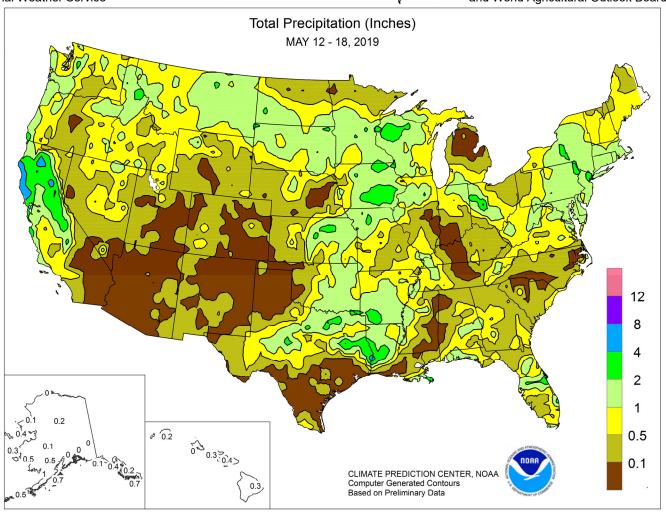
WEEKLY MATHER AND CROP BULLETIN

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 May 12 – 18, 2019 Highlights provided by USDAWAOB

brief hull in the everall

Midwestern producers were able to make some modest progress in corn and soybean planting. However, the combination of lingering wetness and occasional showers led to less-than-optimal conditions for Midwestern fieldwork. In fact, some Midwestern locations received at least 1 to 2 inches of rain, especially during the second half of the week. Meanwhile, cold, showery weather returned across the northern Plains, following a brief period of warm, dry weather that had favored spring wheat planting

(Continued on page 7)

Contents
Water Supply Outlook for the Western U.S2
Crop Moisture Maps4
May 14 Drought Monitor &
U.S. Seasonal Drought Outlook5
Extreme Maximum & Minimum Temperature Maps6
Temperature Departure Map7
Growing Degree Day Maps8
Soil Temperature & Pan Evaporation Maps10
National Weather Data for Selected Cities11
National Agricultural Summary14
Crop Progress and Condition Tables
International Weather and Crop Summary22
April International Temperature/Precipitation Maps35
Bulletin Information &
May 16 Satellite Image of Pacific Storminess50

Water Supply Forecast for the Western United States

Highlights

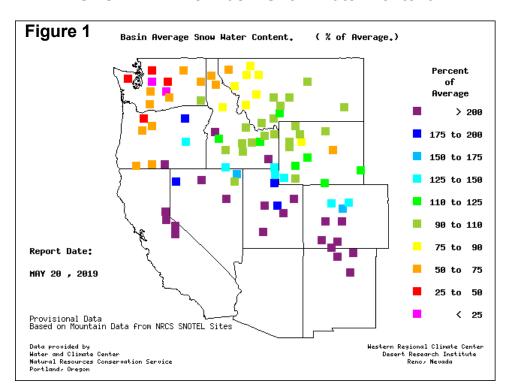
A spring warm spell in the Northwest resulted in premature melting of already belowaverage snowpack. By May 20, some of the most acute snowpack shortages, compared to normal values, were observed in the Pacific Northwest. including the northern Cascades. The snowpack deficiency, which extended eastward into parts of western Montana, has led to increasing concerns with regard to a lack of runoff and potential water-supply shortages. contrast, abundant snowpack remained in place from the Sierra Nevada eastward into higher elevations of the Four Corners States. As a result. effects of the 2017-18 Southwestern drought have been nearly eradicated, except for lingering water-supply concerns.

By May 20, 2019, basin-average snowpack was greater than 200 percent of average in a broad area stretching eastward from the Sierra Nevada. At the same time, snowpack was less than 50 percent of average in the northern Cascades and neighboring areas in Washington.

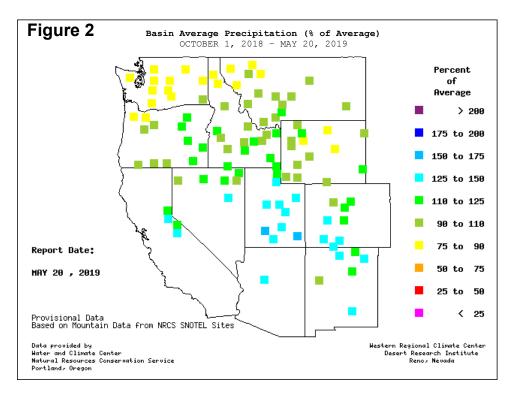
Snowpack and Precipitation

By May 20, 2019, above-average snowpack values were common from California to the central and southern Rockies (figure 1). In contrast, snowpack was significantly below average in the Pacific Northwest, where subpar accumulations were further reduced by a recent spell of warmth.

SNOTEL - River Basin Snow Water Content



SNOTEL – River Basin Precipitation



Season-to-date precipitation (October 1, 2018 – May 20, 2019) was near or above normal in most Western basins, with the most impressive totals stretching from California into the Four Corners States (figure 2). In fact, slightly below-normal values (75 to 90 percent of average) were mostly limited to the Pacific Northwest and the northernmost Rockies.

Spring and Summer Streamflow Forecasts

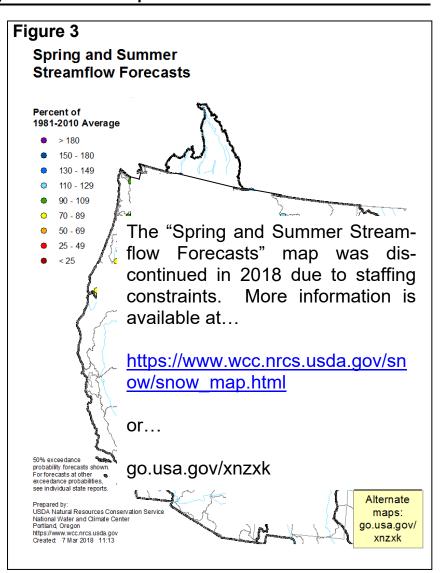
By May 1, 2019, projections for spring and summer streamflow were indicating the likelihood of a favorable melt season across much of the West. In general, some of the most optimistic runoff forecasts stretched eastward from the Sierra Nevada across the Great Basin, the Wasatch Range, and into the central and southern Rockies. However, below-average runoff has become an increasing concern from the Pacific Northwest to the northernmost Rockies, as recent warmth has prematurely begun to melt subpar snowpack.

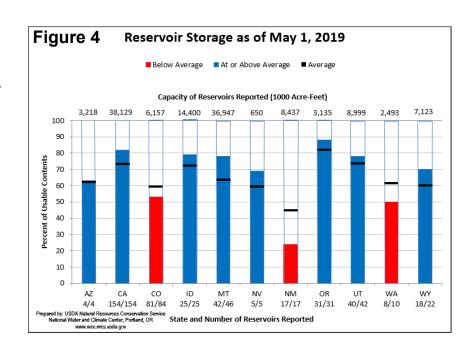
Reservoir Storage

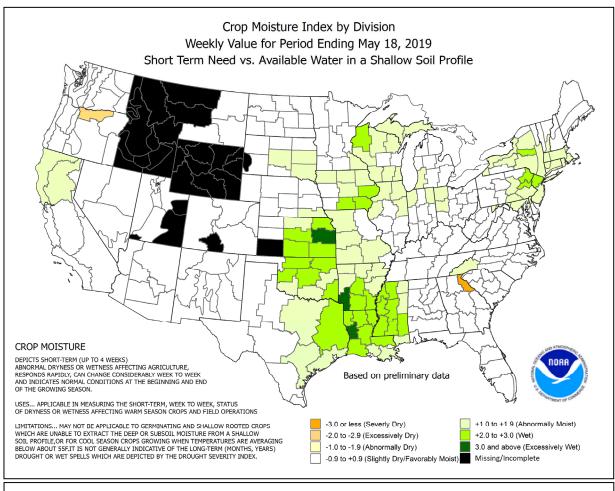
On May 1, statewide reservoir storage as a percent of average for the date was significantly below normal—just over one-half of average—in New Mexico and slightly below normal in Colorado and Washington (figure 4). Reservoir storage should improve in Colorado as abundant snowpack melts during the remainder of spring and summer. However, water-supply shortages are likely to persist in New Mexico, despite a snowy winter in many northern watersheds, and may develop in Washington, where subpar snowpack exists in most basins.

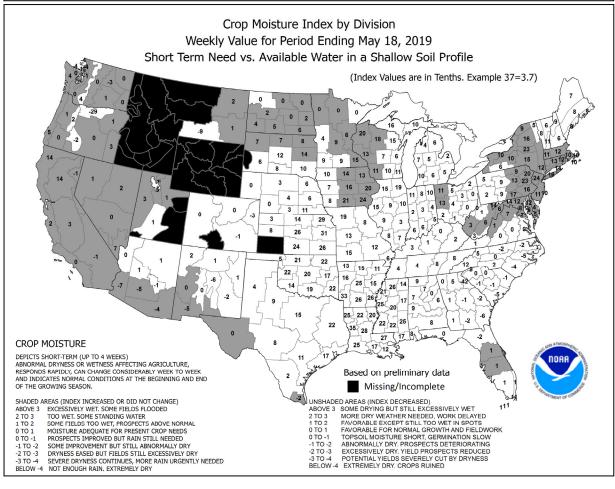
For More Information

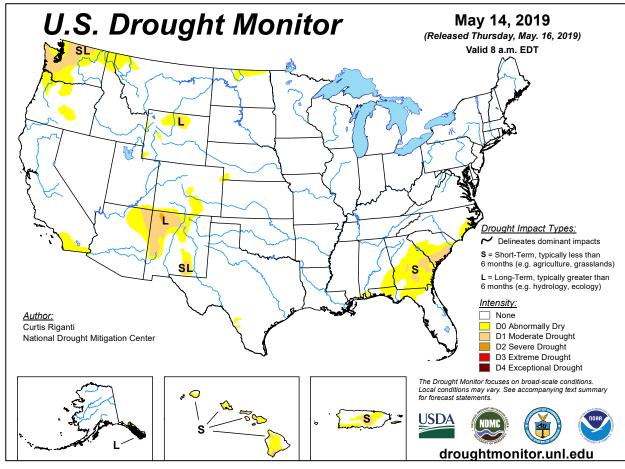
The National Water and Climate Center homepage provides the latest available snowpack and water supply information. Please visit: http://www.wcc.nrcs.usda.gov

