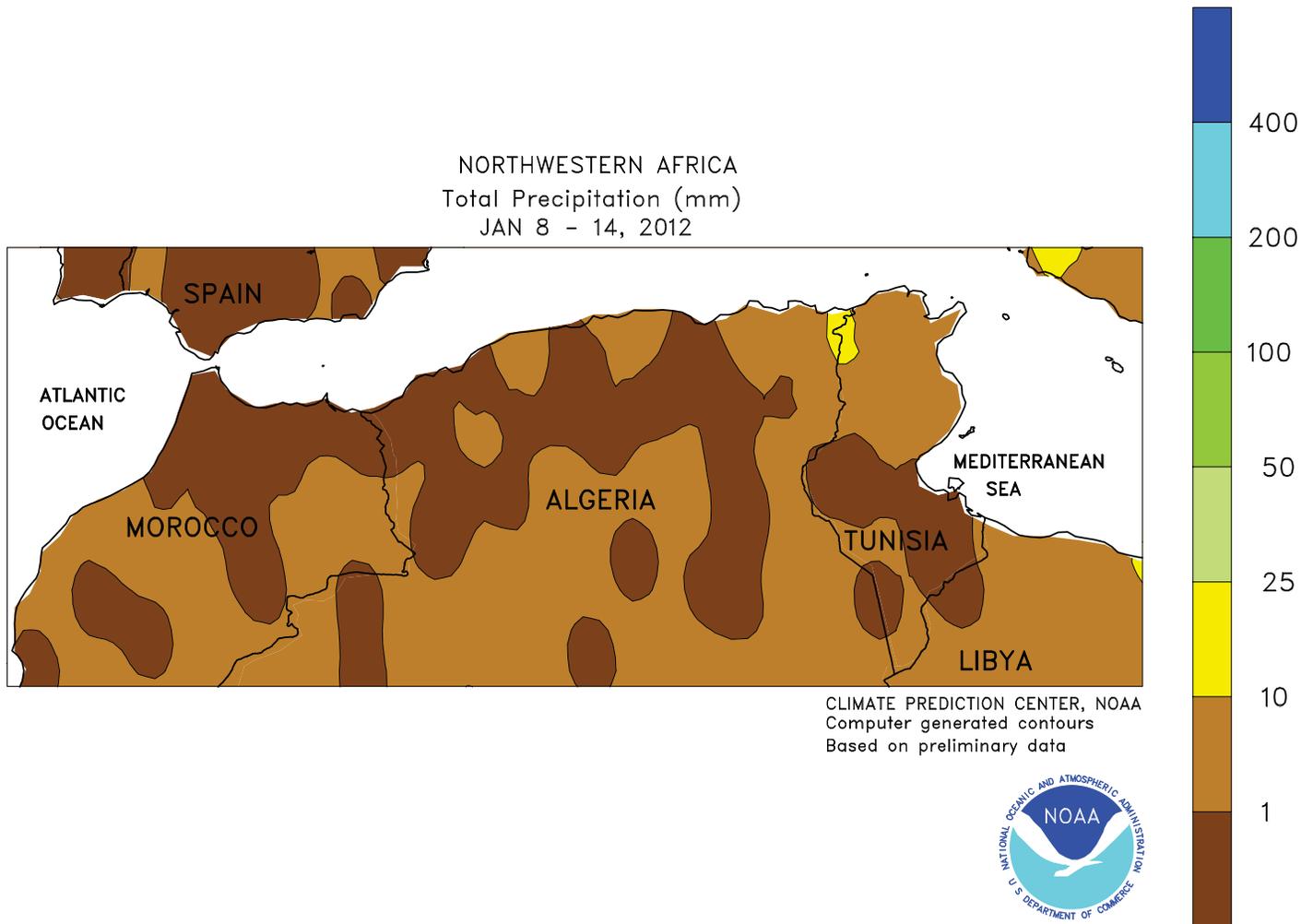
risk of winterkill but keeping western growing areas devoid of a protective snow cover. A shallow to moderate snowpack (5-30 cm) insulated winter crops in Russia, while the arrival of colder air at week's end brought some light but much-needed snow to Belarus and eastern portions of Ukraine.



**MIDDLE EAST**

Rain and snow maintained favorable overwintering conditions for wheat and barley over much of the region. For the second consecutive week, a strong, slow-moving Mediterranean storm produced moderate to heavy rain and snow (10-100 mm liquid equivalent, locally more) from western Turkey and the Mediterranean coast into northern Iraq, maintaining excellent soil moisture for dormant (north) to vegetative (south) winter

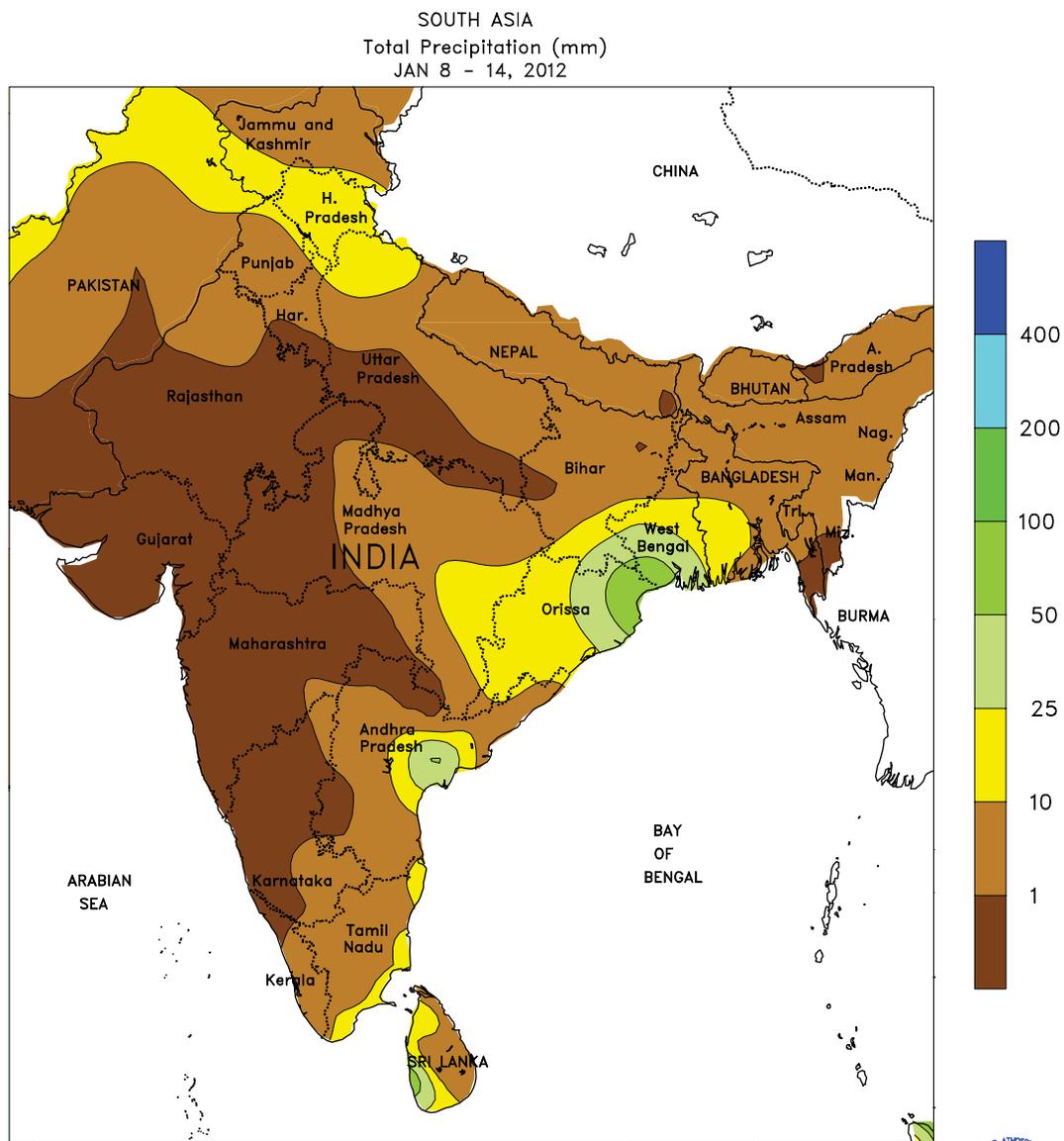
crops. Rain and high-elevation snow (2-25 mm liquid equivalent) were also reported across northern Iran, favoring winter wheat and barley. Unseasonably heavy rain (25-45 mm) fell in southern Iraq, boosting irrigation reserves but causing lowland flooding. Temperatures continued to average up to 7°C above normal, although colder weather settled into the region by week's end.



**NORTHWESTERN AFRICA**

Increasingly dry conditions were noted over much of the region. Weakening onshore flow led to some additional light showers (2-10 mm) over eastern Algeria and northern Tunisia, maintaining favorable soil moisture for vegetative winter wheat and barley. Meanwhile, sunny skies encompassed Morocco as well as western and

central portions of Algeria, reducing soil moisture for crop growth. Soil moisture shortages were most pronounced in Morocco, although showers were arriving by week's end. The western dryness also led to increasingly warm weather (2-3°C above normal), but no stressful heat was reported.



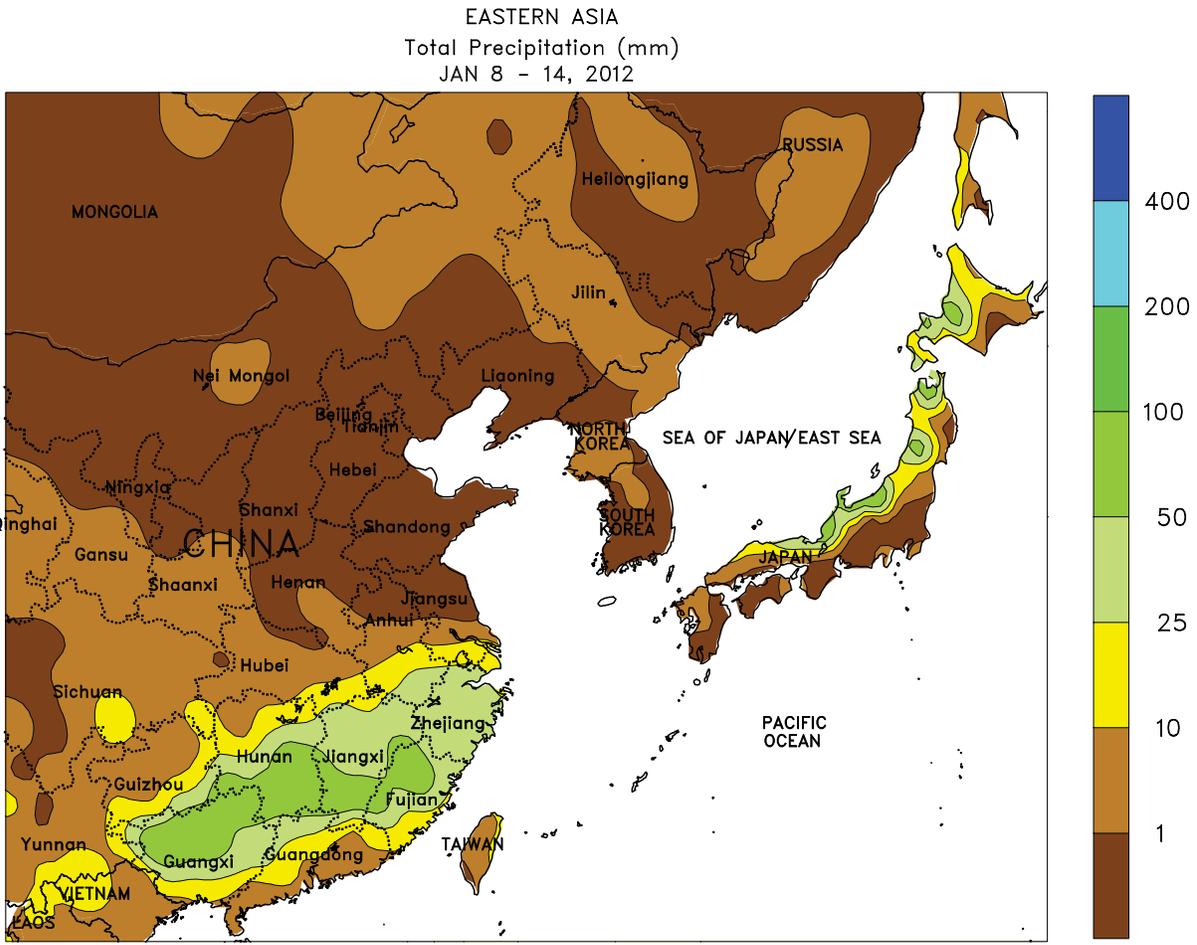
CLIMATE PREDICTION CENTER, NOAA  
Computer generated contours  
Based on preliminary data



**SOUTH ASIA**

The showers of the last 2 weeks continued to push eastward, increasing moisture supplies for rabi rice in Orissa and West Bengal, while allowing seasonably drier weather to return to central India. The return of warm, dry conditions across

southern India accelerated cotton harvesting. In northern India, weekly average temperatures below 15°C continued to cause some developmental delays to reproductive winter wheat, but the cool weather was considered overall favorable.



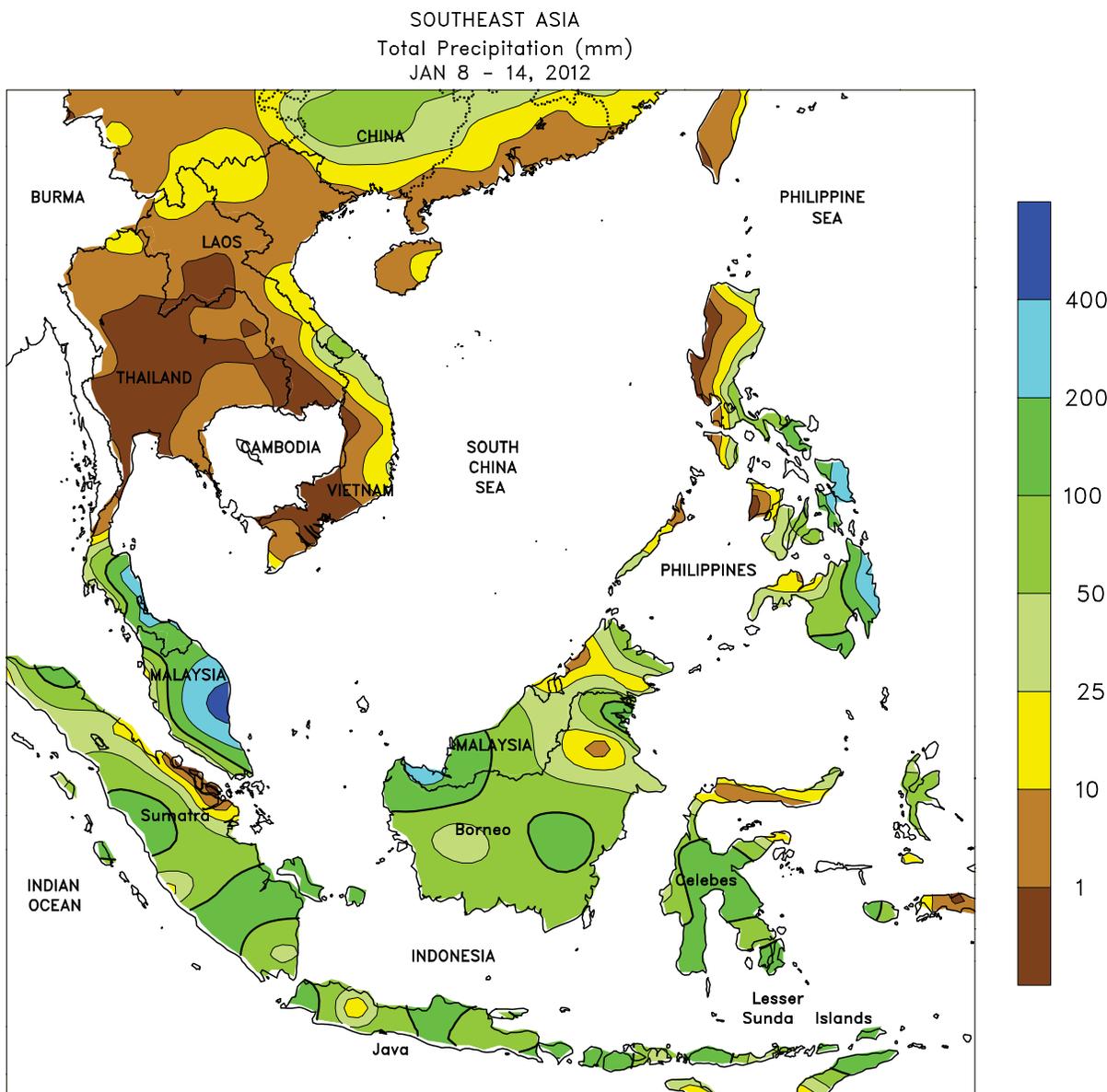
CLIMATE PREDICTION CENTER, NOAA  
Computer generated contours  
Based on preliminary data



**EASTERN ASIA**

Cold, dry weather continued across winter wheat areas of the North China Plain. Weekly temperatures averaged near normal, with minimum temperatures between -10°C and -5°C. Despite several weeks with little if any rainfall or snow, moisture deficits are only 2 mm for the winter thus far. Wheat was at maximum cold hardiness (tolerant to about -20°C) and little affected by either cold or dry conditions. Slightly

warmer, wetter weather prevailed in the Yangtze Valley, where 1 to 10 mm of rain added to moisture reserves for dormant winter rapeseed. Weekly temperatures were slightly above normal, with minimum temperatures above freezing favoring overwintering rapeseed. Meanwhile, showers continued in southern China, where 25 to 80 mm of rainfall boosted soil moisture for sugarcane and crops planted in the spring.



