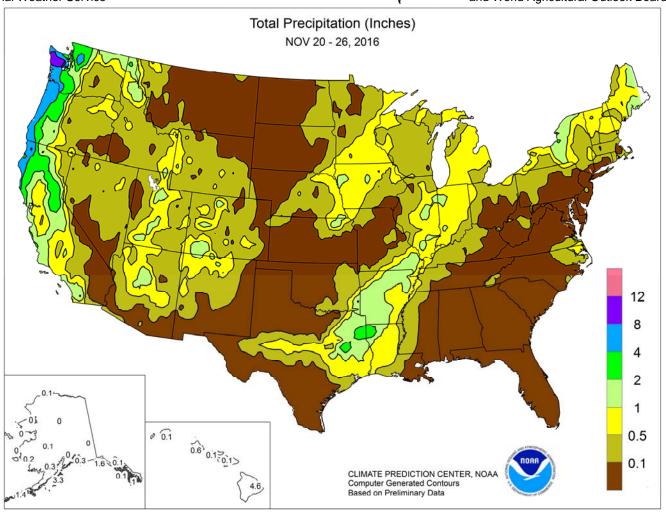
WEEKEWATHER AND CROPEULLETIN

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

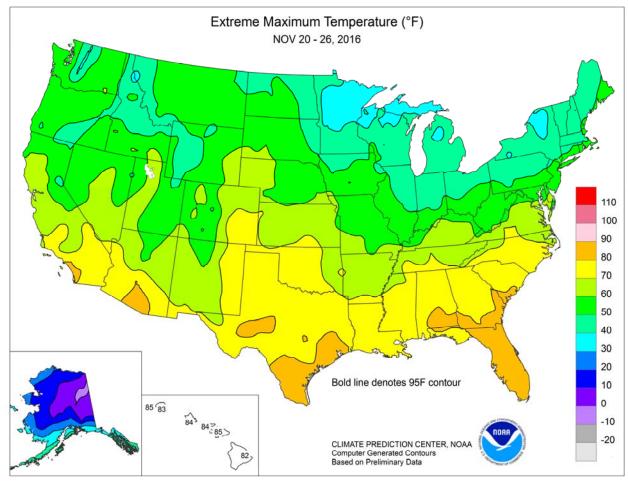
November 20 – 26, 2016

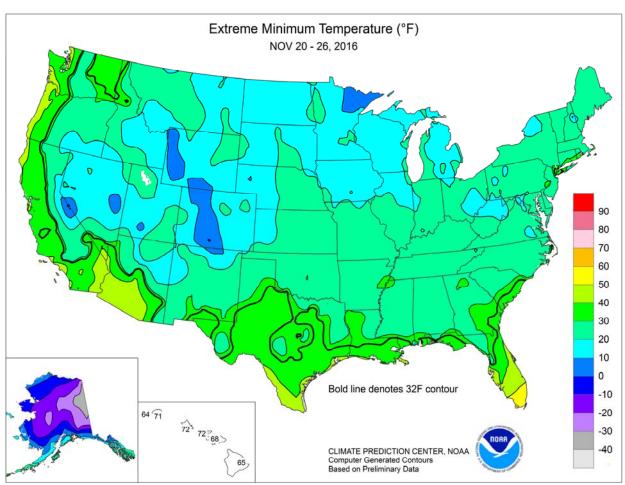
Highlights provided by USDA/WAOB

Southeastern drought continued to intensity, despite a brief turn toward cooler weather that led to widespread freezes and ended the growing season across much of the southern U.S. Just to the west, however, rain (locally an inch or more) provided local drought relief in the mid-South and environs. Generally light precipitation also spread from the Midwest into the Northeast, although heavy snow lingered early in the week downwind of the Great Lakes. In addition, snow blanketed portions of the upper Midwest for the second time in less than a

Contents

Extreme Maximum & Minimum Temperature Maps	2
Temperature Departure Map	
November 22 Drought Monitor & Snow Cover Map	4
National Weather Data for Selected Cities	5
National Agricultural Summary	8
Crop Progress and Condition Tables	9
International Weather and Crop Summary	
Bulletin Information &	
November 16 Satellite Image of Southeastern Wildfires	24





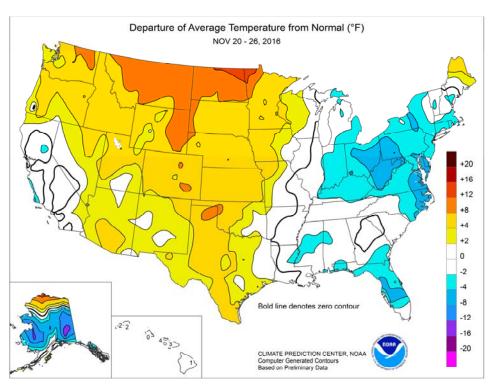
(Continued from front cover)

week. In contrast, mostly dry weather prevailed across nation's mid-section, though a few mid-week showers on the central Plains provided winter wheat with beneficial moisture. Meanwhile, cooler weather pushed winter wheat into dormancy from the northern Plains into the lower Great Lakes region. Elsewhere, the week began and ended with unsettled, showery weather across the West. The heaviest precipitation fell along and near the Pacific Coast. including western slopes of the Cascades and Sierra Nevada. At week's end, a Western cooling trend led to an increase in high-elevation snow accumulations.

Lingering warmth in the **West** led to a few daily-record highs,

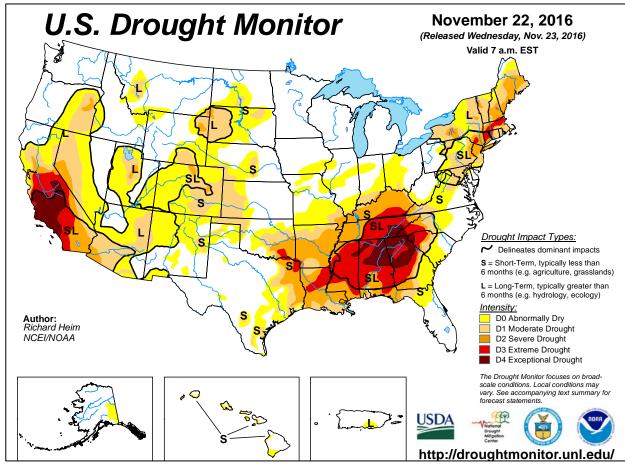
including November 20 readings of 66°F in Salt Lake City, UT, and 64°F in Cheyenne, WY. Meanwhile, seasonably cold weather overspread the eastern U.S. Cleveland, OH, reported a low of 32°F on November 20, representing its latest first freeze since November 21, 1935—and just a week shy of the all-time record set on November 27, 1902. Farther south, Elizabeth City, NC. reported a daily-record low of 20°F on November 22. High winds and snow squalls accompanied and trailed the surge of cold air into the Northeast; a wind gust to 62 mph was clocked in Martinsburg, WV, on November 20. In New York, November 19-22 snowfall totaled 14.9 inches in Rochester; 25.1 inches in Syracuse; and 27.6 inches in **Binghamton**. For **Binghamton**, it was the snowiest 4-day period on record, surpassing 25.1 inches on February 19-22, 1972. Snow also fell in parts of New England, where Caribou, ME, received 10.5 inches from November 21-27. When snow began to fall in Caribou on November 21, it marked the second-latest date of the season's first accumulation, behind only November 23, 1994. Meanwhile, Rochester, MN, received snowfall totaling 0.7 inch on November 23—the tenth-latest first accumulation on record in that location and the latest since November 27, 2004. However, many parts of the western Corn Belt merely received cold rain; Sioux City, IA, netted a daily-record total of 1.22 inches on November 22.

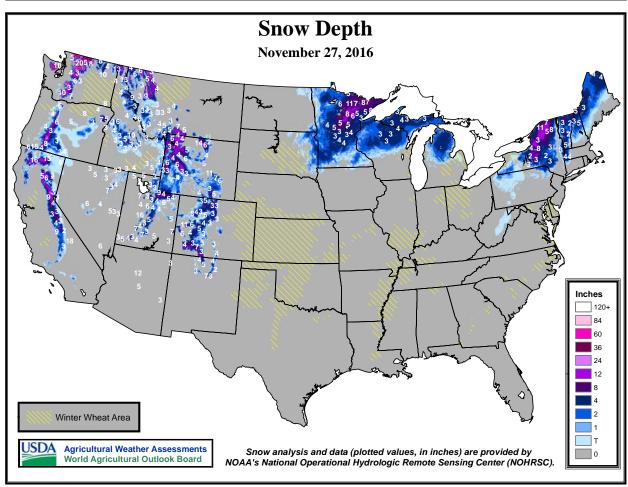
Meanwhile, warmth soon returned to the **Southeast**, further aggravating drought. **Southeastern** daily-record highs climbed to 82°F (on Thanksgiving Day, November 24) in **Montgomery**, **AL**, and 80°F (on November 25) in **Macon**, **GA**. More details on the rain that ended recordsetting dry spells in locations such as **Tuscaloosa**, **AL**, and **Atlanta**, **GA**, will appear in next week's *Bulletin*.