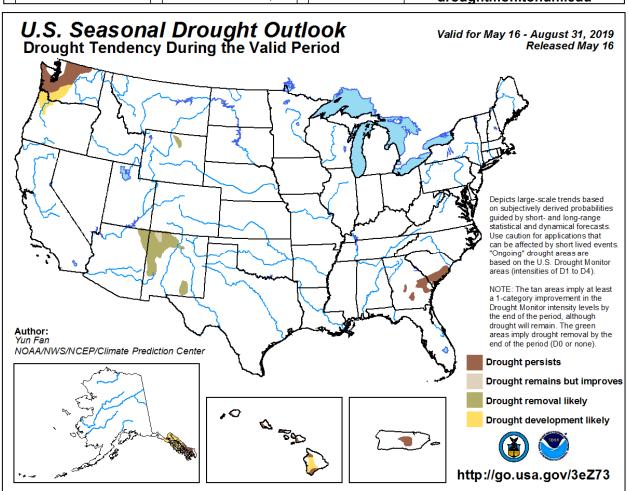


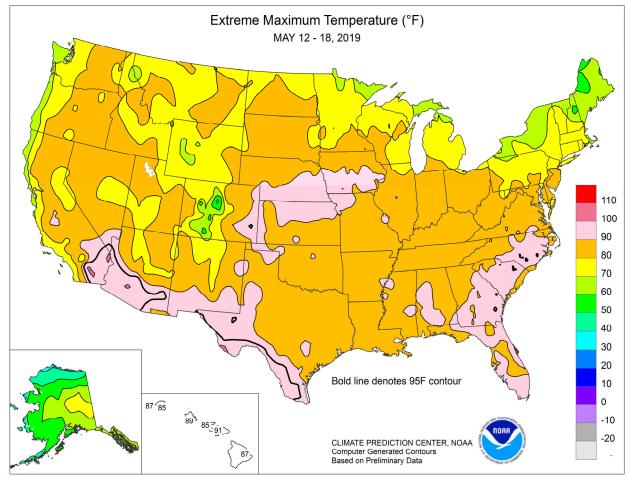


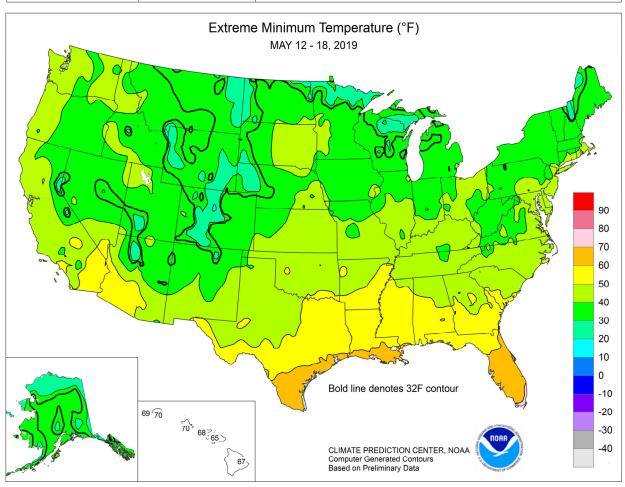












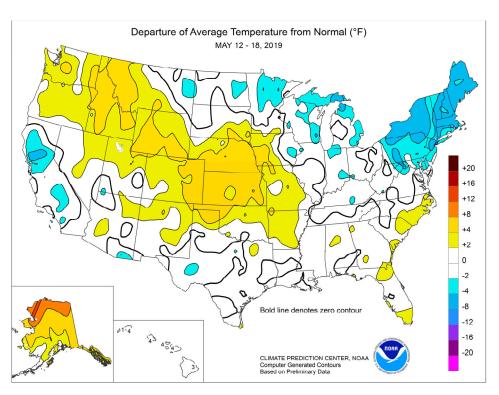
(Continued from front cover) and other fieldwork. In contrast, several days of warm, dry weather on the central and southern Plains promoted a rapid pace of fieldwork and crop development. Warmth. accompanied by several days of mostly dry weather, also extended into the Southeast. Near- or above-normal temperatures covered much of the country, with readings averaging at least 5°F above normal in many locations from the northern Rockies to the central Plains. Cooler-thannormal conditions prevailed, however, in much of California and from portions of the Great Lakes region into the Northeast. Elsewhere, outof-season storminess accompanied the surge of cool air into California, with precipitation—including significant high-elevation snow-occurring across the northern half of the state.

Unseasonably showery weather also

affected many other areas of the **western U.S.**, particularly from the **Pacific Northwest to the northern Rockies**.

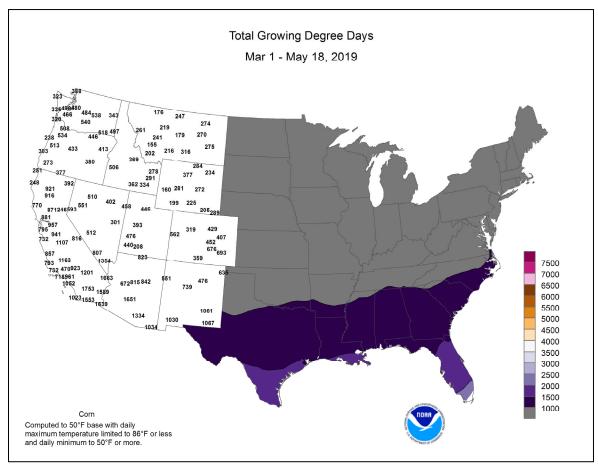
A brief period of drier weather allowed many rivers in the **upper** and middle Mississippi Valley to continue falling. On May 16, the Mississippi River at Burlington, IA, finally fell below the major flood stage of 18 feet. The 62 days (March 16 – May 16) that the Burlington gauge experienced major flooding shattered the June-August 1993 record of 41 days. Farther east, earlyweek rainfall soaked the Mid-Atlantic States and southern **New England.** In Pennsylvania, record-setting rainfall totals for May 12 included 1.66 inches in Williamsport and 1.46 inches in Allentown. Cool, showery Northeastern conditions lingered for several days, as maximum temperatures failed to reach the 50-degree mark from May 12-14 in Binghamton, NY (46, 41, and 44°F). Mount Washington, NH, New England's highest peak, received 2.9 inches of snow on May 13-14. Meanwhile, heavy precipitation developed in **northern California**, starting on May 15. Mount Shasta, CA, received 3.25 inches on May 15-16. Rain reached southern California by the 16th, when daily-record totals included 0.90 inch in Santa Barbara and 0.67 inch in Camarillo. California's Central Valley also received notable rainfall, with 0.76 inch falling in Fresno on May 16. Toward week's end, heavy showers developed across the Plains and upper Midwest. Record-setting rainfall totals for May 18 reached 2.18 inches in Dallas-Fort Worth, TX, and 2.02 inches in Cedar Rapids, IA.

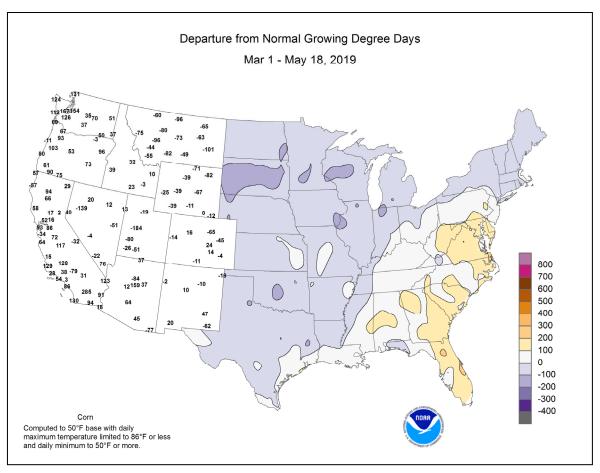
The early-week **Northeastern** cool spell extended to the **Midwest**, where maximum temperatures on May 12 did not top the 50-degree mark in **Indianapolis**, **IN** (49°F), and **Springfield**, **IL** (50°F). In contrast, very hot weather persisted across **southern Florida**, where **Miami** collected consecutive daily-record highs (94 and 95°F, respectively) on May 13-14.

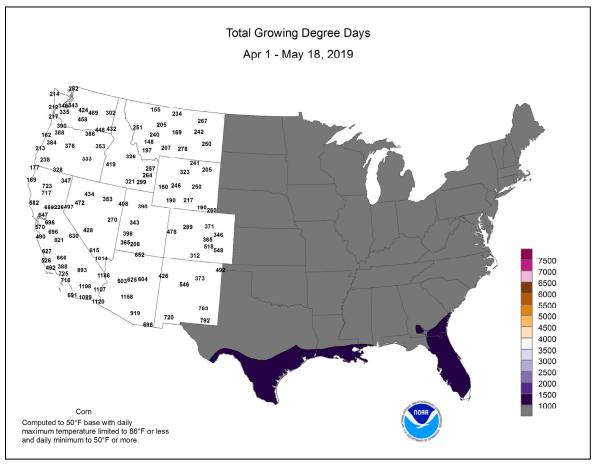


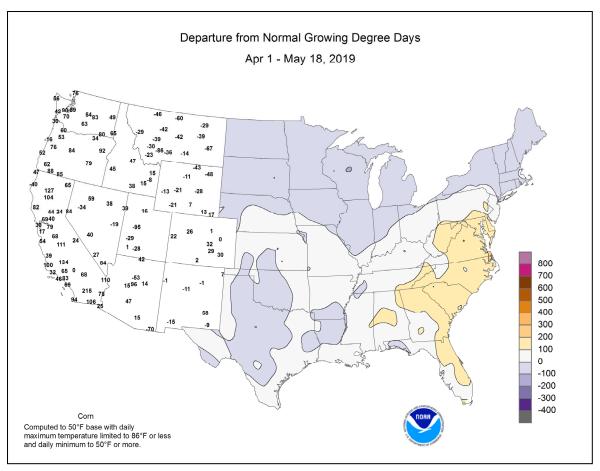
Key West, FL, set a monthly record with a high of 94°F on May 14, edging a mark originally set with a reading of 93°F on May 31, 1881. Farther west, fleeting warmth in advance of a cold front pushed temperatures to 90°F or higher on May 16 across the central Plains and western Corn Belt. Daily-record highs for the 16th rose to 95°F in Omaha, NE, and 93°F in Concordia, KS, and Saint Joseph, MO. Record-setting warmth expanded into the Southeast by May 17, when highs soared to 95°F in Florence, SC, and 93°F in Tuscaloosa, AL. Wilmington, NC, posted a daily-record high of 94°F on May 18. On the same date but on the opposite side of the country, Lancaster, CA, logged a daily-record low of 38°F. By the morning of May 19, daily-record lows on the High Plains dipped to 32°F in Pueblo, CO, and 34°F in Dalhart, TX.

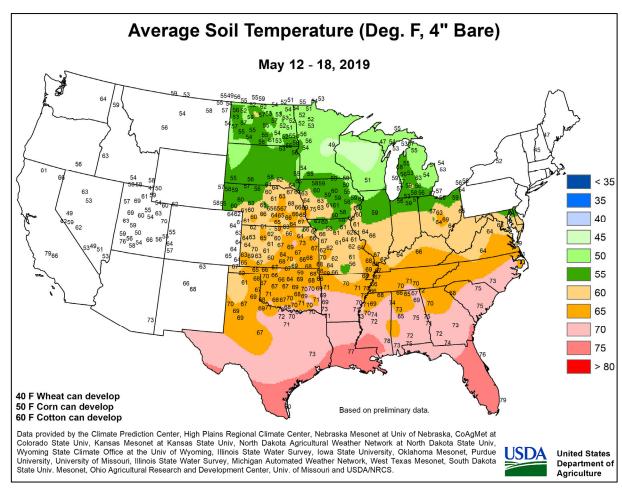
Warmer-than-normal weather again prevailed in Alaska, with weekly temperatures averaging more than 10°F above normal across the state's northern tier. On May 14, Kotzebue noted a daily-record high of 54°F. Kotzebue's snow depth decreased to 7 inches by May 18, down from a seasonal peak of 42 inches from March 7-22. Meanwhile, Alaskan precipitation was mostly limited to southern and western locations. Still, drought at various time scales continued in southeastern Alaska, where **Ketchikan's** month-to-date rainfall through May 18 totaled just 2.03 inches (45 percent of normal). Farther south, widely scattered showers accompanied Hawaiian warmth. On the Big Island, Hilo posted consecutive daily record-tying highs (85 and 86°F, respectively) on May 12-13. Similarly, Honolulu, Oahu, registered a pair of daily record-tying highs of 89°F on May 16 and 17. On Maui, Kahului notched a daily-record high of 91°F on May 18. Meanwhile, Hilo's month-to-date rainfall through May 18 totaled just 1.14 inches (22 percent of normal).