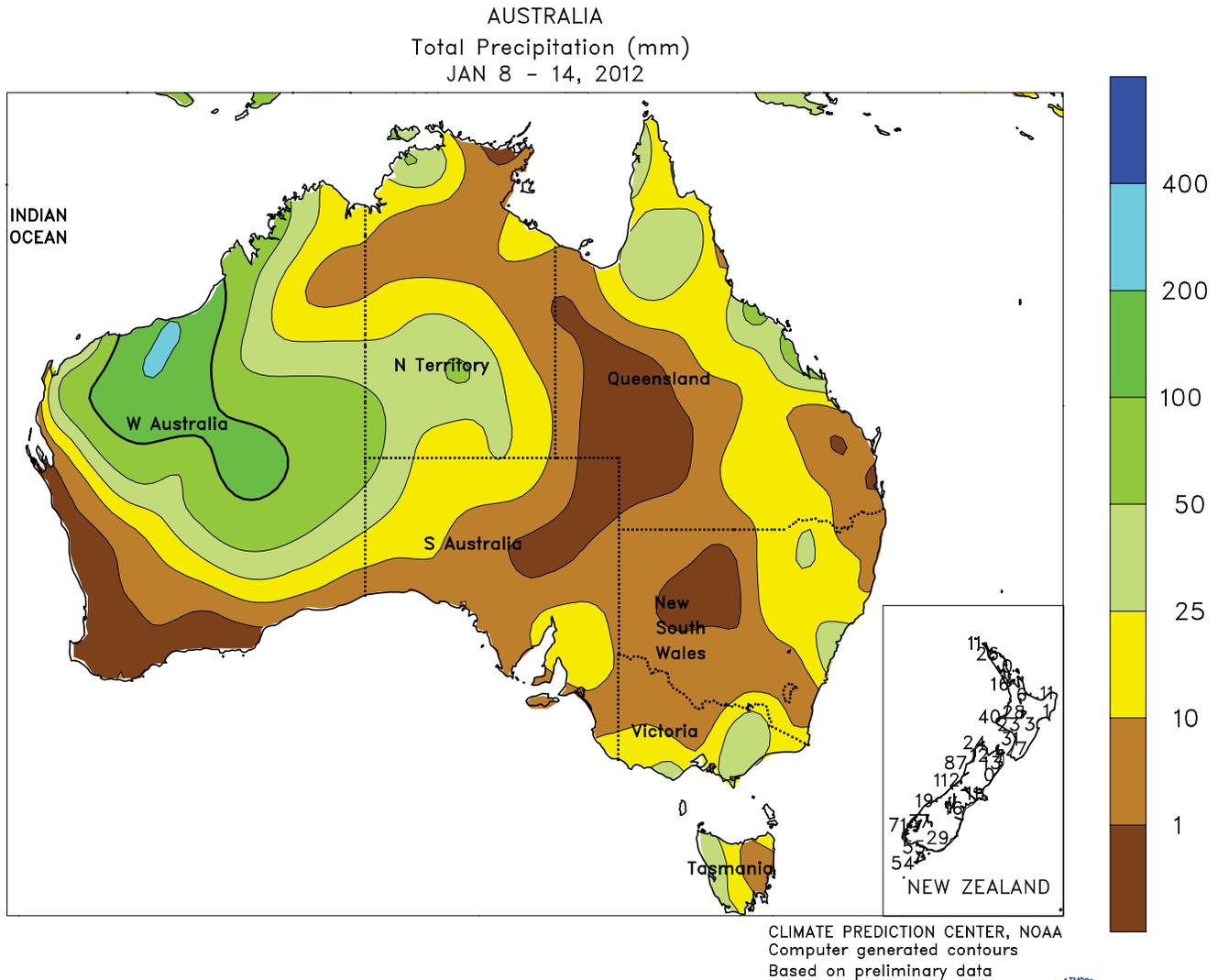
CLIMATE PREDICTION CENTER, NOAA  
Computer generated contours  
Based on preliminary data



**SOUTHEAST ASIA**

Seasonal rainfall (25-100 mm) continued across Java, Indonesia, maintaining favorable moisture conditions for reproductive rice. Rainfall for the growing season in Java has trended near to above normal, ensuring good yield prospects. Elsewhere in Indonesia, 50 to 100 mm of rain provided ample moisture for oil palm while causing minimal harvest delays. In Malaysia, however, drenching showers (over 200 mm, locally up to 400 mm) caused extensive delays in oil palm harvesting on the peninsula and

into southern Sarawak. In the Philippines, periodic rainfall (10-50 mm) maintained abundant to excessive moisture supplies for rice and corn across the northeast and into Mindanao. Meanwhile, localized flooding continued in eastern upland areas, where rainfall totals approached 400 mm. In northern Vietnam, cooler-than-weather continued as weekly average temperatures struggled to reach 15°C. The cool conditions have been unfavorable for spring rice development in the Red River Delta.

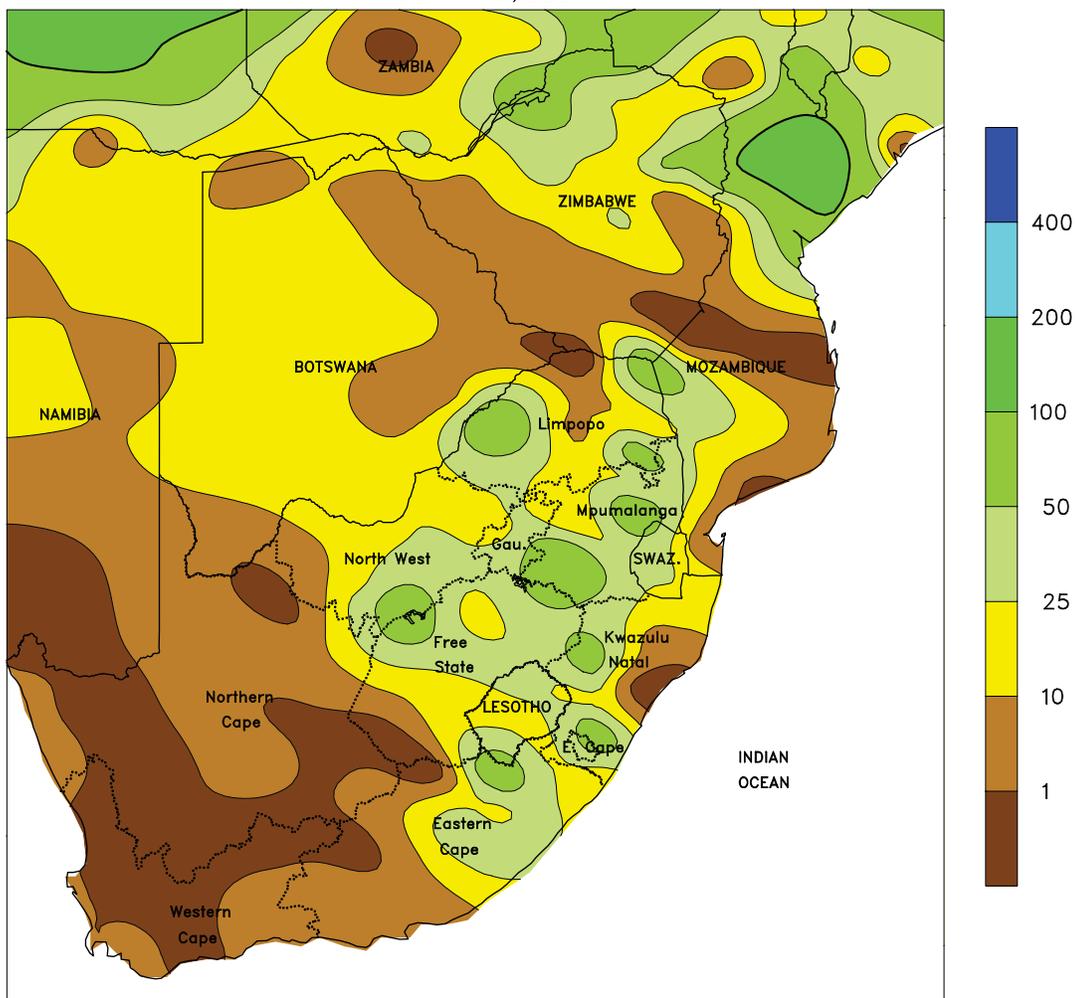


**AUSTRALIA**

Dry weather favored final winter crop harvesting in Western Australia. In southeastern Australia, rain (2-10 mm or more) was confined primarily to coastal areas. Farther inland, mostly dry weather aided winter crop harvesting, which is approaching completion. In northern New South Wales and Queensland, widespread showers

(5-30 mm or more) maintained abundant moisture supplies for dryland and irrigated summer crops. Temperatures averaged near to below normal in Australia's wheat belt. The coolest weather was located over southeastern growing areas, where temperatures averaged 2 to 5°C below normal.

SOUTH AFRICA  
Total Precipitation (mm)  
JAN 8 - 14, 2012



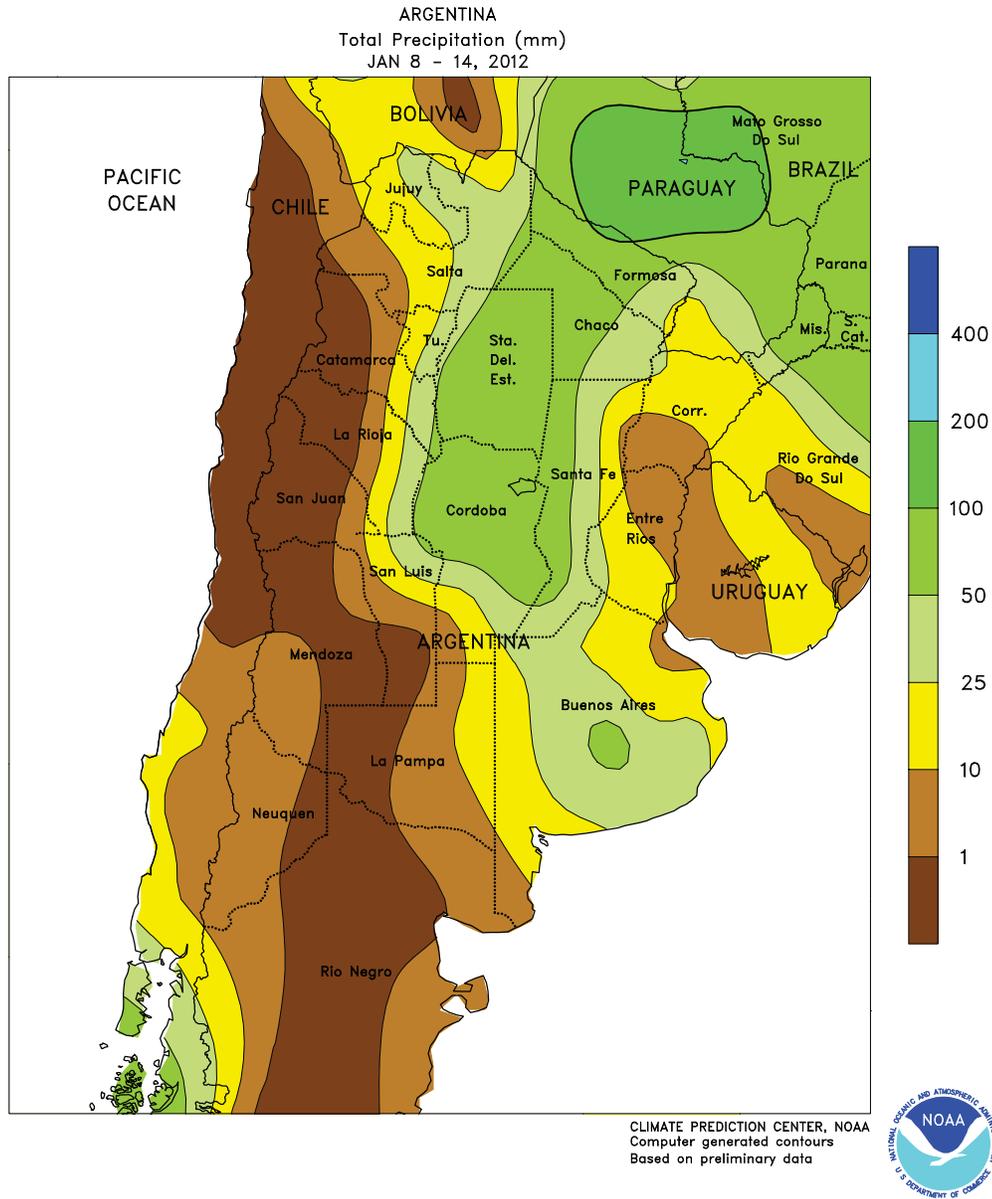
CLIMATE PREDICTION CENTER, NOAA  
Computer generated contours  
Based on preliminary data



**SOUTH AFRICA**

Frequent, locally heavy rain increased moisture levels for corn and other summer row crops in major farming areas of the central interior. Rainfall totaled more than 25 mm over a large section of the corn belt, with isolated totals in excess of 50 mm. The rain was particularly timely in eastern production areas (in and around southwestern Mpumalanga), where early planted corn is in or nearing reproduction. However, weekly temperatures averaging 1 to 2°C above normal, with highs reaching the lower and middle 30s (degrees C), maintained

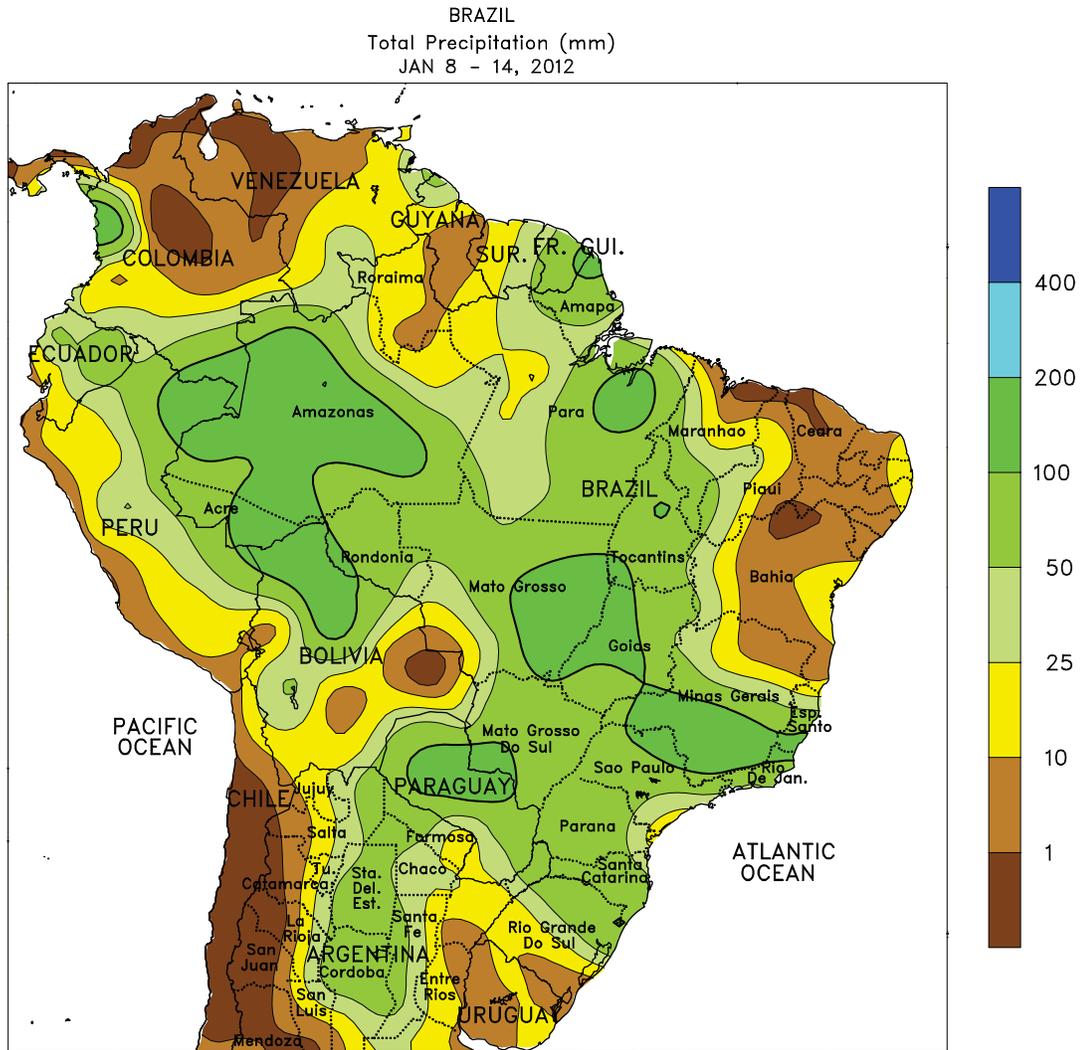
unseasonably high rates of evapotranspiration. Elsewhere, unfavorable warmth and dryness continued in rain-fed sugarcane areas of southern KwaZulu-Natal, where virtually no rain fell and temperatures exceeded 35°C in some locations. Scattered showers (10-25 mm or more) returned to eastern sections of Eastern Cape but dry, unseasonably warm weather dominated the remainder of the Cape Provinces, sustaining unseasonably high demands for irrigation of rapidly developing row crops and fruits.