Tuscaloosa's streak without measurable rain ended at 71 days (September 18 - November 27), while Atlanta's streak was halted at 43 days (October 17 – November 28). Farther west, late-week rain provided parts of Texas with beneficial moisture; Waco collected a daily-record rainfall of 1.07 inches on November 25. Elsewhere, amid periods of Northwestern storminess, daily-record totals included 3.01 inches (on Thanksgiving Day) in McMinnville, OR; 2.51 inches (on November 25) in North Bend, OR; and 2.27 inches (on November 20) in Crescent City, CA. Western precipitation spread as far east as Colorado, where daily-record amounts reached 0.70 inch (on November 22) in **Pueblo** and 0.35 inch (on November 21) in Grand Junction. By November 26, cold air surging into the Southwest led to a daily-record low of 11°F in Bishop, CA.

Cold weather engulfed Alaska, except the northern tier of the state. A string of sub-zero readings began in **Nome** on November 21. McGrath reported a low of -23°F—not a record for the date—on November 24. precipitation was confined to southern Alaska, where Kodiak's weekly rainfall of 3.59 inches boosted its November 1-26 total to 8.80 inches (150 percent of normal). At week's end, on November 26, a strong storm affecting western Alaska produced wave heights to 51 feet at a buoy south of Sand Point in the Aleutian Islands and resulted in wind gusts to 82 mph in Unalaska and 74 mph in Cold Bay. Farther south, leeward sections of Hawaii continued to experience dry conditions. Through November 26, month-to-date rainfall totaled just 0.23 inch (6 percent of normal) in Lihue, Kauai, and 0.24 inch (13 percent) in Kahului, Maui. On the windward side of the Big Island. however, Hilo's weekly rainfall totaled 4.20 inches.





National Weather Data for Selected Cities

Weather Data for the Week Ending November 26, 2016
Data Provided by Climate Prediction Center