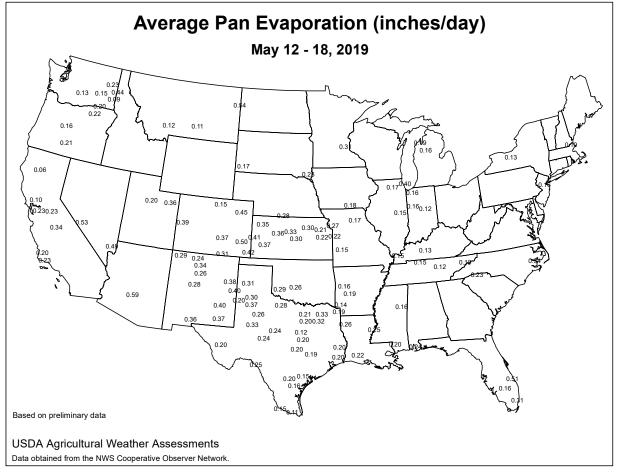












National Weather Data for Selected Cities

Weather Data for the Week Ending May 18, 2019
Data Provided by Climate Prediction Center

MONTGOMERY 85 61 90 54 73 1 2.12 1.17 2.12 13.59 103 20.59 8 AK ANCHORAGE 58 40 64 36 49 3 0.12 -0.01 0.12 2.37 160 4.05 14 BARROW 33 26 38 21 30 11 0.00 0.00 0.00 0.94 392 2.57 55 FAIRBANKS 67 43 75 35 55 7 0.37 0.28 0.35 1.62 238 3.06 19 JUNEAU 63 40 69 32 51 4 0.38 -0.39 0.31 7.68 91 17.38 10 KODIAK 51 43 56 42 47 4 0.69 -0.74 0.23 15.23 106 23.31 8 NOME 47 34 53 30 41 5 0.35 0.21 0.20 3.36 210 7.19 22 AZ FLAGSTAFF 65 35 71 26 50 0 0.05 -0.14 0.05 4.85 109 13.75 18	Data Provided by Climate Prediction Center RELATIVE NUMBER OF DAYS							
STATES		HUMIDITY						
STATIONS		PERCENT	IEM	P. °F	PRE	CIP		
HUNTSVILLE MOBILE MOBILE MORIGOMERY MOSHGE MONTGOMERY MORICOMERY MORICOMER MORICOMERY MO	AVERAGE	MAXIMUM AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE		
MOBILE 85 63 88 58 74 1 1.01 -0.40 1.01 11.74 75 21.23 8 MONTGOMERY 85 61 90 54 73 1 2.12 1.17 2.12 13.59 103 20.59 8 AK ANCHORAGE 58 40 64 36 49 3 0.12 -0.01 0.12 2.37 160 4.05 14 BARROW 33 26 38 21 30 11 0.00 0.00 0.00 0.94 392 2.57 56 FAIRBANKS 67 43 75 35 55 7 0.37 0.28 0.35 1.62 238 3.06 18 JUNEAU 63 40 69 32 51 4 0.38 -0.39 0.31 7.68 91 17.38 11 KODIAK 51 43 56 42 47 <td></td> <td></td> <td>0</td> <td>0</td> <td>2 2</td> <td>2</td>			0	0	2 2	2		
AK ANCHORAGE 58 40 64 36 49 3 0.12 -0.01 0.12 2.37 160 4.05 144 160 14.05 144 160 14.05 144 160 14.05 144 160 14.05 144 160 14.05 144 160 14.05	0 93		0	0	1	1		
BARROW 33 26 38 21 30 11 0.00 0.00 0.00 0.94 392 2.57 56 56 7 0.37 0.28 0.35 1.62 238 3.06 18 JUNEAU 63 40 69 32 51 4 0.38 -0.39 0.31 7.68 91 17.38 10 KODIAK 51 43 56 42 47 4 0.69 -0.74 0.23 15.23 106 23.31 8 NOME 47 34 53 30 41 5 0.35 0.21 0.20 3.36 210 7.19 22 124 14 15 15 15 15 15 15 15 15 15 15 15 15 15	7 92		2	0	1	1		
FAIRBANKS 67 43 75 35 55 7 0.37 0.28 0.35 1.62 238 3.06 19 10 10 10 10 10 10 10 10 10 10 10 10 10			0	0	1	0		
JUNEAU 63 40 69 32 51 4 0.38 -0.39 0.31 7.68 91 17.38 10 KODIAK 51 43 56 42 47 4 0.69 -0.74 0.23 15.23 106 23.31 8 NOME 47 34 53 30 41 5 0.35 0.21 0.20 3.36 210 7.19 22 14 15 15 15 15 15 15 15 15 15 15 15 15 15			0	7 0	0 2	0		
KODIAK NOME 51 43 56 42 47 4 0.69 -0.74 0.23 15.23 106 23.31 8 AZ FLAGSTAFF 47 34 53 30 41 5 0.35 0.21 0.20 3.36 210 7.19 22 AZ FLAGSTAFF 65 35 71 26 50 0 0.05 -0.14 0.05 4.85 109 13.75 15 PHOENIX 91 67 100 61 79 1 0.03 0.00 0.03 0.43 31 2.96 3 PRESCOTT 73 45 80 38 59 2 0.02 -0.14 0.01 2.01 65 8.44 11 TUCSON 86 58 96 52 72 -1 0.11 0.05 0.11 1.90 154 5.02 16 AR FORT SMITH 83 59 <td< td=""><td></td><td></td><td>0</td><td>1</td><td>4</td><td>0</td></td<>			0	1	4	0		
AZ FLAGSTAFF 65 35 71 26 50 0 0.05 -0.14 0.05 4.85 109 13.75 19 PHOENIX 91 67 100 61 79 1 0.03 0.00 0.03 0.43 31 2.96 9 PRESCOTT 73 45 80 38 59 2 0.02 -0.14 0.01 2.01 65 8.44 12 TUCSON 86 58 96 52 72 -1 0.11 0.05 0.11 1.90 154 5.02 16 AR FORT SMITH 83 59 88 50 71 2 0.51 -0.69 0.51 13.92 129 22.91 14 LITTLE ROCK 83 59 88 49 71 2 1.21 0.05 1.18 20.75 155 31.94 15 CA BAKERSFIELD 80 58 89 50 69 -1 0.68 0.64 0.44 3.12 161 5.70 15 FRESNO 77 57 90 51 67 -1 1.04 0.97 0.81 2.71 87 8.20 11 LOS ANGELES 69 58 73 54 64 1 0.29 0.24 0.29 2.43 78 12.37 13	3 86		0	0	7	0		
PHOENIX 91 67 100 61 79 1 0.03 0.00 0.03 0.43 31 2.96 8 9 1 0.05 0.05 0.05 0.05 0.05 0.05 0.05 0.	0 90		0	3	5	0		
PRESCOTT 73 45 80 38 59 2 0.02 -0.14 0.01 2.01 65 8.44 12 TUCSON 86 58 96 52 72 -1 0.11 0.05 0.11 1.90 154 5.02 16 AR FORTSMITH 83 59 88 50 71 2 0.51 -0.69 0.51 13.92 129 22.91 14 LITTLE ROCK 83 59 88 49 71 2 1.21 0.05 1.18 20.75 155 31.94 15 CA BAKERSFIELD 80 58 89 50 69 -1 0.68 0.64 0.44 3.12 161 5.70 13 FRESNO 77 57 90 51 67 -1 1.04 0.97 0.81 2.71 87 8.20 11 LOS ANGELES 69 58 73 54 64 1 0.29 0.24 0.29 2.43 78 12.37 13		-	0	2	1	0		
TUCSON 86 58 96 52 72 -1 0.11 0.05 0.11 1.90 154 5.02 166 AR FORT SMITH 83 59 88 50 71 2 0.51 -0.69 0.51 13.92 129 22.91 14 LITTLE ROCK 83 59 88 49 71 2 1.21 0.05 1.18 20.75 155 31.94 15 CA BAKERSFIELD 80 58 89 50 69 -1 0.68 0.64 0.44 3.12 161 5.70 13 FRESNO 77 57 90 51 67 -1 1.04 0.97 0.81 2.71 87 8.20 11 LOS ANGELES 69 58 73 54 64 1 0.29 0.24 0.29 2.43 78 12.37 13	9 43 9 71		4 0	0	1	0		
AR FORT SMITH 83 59 88 50 71 2 0.51 -0.69 0.51 13.92 129 22.91 14 LITTLE ROCK 83 59 88 49 71 2 1.21 0.05 1.18 20.75 155 31.94 15 CA BAKERSFIELD 80 58 89 50 69 -1 0.68 0.64 0.44 3.12 161 5.70 13 FRESNO 77 57 90 51 67 -1 1.04 0.97 0.81 2.71 87 8.20 11 LOS ANGELES 69 58 73 54 64 1 0.29 0.24 0.29 2.43 78 12.37 13			3	0	2	0		
LITTLE ROCK 83 59 88 49 71 2 1.21 0.05 1.18 20.75 155 31.94 15 CA BAKERSFIELD 80 58 89 50 69 -1 0.68 0.64 0.44 3.12 161 5.70 13 FRESNO 77 57 90 51 67 -1 1.04 0.97 0.81 2.71 87 8.20 17 LOS ANGELES 69 58 73 54 64 1 0.29 0.24 0.29 2.43 78 12.37 13			0	0	1	1		
FRESNO 77 57 90 51 67 -1 1.04 0.97 0.81 2.71 87 8.20 11 LOS ANGELES 69 58 73 54 64 1 0.29 0.24 0.29 2.43 78 12.37 13	7 93	93 45	0	0	2	1		
LOS ANGELES 69 58 73 54 64 1 0.29 0.24 0.29 2.43 78 12.37 13		-	0	0	2	0		
			1	0	3	1		
			0	0	1 4	0 2		
SACRAMENTO 70 52 81 50 61 -4 2.21 2.10 0.94 6.74 164 18.40 11			0	0	4	3		
SAN DIEGO 69 61 72 57 65 1 0.02 -0.01 0.02 1.82 59 8.04 10			0	0	1	0		
SAN FRANCISCO 63 53 66 50 58 0 1.35 1.27 0.59 6.01 129 17.77 13			0	0	3	1		
STOCKTON 73 53 85 49 63 -3 1.34 1.23 0.63 4.35 124 11.24 11		-	0	0	3	1		
CO ALAMOSA 69 35 75 30 52 3 0.01 -0.13 0.01 3.00 222 4.53 26 CO SPRINGS 75 43 82 33 59 5 0.03 -0.49 0.03 2.65 68 3.61 7	0 80 9 65		0	2	1	0		
DENVER INTL 76 45 83 37 61 7 0.06 -0.58 0.03 3.69 109 5.16 11			0	0	2	0		
GRAND JUNCTION 77 49 85 41 63 4 0.03 -0.19 0.02 3.85 159 5.29 15			0	0	2	0		
	8 67		1	0	0	0		
CT BRIDGEPORT 63 47 72 43 55 -3 1.74 0.83 1.20 12.21 117 19.80 11			0	0	6	2		
HARTFORD 65 45 77 40 55 -4 1.56 0.58 0.95 13.94 137 22.99 13 DC WASHINGTON 72 54 84 50 63 -2 1.31 0.44 0.59 10.20 121 17.02 13			0	0	4	1		
DE WILMINGTON 68 51 81 42 60 -1 2.03 1.08 1.07 11.01 113 18.84 1			0	0	4	2		
	2 100		1	0	1	0		
	0 90		2	0	1	0		
KEYWEST 88 78 94 75 83 3 0.54 -0.16 0.43 7.65 139 10.69 1			1	0	2	0		
MIAMI 89 75 95 72 82 3 0.80 -0.27 0.59 9.24 111 12.77 10 ORLANDO 86 68 90 65 77 0 2.68 1.96 1.27 6.36 85 11.62 9	4 81 5 87		3	0	3	1 2		
	6 92		0	0	2	1		
	5 93		3	0	3	1		
TAMPA 88 71 91 68 80 3 1.67 1.13 1.55 8.13 139 15.25 14	1 80	30 50	2	0	2	1		
WEST PALM BEACH 86 72 90 70 79 1 1 1.69 0.59 1.19 9.56 98 20.87 13		-	1	0	3	1		
GA ATHENS 81 57 91 48 69 1 0.24 -0.61 0.21 7.08 68 16.03 8 ATLANTA 80 60 88 51 70 1 0.31 -0.60 0.31 10.79 96 21.16 10	2 88 1 80		1 0	0	2	0		
	2 91		2	0	1 1	1		
	4 90		0	0	2	1		
	0 93		2	0	1	1		
	7 84		2	0	2	0		
	3 83 7 81		0	0	2 2	0		
	8 83		1	0	4	0		
LIHUE 84 74 85 70 79 4 0.15 -0.52 0.04 4.82 58 8.28 5	1 80	30 75	0	0	6	0		
ID BOISE 72 52 87 46 62 4 0.75 0.47 0.54 4.05 118 8.84 14			0	0	2	1		
LEWISTON 75 52 87 50 64 6 0.58 0.24 0.47 3.73 114 7.72 14 POCATELLO 71 42 82 35 57 4 0.44 0.10 0.21 3.72 109 7.32 13			0	0	2 5	0		
IL CHICAGO/O'HARE 69 46 80 41 58 0 0.96 0.24 0.41 12.19 148 17.06 14			0	0	4	0		
MOLINE 72 47 91 40 60 -1 2.10 1.18 0.97 12.27 136 19.05 15			1	0	4	2		
PEORIA 74 49 89 41 62 1 1.25 0.31 1.05 14.06 160 19.71 16	5 94	94 51	0	0	5	1		
ROCKFORD 69 45 78 37 57 -2 0.69 -0.17 0.52 9.92 121 16.22 14			0	0	3	1		
SPRINGFIELD 74 53 89 41 64 1 0.34 -0.56 0.28 13.32 152 19.35 15 IN EVANSVILLE 74 54 88 43 64 -1 0.07 -1.08 0.07 14.96 128 26.35 14			0	0	3	0		
IN EVANSVILLE 74 54 88 43 64 -1 0.07 -1.08 0.07 14.96 128 26.35 14 FORT WAYNE 70 48 86 38 59 0 0.71 -0.10 0.29 10.98 130 15.52 12			0	0	1 4	0		
INDIANAPOLIS 70 51 85 41 61 -1 0.87 -0.11 0.67 12.95 136 20.44 14			0	0	4	1		
SOUTH BEND 68 43 85 34 55 -3 1.27 0.53 0.55 10.94 129 15.93 12	5 92	92 61	0	0	5	1		
IA BURLINGTON 71 51 90 41 61 -1 1.11 0.13 0.37 9.37 105 13.98 1			1	0	5	0		
CEDAR RAPIDS 69 45 90 35 57 -3 3.10 2.28 2.02 9.28 124 14.15 14			1	0	4	2		
DES MOINES 74 51 91 35 63 2 3.07 2.15 1.58 8.58 106 12.39 12 DUBUQUE 69 45 85 36 57 -1 0.75 -0.15 0.72 7.71 93 14.36 13			1 0	0	5 2	3		
SIOUX CITY 76 51 90 37 64 4 0.18 -0.65 0.14 8.45 125 10.09 13			1	0	3	0		
WATERLOO 72 45 90 34 59 0 2.07 1.18 1.82 8.47 112 12.64 13			1	0	2	1		
KS CONCORDIA 81 56 93 43 69 7 2.20 1.26 1.14 9.21 132 11.58 13			1	0	2	2		
DODGE CITY 81 53 89 43 67 4 0.14 -0.51 0.09 5.62 99 7.23 10 GOODLAND 82 47 91 37 65 8 0.19 -0.59 0.18 3.60 81 4.77 8			0	0	2	0		
GOODLAND 82 47 91 37 65 8 0.19 -0.59 0.18 3.60 81 4.77 8 TOPEKA 81 56 92 43 69 6 2.19 1.12 1.91 11.30 137 14.79 14	9 81 3 86		1 1	0	2 2	0 1		