**ARGENTINA**

Locally heavy rain brought some much-needed relief from heat and dryness to previously stressed summer grains, oilseeds, and cotton. However, the rain came after several days of unusually hot weather (highs in excess of 40°C) that compounded damage on reproductive to filling corn and other crops vulnerable to severe heat stress. Beginning on January 10, a strong cold front pushed through the region, generating moderate to heavy showers (10-50 mm or more) over a broad area stretching from eastern La Pampa and Buenos Aires northward through Paraguay. Somewhat lighter amounts (10-25 mm) were recorded over northeastern Buenos Aires, Entre

Rios, and Corrientes, but all locations recorded an appreciable drop in daytime highs, with maximum temperatures ranging in the upper 20s and lower 30s (degrees C) for the remainder of the week. While the rain helped to stabilize those crops, amounts were insufficient to reverse the effects of the months-long drought, and more rain will be needed as later-planted corn reaches reproduction and for soybeans and other crops capable of recovery. According to Argentina's Ministry of Agriculture, corn and soybeans were 89 and 91 percent planted, respectively, as of January 12. Winter wheat was 97 percent complete compared with 93 percent last year.



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

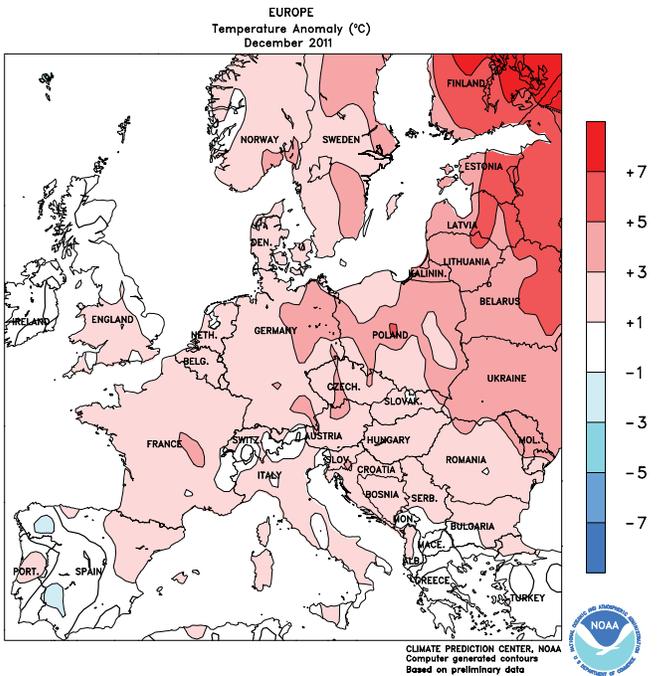
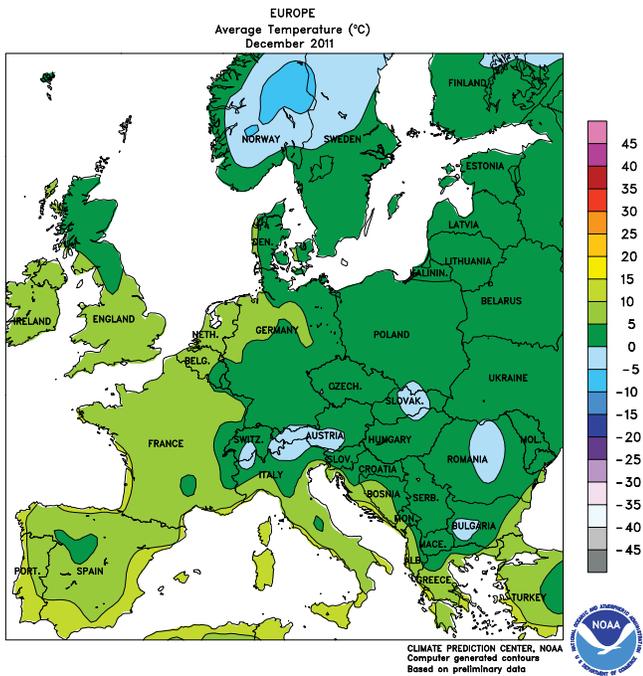
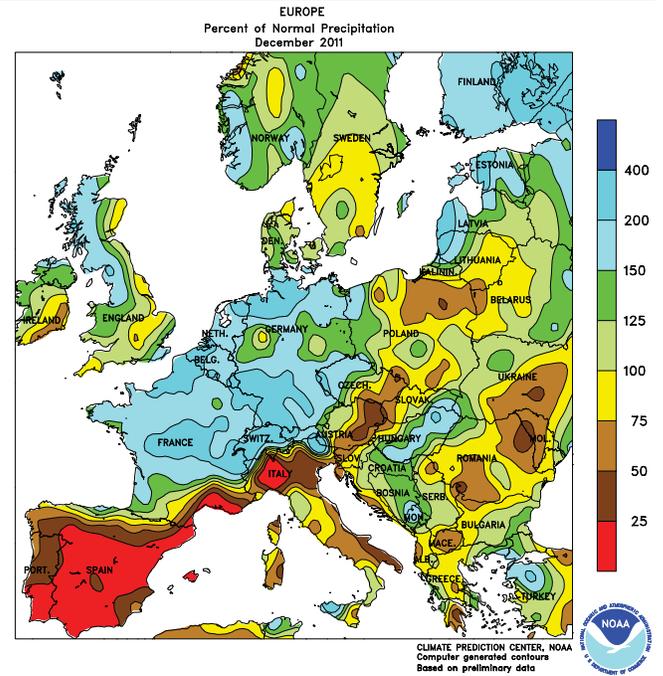
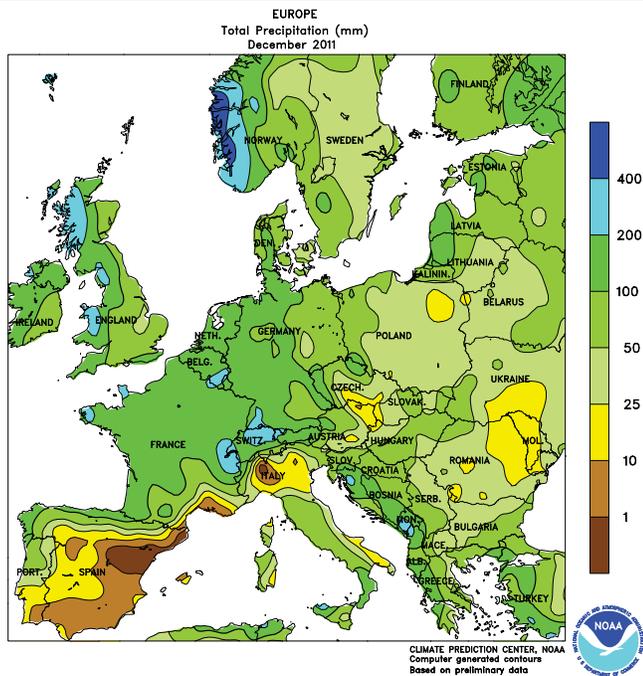


**BRAZIL**

Beneficial rain overspread much of the region, bringing some relief from dryness to southern soybeans and corn while maintaining overall favorable crop prospects in key central production areas. Most of the rain in the south (Rio Grande do Sul to Mato Grosso and Sao Paulo) came at week's end with the passage of a strong cold front; nearly all areas recorded 25 to 100 mm, though drier conditions prevailed in Rio Grande do Sul's southern agricultural areas. The change in air masses also resulted in a significant drop in temperatures, from the lower and middle

30s (degrees C) at the beginning of the week to the 20s during the rain. Farther north, moderate to heavy rain (50-100 mm or more) maintained overall favorable conditions for soybeans, cotton, and coffee in major production areas from Mato Grosso eastward to western Bahia and Minas Gerais. Weekly average temperatures in these areas were near to slightly below average, with daytime highs mostly in the upper 20s and lower 30s. In contrast, warmth and dryness continued along the northeastern coast, aiding sugarcane and cocoa harvesting.

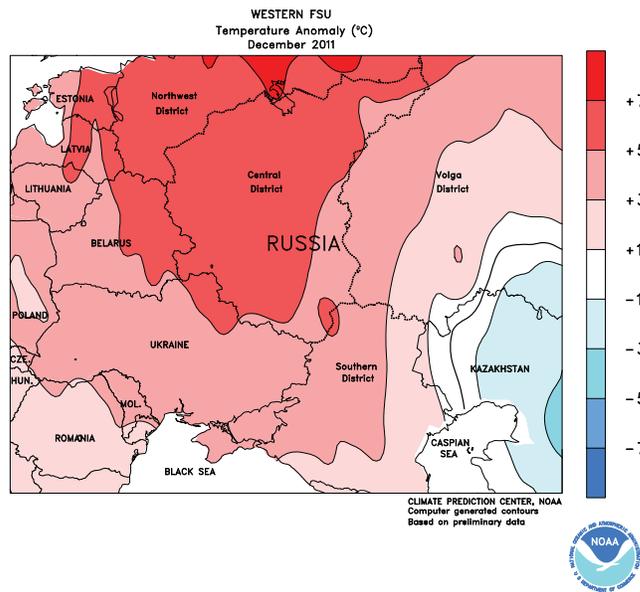
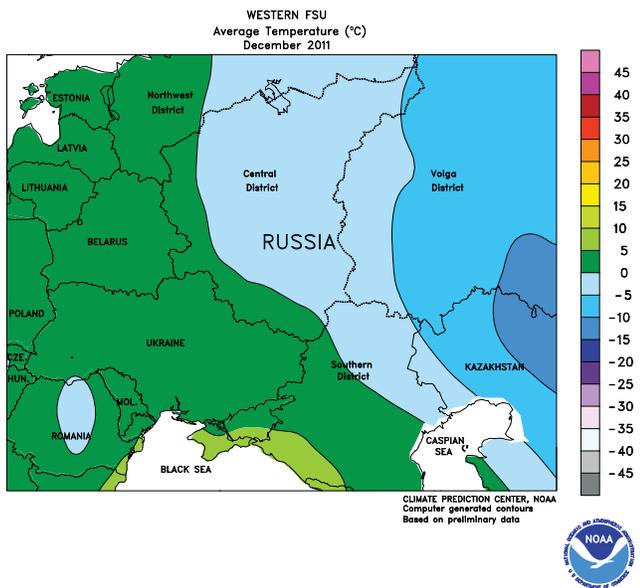
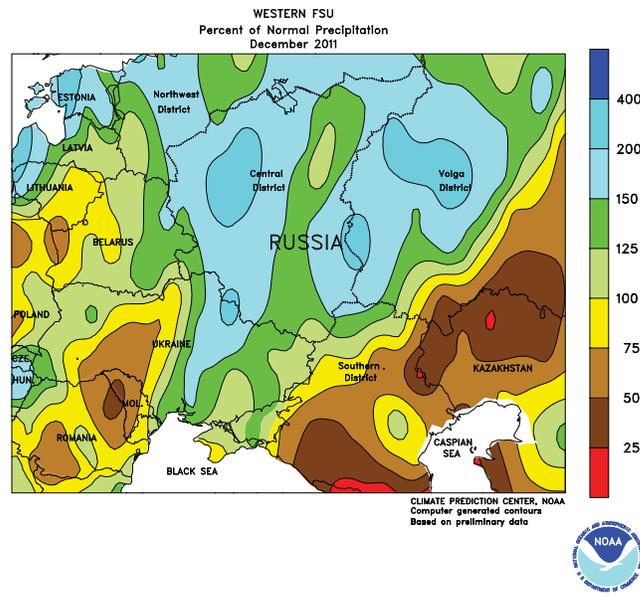
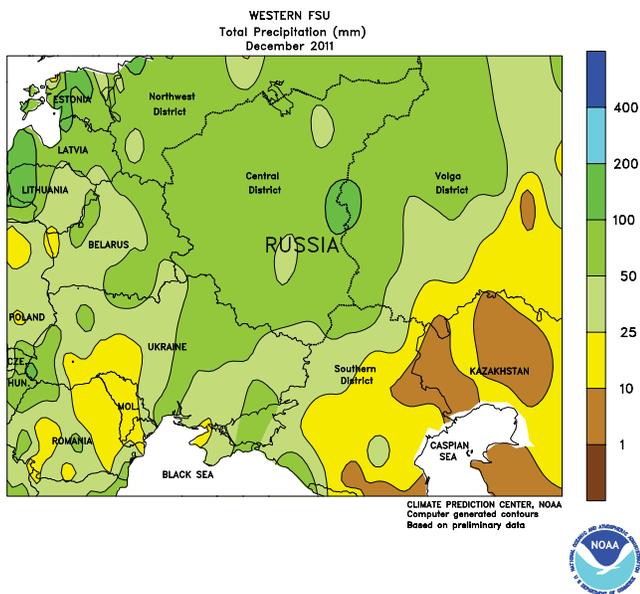
# December International Temperature and Precipitation Maps



## EUROPE

In December, unseasonably warm, wet weather maintained favorable soil moisture reserves for vegetative to dormant winter grains and oilseeds from England and France into western Poland and the northern Balkans. Precipitation totaled more than 200 percent of normal across portions of France, Germany, and Hungary. In contrast, unfavorably dry