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HARTFORD 43 31 48 28 37 -2 0.66 -0.26 0.50 5.97 52 28.31 67 78 63 0 6 DC WASHINGTON 52 38 58 32 45 -2 0.00 -0.70 0.00 3.67 38 28.61 80 66 39 0 1 DE WILMINGTON 50 35 54 26 42 -2 0.00 -0.77 0.00 7.46 76 36.91 95 74 47 0 2 FL DAYTONA BEACH 74 50 81 42 62 -3 0.00 -0.55 0.00 16.31 119 43.94 95 89 40 0 0 JACKSONVILLE 72 43 81 30 57 -3 0.00 -0.55 0.00 13.89 101 36.23 73 95 45 0 1 KEY WEST 79 69 82 65 74 -1 0.00 -0.52 0.00 10.18 84 35.52 97 84 63 0 0 MIAMI 80 65 82 58 73 0 0.04 -0.61 0.04 16.59 94 63.59 113 77 49 0 0 PENSACOLA 71 50 77 41 60 1 0.00 -0.55 0.00 10.05 97 51.73 113 79 40 0 0 PENSACOLA 71 50 77 41 60 1 0.00 -0.55 0.00 13.89 101 36.23 73 95 45 0 0 PENSACOLA 71 50 77 41 60 1 0.00 -0.55 0.00 10.05 97 51.73 113 79 40 0 0 WEST PALM BEACH 79 61 81 51 70 -2 0.00 -0.91 0.00 7.82 68 55.12 94 81 33 0 1 TAMPA 78 56 83 44 67 -1 0.00 -0.43 0.00 5.70 57 52.13 124 79 36 0 0 WEST PALM BEACH 79 61 81 51 70 -2 0.00 1.26 0.00 13.38 72 47.56 83 77 51 0 0 GA ATHENS 68 38 77 29 53 2 0.00 -0.85 0.00 1.58 16 32.54 75 76 34 0 1 AUGUSTA 71 35 80 28 53 0 0.00 -0.57 0.00 6.91 76 33.48 81 88 30 0 4 AUGUSTA 71 37 80 29 54 1 0.00 -0.57 0.00 6.91 76 33.48 81 88 30 0 4 HILO 80 68 82 65 74 1 0.00 -0.45 0.00 1.67 19 29.59 68 73 26 0 0 SAVANNAH 71 42 82 33 57 0 0.06 -0.45 0.06 16.64 162 51.01 110 85 35 0 0 KAHULUI 84 72 85 68 78 3 0.13 -0.41 0.12 2.15 67 11.96 78 76 69 0 0	1 1
DC WASHINGTON 52 38 58 32 45 -2 0.00 -0.70 0.00 3.67 38 28.61 80 66 39 0 1	3 1 2 1
DE WILMINGTON 50 35 54 26 42 -2 0.00 -0.77 0.00 7.46 76 36.91 95 74 47 0 2	0 0
JACKSONVILLE 72 43 81 30 57 -3 0.00 -0.55 0.00 13.89 101 36.23 73 95 45 0 1 KEY WEST 79 69 82 65 74 -1 0.00 -0.52 0.00 10.18 84 35.52 97 84 63 0 0 MIAMI 80 65 82 58 73 0 0.04 -0.61 0.04 16.59 94 63.59 113 77 49 0 0 0 ORLANDO 77 51 85 38 64 -3 0.00 -0.55 0.00 10.05 97 51.73 113 79 40 0 0 ORLANDO 77 51 85 38 64 -3 0.00 -1.02 0.00 3.51 26 54.29 91 72 36 0 0 TALLAHASSEE 74 39 80 30 57 -2 0.00 -0.91 0.00 7.82 68 55.12 94 81 33 0 1 TAMPA 78 56 83 44 67 -1 0.00 -0.43 0.00 5.70 57 52.13 124 79 36 0 0 WEST PALM BEACH 79 61 81 51 70 -2 0.00 -1.26 0.00 13.38 72 47.56 83 77 51 0 0 WEST PALM BEACH 79 61 81 51 70 -2 0.00 -1.26 0.00 13.38 72 47.56 83 77 51 0 0 0 ALGENTA 71 35 80 28 53 0 0.00 -0.85 0.00 1.58 16 32.54 75 76 34 0 1 ALLAHASSE 69 40 77 32 55 0 0.00 -0.65 0.00 1.67 19 29.59 68 73 26 0 1 MACON 71 37 80 29 54 1 0.00 -0.80 0.00 2.38 29 26.59 66 80 27 0 2 SAVANNAH 71 42 82 33 57 0 0.66 0.09 0.55 3.73 78 12.26 81 77 67 0 0 KAHULUI 84 72 85 68 78 3 0.13 -0.41 0.12 2.15 67 11.96 78 76 69 0 0	0 0
KEY WEST 79 69 82 65 74 -1 0.00 -0.52 0.00 10.18 84 35.52 97 84 63 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0
MIAMI 80 65 82 58 73 0 0.04 -0.61 0.04 16.59 94 63.59 113 77 49 0 0 0 ORLANDO 77 51 85 38 64 -3 0.00 -0.55 0.00 10.05 97 51.73 113 79 40 0 0 PENSACOLA 71 50 77 41 60 1 0.00 -1.02 0.00 3.51 26 54.29 91 72 36 0 0 TALLAHASSEE 74 39 80 30 57 -2 0.00 -0.91 0.00 7.82 68 55.12 94 81 33 0 1 TAMPA 78 56 83 44 67 -1 0.00 -0.43 0.00 5.70 57 52.13 124 79 36 0 0 WEST PALM BEACH 79 61 81 51 70 -2 0.00 -1.26 0.00 13.38 72 47.56 83 77 51 0 0 WEST PALM BEACH 68 38 77 29 53 2 0.00 -0.85 0.00 15.88 16 32.54 75 76 34 0 1 ATLANTA 66 42 76 36 54 3 0.00 -0.85 0.00 1.58 16 32.54 75 76 34 0 1 ATLANTA 66 42 76 36 54 3 0.00 -0.65 0.00 1.58 16 32.54 75 76 34 0 1 ATLANTA 66 42 76 36 54 3 0.00 -0.65 0.00 1.50 1.60 1.60 1.60 1.60 1.60 1.60 1.60 1.6	0 0
PENSACOLA 71 50 77 41 60 1 0.00 -1.02 0.00 3.51 26 54.29 91 72 36 0 0 TALLAHASSEE 74 39 80 30 57 -2 0.00 -0.91 0.00 7.82 68 55.12 94 81 33 0 1 TALPA 78 56 83 44 67 -1 0.00 -0.43 0.00 5.70 57 52.13 124 79 36 0 0 WEST PALM BEACH 79 61 81 51 70 -2 0.00 -1.26 0.00 13.38 72 47.56 83 77 51 0 0 ATHENS 68 38 77 29 53 2 0.00 -0.85 0.00 1.58 16 32.54 75 76 34 0 1 ATHENS ATLANTA 66 42 76 36 54 3 0.00 -1.00 0.00 3.59 34 32.71 72 63 32 0 0 AUGUSTA 71 35 80 28 53 0 0.00 -0.57 0.00 6.91 76 33.48 81 88 30 0 4 COLUMBUS 69 40 77 32 55 0 0.00 -1.01 0.00 1.67 19 29.59 68 73 26 0 1 MACON 71 37 80 29 54 1 0.00 -0.80 0.00 1.58 166 32.59 66 80 27 0 2 SAVANNAH 71 42 82 33 57 0 0.06 -0.45 0.06 16.64 162 51.01 110 85 35 0 0 HILO 80 68 82 65 74 1 4.57 0.84 1.49 36.59 113 104.72 92 92 87 0 0 KAHULUI 84 72 85 68 78 3 0.13 -0.41 0.12 2.15 67 11.96 78 76 69 0 0	1 0
TALLAHASSEE 74 39 80 30 57 -2 0.00 -0.91 0.00 7.82 68 55.12 94 81 33 0 1 TAMPA 78 56 83 44 67 -1 0.00 -0.43 0.00 5.70 57 52.13 124 79 36 0 0 WEST PALM BEACH 79 61 81 51 70 -2 0.00 -1.26 0.00 13.38 72 47.56 83 77 51 0 0 0 ATHENS 68 38 77 29 53 2 0.00 -0.85 0.00 1.58 16 32.54 75 76 34 0 1 ATHENS AUGUSTA 71 35 80 28 53 0 0.00 -0.67 0.00 6.91 76 33.48 81 88 30 0 4 COLUMBUS 69 40 77 32 55 0 0.00 -1.01 0.00 1.67 19 29.59 68 73 26 0 1 MACON 71 37 80 29 54 1 0.00 -0.80 0.00 2.38 29 26.59 66 80 27 0 2 SAVANNAH 71 42 82 33 57 0 0.06 -0.45 0.06 16.64 162 51.01 110 85 35 0 0 HILO HILO 80 68 82 65 74 1 4.57 0.84 1.49 36.59 113 104.72 92 92 87 0 0 KAHULUI 84 72 85 68 78 3 0.13 -0.41 0.12 2.15 67 11.96 78 76 69 0 0	0 0
TAMPA 78 56 83 44 67 -1 0.00 -0.43 0.00 5.70 57 52.13 124 79 36 0 0 0 WEST PALM BEACH 79 61 81 51 70 -2 0.00 -1.26 0.00 13.38 72 47.56 83 77 51 0 0 GA ATHENS 68 38 77 29 53 2 0.00 -0.85 0.00 1.58 16 32.54 75 76 34 0 1 ATLANTA 66 42 76 36 54 3 0.00 -1.00 0.00 3.59 34 32.71 72 63 32 0 0 0 AUGUSTA 71 35 80 28 53 0 0.00 -0.57 0.00 6.91 76 33.48 81 88 30 0 4 COLUMBUS 69 40 77 32 55 0 0.00 -1.01 0.00 1.67 19 29.59 68 73 26 0 1 MACON 71 37 80 29 54 1 0.00 -0.80 0.00 2.38 29 26.59 66 80 27 0 2 SAVANNAH 71 42 82 33 57 0 0.06 -0.45 0.06 16.64 162 51.01 110 85 35 0 0 HILO HILO 80 68 82 65 74 1 4.57 0.84 1.49 36.59 113 104.72 92 92 87 0 0 KAHULUI 84 72 85 68 78 3 0.13 -0.41 0.12 2.15 67 11.96 78 76 69 0 0	0 0
GA ATHENS 68 38 77 29 53 2 0.00 -0.85 0.00 1.58 16 32.54 75 76 34 0 1 ATLANTA 66 42 76 36 54 3 0.00 -1.00 0.00 3.59 34 32.71 72 63 32 0 0 AUGUSTA 71 35 80 28 53 0 0.00 -0.57 0.00 6.91 76 33.48 81 88 30 0 4 COLUMBUS 69 40 77 32 55 0 0.00 -1.01 0.00 1.67 19 29.59 68 73 26 0 1 MACON 71 37 80 29 54 1 0.00 -0.80 0.00 2.38 29 26.59 66 80 27 0 2 SAVANNAH 71 42 82 33 57 0 0.06 -0.45 0.06 16.64 162 51.01 110 85 35 0 0 HI HILO 80 68 82 65 74 1 4.57 0.84 1.49 36.59 113 104.72 92 92 87 0 0 HONOLULU 82 73 84 72 77 0 0.60 0.09 0.55 3.73 78 12.26 81 77 67 0 0 KAHULUI 84 72 85 68 78 3 0.13 -0.41 0.12 2.15 67 11.96 78 76 69 0 0	0 0
ATLANTA 66 42 76 36 54 3 0.00 -1.00 0.00 3.59 34 32.71 72 63 32 0 0 AUGUSTA 71 35 80 28 53 0 0.00 -0.57 0.00 6.91 76 33.48 81 88 30 0 4 COLUMBUS 69 40 77 32 55 0 0.00 -1.01 0.00 1.67 19 29.59 68 73 26 0 1 MACON 71 37 80 29 54 1 0.00 -0.80 0.00 2.38 29 26.59 66 80 27 0 2 SAVANNAH 71 42 82 33 57 0 0.06 -0.45 0.06 16.64 162 51.01 110 85 35 0 0 HILO 80 68 82 65 74 1 4.57 0.84 1.49 36.59 113 104.72 92 92 87 0 0 MACOLULU 82 73 84 72 77 0 0.60 0.09 0.55 3.73 78 12.26 81 77 67 0 0 KAHULUI 84 72 85 68 78 3 0.13 -0.41 0.12 2.15 67 11.96 78 76 69 0 0	0 0
AUGUSTA 71 35 80 28 53 0 0.00 -0.57 0.00 6.91 76 33.48 81 88 30 0 4 COLUMBUS 69 40 77 32 55 0 0.00 -1.01 0.00 1.67 19 29.59 68 73 26 0 1 MACON 71 37 80 29 54 1 0.00 -0.80 0.00 2.38 29 26.59 66 80 27 0 2 SAVANNAH 71 42 82 33 57 0 0.06 -0.45 0.06 16.64 162 51.01 110 85 35 0 0 HILO 80 68 82 65 74 1 4.57 0.84 1.49 36.59 113 104.72 92 92 87 0 0 KAHULUI 82 73 84 72 77 0 0.60 0.09 0.55 3.73 78 12.26 81 77 67 0 0 KAHULUI 84 72 85 68 78 3 0.13 -0.41 0.12 2.15 67 11.96 78 76 69 0 0	0 0
MACON 71 37 80 29 54 1 0.00 -0.80 0.00 2.38 29 26.59 66 80 27 0 2 SAVANNAH 71 42 82 33 57 0 0.06 -0.45 0.06 16.64 162 51.01 110 85 35 0 0 HILD HILO 80 68 82 65 74 1 4.57 0.84 1.49 36.59 113 104.72 92 92 87 0 0 HONOLULU 82 73 84 72 77 0 0.60 0.09 0.55 3.73 78 12.26 81 77 67 0 0 KAHULUI 84 72 85 68 78 3 0.13 -0.41 0.12 2.15 67 11.96 78 76 69 0 0	0 0
SAVANNAH 71 42 82 33 57 0 0.06 -0.45 0.06 16.64 162 51.01 110 85 35 0 0 0 1 110 110 110 110 110 110 110 11	0 0
HI HILO 80 68 82 65 74 1 4.57 0.84 1.49 36.59 113 104.72 92 92 87 0 0 0 HONOLULU 82 73 84 72 77 0 0.60 0.09 0.55 3.73 78 12.26 81 77 67 0 0 KAHULUI 84 72 85 68 78 3 0.13 -0.41 0.12 2.15 67 11.96 78 76 69 0 0	0 0
HONOLULU 82 73 84 72 77 0 0.60 0.09 0.55 3.73 78 12.26 81 77 67 0 0 0 KAHULUI 84 72 85 68 78 3 0.13 -0.41 0.12 2.15 67 11.96 78 76 69 0 0	1 0 7 3
	3 1
	2 0
LIHUE 81 73 83 71 77 2 0.10 -0.98 0.06 1.35 12 12.08 35 83 72 0 0 0 1D BOISE 52 34 61 29 43 6 0.00 -0.33 0.00 1.58 60 6.55 62 72 47 0 3	5 0 0
LEWISTON 48 37 49 33 42 4 0.14 -0.14 0.09 3.75 135 13.38 117 87 74 0 0	4 0
POCATELLO 50 26 60 18 38 6 0.16 -0.09 0.08 5.50 199 12.75 113 84 66 0 6	2 0
IL CHICAGO/O'HARE 42 29 47 22 36 -1 0.23 -0.46 0.21 6.18 72 33.15 99 86 65 0 5 MOLINE 45 29 53 18 37 1 0.17 -0.43 0.16 4.85 58 34.27 97 82 60 0 5	2 0 2
PEORIA 44 32 50 22 38 1 0.49 -0.23 0.47 10.10 120 35.11 106 91 62 0 3	2 0
ROCKFORD 42 30 49 19 36 2 0.36 -0.25 0.29 5.73 69 32.15 94 86 69 0 3	2 0
SPRINGFIELD 47 34 52 23 41 2 0.17 -0.49 0.17 4.73 60 40.58 125 86 57 0 3 IN EVANSVILLE 50 34 54 22 42 -1 0.58 -0.44 0.57 5.78 62 44.24 110 78 59 0 3	1 0 2 1
FORT WAYNE 41 31 46 22 36 -2 0.71 0.02 0.70 10.59 133 34.40 103 87 68 0 3	2 1
INDIANAPOLIS 44 32 49 23 38 -2 0.64 -0.21 0.63 8.26 95 43.27 116 87 65 0 3	2 1
SOUTH BEND 43 32 50 28 38 1 0.19 -0.61 0.00 8.12 82 42.53 118 *** *** 0 4	2 0
IA BURLINGTON 45 31 51 21 38 1 0.08 -0.55 0.07 7.04 80 31.28 88 91 58 0 4 CEDAR RAPIDS 42 27 53 16 35 2 0.37 -0.13 0.27 11.18 151 41.57 132 98 67 0 4	2 0 2
DES MOINES 46 33 61 22 40 6 0.63 0.20 0.51 7.13 94 32.46 98 83 66 0 2	2 1
DUBUQUE 39 28 47 19 34 1 0.54 -0.02 0.35 8.78 107 37.94 113 85 69 0 4	2 0
SIOUX CITY	2 1 2 0
KS CONCORDIA 53 31 63 25 42 4 0.12 -0.18 0.12 3.47 62 29.68 108 91 71 0 4	1 0
DODGE CITY 61 31 66 21 46 7 0.00 -0.19 0.00 0.76 19 22.77 106 78 32 0 5	0 0
GOODLAND 56 24 71 19 40 5 0.11 -0.04 0.11 2.74 95 16.78 87 84 44 0 7 TOPEKA 57 35 62 25 46 6 0.09 -0.40 0.09 9.25 106 42.14 124 83 60 0 3	1 0