Based on 1971-2000 normals

*** Not Available

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending May 18, 2019

		TEMPERATURE 'F				for the week Ending May 18, 2019				REL	ATIVE	NUN	/IBER	OF D	AYS					
	STATES		ГЕМБ	PERA	TUR	E °	F			PREC	CIPITA	ATION	l		HUM	IDITY CENT	TEM	IP. °F	PRE	CIP
ş	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 MAR 1	PCT. NORMAL SINCE MAR 1	TOTAL, IN., SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
KY	WICHITA JACKSON	82 72	58 52	89 86	48 45	70 62	6 -1	0.23 0.65	-0.67 -0.52	0.19 0.41	9.56 8.73	130 79	11.70 21.86	127 120	83 96	55 55	0	0	2	0
	LEXINGTON	73	53	87	45	63	0	0.20	-0.87	0.17	8.71	81	20.45	118	80	57	0	0	2	0
	LOUISVILLE PADUCAH	75 76	55 53	90 87	47 40	65 65	0	0.03	-1.10 0.53	0.02 1.05	12.71 18.82	114 155	25.11 34.02	142 174	82 91	48 59	2	0	2	0
LA	BATON ROUGE	86	63	89	58	75	2	1.61 0.13	-1.07	0.09	19.42	141	26.32	105	95	46	0	0	2	2
	LAKE CHARLES	85	65	87	60	75	1	0.00	-1.35	0.00	17.66	171	25.58	134	93	52	0	0	0	0
	NEW ORLEANS	86	69	89	66	78	3	2.96	2.01	2.96	15.45	121	25.96	108	85	51	0	0	1	1
ME	SHREVEPORT CARIBOU	85 55	62 37	88 61	56 34	73 46	1 -5	0.38	-0.79 0.08	0.35 0.36	14.85 8.25	129 118	22.49 16.81	111 140	91 85	48 51	0	0	2 5	0
	PORTLAND	56	42	68	39	49	-4	0.99	0.13	0.43	9.94	93	19.42	108	82	56	0	0	4	0
MD	BALTIMORE	71	50	84	44	61	-1	1.61	0.73	0.68	10.52	116	17.71	114	87	59	0	0	4	2
MA	BOSTON WORCESTER	60 57	47 41	70 72	43 36	53 49	-4 -6	1.61 1.62	0.89 0.65	0.83 0.89	11.49 13.30	123 126	18.86 21.86	114 123	84 96	54 49	0	0	5 5	1 2
MI	ALPENA	60	37	71	32	49	-0 -2	0.09	-0.49	0.09	8.71	148	13.84	154	81	50	0	1	1	0
	GRAND RAPIDS	69	47	78	40	58	1	0.65	-0.09	0.63	10.15	127	17.04	147	86	49	0	0	2	1
	HOUGHTON LAKE LANSING	64 68	38 44	74 76	31 36	51 56	-2 0	0.01 0.43	-0.53 -0.12	0.01 0.42	8.21 8.85	145 129	13.22 13.73	155 138	83 90	42 59	0	1	1 2	0
	MUSKEGON	66	44	80	36	56	1	0.43	-0.12	0.42	11.97	172	13.73	183	78	59 56	0	0	2	0
1	TRAVERSE CITY	64	40	76	35	52	-2	0.05	-0.42	0.04	7.82	131	14.78	138	86	46	0	0	2	0
MN	DULUTH INT'L FALLS	63 64	41 38	75 73	36 29	52 51	1 -1	2.31 0.42	1.70 -0.08	1.73 0.31	9.66 4.41	185 127	12.74 7.35	178 148	78 88	49 36	0	0	5 3	2
	MINNEAPOLIS	69	48	82	40	59	-1 1	1.35	0.68	0.31	10.32	180	13.84	183	81	48	0	0	5 5	1
	ROCHESTER	68	45	84	35	56	0	1.75	0.98	1.12	10.09	148	14.99	176	87	56	0	0	4	2
MC	ST. CLOUD	67	42	76	35	54	-2	2.19	1.62	2.11	9.87	199	12.23	194	90	39	0	0	2	1
MS	JACKSON MERIDIAN	85 86	60 60	90 91	53 53	73 73	2 2	0.02 0.43	-1.11 -0.71	0.01 0.43	18.57 20.64	125 132	28.21 32.74	113 122	91 90	42 51	1	0	2	0
	TUPELO	82	59	89	51	71	2	0.01	-1.30	0.01	16.95	117	37.97	156	86	51	0	0	1	0
MO	COLUMBIA	78	55	89	42	66	3	0.63	-0.47	0.44	11.17	110	18.13	128	88	46	0	0	2	0
	KANSAS CITY SAINT LOUIS	77 78	56 57	89 91	43 44	67 67	4 1	2.55 0.15	1.31 -0.79	2.02 0.12	13.11 16.01	148 166	17.34 22.50	153 160	89 81	54 55	0	0	2	2
	SPRINGFIELD	78	56	86	42	67	3	0.13	-0.79	0.12	11.97	113	17.71	118	84	58	0	0	1	0
MT	BILLINGS	70	48	86	34	59	4	1.33	0.77	0.74	4.96	117	7.91	141	74	45	0	0	4	1
	BUTTE CUT BANK	65	39	76	35	52	5	1.15	0.72	0.82	3.92	139	5.10	133	82	36	0	0	4	1
	GLASGOW	61 69	41 43	78 82	31 35	51 56	2 1	0.97 0.91	0.51 0.56	0.56 0.66	3.47 2.43	140 121	4.20 4.43	134 169	82 74	47 43	0	1 0	3 2	1
	GREAT FALLS	65	43	79	32	54	4	0.87	0.32	0.46	4.92	133	8.48	173	87	48	0	1	3	0
	HAVRE	65	42	81	32	53	-1	1.00	0.61	0.39	2.54	103	4.44	135	90	60	0	1	5	0
NE	MISSOULA GRAND ISLAND	70 81	47 54	82 93	41 41	58 67	6 8	1.53 0.02	1.10 -0.89	0.94 0.01	4.95 9.37	163 138	7.60 10.82	156 135	75 83	49 47	0	0	4 2	1 0
	LINCOLN	81	56	94	39	68	7	1.65	0.69	1.50	7.85	106	10.83	123	84	53	1	0	4	1
	NORFOLK	80	52	91	39	66	7	0.05	-0.80	0.04	9.26	140	10.96	138	85	53	1	0	2	0
	NORTH PLATTE OMAHA	81 81	43 58	89 95	30 46	62 70	5 9	0.44 0.59	-0.31 -0.42	0.36 0.37	7.02 7.22	140 96	7.78 10.37	132 114	90 84	36 52	0 2	1	3	0
	SCOTTSBLUFF	76	41	86	31	58	2	0.24	-0.35	0.23	8.96	204	9.62	175	91	48	0	1	2	0
	VALENTINE	75	47	90	40	61	4	0.43	-0.29	0.41	7.84	162	9.06	161	83	45	1	0	2	0
NV	ELY LAS VEGAS	65 85	36 65	76 93	30 55	50 75	1 1	0.69 0.00	0.39 -0.06	0.36 0.00	6.91 1.42	260 167	9.56 4.51	230 212	69 37	32 20	0	4 0	2	0
	RENO	71	48	86	40	59	3	0.00	-0.13	0.00	1.37	92	8.13	225	53	32	0	0	0	0
	WINNEMUCCA	71	40	86	33	55	1	0.45	0.23	0.38	2.76	122	5.44	146	75	37	0	0	2	0
NH NJ	CONCORD NEWARK	61 67	41	72	37	51 58	-4 4	0.62	-0.12	0.40	8.19	102	14.73	111	87	44	0	0	3 6	0
NM	ALBUQUERQUE	78	49 52	80 85	43 44	65	-4 1	2.64 0.00	1.59 -0.11	1.45 0.00	12.63 1.94	117 140	20.31 3.11	115 134	82 53	63 19	0	0	0	2
NY	ALBANY	62	45	73	40	53	-4	1.27	0.47	0.59	8.40	100	15.37	118	82	51	0	0	5	1
	BINGHAMTON BUFFALO	57 58	41 43	69 69	37 40	49 50	-6 -6	2.03 0.89	1.26 0.18	0.88 0.35	10.44 8.47	123 109	16.67 17.46	123 130	90 92	73 63	0	0	6 4	2
	ROCHESTER	59	43	70	39	51	-6 -5	0.66	0.18	0.35	6.57	96	12.04	108	92 82	68	0	0	5	0
	SYRACUSE	60	42	69	39	51	-5	2.14	1.40	1.39	10.11	121	16.21	124	94	60	0	0	6	1
NC	ASHEVILLE CHARLOTTE	75	52	85	44	63	2	0.14	-0.82	0.14	14.95	144	27.14	148	86	53	0	0	1	0
	CHARLOTTE GREENSBORO	80 77	55 54	91 89	45 46	67 66	-1 1	0.63 0.83	-0.18 -0.08	0.63 0.53	11.57 9.59	125 100	22.10 19.49	131 120	86 89	41 45	1	0	1	1
	HATTERAS	77	64	85	58	71	4	2.92	2.06	2.24	15.68	153	25.69	128	89	62	0	0	2	2
	RALEIGH	78	55	91	43	66	0	2.62	1.75	1.32	13.32	150	21.01	128	90	62	1	0	2	2
ND	WILMINGTON BISMARCK	84 68	61 45	94 86	48 39	73 56	4 1	0.18 1.10	-0.80 0.62	0.18 0.85	7.24 3.84	77 111	11.07 5.64	63 128	85 81	44 55	1 0	0	1 3	0
1,,5	DICKINSON	64	40	83	31	52	-2	1.10	0.02	0.83	4.06	114	6.45	148	83	39	0	2	4	2
	FARGO	67	43	82	36	55	-1	0.81	0.28	0.63	4.66	125	7.23	142	86	39	0	0	3	1
	GRAND FORKS JAMESTOWN	67 65	39	79 82	26 35	53 53	-3 3	0.06	-0.39	0.05	3.59	114	6.46	146	80	31	0	1	2	0
	WILLISTON	65 67	41 40	82 81	35 26	53 54	-3 0	0.67 0.63	0.21 0.23	0.41 0.61	4.15 1.92	124 71	5.98 3.85	133 106	90 77	39 45	0	0	2	0
ОН	AKRON-CANTON	69	48	84	42	58	0	0.47	-0.44	0.42	9.23	105	16.64	122	78	58	0	0	3	0
	CINCINNATI	71 67	50	86	41	61	-2 1	0.33	-0.68	0.20	13.76	133	25.10	157	85	61	0	0	3	0
	CLEVELAND COLUMBUS	67 70	48 50	85 86	44 42	58 60	1 -2	0.55 1.15	-0.21 0.29	0.44 0.92	8.87 11.51	107 139	16.03 20.09	123 154	83 89	55 52	0	0	3 5	0
	DAYTON	70	51	86	43	61	1	1.53	0.62	1.26	11.54	119	21.94	151	85	53	0	0	4	1
	MANSFIELD	68	48	85	42	58	1	0.54	-0.42	0.19	10.42	104	17.89	121	93	58	0	0	5	0