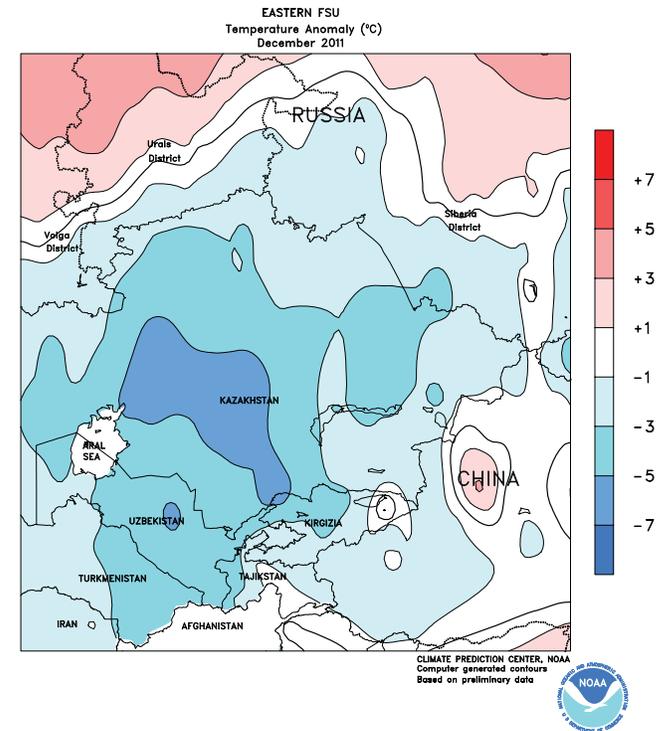
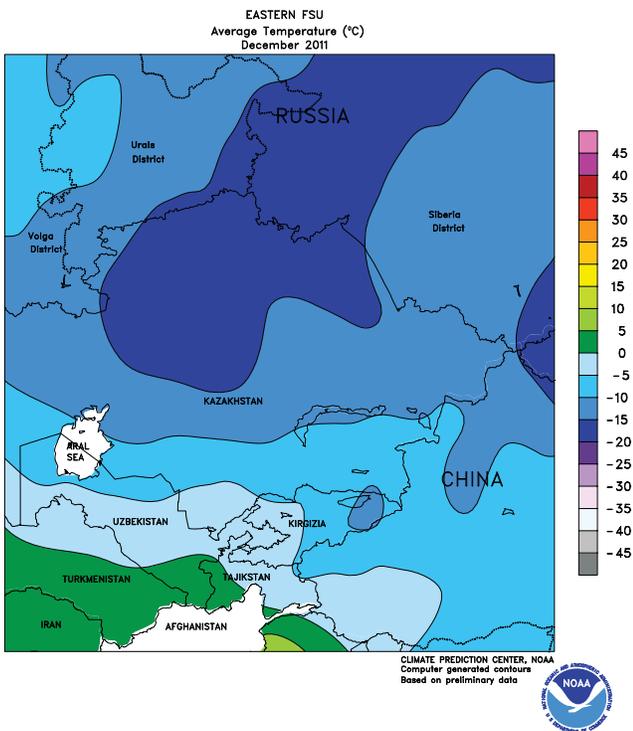
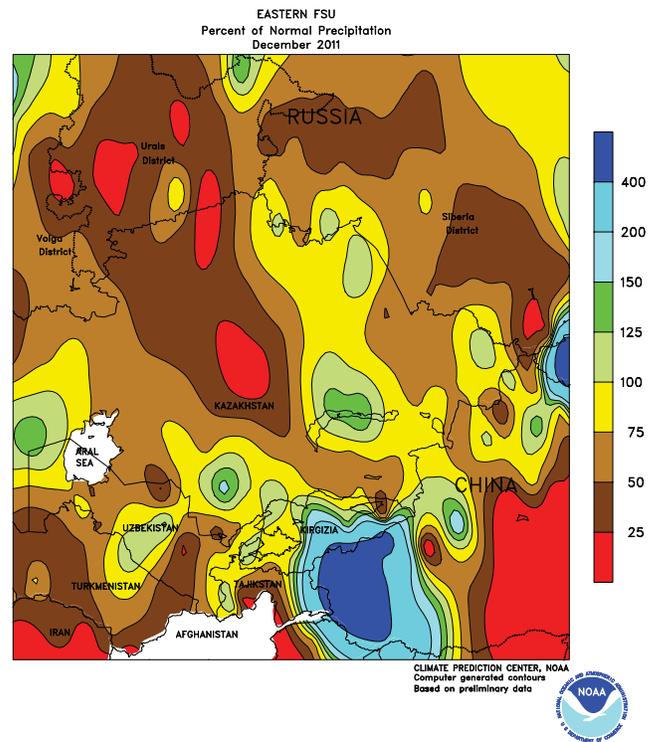
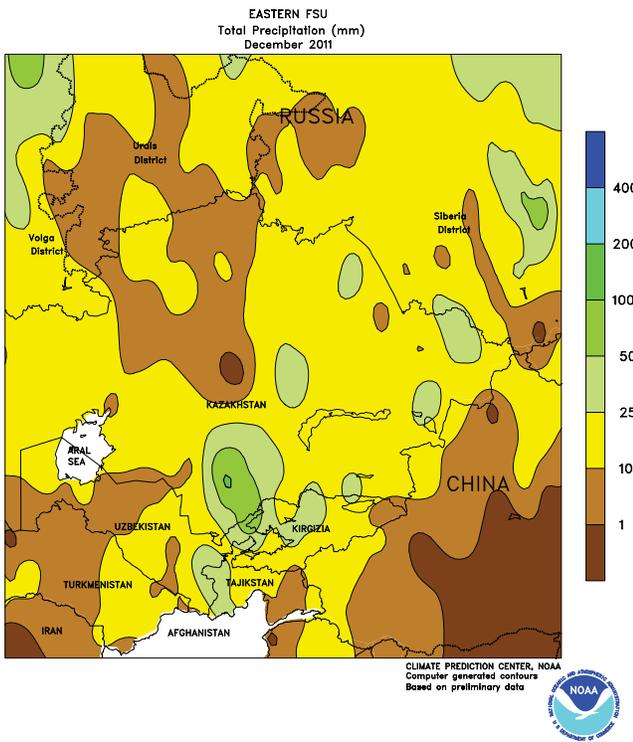
conditions settled over Spain, reducing soil moisture for wheat and barley establishment. Dry weather also prevailed in northern Italy, increasing irrigation demands. Temperatures averaged 2 to 4°C above normal, keeping most of the continent devoid of a protective snow cover and reducing winter crop cold hardness.



**WESTERN FSU**

A mild, wet December boosted soil moisture reserves from Belarus and central Ukraine into central and northern Russia. The rain (100-200 percent of normal) was especially welcomed in central and eastern Ukraine, where an exceptionally dry autumn left winter crops poorly established and reduced soil moisture to unfavorably low levels. Winter crops were

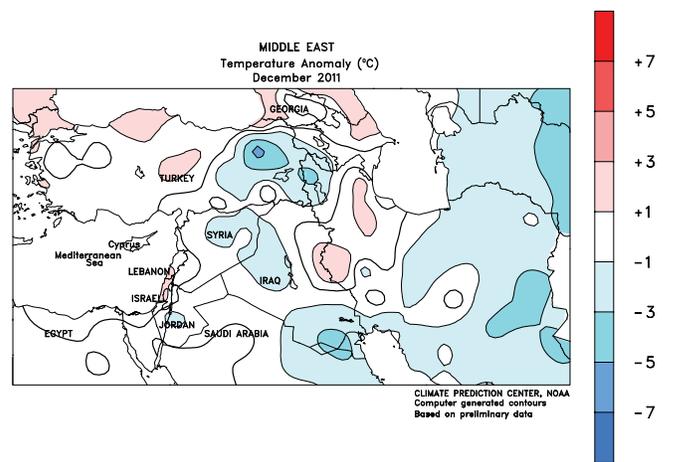
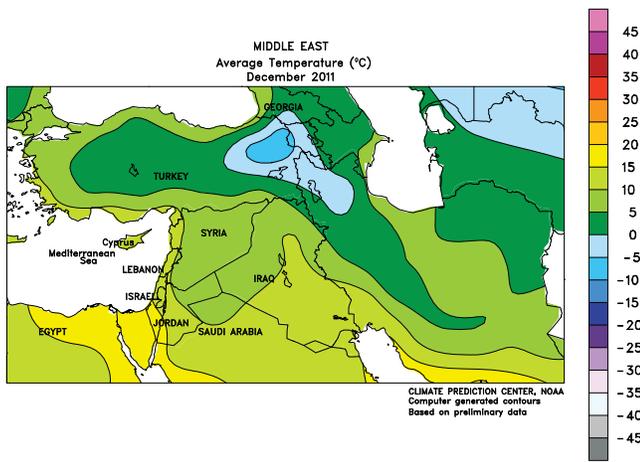
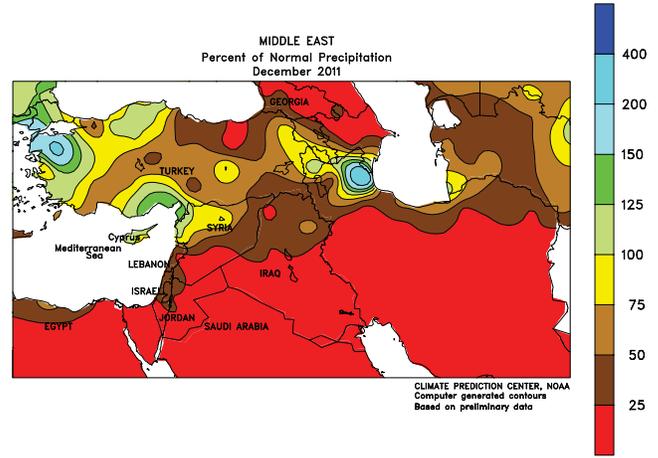
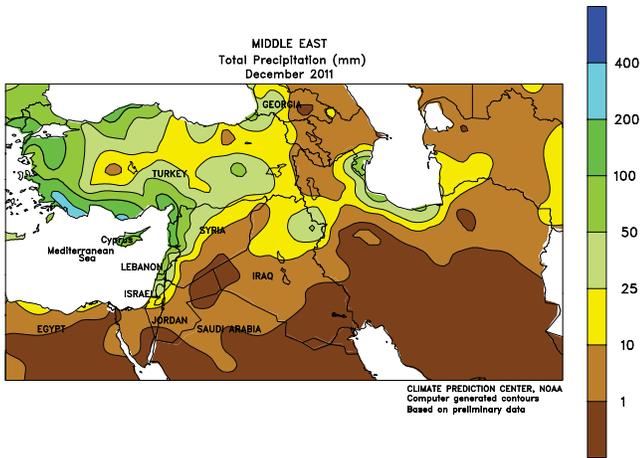
dormant, although grains and oilseeds likely lost cold hardiness in western and southern portions of the region. At month's end, Belarus and Ukraine were uncharacteristically devoid of a protective snow cover, while a shallow to moderate snowpack insulated winter grains in Russia against potential bitter cold.



**EASTERN FSU**

In December, seasonably cold, snowy weather prevailed over Kazakhstan and Russia. This region is not a primary winter crop area, although any planted winter grains were protected

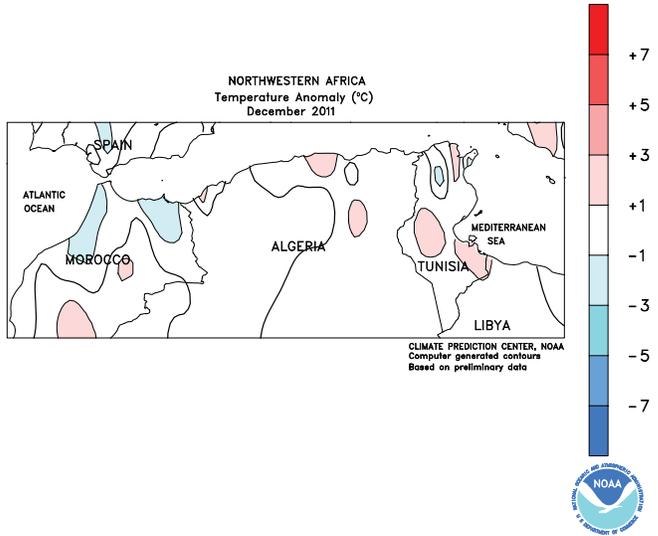
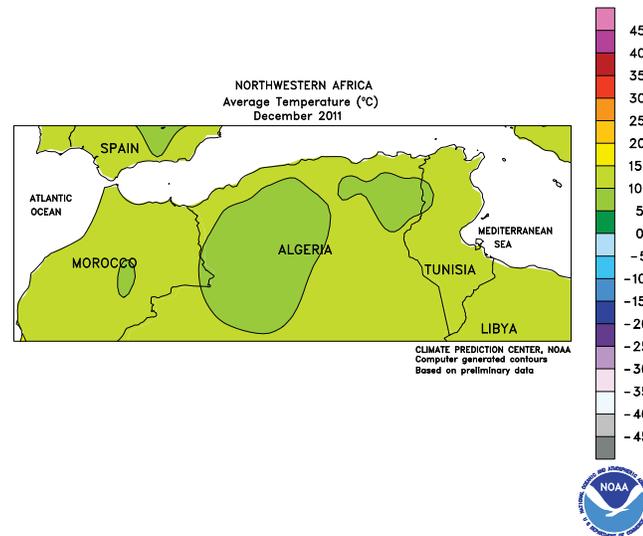
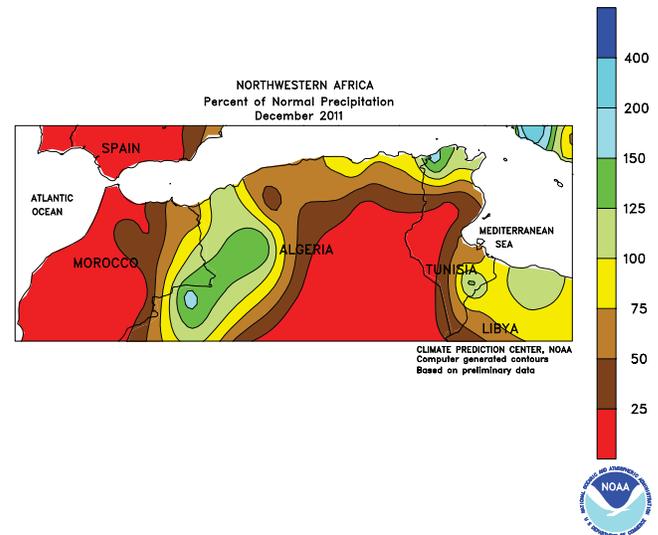
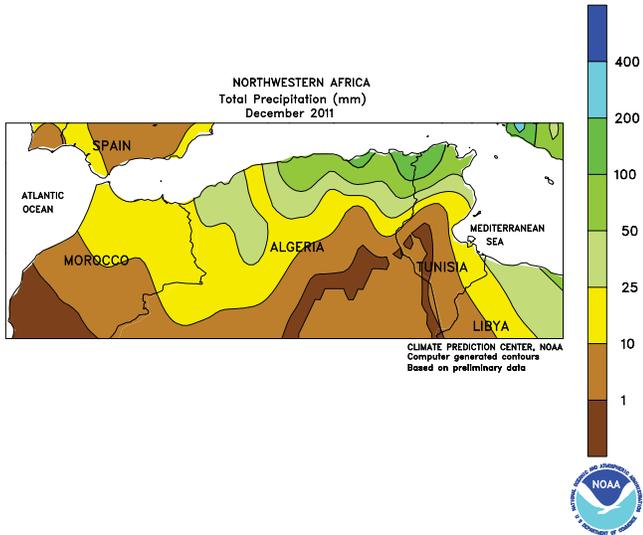
from the cold by a deep snowpack. Meanwhile, rain and mountain snow (10-100 mm liquid equivalent) boosted irrigation reserves and mountain snowpacks across the south.



**MIDDLE EAST**

In December, wetter-than-normal conditions boosted soil moisture for winter crop establishment in Turkey and Syria. Farther east, dry weather settled over Iraq and Iran after a favorably wet autumn, reducing soil moisture

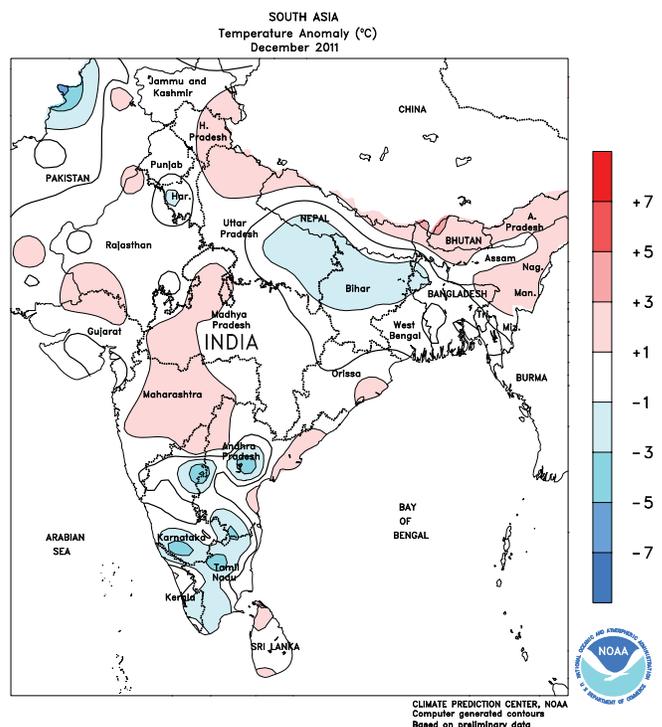
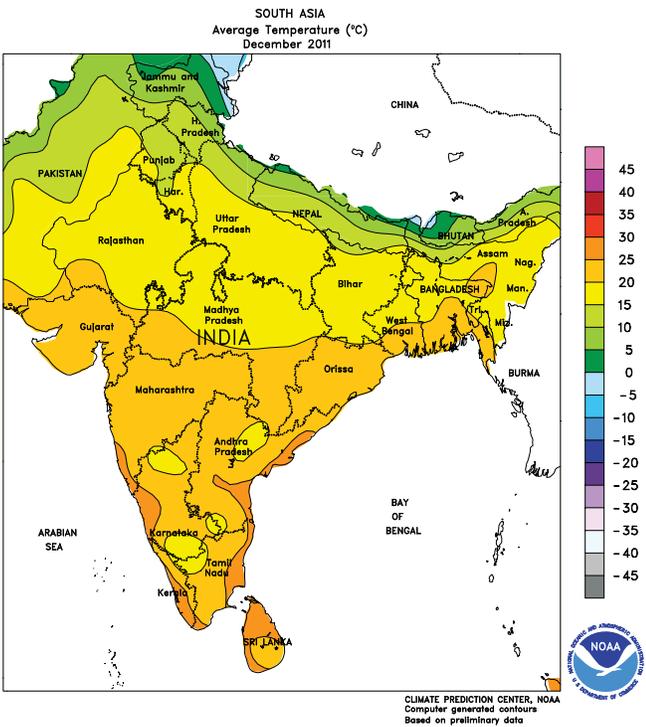
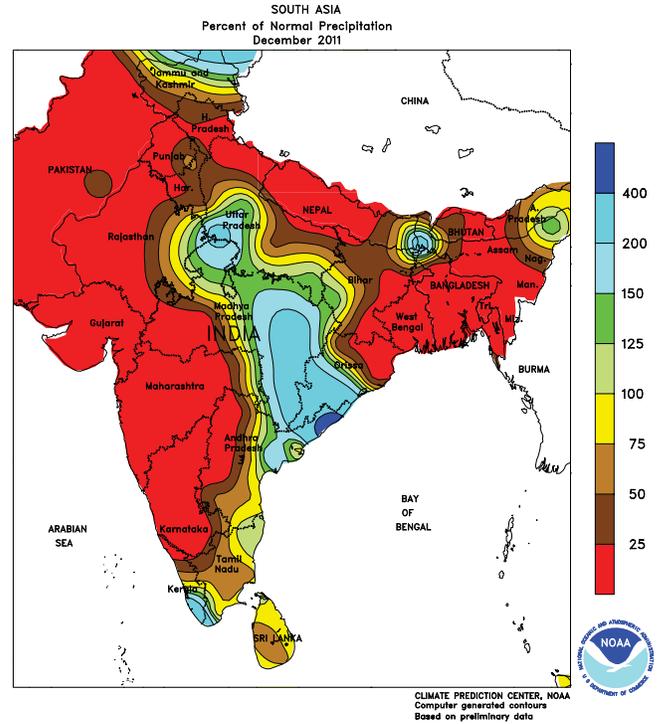
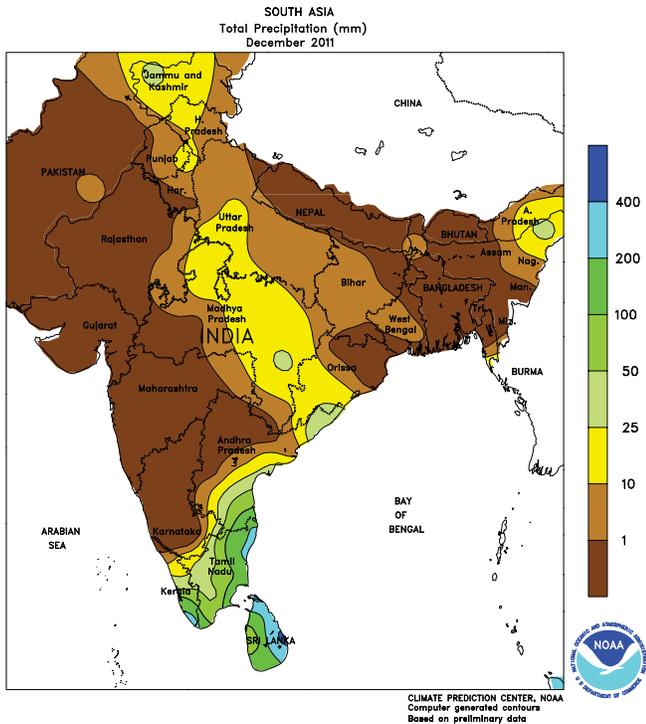
for wheat and barley. Most of the region remained devoid of a protective snow cover at month's end, although winter crop prospects were still overall favorable.