Based on 1971-2000 normals

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending November 26, 2016

	TEMPERATURE °F				DECIDITATION						NUMBER OF DAYS		AYS							
	STATES		ГЕМБ	PERA	TUR	E °	F								IDITY CENT	TEN	IP. °F	PRECIF	ECIP	
S	AND STATIONS	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 SEP 1	PCT. NORMAL SINCE SEP 1	TOTAL, IN., SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
KY	WICHITA JACKSON	61 51	34 33	71 63	28 24	48 42	7 -4	0.05 0.01	-0.33 -1.03	0.05 0.01	13.53 3.24	194 31	49.87 44.24	173 100	85 79	53 45	0	4	1	0
	LEXINGTON	49	32	61	21	40	-4	0.13	-0.73	0.12	3.04	35	38.05	92	79	56	0	4	2	0
	LOUISVILLE PADUCAH	52	35	65 57	27	43 44	-2	0.32	-0.62	0.32	3.69	41	37.36	93	78 97	44	0	3	1	0
LA	BATON ROUGE	53 73	35 42	57 79	23 32	58	0 1	0.60 0.12	-0.54 -1.04	0.57 0.12	2.05 3.66	19 29	45.71 77.88	104 136	87 96	49 38	0	4	2	1 0
	LAKE CHARLES	72	46	78	36	59	1	0.63	-0.49	0.63	4.95	36	61.87	119	94	46	0	0	1	1
	NEW ORLEANS	70	49	79	38	60	0	0.00	-1.30	0.00	6.80	53	62.21	107	95	54	0	0	0	0
ME	SHREVEPORT CARIBOU	68 37	43 31	76 49	32 28	55 34	1 6	2.46 1.43	1.39 0.71	2.44 0.66	4.46 7.72	38 87	54.83 38.82	119 115	93 92	52 80	0	1 5	2 6	1
	PORTLAND	42	30	50	27	36	0	0.56	-0.51	0.35	11.83	100	35.36	86	87	66	0	5	5	0
MD	BALTIMORE	51	32	57	23	42	-2	0.00	-0.74	0.00	5.36	55	36.45	96	76	42	0	3	0	0
MA	BOSTON WORCESTER	45 39	34 29	49 45	30 25	39 34	-4 -3	0.15 0.56	-0.76 -0.40	0.07 0.36	8.19 11.78	77 92	28.46 35.17	74 79	86 88	62 62	0	3 5	3	0
MI	ALPENA	37	26	42	17	32	0	1.03	0.58	0.61	6.60	96	27.29	104	88	69	0	5	4	1
	GRAND RAPIDS	39	31	43	21	35	-1	0.81	-0.01	0.50	11.12	112	42.87	126	86	66	0	4	3	1
	HOUGHTON LAKE LANSING	34	26	38	18	30	-2 -1	0.50	0.03	0.35	6.74	94	30.34	115	87	74 64	0	5	4	0
Ī	MUSKEGON	39 41	29 33	44 47	20 22	34 37	-1 1	0.60 0.67	-0.03 -0.08	0.50 0.30	9.00 11.00	112 121	32.47 36.15	112 121	82 84	64 67	0	5 3	3	1 0
Ī	TRAVERSE CITY	38	32	43	27	35	0	0.16	-0.45	0.07	7.67	87	27.14	89	86	64	0	4	4	0
MN	DULUTH INT'L FALLS	33	26	37	10	29	4	0.54	0.08	0.43	6.63	78	30.56	103	91	79	0	7	3	0
	MINNEAPOLIS	33 37	21 29	38 46	8 22	27 33	7 4	0.32 0.84	0.05 0.45	0.18 0.74	6.02 10.52	97 161	26.56 36.83	115 131	94 81	75 71	0	7 5	3	0
	ROCHESTER	37	28	45	18	33	5	0.71	0.28	0.42	12.67	179	40.94	136	89	75	0	5	2	0
	ST. CLOUD	34	26	40	17	30	5	0.43	0.15	0.22	6.86	105	31.69	121	98	77	0	7	3	0
MS	JACKSON MERIDIAN	68 70	37 34	74 76	27 27	52 52	-1 -2	0.11 0.01	-1.13 -1.23	0.11 0.01	1.63 0.79	15 7	54.82 38.13	110 73	92 85	36 34	0	3	1	0
	TUPELO	63	36	70	26	49	0	0.05	-1.23	0.01	1.73	16	37.57	77	78	38	0	4	1	0
MO	COLUMBIA	50	33	55	26	42	2	0.04	-0.76	0.04	10.70	112	39.05	105	86	56	0	4	1	0
	KANSAS CITY SAINT LOUIS	54	35 35	59 57	28	44 42	5 0	0.09	-0.43	0.09	7.92	80	47.35	132	79 76	52 58	0	4 2	1 2	0
	SPRINGFIELD	50 53	35	61	28 25	44	1	0.24 0.06	-0.65 -1.03	0.15 0.05	11.43 10.00	129 83	39.90 35.62	113 87	76 84	64	0	3	2	0
MT	BILLINGS	49	31	54	25	40	9	0.00	-0.14	0.00	5.47	170	13.22	95	71	39	0	3	0	0
	BUTTE	43	20	50	13	32	8	0.02	-0.09	0.02	3.99	169	10.05	83	84	38	0	7	1	0
	CUT BANK GLASGOW	45 44	27 25	53 50	21 21	36 35	9 11	0.00	-0.08 -0.06	0.00	2.59 4.81	132 242	10.85 20.54	90 191	82 85	48 70	0	7 7	0	0
	GREAT FALLS	51	29	58	25	40	10	0.00	-0.00	0.00	4.26	161	13.56	96	66	29	0	6	0	0
	HAVRE	49	24	55	20	37	11	0.00	-0.08	0.00	5.32	271	18.81	174	87	56	0	7	0	0
NE	MISSOULA GRAND ISLAND	44	27	49	22	36	7	0.02	-0.20	0.01	4.24	158	12.47	100	91	75	0	7	2	0
INE	LINCOLN	47 50	29 31	59 60	24 21	38 40	5 5	0.26 0.38	-0.04 0.05	0.21 0.38	3.75 5.70	73 91	23.15 28.09	92 103	94 87	74 66	0	5	2	0
	NORFOLK	45	27	57	22	36	4	0.38	0.08	0.29	5.31	102	30.18	117	88	69	0	5	3	0
	NORTH PLATTE OMAHA	51	23	60	17	37	5	0.19	0.06	0.19	3.25	101	22.41	117	91	46	0	7	1	0
	SCOTTSBLUFF	48 55	33 22	57 67	23 14	40 38	6 7	0.47 0.12	0.08 -0.05	0.47 0.12	6.57 1.85	94 64	32.90 15.16	113 97	77 80	64 58	0	3 6	1	0
	VALENTINE	50	24	60	18	37	7	0.00	-0.14	0.00	4.69	136	27.22	143	88	60	0	7	0	0
NV	ELY	49	21	56	5	35	4	0.16	0.05	0.12	1.14	46	10.00	107	64	49	0	5	3	0
	LAS VEGAS RENO	65 53	46 29	69 60	41 22	56 41	4 3	0.00 0.06	-0.06 -0.13	0.00 0.05	0.23 2.49	31 167	3.94 7.74	99 121	39 72	28 58	0	0 5	0 2	0
	WINNEMUCCA	50	26	58	22	38	3	0.22	0.05	0.18	2.52	140	7.10	97	82	58	0	7	2	0
NH	CONCORD	41	30	50	27	36	1	0.47	-0.33	0.18	10.70	110	28.91	85	82	64	0	6	5	0
NJ NM	NEWARK ALBUQUERQUE	48 54	37 35	55 60	33 30	43 45	-1 3	0.16 0.36	-0.77 0.25	0.15 0.36	8.60 2.80	82 108	33.21 6.16	79 69	69 74	52 38	0	0	2	0
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Based on 1971-2000 normals