Based on 1971-2000 normals

*** Not Available

Based on 1971-2000 normals

34 56

0.01

0.75

-0.55

0.22

0.01

6.62

7.87

27 0

LANDER

0 0 1 0 1 3

National Agricultural Summary

May 13 - 19, 2019

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Rain fell most heavily in parts of California, the Delta, Florida, the Mid Atlantic, and the Midwest. Parts of California received more than 4 inches of precipitation. Meanwhile, little or no rain fell in the Southwest, Wyoming, and Michigan. Weekly

temperatures were more than 5°F below normal in the Northeast. Conversely, slightly warmer-thannormal weather settled across portions of Florida, Kansas, Nebraska, the Pacific Northwest, and the Rocky Mountains.

Corn: By May 19, producers had planted 49 percent of the nation's corn acreage, 29 percentage points behind last year and 31 points behind the 5-year average. Seventy percent of Iowa's intended corn acreage was planted by week's end, 13 percentage points behind last year and 19 points behind average. Nineteen percent of the nation's corn acreage had emerged by May 19, twenty-eight percentage points behind last year and 30 points behind average. Twenty percent of Iowa's corn had emerged by May 19, twenty-nine percentage points behind last year and 33 points behind average.

Soybeans: Nineteen percent of the nation's soybean acreage was planted by May 19, thirty-four percentage points behind last year and 28 points behind the 5-year average. In Illinois, 9 percent of the intended soybean acreage was planted by week's end, 70 percentage points behind last year and 42 points behind average. Five percent of the nation's soybean acreage had emerged by May 19, nineteen percentage points behind last year and 12 points behind average.

Winter Wheat: By May 19, fifty-four percent of the nation's winter wheat acreage had reached the headed stage, 5 percentage points behind last year and 12 points behind the 5-year average. On May 19, sixty-six percent of the 2019 winter wheat acreage was reported in good to excellent condition, 2 percentage points above of the previous week and 30 points above last year. In Kansas, 60 percent of the winter wheat was rated in good to excellent condition, an increase of 4 percentage points from last week.

Cotton: Nationwide, 44 percent of the cotton acreage had been planted by May 19, six percentage points behind last year and 1 point behind the 5-year average. In Texas, 39 percent of the 2019 cotton acreage was planted by May 19, two percentage points behind the previous year but 5 points ahead of average. Producers in Georgia had planted 61 percent of the intended acreage by week's end, 7 percentage points ahead of last year and 10 points ahead of average.

Sorghum: Twenty-six percent of the nation's sorghum acreage was planted by May 19, twelve percentage points behind both the previous year and the 5-year average. Producers in Texas had planted 79 percent of the state's intended sorghum acreage by week's end, 10 percentage points behind last year but equal to the 5-year average.

Rice: By May 19, producers had seeded 73 percent of the

2019 rice acreage, 19 percentage points behind last year and 17 points behind the 5-year average. In Arkansas, producers had seeded 67 percent of the intended acreage by week's end, 28 percentage points behind last year and 27 points behind average. By May 19, fifty-two percent of the nation's rice acreage had emerged, 20 percentage points behind last year and 23 points behind average.

Small Grains: Nationally, oat producers had seeded 77 percent of this year's acreage by May 19, seven percentage points behind the previous year and 13 points behind the 5-year average. Oat planting progress was behind average in all estimating states, except Texas, which has already finished planting. Fifty-three percent of the nation's oat acreage had emerged by May 19, eleven percentage points behind the previous year and 23 points behind average.

Seventy-six percent of the nation's barley was planted by May 19, two percentage points behind last year and 8 points behind the 5-year average. Seventy-three percent of Montana's intended acreage was planted by May 19, three percentage points ahead of last year but 14 points behind average. By May 19, thirty-nine percent of the nation's barley acreage had emerged, 3 percentage points behind the previous year and 18 points behind average.

By May 19, seventy percent of the spring wheat acreage was seeded, 6 percentage points behind last year and 10 points behind the 5-year average. Twenty-six percent of the nation's spring wheat acreage had emerged, 8 percentage points behind the previous year and 25 points behind average.

Other Crops: Nationally, peanut producers had planted 63 percent of the 2019 peanut acreage by May 19, three percentage points ahead of last year and 8 points ahead of the 5-year average. Producers in Georgia, the largest peanut-producing state, had planted 69 percent of the 2019 intended acreage by week's end, 6 percentage points ahead of last year and 9 points ahead of average.

By May 19, ninety percent of the sugarbeet acreage was planted, 3 percentage points behind last year but 1 point ahead of the 5-year average.

Three percent of the nation's intended 2019 sunflower acreage was planted by May 19, seven percentage points behind last year and 9 points behind the 5-year average.

Week Ending May 19, 2019

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

Corr	Corn Percent Planted							
	Prev	Prev	May 19	5-Yr				
	Year	Week	2019	Avg				
СО	63	39	63	69				
IL	95	11	24	89				
IN	86	6	14	73				
IA	83	48	70	89				
KS	80	46	61	80				
KY	78	55	71	80				
МІ	48	5	19	54				
MN	72	21	56	83				
МО	95	52	62	92				
NE	86	46	70	86				
NC	95	88	93	95				
ND	58	11	42	63				
ОН	69	4	9	62				
PA	34	26	42	55				
SD	60	4	19	76				
TN	93	79	85	94				
TX	87	75	92	84				
WI	52	14	35	65				
18 Sts	78	30	49	80				
These 18 States planted 92%								
of last year's corn acreage.								

Soybea	Soybeans Percent Planted						
	Prev	Prev	May 19	5-Yr			
	Year	Week	2019	Avg			
AR	78	21	31	65			
IL	79	3	9	51			
IN	70	2	6	43			
IA	54	13	27	55			
KS	47	7	17	29			
KY	32	13	22	26			
LA	92	53	67	85			
МІ	27	3	10	31			
MN	43	3	22	57			
MS	82	33	45	80			
МО	58	5	9	38			
NE	64	20	40	54			
NC	36	25	36	32			
ND	30	5	24	39			
ОН	47	2	4	35			
SD	21	0	4	39			
TN	47	20	31	37			
WI	30	4	12	35			
18 Sts	53	9	19	47			
These 18 States planted 95%							
of last year's soybean acreage.							

Corn	Corn Percent Emerged							
	Prev	Prev	May 19	5-Yr				
	Year	Week	2019	Avg				
со	28	7	12	29				
IL	81	4	11	71				
IN	57	1	4	45				
IA	49	5	20	53				
KS	53	26	37	53				
KY	49	37	50	57				
МІ	20	0	1	21				
MN	21	1	6	44				
МО	81	31	44	77				
NE	49	9	27	49				
NC	87	71	80	87				
ND	7	0	1	19				
ОН	41	1	3	35				
PA	12	3	18	26				
SD	13	0	0	30				
TN	76	57	72	78				
TX	79	64	75	74				
WI	19	1	3	24				
18 Sts	47	10	19	49				
These 18 States planted 92%								
of last year's corn acreage.								

Soybeans Percent Emerged							
	Prev	Prev	May 19	5-Yr			
	Year	Week	2019	Avg			
AR	57	14	20	50			
IL	52	0	2	23			
IN	34	NA	1	16			
IA	16	1	3	13			
KS	19	0	6	10			
KY	11	NA	8	9			
LA	81	32	46	72			
МІ	10	0	1	8			
MN	3	NA	0	13			
MS	63	23	32	63			
МО	30	1	3	17			
NE	22	1	7	14			
NC	20	10	18	15			
ND	1	NA	0	6			
ОН	19	NA	0	12			
SD	2	NA	0	6			
TN	22	4	14	15			
WI	6	NA	0	7			
18 Sts	24	NA	5	17			
These 18 States planted 95%							
of last year's soybean acreage.							

Co	Cotton Percent Planted							
	Prev	Prev	May 19	5-Yr				
	Year	Week	2019	Avg				
AL	65	49	72	60				
AZ	91	75	90	92				
AR	87	25	50	83				
CA	100	90	95	87				
GA	54	42	61	51				
KS	26	5	18	14				
LA	85	38	66	83				
MS	67	17	34	69				
MO	91	22	34	77				
NC	49	40	52	54				
OK	38	8	10	29				
sc	45	39	65	60				
TN	71	35	50	60				
TX	41	19	39	34				
VA	56	36	56	58				
15 Sts	50	26	44	45				
These 15 States planted 99%								
of last year's cotton acreage.								

Peanu	Peanuts Percent Planted								
	Prev	Prev	May 19	5-Yr					
	Year	Week	2019	Avg					
AL	63	40	62	49					
FL	66	50	74	62					
GA	63	47	69	60					
NC	48	32	45	46					
ок	57	15	18	64					
sc	52	47	70	61					
TX	56	12	47	45					
VA	47	30	53	49					
8 Sts	60	40	63	55					
These 8 States planted 96%									
of last year's	peanut a	acreage.							