**NORTHWESTERN AFRICA**

After a favorably wet fall, drier conditions settled over western portions of the region, in December. Dry weather in Morocco reduced soil moisture for winter wheat establishment; precipitation tallied less than 25 percent of normal over many of Morocco's key crop areas.

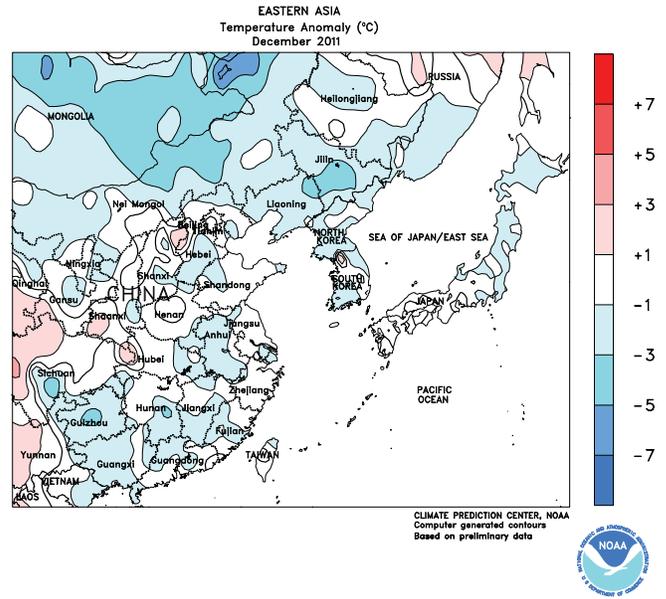
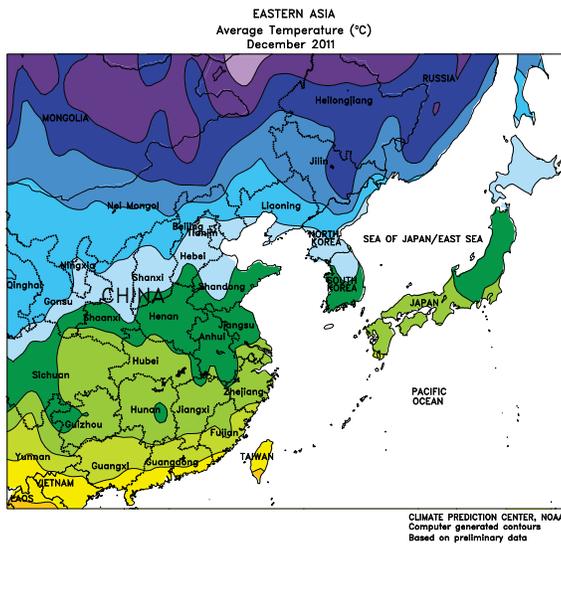
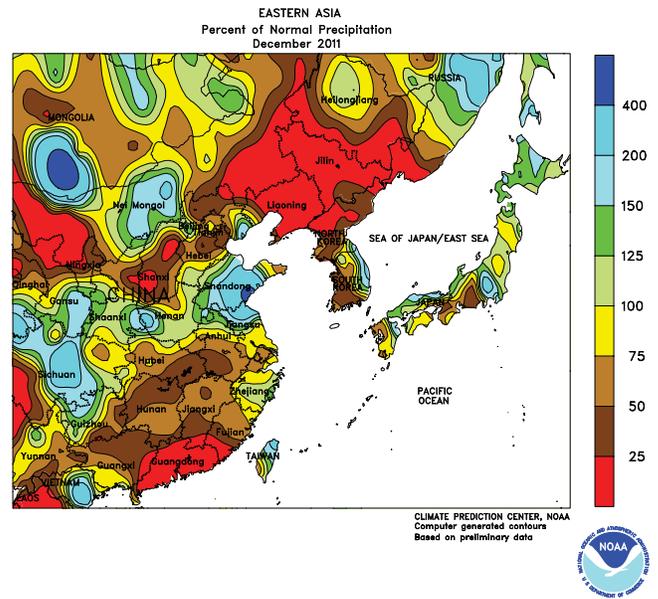
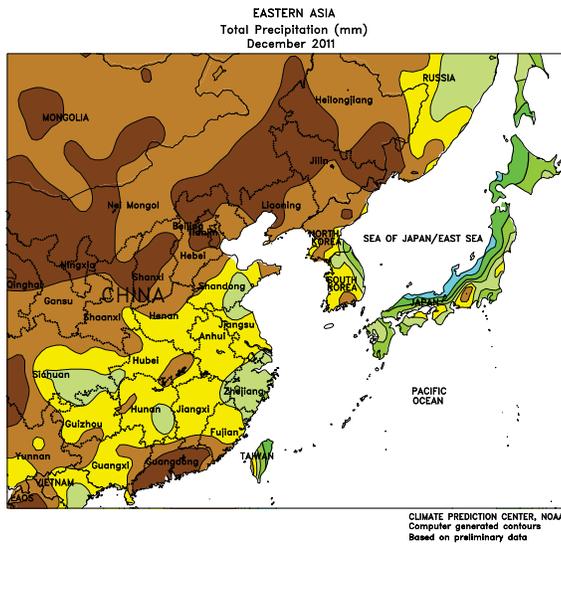
Showers were more consistent in Algeria, where crop prospects remained favorable. Pockets of heavy rain (locally more than 150 mm) in northern Tunisia provided abundant soil moisture but may have caused lowland flooding.



**SOUTH ASIA**

December weather benefited cotton harvesting across southern India, with near-normal temperatures and seasonable dryness. However, a late-season tropical cyclone brought additional moisture to many rabi rice

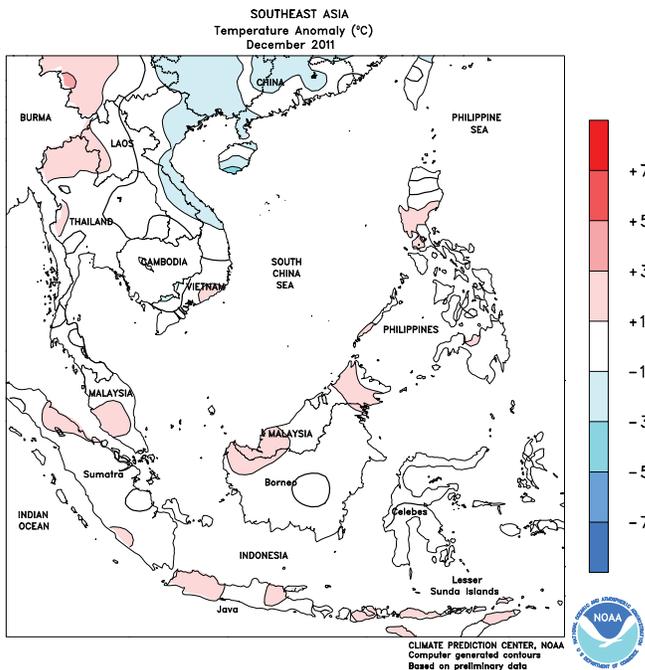
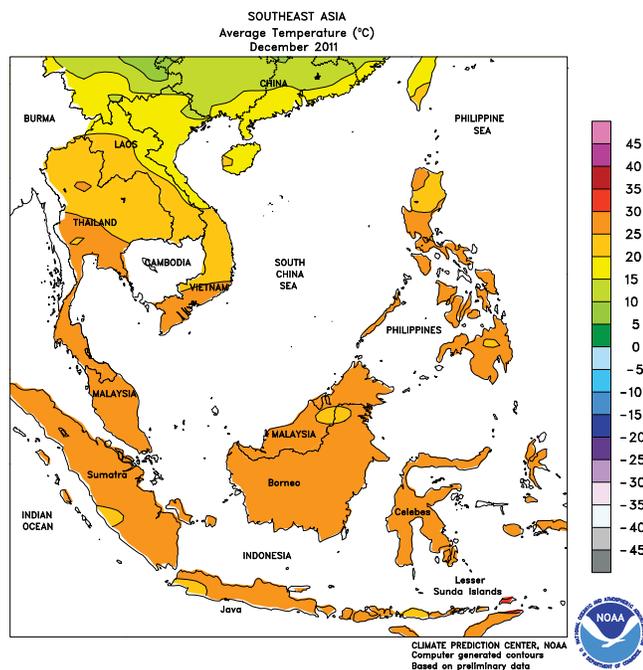
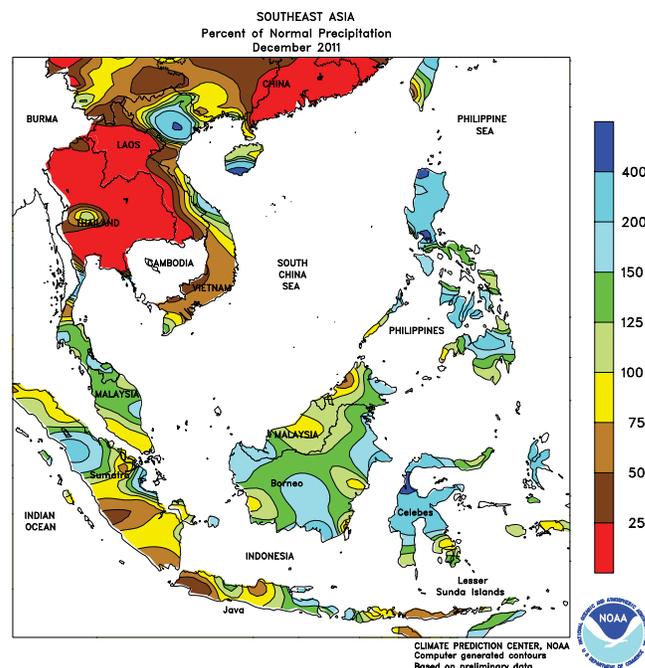
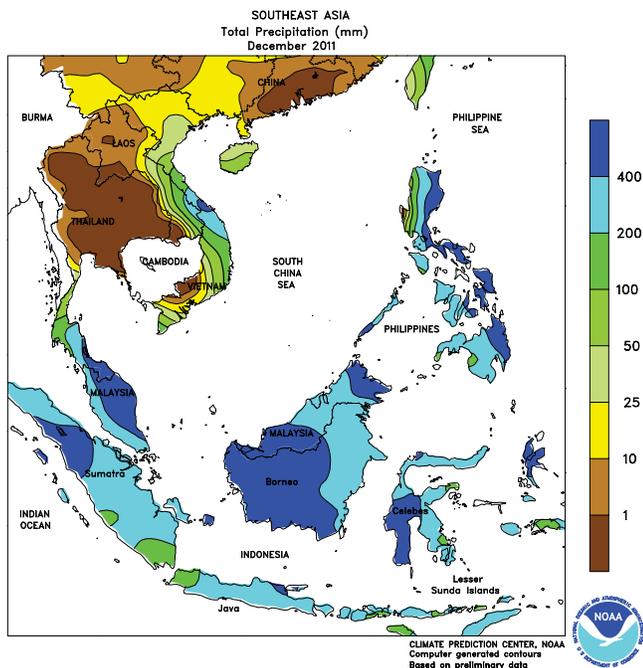
areas in eastern India. In northern India and Pakistan, generally cool weather favored vegetative winter wheat and rapeseed, although it may have also slowed development.



**EASTERN ASIA**

Mild conditions prevailed throughout December, with intrusions of colder air occurring late in the month. Winter wheat and rapeseed were well hardened and able to withstand the colder weather. Also, despite little — if

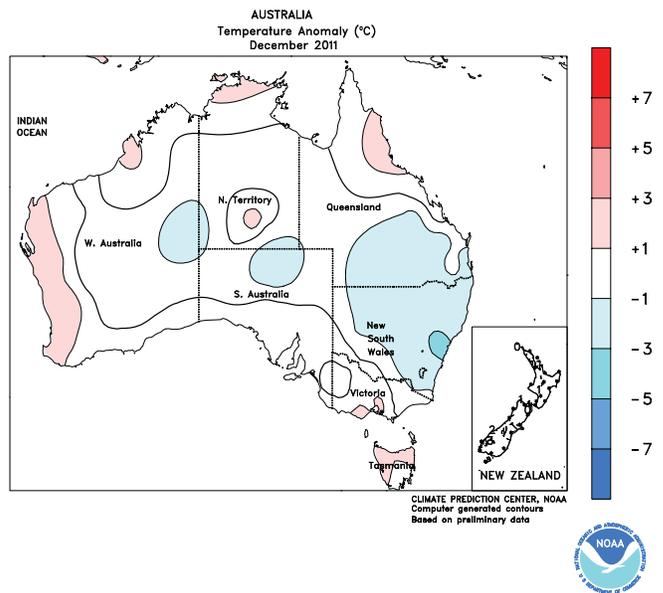
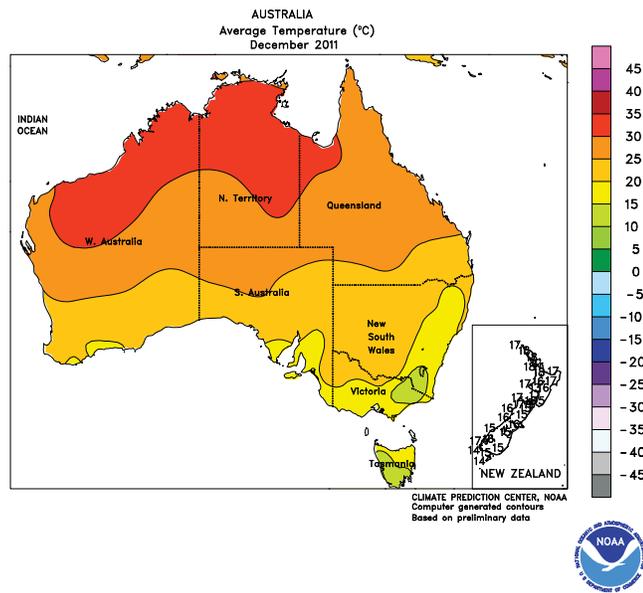
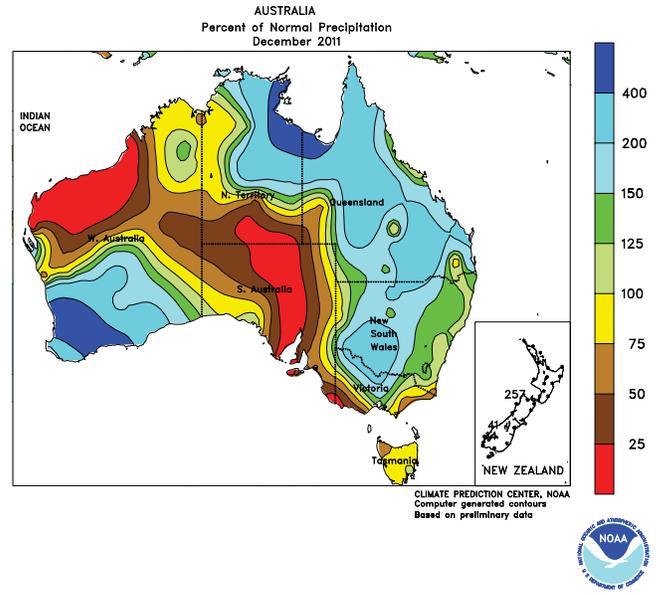
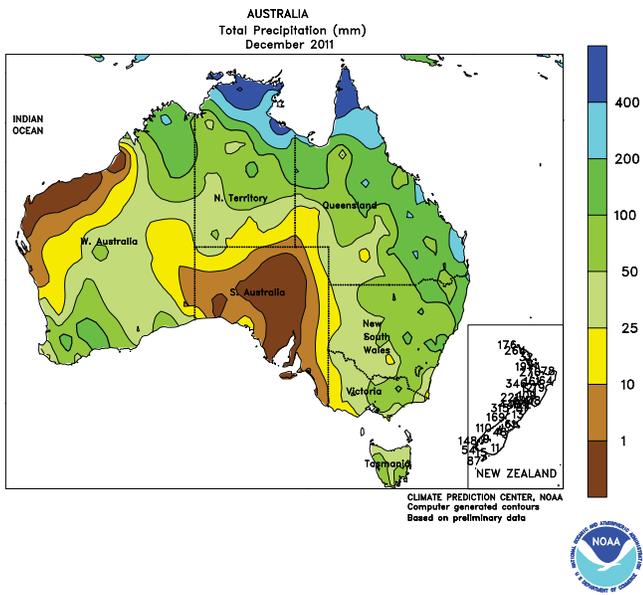
any — rainfall across the North China Plain and the Yangtze Valley, moisture reserves remained adequate, as water utilization for winter crops was at a seasonally low level.