*** Not Available

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending November 26, 2016

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Based on 1971-2000 normals *** Not Available

National Agricultural Summary

November 21 - 27, 2016

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Above-average temperatures were recorded during the week from the Northwest to the Great Plains. Most locations in Montana and North Dakota noted average temperatures more than 8°F above normal. Conversely, many areas across the eastern one-third of

the nation reported below-normal temperatures. Precipitation was generally near or below normal for the week, with scattered rain and snow causing delays in fall fieldwork in parts of the Corn Belt, Delta, and Northeast.

Winter Wheat: By November 27, ninety-two percent of the nation's winter wheat was emerged, equal to both last year and the 5-year average. Emergence was at least 92 percent complete in twelve of the eighteen estimating states. Overall, 58 percent of the winter wheat was reported in good to excellent condition, unchanged from last week but 3 percentage points above the same time last year.

Cotton: Producers had harvested 77 percent of this year's cotton by November 27, equal to last year but 7 percentage points behind the 5-year average. In Texas, cotton harvest was ongoing across the Plains and Trans-Pecos and finishing up on the Edwards Plateau. Texas farmers harvested

15 percent of the cotton during the week, bringing the overall total to 62 percent harvested by week's end—14 percentage points behind the state's 5-year average.

Sorghum: Nationally, 96 percent of the sorghum was harvested by week's end, slightly behind last year but equal to the 5-year average. Harvest was complete in Arkansas, Louisiana, Missouri, Nebraska, and South Dakota.

Other Crops: Producers had harvested 98 percent of the nation's sunflower crop by November 27, equal to last year but 4 percentage points ahead of the 5-year average. All estimating states were ahead of their 5-year average harvesting pace by week's end.

Week Ending November 27, 2016

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

Cotton Percent Harvested							
	Prev Prev Nov 27 5-Yr						
	Year	Week	2016	Avg			
AL	84	90	94	89			
AZ	74	65	72	69			
AR	100	100	100	100			
CA	100	80	90	98			
GA	71	87	93	80			
KS	67	54	69	74			
LA	100	100	100	100			
MS	98	100	100	99			
MO	95	100	100	93			
NC	81	79	84	87			
ок	74	65	72	72			
sc	62	77	86	81			
TN 94 97 100 91							
TX	71	47	62	76			
VA	93	94	96	93			
15 Sts 77 67 77 84							
These 15 States harvested 98% of last year's cotton acreage.							

Sorghum Percent Harvested							
Prev Prev Nov 27 5-Yr							
	Year	Week	2016	Avg			
AR	100	100	100	100			
СО	98	98	99	95			
IL	100	92	95	99			
KS	96	95	97	97			
LA 100 100 100 10							
MO 95 95 100 97							
NE	96	98	100	99			
NM	89	52	54	77			
ок	96	95	96	93			
SD 96 99 100 98							
TX 96 91 94 94							
11 Sts 97 94 96 96							
These 11 States harvested 98%							
of last year's sorghum acreage.							

Sunflowers Percent Harvested								
Prev Prev Nov 27 5-Yr								
Year Week 2016 Avg								
CO 93 92 97 96								
KS	94	89	95	94				
ND 99 92 97 94								
SD 99 97 99 95								
4 Sts	4 Sts 98 94 98 94							
These 4 States harvested 84%								

of last year's sunflower acreage.

Winter Wheat Percent Emerged							
Prev Prev Nov 27 5-Yr							
	Year	Week	2016	Avg			
AR	84	82	87	90			
CA	66	71	81	60			
СО	100	97	99	99			
ID	94	93	97	98			
IL	99	90	96	96			
IN	99	92	95	96			
KS	98	94	96	98			
MI	100	90	92	98			
MO	94	76	84	86			
MT	98	94	95	91			
NE	100	99	100	99			
NC	54	50	59	59			
ОН	100	91	96	96			
ок	96	92	96	96			
OR	78	75	83	88			
SD	100	99	100	93			
TX	78	79	80	81			
WA	86	91	94	95			
18 Sts 92 89 92 92							
These 18 States planted 90%							
of last year's winter wheat acreage.							

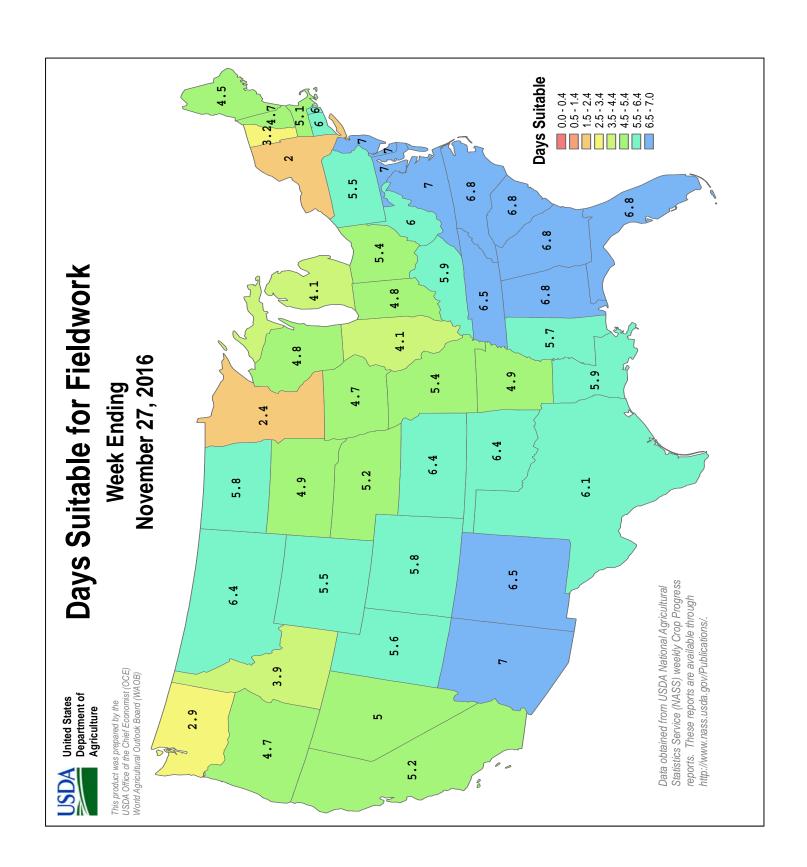
V	Vinter V	Vheat	Cond	ition by	,	
•	Winter Wheat Condition by Percent					
	VP	Р	F	G	EX	
AR	5	10	35	40	10	
CA	0	0	0	25	75	
СО	3	12	38	41	6	
ID	0	0	22	55	23	
IL	3	2	25	56	14	
IN	2	4	26	53	15	
KS	3	10	35	45	7	
MI	2	3	27	52	16	
МО	3	6	33	51	7	
MT	0	2	21	49	28	
NE	2	11	34	48	5	
NC	1	12	29	56	2	
ОН	0	1	12	61	26	
OK	3	9	35	46	7	
OR	1	3	14	65	17	
SD	1	8	40	46	5	
TX	4	12	43	34	7	
WA	0	1	8	74	17	
18 Sts	2	8	32	47	11	
Prev W	/k 2	8	32	47	11	
Prev Y	r 2	7	36	44	11	