	Sorghum Percent Planted								
		Prev	Prev	May 19	5-Yr				
		Year	Week	2019	Avg				
СО		7	0	2	13				
KS		7	1	3	6				
NE		29	8	18	28				
OK		29	12	13	38				
SD		24	0	1	17				
ΤX		89	75	79	79				
6 Sts	;	38	24	26	38				
Thes	e 6 States	planted	d 97%						

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

Crop Progress and ConditionWeek Ending May 19, 2019

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

Winter Wheat Percent Headed						
	Prev	Prev	May 19	5-Yr		
	Year	Week	2019	Avg		
AR	99	88	93	99		
CA	99	93	99	98		
СО	31	6	18	35		
ID	12	3	7	12		
IL	70	35	64	75		
IN	44	28	40	53		
KS	67	35	61	83		
MI	2	0	0	2		
МО	81	51	70	84		
MT	0	0	0	0		
NE	4	2	8	27		
NC	93	80	90	95		
ОН	25	6	15	33		
OK	95	89	95	97		
OR	43	2	11	31		
SD	0	0	0	6		
TX	91	87	95	94		
WA	31	3	10	29		
18 Sts	59	42	54	66		
These 18 States planted 90%						
of last year's winter wheat acreage.						

0	Oats Percent Planted							
	Prev	Prev	May 19	5-Yr				
	Year	Week	2019	Avg				
IA	96	91	97	98				
MN	81	44	70	87				
NE	94	83	90	97				
ND	61	27	55	71				
ОН	88	63	73	90				
PA	79	83	87	90				
SD	90	37	61	93				
TX	100	100	100	100				
WI	64	41	61	80				
9 Sts	84	62	77	90				
These 9 States planted 66%								
of last year's oat acreage.								

Winter Wheat Condition by							
Percent							
	VP	Р	F	G	EX		
AR	1	6	32	53	8		
CA	0	0	10	70	20		
СО	1	3	22	58	16		
ID	0	2	28	55	15		
IL	8	14	40	34	4		
IN	4	10	33	45	8		
KS	2	8	30	46	14		
MI	8	19	32	31	10		
МО	2	9	42	41	6		
MT	2	4	25	42	27		
NE	1	4	26	57	12		
NC	6	8	34	42	10		
ОН	10	22	39	26	3		
ок	1	2	9	71	17		
OR	4	14	20	33	29		
SD	1	4	34	54	7		
TX	2	6	31	39	22		
WA	0	1	27	64	8		
18 Sts	2	6	26	50	16		
Prev Wk	2	6	28	49	15		
Prev Yr	15	20	29	29	7		

Oats Percent Emerged							
	Prev	Prev	May 19	5-Yr			
	Year	Week	2019	Avg			
IA	82	55	76	89			
MN	49	13	33	65			
NE	84	48	67	91			
ND	22	1	8	37			
ОН	69	44	58	74			
PA	65	71	79	78			
SD	65	15	29	79			
TX	100	100	100	100			
WI	33	19	28	55			
9 Sts	64	43	53	76			
These 9 States planted 66%							
of last year's oat acreage.							

Rice Percent Planted								
	Prev Prev		May 19	5-Yr				
	Year	Week	2019	Avg				
AR	95	53	67	94				
CA	68	19	75	70				
LA	99	90	92	98				
MS	95	54	62	91				
МО	92	54	69	89				
TX	98	83	83	91				
6 Sts	92	55	73	90				
These 6 States planted 100%								
of last year's ri	of last year's rice acreage.							

Rice Percent Emerged							
	Prev	Prev	May 19	5-Yr			
	Year	Week	2019	Avg			
AR	83	41	52	84			
CA	16	5	15	28			
LA	96	85	88	95			
MS	73	38	43	74			
МО	71	29	46	75			
TX	86	74	80	84			
6 Sts	72	42	52	75			
Those 6 States planted 100%							

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

Crop Progress and ConditionWeek Ending May 19, 2019

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

Spring Wheat Percent Planted							
	Prev	Prev	May 19	5-Yr			
	Year	Week	2019	Avg			
ID	93	81	90	93			
MN	81	35	76	80			
MT	63	55	69	82			
ND	74	37	66	74			
SD	92	46	70	94			
WA	96	81	87	97			
6 Sts	76	45	70	80			
These 6 States planted 99%							

of last year's spring wheat acreage.

Spring Wheat Percent Emerged							
	Prev	Prev Prev		5-Yr			
	Year	Week	2019	Avg			
ID	70	27	58	78			
MN	36	2	17	57			
MT	24	22	32	49			
ND	27	2	18	42			
SD	58	9	29	72			
WA	74	63	69	85			
6 Sts	34	10	26	51			

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

Barley Percent Planted							
	Prev	Prev	May 19	5-Yr			
	Year	Week	2019	Avg			
ID	94	85	92	93			
MN	75	30	80	79			
MT	70	59	73	87			
ND	75	35	66	74			
WA	83	71	77	91			
5 Sts 78 59 76 8							
These 5 States planted 78%							
of last year's barley acreage.							

Barley Percent Emerged								
	Prev Pre		May 19	5-Yr				
	Year	Week	2019	Avg				
ID	78	41	62	76				
MN	31	1	16	53				
MT	28	31	42	57				
ND	28	1	12	41				
WA	71	43	55	76				
5 Sts 42 25 39 5								
These 5 States planted 78%								
of last year's b	of last year's barley acreage.							

Sugarbeets Percent Planted							
	Prev	Prev	May 19	5-Yr			
	Year	Week	2019	Avg			
ID	100	97	98	96			
MI	96	46	74	92			
MN	88	54	90	87			
ND	98	64	94	87			
4 Sts	93	63	90	89			
These 4 States planted 84%							
of last year's sugarbeet acreage.							

Sunflowers Percent Planted							
	Prev Prev		May 19	5-Yr			
	Year	Week	2019	Avg			
СО	1	0	0	3			
KS	6	1	1	3			
ND	11	2	8	18			
SD	11	NA	0	7			
4 Sts	4 Sts 10 NA 3 1						
These 4 States planted 87%							
of last year's sunflower acreage.							

Week Ending May 19, 2019

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

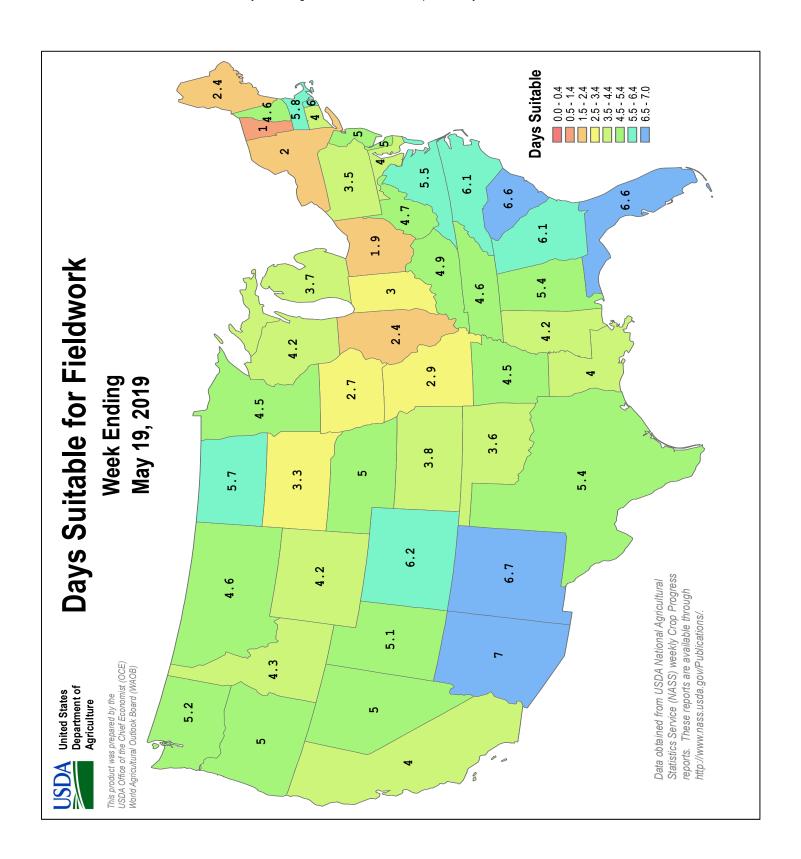
	Pasture and Range Condition by Percent Week Ending May 19, 2019										
	VP	Р	F	G	EX	.g, 10, _	VP	Р	F	G	EX
AL	1	2	12	75	10	NH	0	8	34	52	6
AZ	3	9	31	55	2	NJ	0	6	21	48	25
AR	0	5	35	49	11	NM	2	32	34	31	1
CA	0	0	35	55	10	NY	2	8	29	50	11
СО	1	6	24	60	9	NC	1	4	27	66	2
СТ	0	0	100	0	0	ND	2	9	29	56	4
DE	1	1	13	69	16	ОН	1	13	33	47	6
FL	4	8	38	37	13	ОК	1	3	26	55	15
GA	2	6	29	54	9	OR	1	5	29	47	18
ID	0	7	15	41	37	PA	0	3	21	57	19
IL	1	6	25	50	18	RI	0	5	15	45	35
IN	2	6	35	42	15	sc	0	0	21	72	7
IA	1	6	30	49	14	SD	0	3	25	51	21
KS	0	3	26	57	14	TN	1	4	32	53	10
KY	1	8	22	60	9	TX	1	5	25	51	18
LA	1	7	38	48	6	UT	0	0	10	58	32
ME	0	27	51	22	0	VT	0	25	75	0	0
MD	2	10	30	47	11	VA	1	10	32	41	16
MA	0	2	24	47	27	WA	0	11	33	54	2
MI	3	8	27	47	15	wv	2	7	32	53	6
MN	1	8	27	58	6	WI	4	13	36	37	10
MS	1	7	35	48	9	WY	1	1	29	66	3
MO	0	2	39	52	7	48 Sts	1	5	28	53	13
MT	1	5	30	55	9						
NE	1	2	19	68	10	Prev Wk	1	6	30	52	11
NV	0	5	25	65	5	Prev Yr	5	14	35	39	7

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

> NA - Not Available * Revised

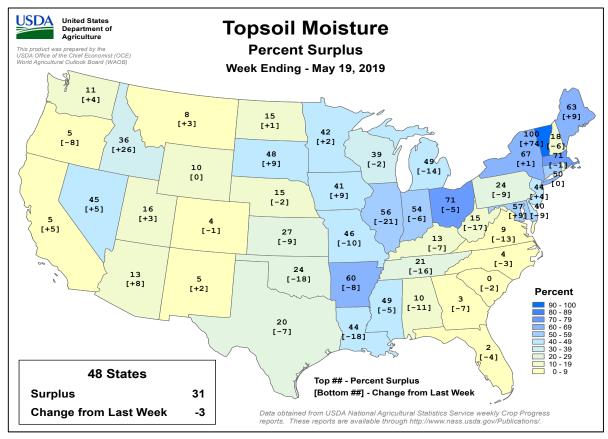
Week Ending May 19, 2019

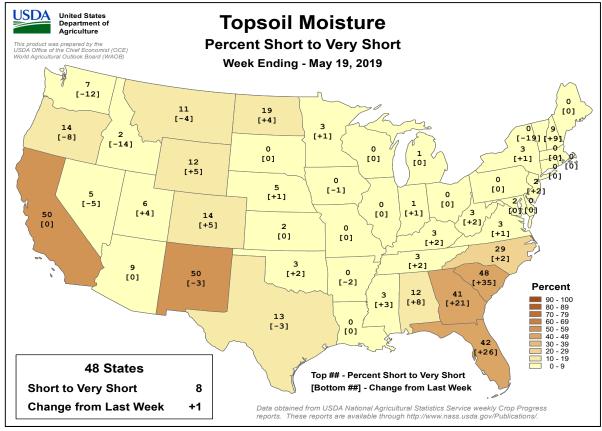
Weekly U.S. Progress and Condition Data provided by USDA/NASS



Week Ending May 19, 2019

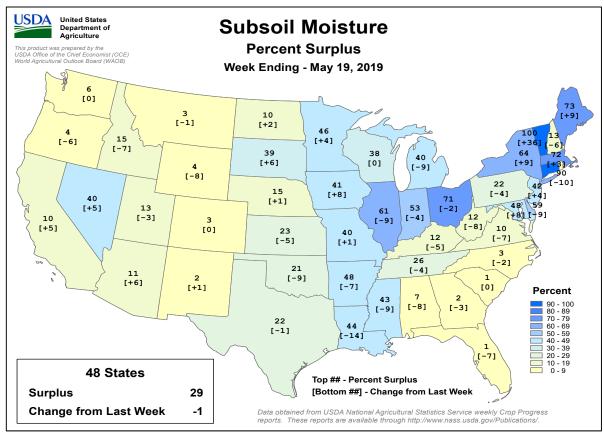
Weekly U.S. Progress and Condition Data provided by USDA/NASS

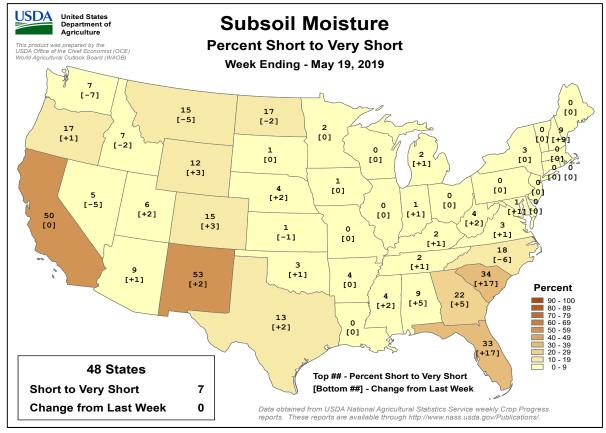




Week Ending May 19, 2019

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





International Weather and Crop Summary

May 12-18, 2019 International Weather and Crop Highlights and Summaries provided by USDA/WAOB

HIGHLIGHTS

EUROPE: Moderate to heavy rain over southern and eastern Europe boosted prospects for reproductive winter crops.