**SOUTHEAST ASIA**

During December, well-above-normal rainfall continued across the Philippines. A late-season tropical cyclone in Mindanao raised concerns about corn prospects. In Vietnam, unfavorably cool weather in the north slowed

rice development, while above-normal rainfall maintained good moisture supplies for rice in the Mekong Delta. Meanwhile, moisture conditions remained favorable for rice in Indonesia.

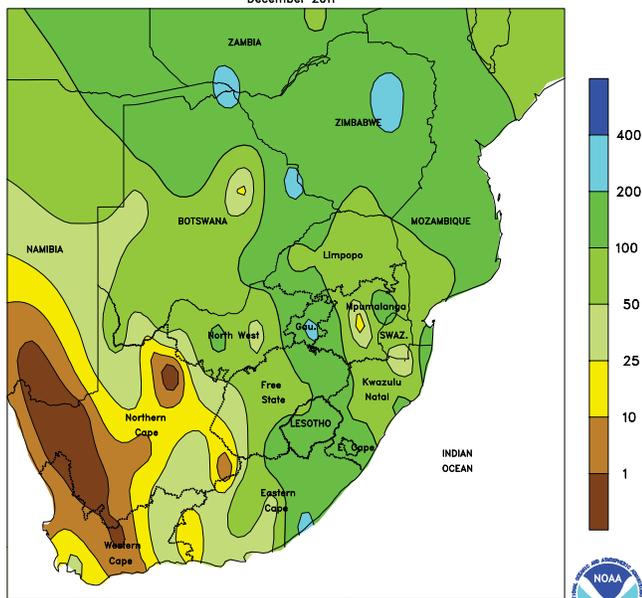


**AUSTRALIA**

In December, frequent showers in eastern Australia hampered late winter wheat harvesting but maintained abundant moisture supplies for cotton and sorghum development. In southern and western Australia, two

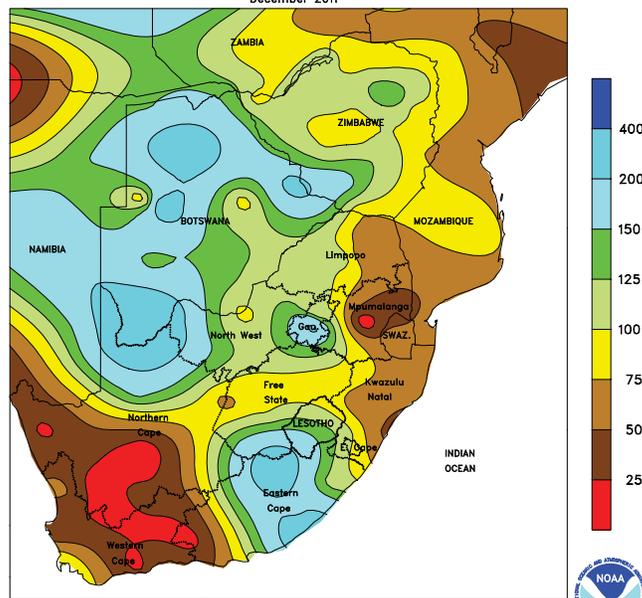
relatively brief periods of heavy rain delayed fieldwork, but dry weather during the remainder of the month allowed wheat, barley, and canola harvesting to near completion.

SOUTH AFRICA  
Total Precipitation (mm)  
December 2011



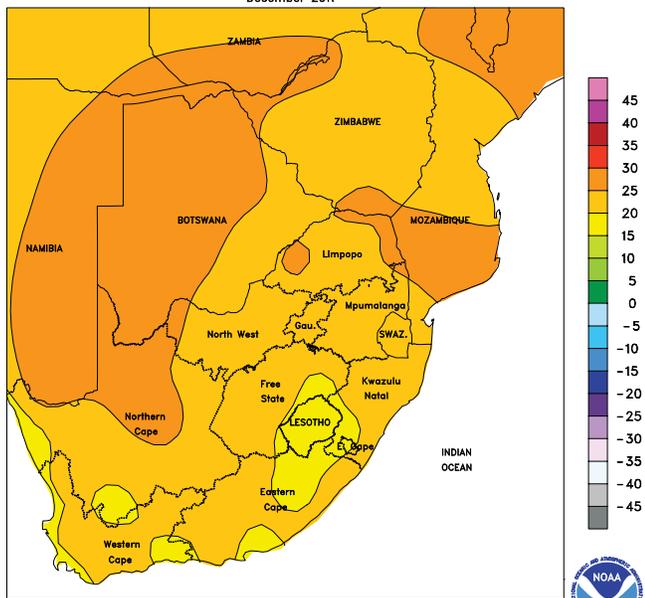
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Computer generated contours  
Based on preliminary data

SOUTH AFRICA  
Percent of Normal Precipitation  
December 2011



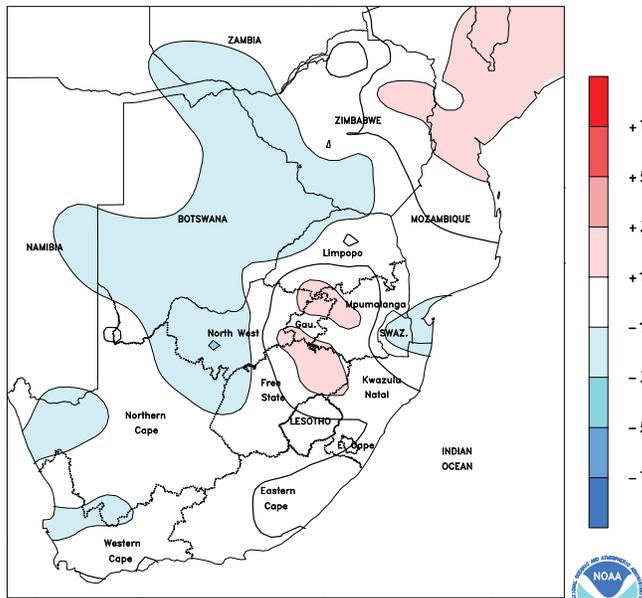
CLIMATE PREDICTION CENTER, NOAA  
Computer generated contours  
Based on preliminary data

SOUTH AFRICA  
Average Temperature (°C)  
December 2011



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

SOUTH AFRICA  
Temperature Anomaly (°C)  
December 2011

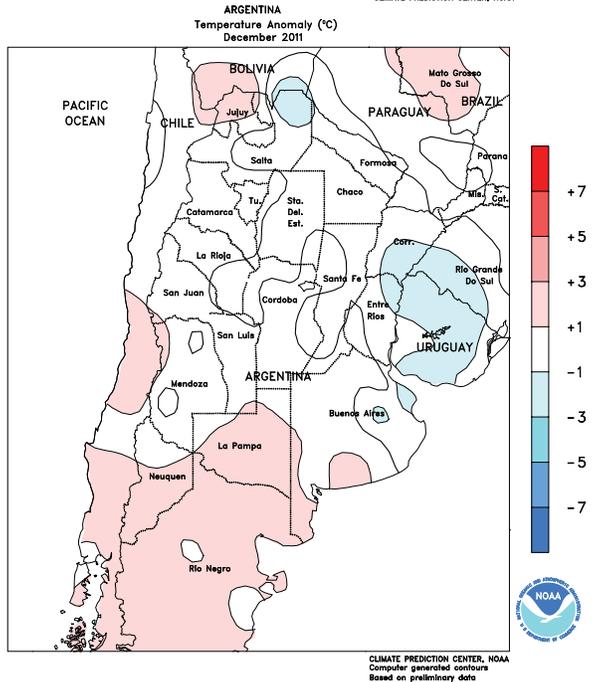
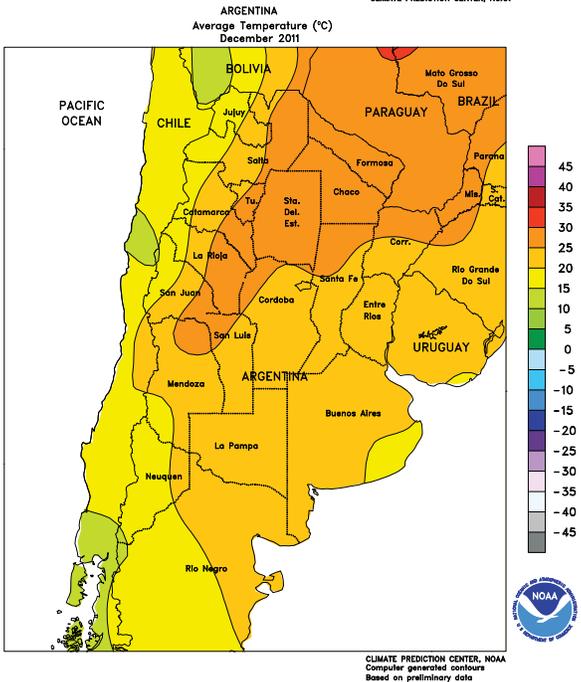
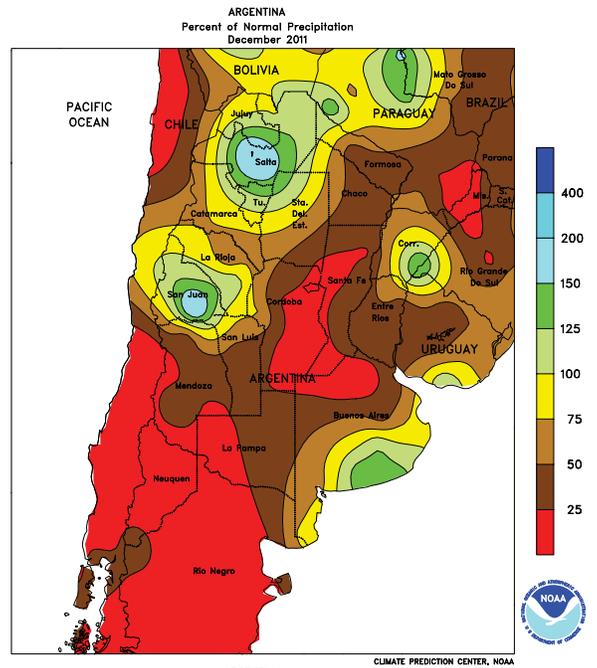
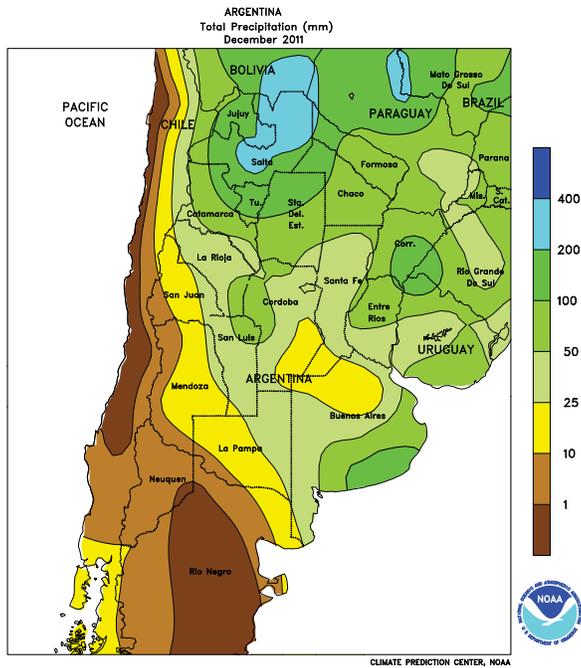


CLIMATE PREDICTION CENTER, NOAA  
Computer generated contours  
Based on preliminary data

**SOUTH AFRICA**

In December, showers and summer warmth provided timely moisture for emerging to vegetative summer crops throughout the corn belt, following a drier-than-normal November. Most major production areas recorded near- to above-normal levels of rainfall, and western sections of the corn belt (including important white corn production areas of North West and Free State) received their heaviest rain of the season at month's end, prior to the final stages of planting. Temperatures averaged near to slightly above normal in the east and somewhat cooler than

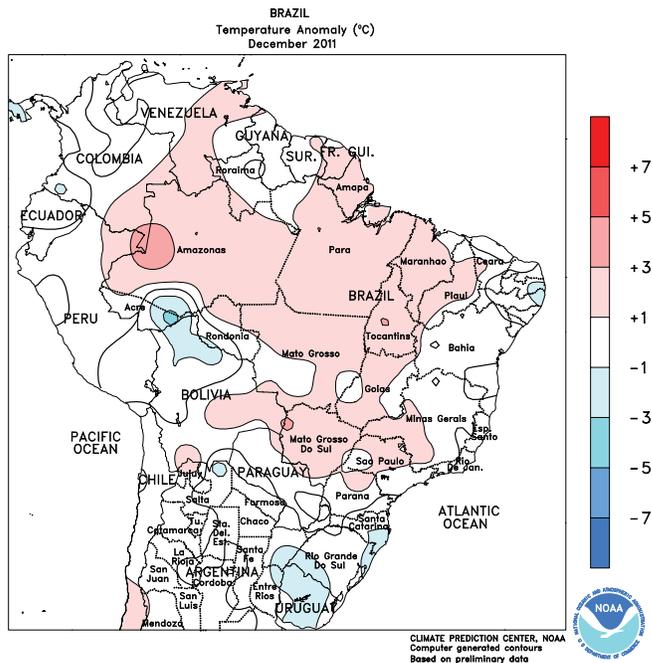
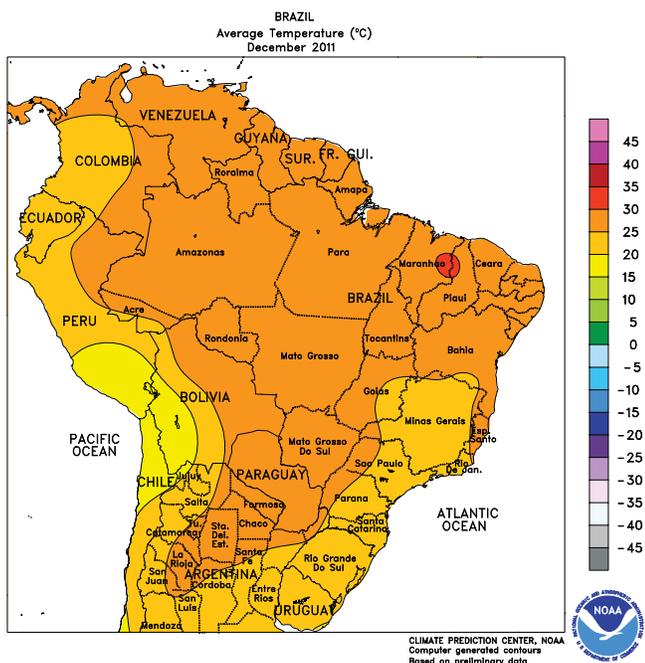
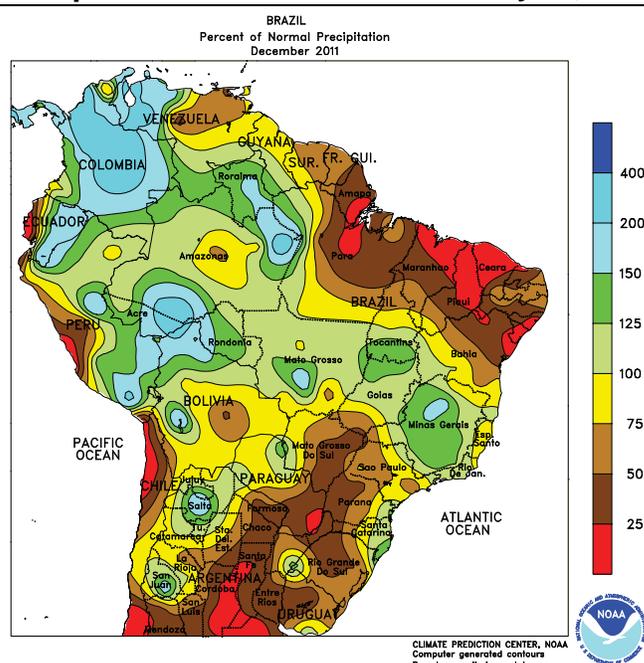
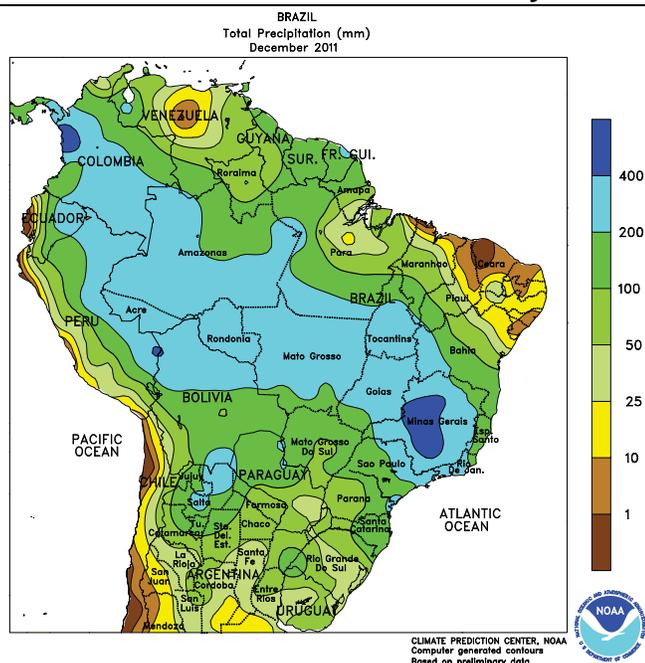
normal in the west, with highs generally ranging from the upper 20s to lower 30s (degrees C). Elsewhere, conditions were overall favorable for rain-fed sugarcane in southern sections of KwaZulu-Natal, although monthly rainfall totaled below normal due to a brief dry spell during the middle to latter part of the month. Sporadic, though occasionally heavy, rain increased irrigation reserves in the Cape Provinces. In the orchard and vineyard regions of Western Cape, mostly dry, seasonably warm conditions favored fruit development and seasonal fieldwork.