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

> NA - Not Available * Revised

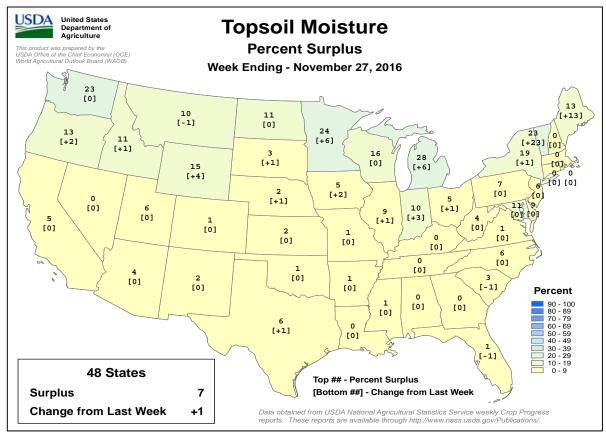
Week Ending November 27, 2016

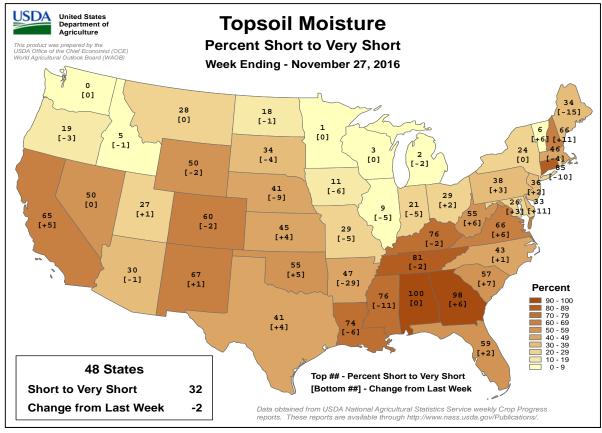
Weekly U.S. Progress and Condition Data provided by USDA/NASS



Week Ending November 27, 2016

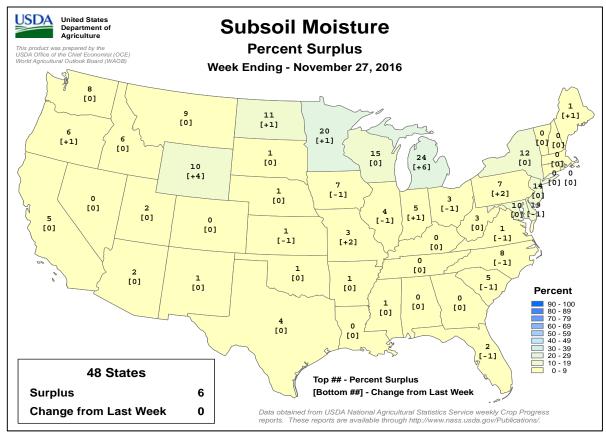
Weekly U.S. Progress and Condition Data provided by USDA/NASS

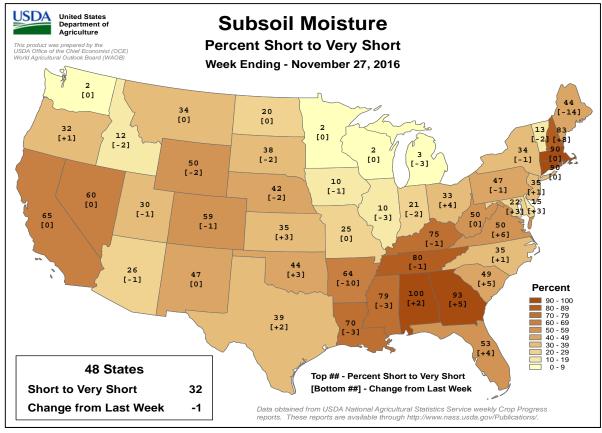




Week Ending November 27, 2016

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





International Weather and Crop Summary

November 20-26, 2016 International Weather and Crop Highlights and Summaries provided by USDA/WAOB

HIGHLIGHTS

EUROPE: Mild, dry weather over central and eastern Europe contrasted with beneficial rain in the west.

WESTERN FSU: Cold, dry weather promoted late summer crop harvesting and ushered southern-most winter wheat into dormancy.

MIDDLE EAST: Drought centered over Turkey expanded southeastward was now adversely impacting most of the region's major winter grain areas.

NORTHWESTERN AFRICA: Moderate to heavy rain alleviated drought concerns in Morocco.

EASTERN ASIA: Bitter cold descended onto winter crops in eastern China, forcing some crops into early dormancy.

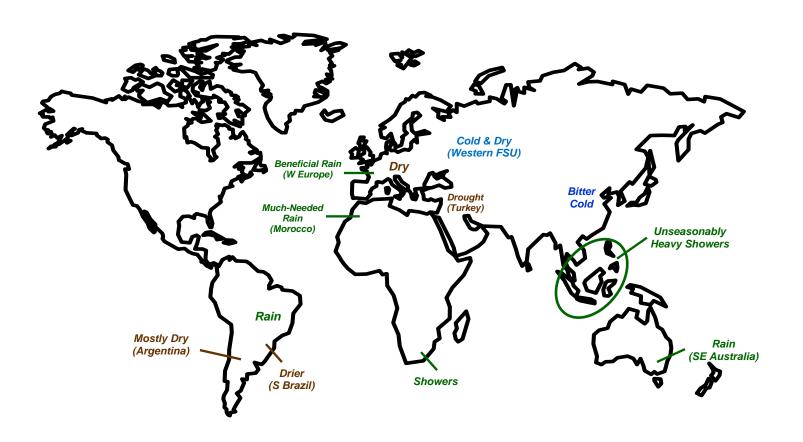
SOUTHEAST ASIA: Unseasonably heavy showers continued across much of the region, keeping crops well watered but slowing fieldwork.

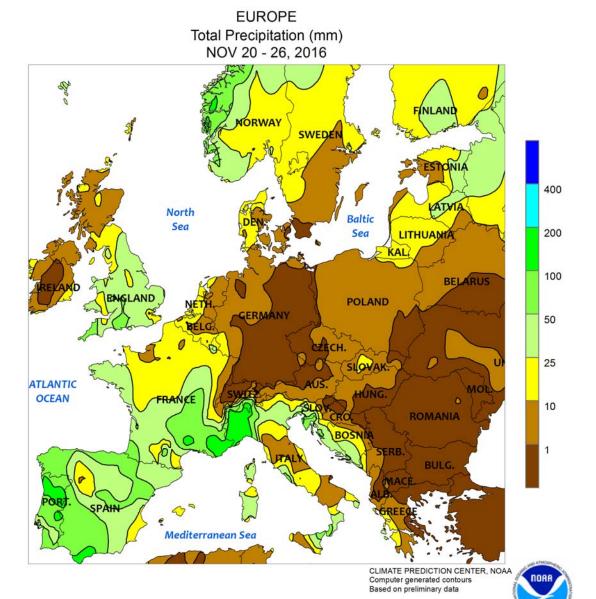
AUSTRALIA: Aside from some rain in the southeast, dry weather favored winter crop maturation and harvesting in the wheat belt.

SOUTH AFRICA: Showers maintained overall favorable conditions for planting corn and other rain-fed summer crops.

ARGENTINA: Mostly dry weather favored corn and soybean planting.

BRAZIL: Seasonal showers continued across northern farming areas but drier conditions intensified in the south.



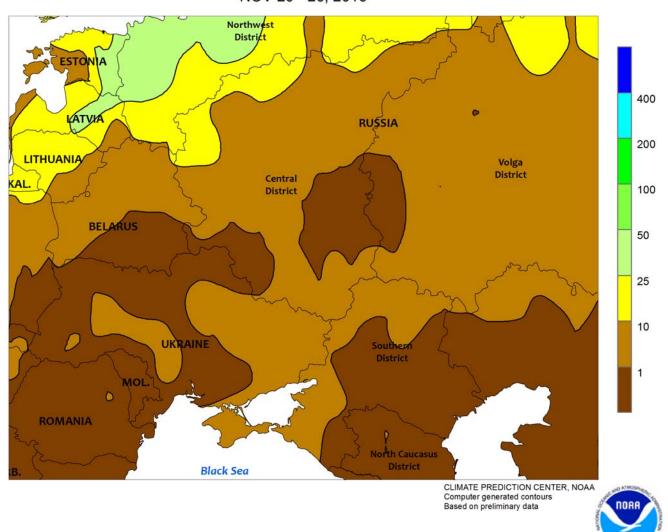


EUROPE

Beneficial rainfall over western Europe contrasted with dry, mild conditions in central and eastern portions of the continent. A series of storms generated widespread rain (10-75 mm) across France and England, boosting soil moisture for vegetative winter wheat and rapeseed. Moderate to heavy rain (25-150 mm) on the Iberian Peninsula recharged reservoirs and improved soil moisture for winter wheat and barley establishment. However, a persistent southerly fetch

off the Mediterranean Sea interacted with elevated terrain, resulting in heavy rain (50-200 mm) and localized flooding in southeastern France and adjacent portions of northern Italy. Meanwhile, mostly sunny skies and above-normal temperatures (3-7°C above normal) were favorable for dormant winter crops from Germany into Poland and the Balkans. At week's end, winter crop areas remained devoid of a protective snow cover.