WESTERN FSU: Widespread albeit highly variable showers benefited vegetative to reproductive winter wheat, though heat was building in southern and eastern growing areas.

EASTERN FSU: Despite some showers, spring grain planting was able to proceed without significant delay.

MIDDLE EAST: Drier, warmer weather favored reproductive to filling winter grains.

EASTERN ASIA: Showers benefited rice and other summer crops in southern China, while more rain would be welcome for crops in the northeast.

SOUTHEAST ASIA: Monsoon showers were reported in Thailand and the surrounding area, but failed to materialize in the Philippines.

AUSTRALIA: Unfavorably dry weather persisted in the northeast, while more favorable conditions promoted winter grain and oilseed development in the west and southeast.

ARGENTINA: Drier conditions benefited maturing summer crops and spurred fieldwork.

BRAZIL: Scattered showers benefited immature corn and cotton.

MEXICO: Moisture remained limited for planting corn and other rain-fed summer crops.

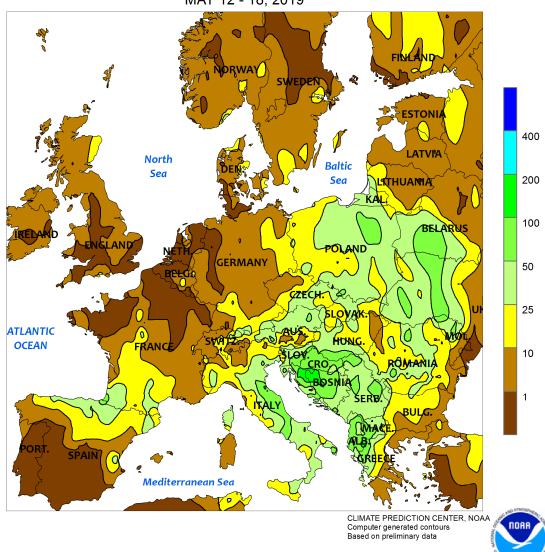
CANADIAN PRAIRIES: Planting advanced, with scattered showers boosting moisture for emerging spring crops.

SOUTHEASTERN CANADA: Cool, showery weather slowed development of winter wheat and pastures.



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



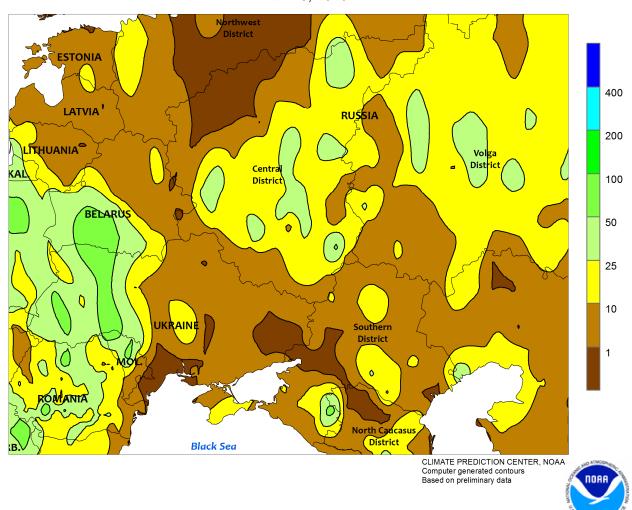


EUROPE

Beneficial rain over southern and eastern Europe contrasted with sunny but cool weather in northwestern growing areas. Moderate to heavy rainfall (10-75 mm, locally more) from Italy north and east across the eastern third of Europe provided timely moisture for reproductive winter crops and eased dryness concerns over the northeastern corner of the continent. Showers were lighter (2-20 mm) but nevertheless beneficial for reproductive wheat and rapeseed in Germany and central France. Nearby, well-placed moderate to heavy rain (10-50 mm) boosted moisture for

recently-sown corn and sunflowers in southwestern France. Dry, warm conditions (up to 5°C above normal) on the Iberian Peninsula favored winter grain maturation but left soils short of moisture in western portions of Spain, where recent dryness (60-day rainfall averaging 50-70 percent of normal) has been most pronounced. Sunny but locally cool weather (up to 3°C below normal) favored reproductive winter wheat and rapeseed in crop areas adjacent to the North Sea, where early-May rainfall eased concerns over drought.

WESTERN FSU Total Precipitation (mm) MAY 12 - 18, 2019

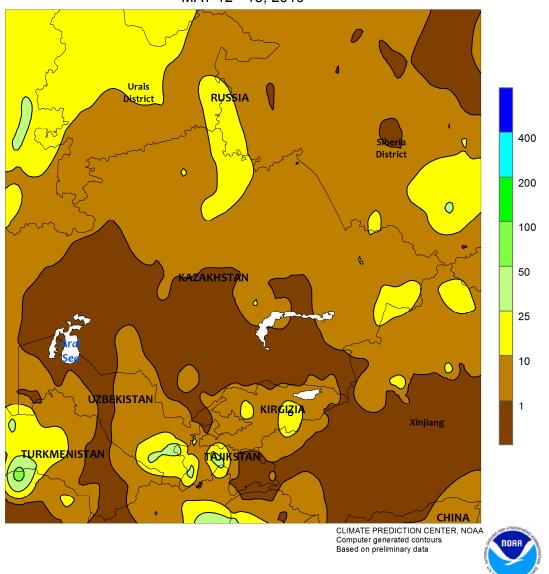


WESTERN FSU

Widespread showers maintained favorable prospects for winter wheat, though increasingly warm weather accelerated crop development somewhat. In the primary growing areas adjacent to the Black Sea Coast, widespread albeit highly variable showers (trace-70 mm) maintained mostly favorable prospects for vegetative (north) to reproductive (south) winter wheat. Daytime highs topping 30°C in southern and eastern portions of the region accelerated wheat development,

though crop stages are generally on par with normal and similar to last year. Moderate to heavy rain (25-80 mm) in western Ukraine and southern Belarus slowed summer crop planting and other seasonal fieldwork. Widespread showers (5-60 mm) were also noted across much of the Central and Volga Districts in west-central Russia, boosting soil moisture for vegetative winter wheat as well as emerging spring grains and summer crops.

EASTERN FSU Total Precipitation (mm) MAY 12 - 18, 2019

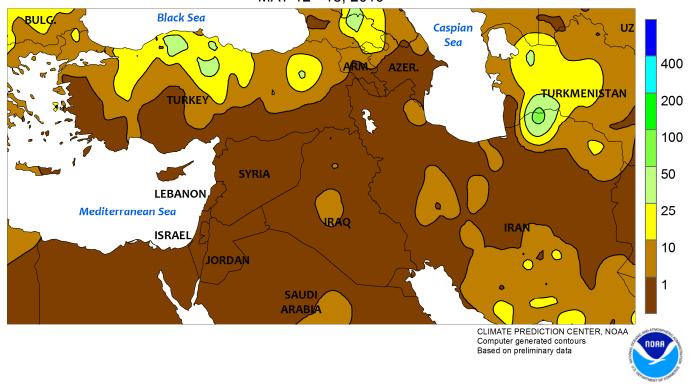


EASTERN FSU

Spring wheat and barley planting continued under mostly sunny skies for much of the week. Despite some showers (mostly less than 5 mm, but heavier in northeastern Kazakhstan and the western portions of the Siberia District), planting of spring

wheat and barley continued without significant interruption. Light to moderate showers (1-35 mm) in southern portions of the region provided supplemental moisture for recently-planted cotton in Uzbekistan and environs.

MIDDLE EAST Total Precipitation (mm) MAY 12 - 18, 2019

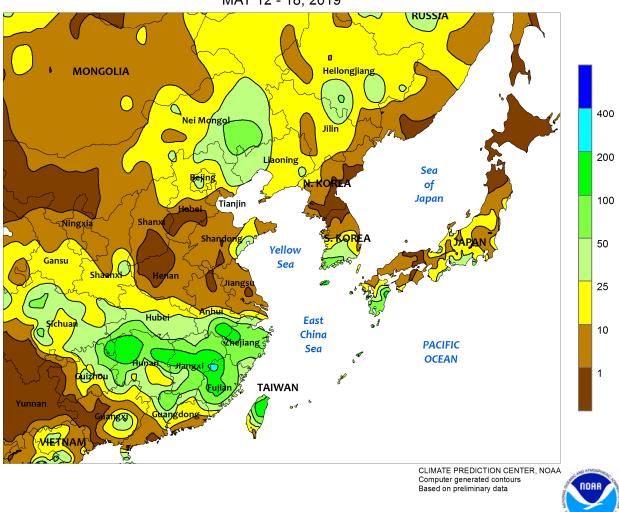


MIDDLE EAST

Sunny, increasingly warm weather over much of the region accelerated winter grain development. Across central Turkey and northwestern Iran, generally sunny skies and above-normal temperatures (1-4°C above normal) promoted the development of reproductive winter grains; the warmth was welcome as wheat and barley are developing a week or more behind the

long-term average due to the wet, cool, and cloudy spring to date. Dry, hot weather (35-44°C) from the eastern Mediterranean Coast into central and southern Iran favored wheat and barley drydown and harvesting. This week's showers (10-40 mm) were mostly confined to northern Turkey and fell outside of the country's major winter and summer crop areas.

EASTERN ASIA Total Precipitation (mm) MAY 12 - 18, 2019

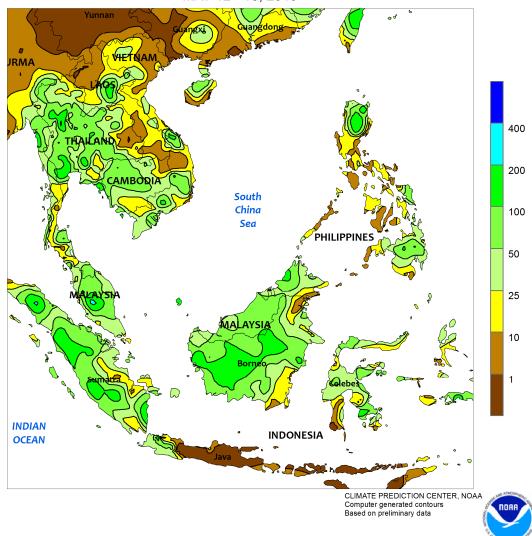


EASTERN ASIA

In China, showers continued along a narrow band largely south of the Yangtze River. Along the periphery of the band, rainfall totals were between 10 and 25 mm, with amounts topping 100 mm toward the center. The moisture benefited reproductive early-crop rice in the south as well as vegetative summer crops within the Yangtze Valley. However, the rainfall slowed maturation of rapeseed in some of the wetter areas of the Yangtze Valley. In wheat areas, dry, warmer-than-normal conditions advanced development of the filling crop; following

a wet April, May has been exceedingly dry, increasing irrigation demands for wheat. Meanwhile in the northeast, light showers (less than 25 mm) aided germination and emergence of corn and soybeans, but more rain is needed to stem developing early-season dryness. Elsewhere in the region, rainfall was scattered across the Korean Peninsula and Japan with the highest totals (over 25 mm) occurring in far southern sections, while above-normal temperatures (1-5°C above normal) supported establishment of irrigated rice.