**ARGENTINA**

In December, an intensifying drought reduced moisture levels for normal growth of summer crops and, by month's end, most major farming areas recorded varying degrees of stress. Monthly rainfall was well below normal in the high-yielding soybean and corn areas of central Argentina (northern Buenos Aires and southern production areas of Cordoba, Santa Fe, and Entre Rios), with most locations receiving less than 50 mm (10-50 percent of normal) for the

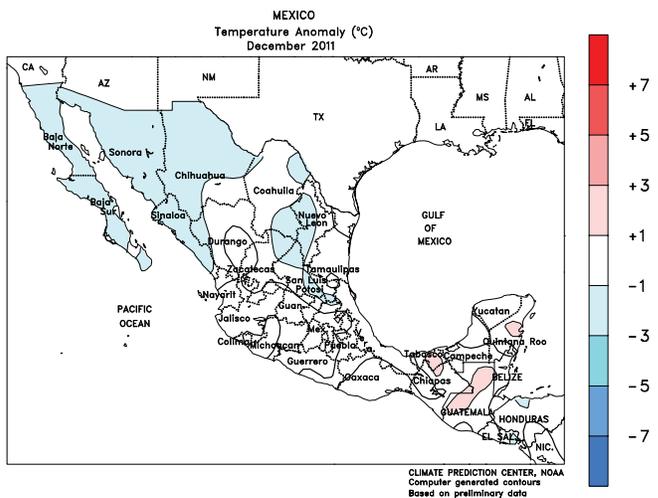
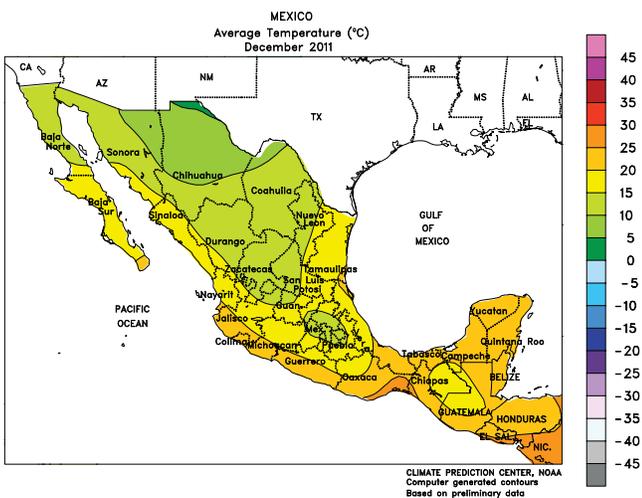
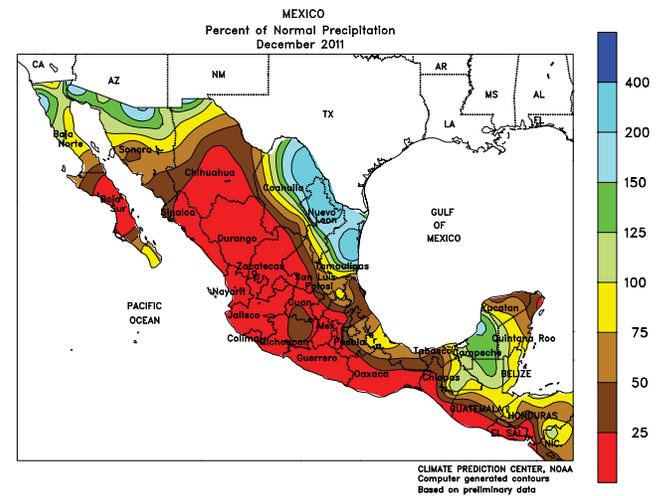
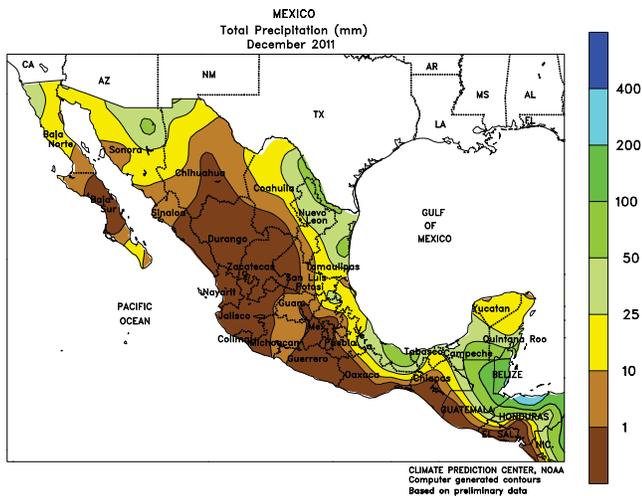
entire month. Normal amounts of rainfall (monthly accumulations of 100 mm or more) were confined to southeastern Buenos Aires and previously dry agricultural areas of the northwest (in and around Salta). Monthly average temperatures were generally within 1°C of normal, although several outbreaks of oppressive heat (highs near or above 40°C) engulfed nearly the entire region during the latter part of the month.



**BRAZIL**

Drier-than-normal conditions gripped southern Brazil for much of December, reducing moisture for corn and soybeans in various stages of development. Key farming areas of Rio Grande do Sul, western Parana, and southern Mato Grosso do Sul received less than half their normal rainfall; rainfall was higher in Parana's eastern production areas though still generally below normal. Monthly average temperatures were within 1°C of normal in these areas, but a brief spike in temperatures during the latter half of the month led to several days with highs ranging from 35 to 40°C. Farther north, periodic dryness led to below-normal monthly totals from southern Mato Grosso southeastward through Sao Paulo

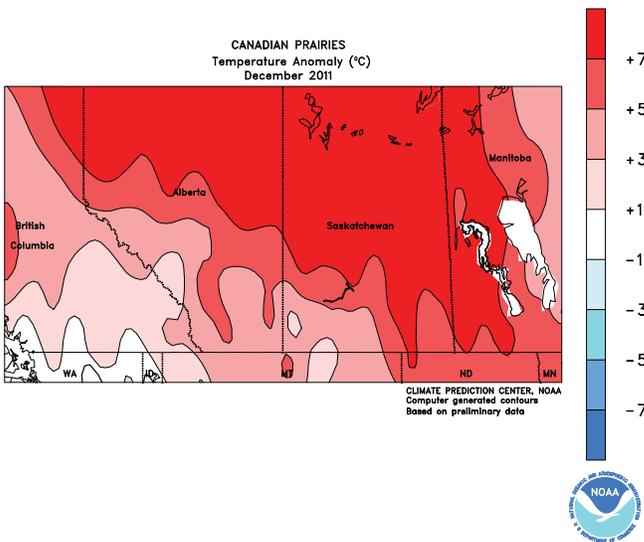
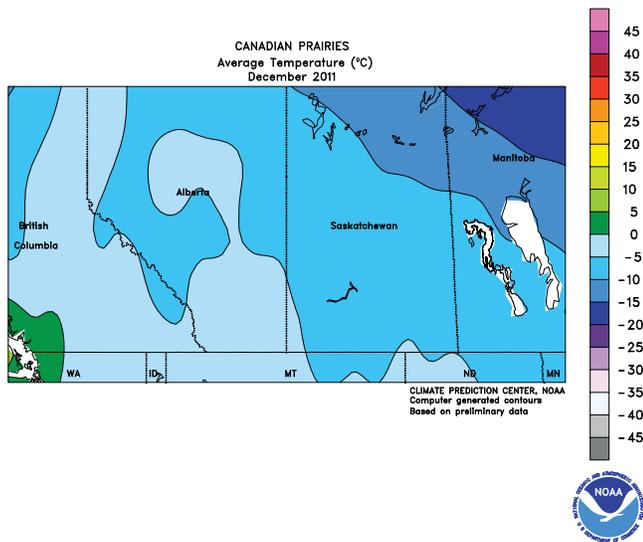
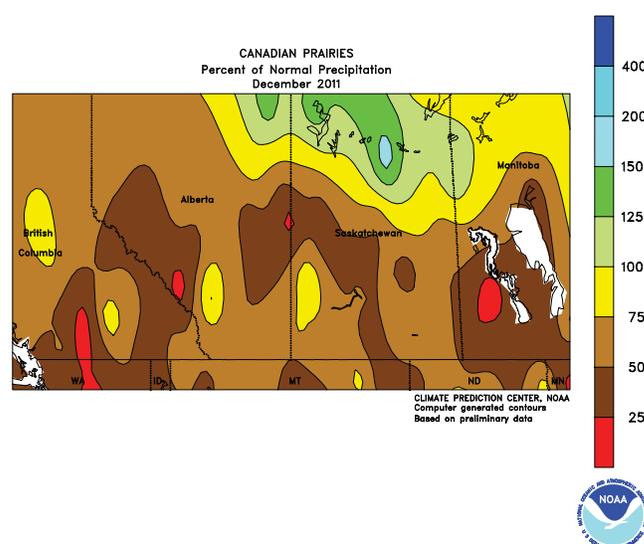
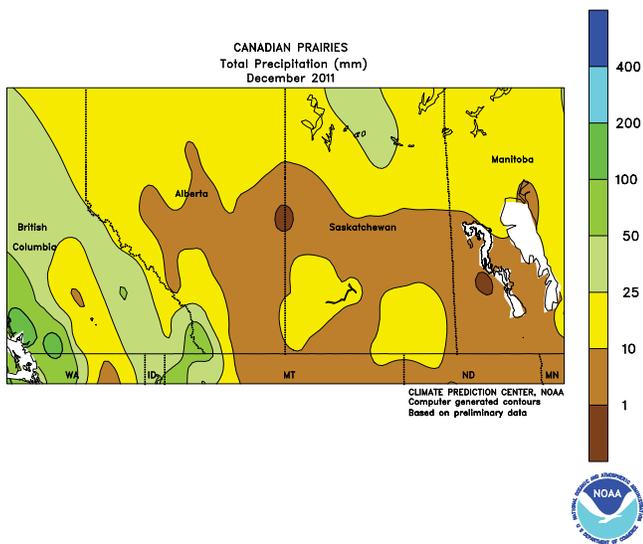
despite several weeks of seasonable wetness. Meanwhile, frequent, seasonably heavy rainfall continued from central Mato Grosso eastward through Minas Gerais and western Bahia, maintaining overall favorable conditions for soybeans, cotton, and coffee. In contrast, seasonable dryness along the northeastern coast supported harvesting of sugarcane and cocoa and other seasonal fieldwork. Monthly temperatures averaged near to several degrees C above normal in the main agricultural areas of central and northeastern Brazil, with highs often reaching the middle 30s degrees C in the traditionally warmer parts of the Center-West and northeastern interior.



**MEXICO**

In December, seasonal showers boosted irrigation reserves in parts of the northwest and along the Gulf Coast, with drier conditions prevailing elsewhere. Monthly rainfall totals ranged from 10 to 50 mm or more in northern wheat areas of Baja California and Sonora, providing an unseasonable boost in moisture for winter wheat germination, but little rainfall was recorded in Sonora's main southern growing areas. Similar amounts were recorded in the northeast (northern Coahuila to northern Tamaulipas), due to a brief period of heavy rain early in the month. However, the moisture likely came too early to spur

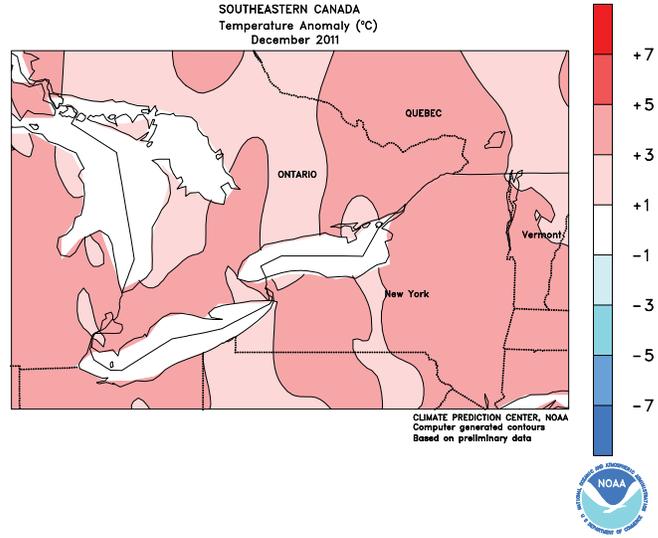
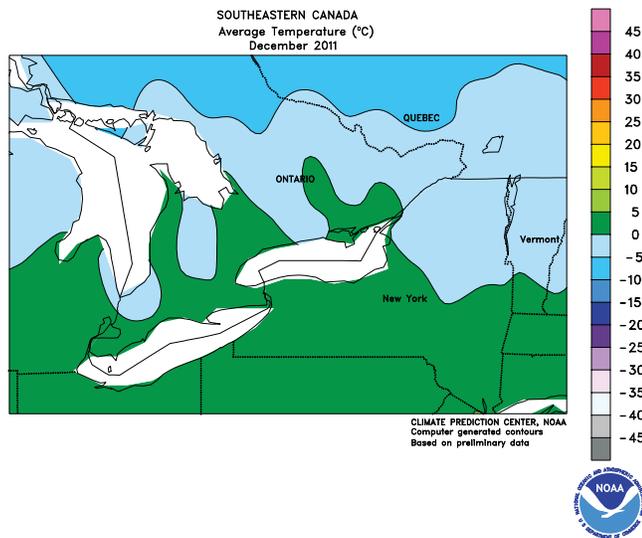
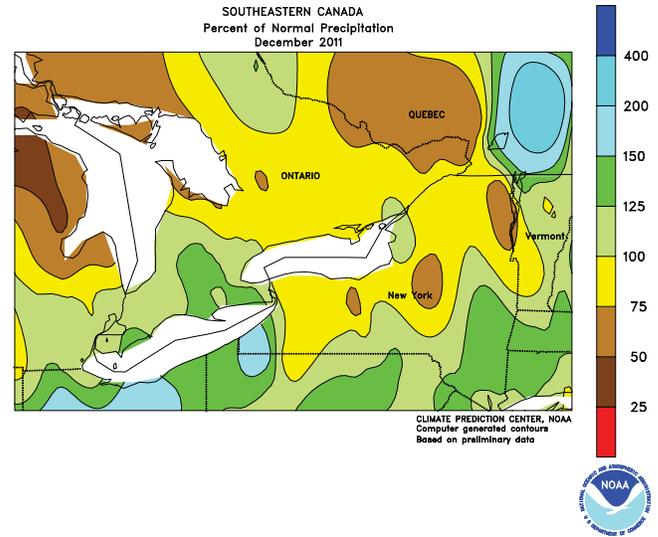
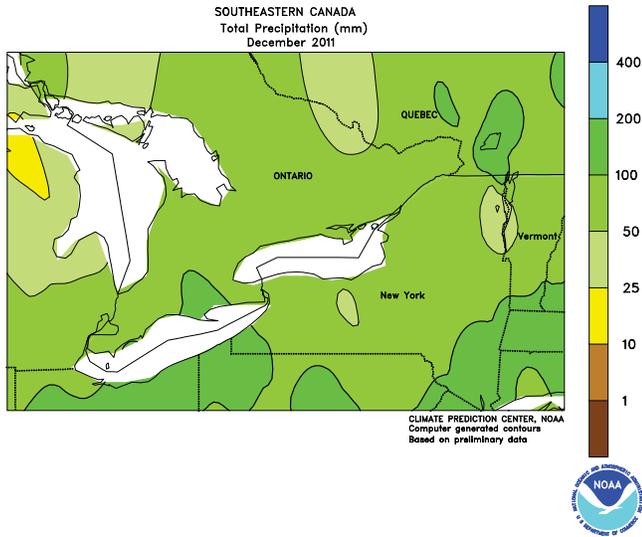
planting of rain-fed winter sorghum. Elsewhere, locally heavy showers increased irrigation levels in farming areas along the coast of the Gulf of Campeche, with a few locations in Veracruz and Tabasco recording monthly amounts in excess of 100 mm. In contrast, no rain was recorded over a large part of the central interior and along the southern Pacific Coast, favoring drydown and harvesting of corn and other summer crops. According to the government of Mexico, total national reservoir capacity was at 53.9 percent as of December 30, compared with 82.7 percent last year and 76.5 percent in 2009.