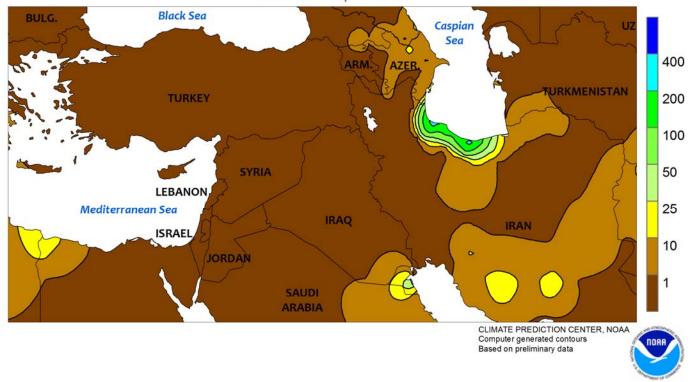
WESTERN FSU Total Precipitation (mm) NOV 20 - 26, 2016



WESTERN FSU

Cold, dry weather prevailed over much of the region. Colderthan-normal weather (2-8°C below normal) kept winter crops dormant from central Ukraine into central Russia and ushered winter wheat into dormancy along the Black Sea Coast. Sunny skies prevailed, encouraging the final stages of corn harvesting in Ukraine. Overall, winter crops entered dormancy in favorable condition, although snow cover remained shallow (less than 10 cm) and confined to northern winter wheat areas.

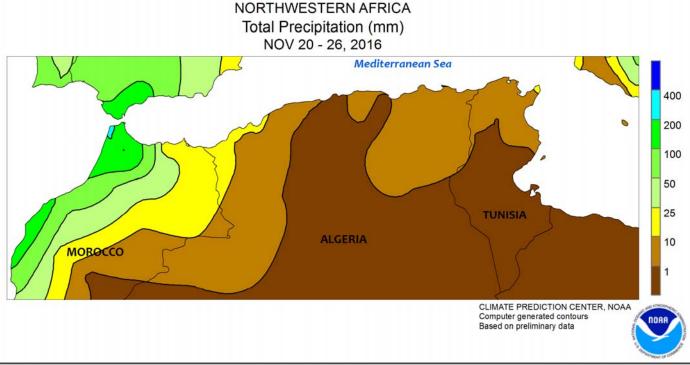
MIDDLE EAST Total Precipitation (mm) NOV 20 - 26, 2016



MIDDLE EAST

Drought over Turkey expanded to the south and east, adversely impacting winter crop establishment over much of the region. In Turkey, the last appreciable rain was during the third week of September, with season-to-date precipitation (since September 1) averaging 30 percent of normal or less. Compounding the drought's impacts, weekly average temperatures below 5°C on central Turkey's Anatolian Plateau indicated crops were now dormant and would subsequently be reliant on winter precipitation for spring emergence and establishment. Although autumn dryness does not necessarily result in low

winter grain yields, a lack of emergence or establishment will have an impact on final wheat production. Similarly, dry, colder-than-normal conditions (2-4°C below normal) prevailed across Syria and Iraq, with recent dryness (less than 25 percent of normal rainfall over the past 60 days) limiting soil moisture available for winter grain planting. In Iran, bitter cold (-18 to -10°C) hastened winter grains into dormancy, with crops poorly established due to autumn dryness. Furthermore, there may have been localized burnback or winterkill due to a lack of snow cover, especially in western portions of the country.

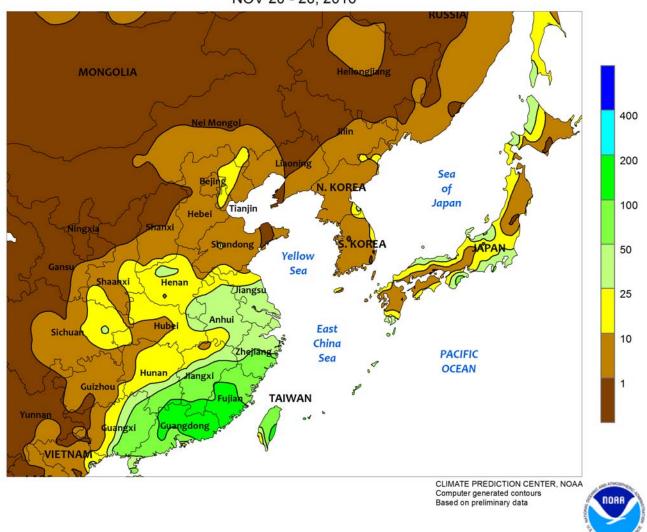


NORTHWESTERN AFRICA

Heavy rain in western growing areas alleviated drought concerns, while light showers elsewhere favored winter grain establishment. A series of Atlantic storms generated moderate to heavy rain (25-200 mm, locally more) in Morocco, eliminating short-term drought and providing welcomed soil

moisture for winter wheat and barley establishment. The rain also likely caused localized flooding, particularly in areas close to the coast. Farther east, scattered light showers (9 mm or less) in Algeria and Tunisia maintained soil moisture for winter grain planting and establishment.

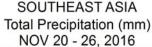
EASTERN ASIA Total Precipitation (mm) NOV 20 - 26, 2016

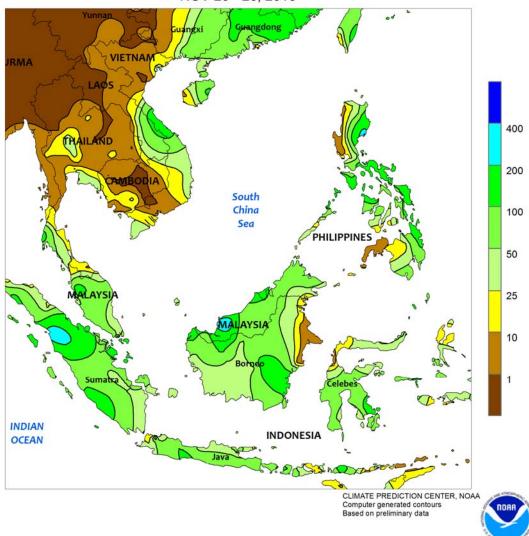


EASTERN ASIA

An arctic blast descended onto winter crop areas in eastern China mid-week forcing wheat and northern rapeseed into early dormancy. Isolated areas reported minimum temperatures as low as -10°C and temperatures averaged 3 to 5°C below normal for the week. In addition to the cold, light snow (up to 25 mm of liquid equivalent) was reported on

portions of the North China Plain, with rain (25-100 mm or more) occurring in the Yangtze Valley and across the southeast. Temperatures rebounded by the end of the period, with minimum temperatures in most winter crop areas inching above freezing. Crop conditions were good to excellent prior to the onset of bitter cold and little damage was expected.



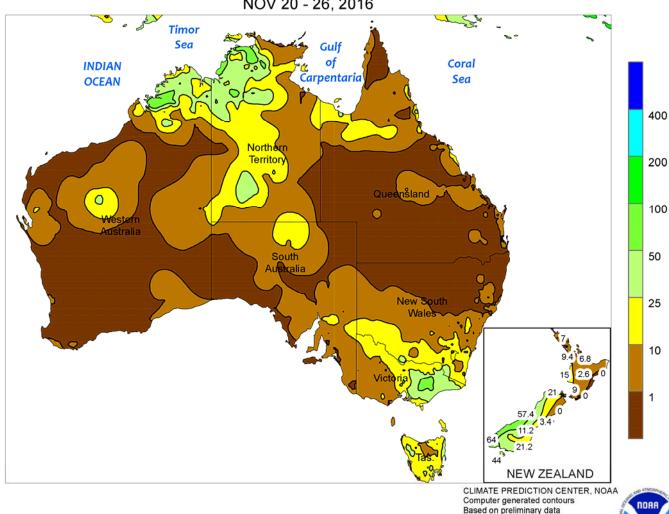


SOUTHEAST ASIA

Heavy showers continued across large sections of the region. In central Vietnam, over 150 mm of rain was reported but occurred outside of major rice areas, although delays in coffee harvesting persisted. Seasonal rice sowing continued throughout Vietnam and the remainder of Indochina, where irrigation supplies remained favorable. In the Philippines, Tropical Storm Tokage enhanced monsoon showers, with most regions receiving over 50 mm of rain (over 200 mm in eastern areas). The recent increase in rainfall has eradicated long-term moisture deficits in the

northeastern Philippines and benefited winter-grown rice and corn. To the south, similar long-term moisture deficits in Malaysia and Indonesia have vanished following intense rainfall over the last several weeks. Over 50 mm of rain across oil palm areas during the current period continued the wet pattern, keeping trees well watered but slowing harvesting and transportation of fruit bunches. Meanwhile, above-normal rainfall (25-50 mm or more) continued in Java, Indonesia, maintaining favorable soil moisture and irrigation supplies for main-season rice.

AUSTRALIA Total Precipitation (mm) NOV 20 - 26, 2016

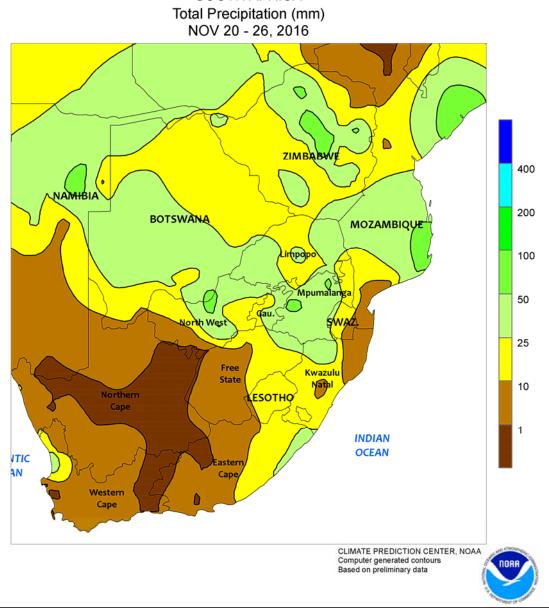


AUSTRALIA

During the first half of the week, a band of rain (generally 5-25 mm) slowed winter crop drydown and likely interrupted fieldwork in southern New South Wales, northern and eastern Victoria, and eastern parts of South Australia. Otherwise, warm, dry weather covered Australia's wheat belt, maintaining good to excellent yield prospects for winter grains and oilseeds.

Specifically, the warm, sunny weather favored wheat, barley, and canola maturation and harvesting and helped spur the emergence and establishment of cotton, sorghum, and other summer crops. Temperatures averaged near to slightly above normal (up to 1°C above normal) throughout the wheat belt, helping to promote early summer crop development.

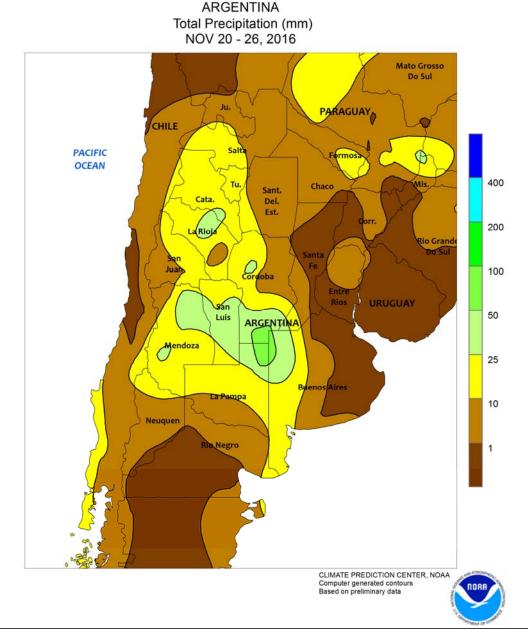
SOUTH AFRICA



SOUTH AFRICA

Conditions remained favorable for planting corn and other rain-fed summer crops in key commercial farming areas. Rainfall totaled 10 to 50 mm from North West to Mpumalanga, northward into Limpopo; somewhat lighter amounts (less than 25 mm) were recorded in eastern Free State. In the east, the rainfall maintained favorable levels of moisture for germination and establishment of summer crops while farther west, the moisture helped to condition soils for upcoming plantings. Weekly average temperatures were near normal, with daytime highs ranging from the upper 20s (degrees C) in the east to the lower 30s in the

west, with temperatures briefly reaching the upper 30s in outlying production areas of Limpopo. Elsewhere, mostly dry (rainfall totaling 5-25 mm), seasonably warm weather prevailed in sugarcane regions of KwaZulu-Natal and eastern Mpumalanga, spurring rapid growth but elevating crop moisture demands. Light showers (less than 25 mm) fell in eastern sections of Eastern Cape and nearby locations in southern KwaZulu-Natal but warmth and dryness dominated the remainder of the Cape Provinces, spurring rapid early development of corn, cotton, and other irrigated summer row crops.

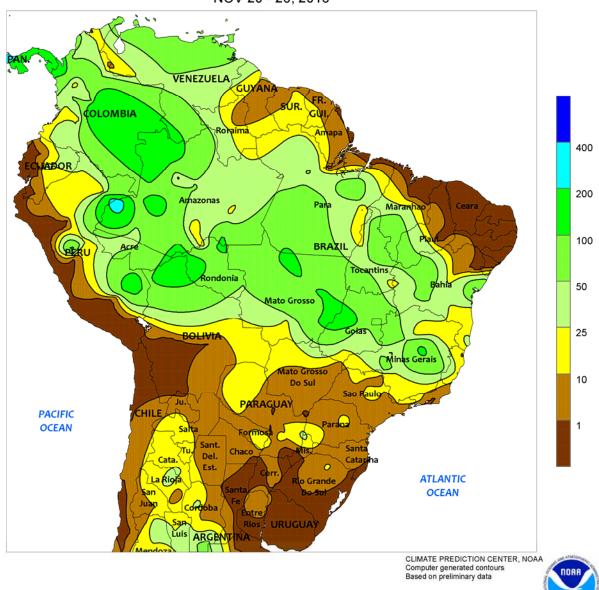


ARGENTINA

Dry weather spurred corn and soybean planting in eastern and northern farming areas. Little to no rain fell from eastern Buenos Aires northward through Chaco and Formosa. Rainfall also tapered off from the previous week in northwestern agricultural areas, with amounts ranging from 5 to 25 mm from northern Cordoba to Salta. In contrast to the generally dry weather dominating the region, locally heavy showers (25-50 mm, locally higher) returned to northern La Pampa and nearby locations in southern Cordoba and northwestern Buenos Aires; these areas had experienced earlier fieldwork delays from wetness, making the heavy rain unwelcome. Throughout the region, weekly

average temperatures were variable but close to normal, averaging more than 1°C below normal in far northern and western agricultural districts and 1°C above normal in the far south. Daytime highs ranged from the lower 30s (degrees C) in central Argentina (La Pampa, Buenos Aires, and southern sections of Cordoba, Santa Fe, and Entre Rios) to the upper 30s and lower 40s to the north. According to the government of Argentina, sunflowers and corn were 88 and 48 percent planted, respectively, as of November 24, similar to last year's pace for both crops. Soybeans were 39 percent harvested, 6 points behind last year. Meanwhile, wheat was 15 percent harvested versus 18 percent last year.

BRAZIL
Total Precipitation (mm)
NOV 20 - 26, 2016



BRAZIL

Seasonal showers continued across major summer row crop areas of central and northeastern Brazil. Rainfall totaling more than 50 mm covered large sections of Mato Grosso, Goias, and the interior northeast (much of Tocantins and nearby locations of Piaui and Maranhao). Other northern locations — including western Bahia — received at least 25 mm. The rainfall extended eastward through Minas Gerais and Bahia, boosting moisture reserves for coffee, cocoa, and other plantation crops. Daytime highs reaching the middle and upper 30s (degrees C) maintained high moisture demands of emerging to vegetative soybeans and cotton. According to the government of Mato

Grosso, soybean planting was virtually complete (about 98 percent) as of November 24. In contrast to the abundant northern rainfall, unseasonable warmth and dryness continued in southern farming areas (Mato Grosso do Sul and Sao Paulo southward), reducing moisture available for establishment of first-crop corn and soybeans; little to no rain fell over much of the area and daytime highs reached the middle 30s in western farming areas. According to reports emanating from Parana, corn and soybean planting was nearing completion as of November 21 and the earliest-planted portions of the crop were already in reproductive phases of development.

Smoke from dozens of Southeastern wildfires shrouded skies and reduced air quality for much of November. The Moderate Resolution Imaging Spectroradiometer (MODIS) aboard NASA's Aqua satellite captured this true-color image on November 16, when smoke drifted generally southeastward from wildfire "hot spots" in the southern Appalachians toward the southern Atlantic Coast and beyond. Nearly 2 weeks later, on November 28, a final flurry of wind-driven wildfires caused extensive damage and numerous evacuations in and near Gatlinburg, TN. Meanwhile in Tuscaloosa, AL, where 1.45 inches of rain fell on November 28, a record-setting streak without measurable precipitation ended at 71 days (September 18 – November 27)



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

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