**CANADIAN PRAIRIES**

A general pattern of warmer- and drier-than-normal weather dominated the Prairies during the month of December. Average temperatures were 3 to 5°C above normal in the southwest (southern Alberta and southwestern Saskatchewan) and 5 to 8°C above normal elsewhere. Despite the unseasonable warmth, however, temperatures occasionally fell below the threshold for

potential winterkill (-17°C). Due to the prevailing dryness, many areas were void of snowcover during some of these events, increasing the potential for freeze damage on overwintering grains. Monthly total precipitation, mostly in the form of light snow, totaled 5 to 15 mm throughout the region, with locally heavier amounts in Manitoba's Interlake Region.



**SOUTHEASTERN CANADA**

During December, milder- and wetter-than-normal conditions favored overwintering wheat and pastures. In both Ontario and Quebec, monthly average temperatures were 2 to 3°C above normal; although the weather gradually got cooler as the month progressed, temperatures were commonly above normal throughout the month, particularly in Ontario. A late-month

cold snap saw temperatures fall below -20°C several times during the last 10 days of the month, but precipitation in the form of snow offered winter grains protection from winterkill. Prior to that, much of the region's precipitation (monthly accumulations of 50-100 mm or more, liquid equivalent) came in the form of rain.

Heat and Dryness Damage Crops in South America

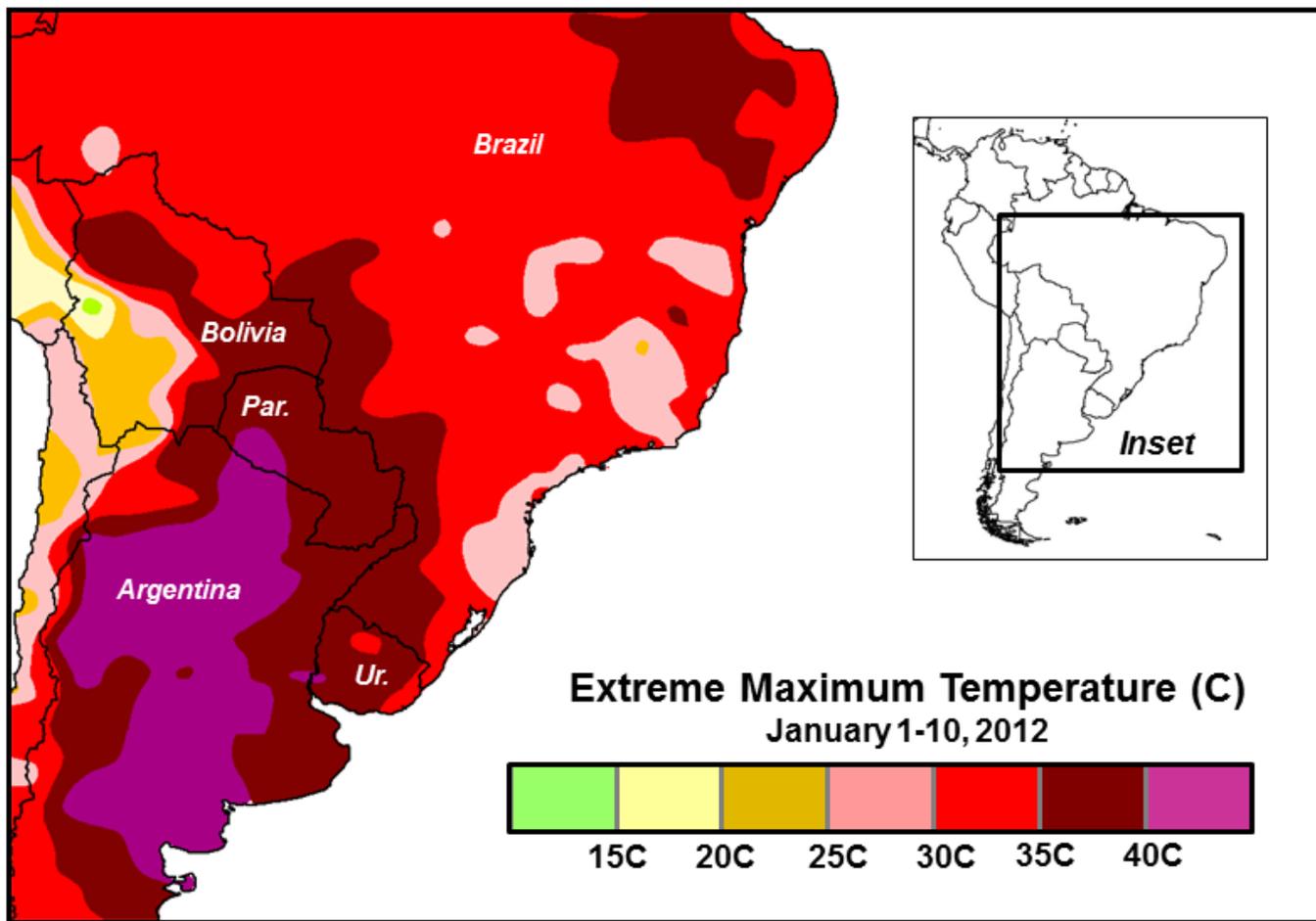


Figure 1 Highest maximum temperatures observed from January 1-10, 2012, in key farming areas of South America.

Drought has gripped key agricultural areas of South America for much of the southern Hemisphere spring and summer, reportedly causing irreversible damage to vulnerable summer row crops and maintaining concern for future losses in yield potential if conditions do not significantly improve.

portion of the crop was in temperature-sensitive reproductive and filling stages of development (notably pollination and early grain fill) when temperatures were at their highest during both events.

Beginning in November, drier-than-normal conditions developed from Argentina northward into southern Brazil. In December and early January, above-normal temperatures exacerbated the effects of the dryness on crops and pastures, particularly early-planted varieties advancing through reproductive stages of development. This was especially true for corn, which is typically planted before soybeans and has less ability to recover from damage. As seen in Figure 1, oppressive heat (highs from 35 to more than 40°C) affected a large area encompassing Argentina, Paraguay, Uruguay, and neighboring locations in Bolivia and Brazil. In the case of Argentina, it was the second heat wave since the middle part of December with temperatures in excess of 40°C (Figure 2). According to information released by Argentina’s Ministry of Agriculture, a significant portion of this season’s corn crop was planted by the end of October, guaranteeing that some

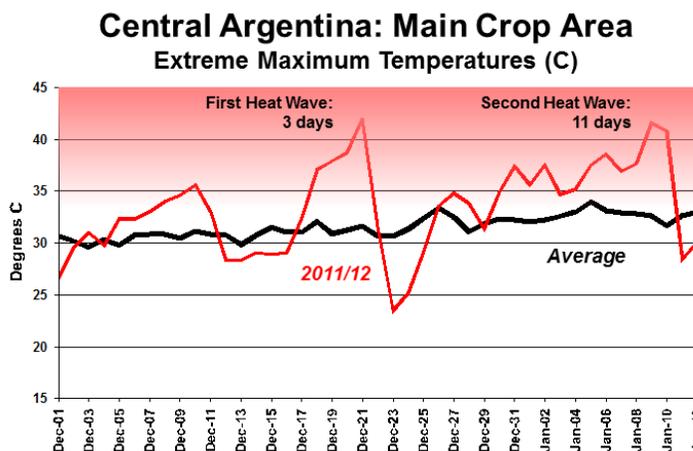


Figure 2 Daytime highs (Dec 1, 2011, to Jan 12, 2012) for major farming areas of central Argentina.

Beginning on January 10, much-needed rain and cooler weather helped to stabilize the condition of Argentina’s drought-stressed corn, soybeans, and cotton (see page 21 of this week’s *Weekly Weather and Crop Bulletin*). However, the moisture was not enough to fully reverse the impacts of the long-term dryness, nor could it undo some of the damage already incurred by summer grains and oilseeds. Consequently, USDA’s *World Agricultural Supply and Demand Estimates* report released on January 12, 2012, noted a reduction in key Argentine commodities due to the poor growing conditions of December and early January: corn production was reduced 3 million metric tons (to 26 million tons) while the estimate for soybeans fell 1.5 million tons (to 50.5 million tons).

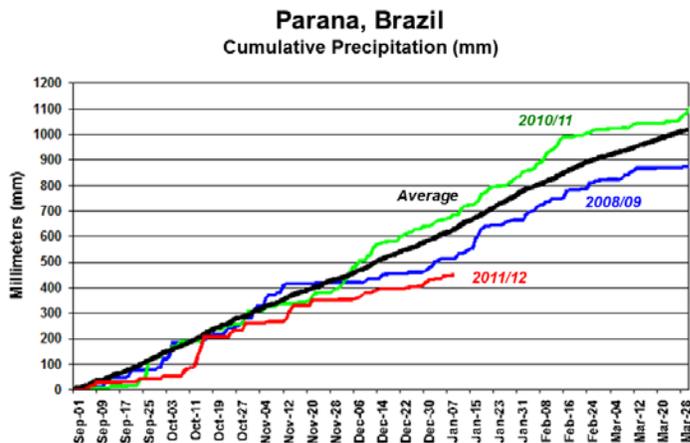


Figure 4 Seasonal rainfall comparisons for Parana, Brazil.

southern Brazil and generally favorable conditions in Brazil’s Center-West and northeastern Regions, USDA lowered crop expectations only slightly in its January report: soybeans fell 1 million tons to 74 million. Corn remained unchanged at 61 million tons as increased acreage and the potential for a higher winter (safrinha) crop offset current estimated losses in southern production areas.



Figure 3 Seasonal rainfall comparisons for Mato Grosso, Brazil.

Some reductions in yield potential are also being anticipated for Brazil, although unlike Argentina, poor weather has affected a relatively smaller portion of the main crop-growing areas. For example, Mato Grosso, Brazil’s leading producer of soybeans, has so far this season recorded near-normal rainfall, as have other key production areas of the country’s central interior (Figure 3). In contrast, Parana, Brazil’s second largest producer of soybeans and its largest producer of corn, has experienced warmer- and drier-than normal conditions for most of the current growing season. In fact, this season’s rainfall accumulation is similar to that of the 2008/09 season, when dryness impacted crop production (Figure 4). In that season, both corn and soybean production were lower than in previous seasons, as depicted in Figure 5. It should be noted, however, that Parana typically has an earlier planting season than its neighbor Rio Grande do Sul (another regionally important producer of soybeans and corn), where conditions in January and February can have a significant impact on production. As a result of lower crop expectations in Parana, offset by the greater potential for recovery elsewhere in

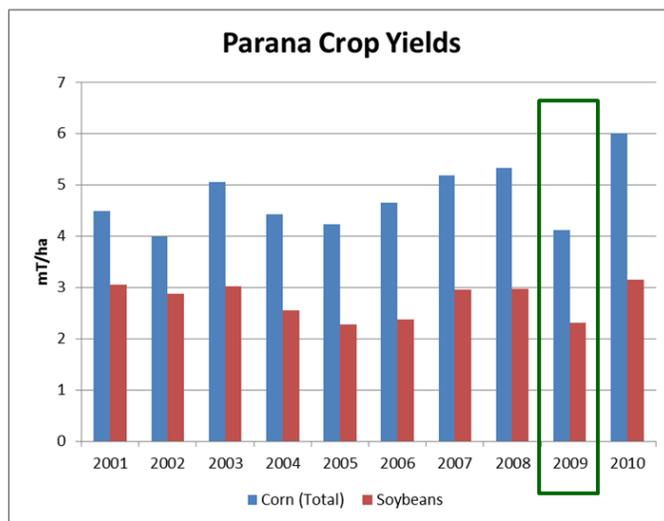


Figure 5 Corn and soybean yields for Parana, Brazil (Source: IBGE Brazil).

This season’s dryness, and subsequent warmer-than-normal weather, in South America has been attributed to the current La Niña, which is currently forecast to gradually weaken through the North American spring. Additional information on the phenomenon can be found at:

<http://www.cpc.ncep.noaa.gov/products/precip/CWlink/MJO/enso.shtml>

# U.S. Crop Production Highlights

The following information was released by USDA's Agricultural Statistics Board on January 12, 2012. Forecasts refer to January 1.

The **all orange** forecast for the 2011-2012 season is 8.98 million tons, down 2 percent from the previous forecast but up 1 percent from the 2010-2011 final utilization. The Florida all orange forecast, at 147 million boxes (6.62 million tons), is down 2 percent from the December forecast but up 5 percent from last season's final utilization. Early, midseason, and Navel varieties in Florida are forecast at 73.0 million boxes (3.29 million tons), down 3 percent from the December forecast but up 4 percent from last season.

The Florida Valencia orange forecast, at 74.0 million boxes (3.33 million tons), is down 1 percent from the December forecast but up 6 percent from the 2010-2011 crop. Sizes for both Valencia and early, midseason, and Navel varieties in Florida are expected to be larger than average; however, size measurements for both were down from the December forecast. Little rainfall was received in Florida's citrus-growing region during December.

## U.S. Annual Crop Production Highlights

The following information was released by USDA's Agricultural Statistics Board on January 12, 2012. Forecasts refer to January 1.

**Corn** for grain production is estimated at 12.4 billion bushels, up slightly from the November 1 forecast but 1 percent below 2010. The 2011 average yield is estimated at 147.2 bushels per acre, up 0.5 bushel from the November forecast but 5.6 bushels below the 2010 average yield of 152.8 bushels. Area harvested for grain is estimated at 84.0 million acres, up slightly from the November forecast and up 3 percent from 2010.

**Sorghum** grain production in 2011 is estimated at 214 million bushels, down 13 percent from the November 1 forecast and 38 percent below 2010. Planted area is estimated at 5.48 million acres, up 1 percent from last year. Area harvested for grain, at 3.93 million acres, is down 18 percent from 2010. Average grain yield, at 54.6 bushels per acre, is down 0.9 bushel from the previous forecast and down 17.2 bushels from last year.

**Rice** production in 2011 is estimated 185 million cwt, down 2 percent from the previous forecast and 24 percent below 2010. Planted area is estimated at 2.69 million acres, down 26 percent

from 2010. Area harvested, at 2.62 million acres, is down slightly from the previous forecast and 28 percent below the previous crop year. The average yield for all U.S. rice is estimated at 7,067 pounds per acre, down 100 pounds from the previous forecast but 342 pounds above the 2010 yield.

**Soybean** production in 2011 totaled 3.06 billion bushels, up slightly from the November 1 forecast but down 8 percent from 2010. U.S. production is the sixth largest on record. The average yield per acre is estimated at 41.5 bushels, 0.2 bushel above the November 1 forecast but 2.0 bushels below last year's yield. Harvested area is down 4 percent from 2010 to 73.6 million acres.

**All cotton** production is estimated at 15.7 million 480-pound bales, down 1 percent from last month and down 13 percent from 2010. The U.S. yield is estimated at 772 pounds per acre, up 1 pound from the December 1 forecast but down 40 pounds from last year. Harvested area, at 9.75 million acres, is down 1 percent from December and down 9 percent from last year.

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