SOUTHEAST ASIA Total Precipitation (mm) MAY 12 - 18, 2019

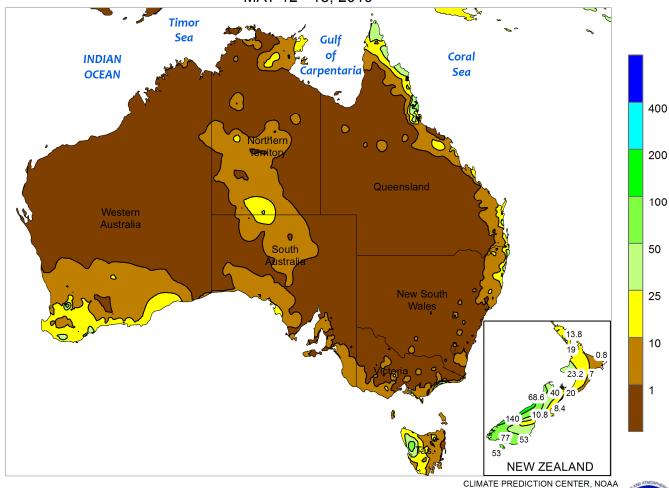


SOUTHEAST ASIA

Monsoon rainfall (over 25 mm) was recorded across much of Thailand and surrounding areas of Cambodia and Laos. The onset of seasonal showers encouraged more widespread sowing of rice and other summer crops. Similarly, rainfall increased in Malaysia and nearby portions of Indonesia, with 25 to 100 mm

bringing much-needed moisture to oil palm. In contrast, the summer rainy season had yet to begin in earnest across the Philippines. Showers remained scattered and unseasonably light (less than 25 mm in most areas). More rain is needed to encourage rice and corn sowing and to aid establishment.

AUSTRALIA Total Precipitation (mm) MAY 12 - 18, 2019



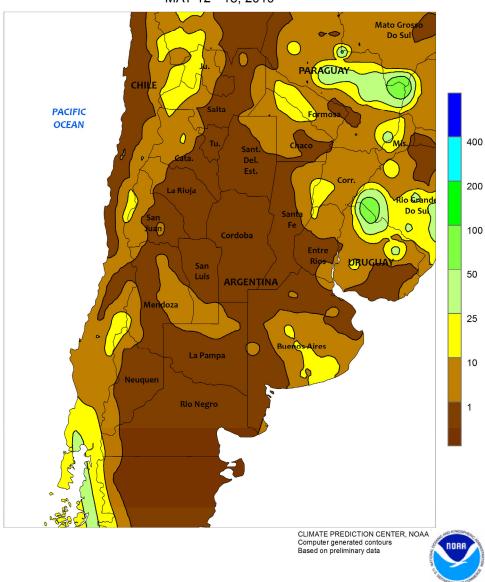
AUSTRALIA

Dry weather persisted across most of southern Queensland and northern New South Wales, supporting final summer crop harvests and perhaps additional winter wheat planting. However, the dryness was unfavorable for winter wheat development, reducing topsoil moisture for germination and emergence. Farther south, mostly dry weather (generally less than 5 mm) overspread southeastern Australia after recent much-needed rain. The combination of sunny skies and

adequate topsoil moisture likely triggered more wheat, barley, and canola planting and promoted early crop development. Elsewhere in the wheat belt, widespread showers (5-25 mm) in Western Australia favored winter grain and oilseed development and likely spurred additional sowing in its wake. Temperatures averaged near normal in the west and northeast and 1 to 2°C above normal in the southeast.

Computer generated contours Based on preliminary data



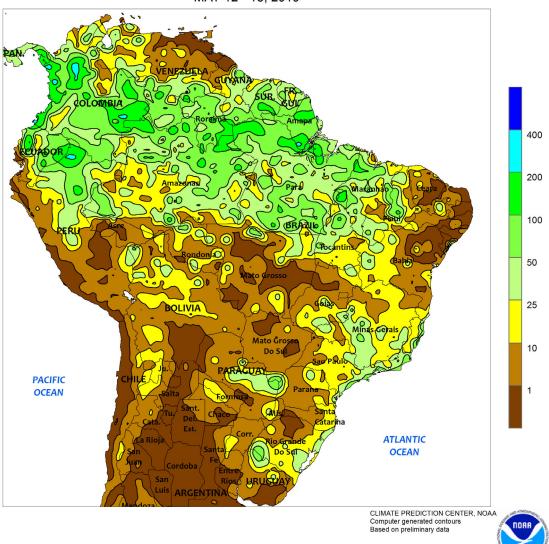


ARGENTINA

Following last week's locally heavy rainfall, drier conditions improved conditions for maturing summer crops and supported harvesting where fields would allow. Complete dryness dominated large sections of central and northern Argentina, including cotton areas in Santa Fe and Chaco; very light rain (less than 5 mm) fell in most other farming areas, with just a few locations recording more than 10 mm. Weekly temperatures averaged up to 3°C above normal in central

Argentina (La Pampa, Buenos Aires, and southern sections of Cordoba, Santa Fe, and Entre Rios), though patchy frost was likely in traditionally cooler locations in Buenos Aires. Nearnormal temperatures (daytime highs reaching the middle and upper 20s degrees C) prevailed across the north, where nighttime lows generally stayed above freezing. According to the government of Argentina, corn and soybeans were 48 and 74 percent harvested, respectively, as of May 16.

BRAZIL
Total Precipitation (mm)
MAY 12 - 18, 2019

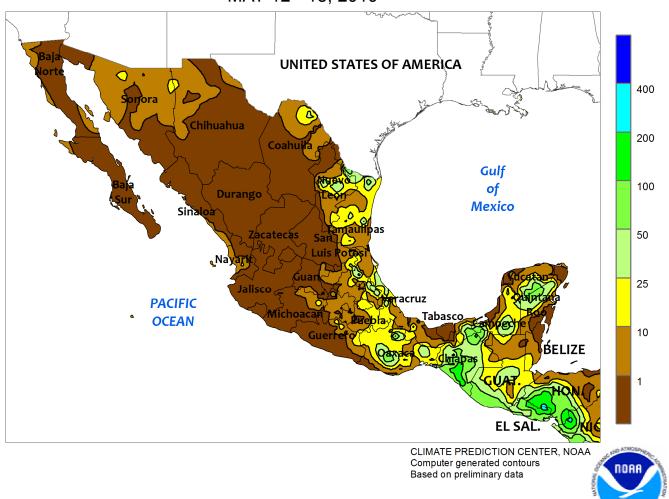


BRAZIL

Scattered showers benefited immature summer crops in key production areas of central and southern Brazil. In the Center-West and northeastern interior regions (Mato Grosso and northern Mato Grosso do Sul northeastward to Tocantins, western Bahia, and environs), rainfall was variable, with moderate to unseasonably heavy amounts (10-50 mm) interspersed with pockets of dryness. The late-season moisture helped to sustain current favorable yield prospects for that region's corn and cotton. Warm weather (daytime highs reaching the middle and upper 30s degrees C) sustained rapid development of the generally well-watered crops. Farther

south, moderate to heavy rain (10-50 mm) maintained overall favorable conditions for immature second-crop corn, in addition to providing a late-season boost in moisture for sugarcane and coffee. Daytime highs reached the middle and upper 20s from southern Mato Grosso and southern Minas Gerais southward through Rio Grande do Sul, helping to advance crops toward maturation with an absence of excessive heat. According to the government of Parana, nearly all second-crop corn had reached reproduction as of May 13 with more than 20 percent having reached maturity; wheat was 46 percent planted.

MEXICO Total Precipitation (mm) MAY 12 - 18, 2019

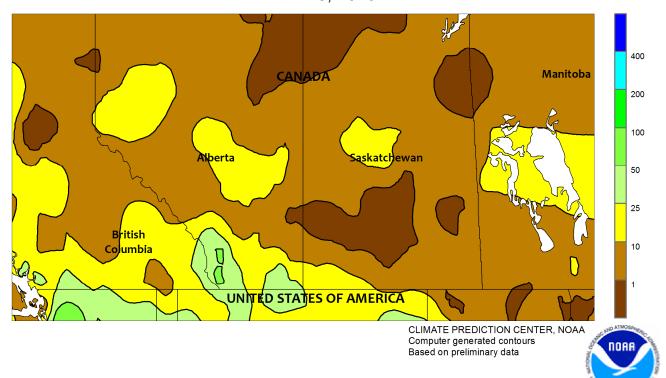


MEXICO

Moisture remained limited for planting corn and other rain-fed summer crops across the main southern production areas. Rainfall continued to be unseasonably light in the east, with just a few locations in eastern parts of the southern Plateau (in and around Puebla) reporting more than 10 mm. Similar conditions prevailed in Veracruz, where moisture was limited for sugarcane, and other sections of the southeast, though locally heavy rain (25-50 mm or more) fell in Chiapas and outlying farming areas of the Yucatan Peninsula. Meanwhile,

dry weather persisted in corn areas in central and western sections of the southern plateau and much of the southern Pacific Coast (Guerrero and Mexico westward), where seasonal rains typically increase by late May. In northern Mexico, late-season showers benefited immature sorghum in northeastern crop areas (Tamaulipas and environs), while warm, mostly dry weather advanced development of winter wheat and corn in the northwest (notably Sinaloa, Sonora, and the surrounding areas).

CANADIAN PRAIRIES Total Precipitation (mm) MAY 12 - 18, 2019

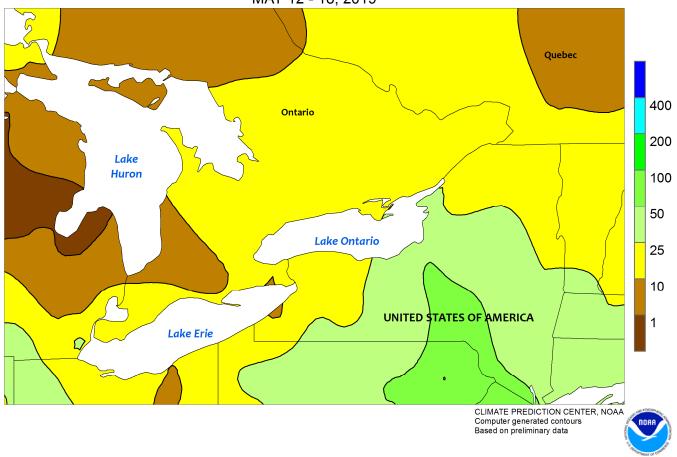


CANADIAN PRAIRIES

Spring planting advanced across the Prairies, slowed only locally by showers, lingering wetness, and cool soils. Moderate rain (10-25 mm, locally higher) was concentrated over southwestern Saskatchewan and sections of Alberta, with other locations recording less than 10 mm. Weekly average temperatures were near to slightly above normal in the wetter western locations and up to 2°C below normal in the drier parts of the region. Daytime highs reached the lower and middle 20s

(degrees C) nearly region-wide, the exception being Alberta's Peace River Valley, where highs were capped in the upper 10s. Nighttime lows dropped below freezing in most locations, with lowest temperatures approaching -5°C in Manitoba, where problems with low soil temperature were noted. According to the government of Saskatchewan, planting made good progress in most locations, reaching 38 percent complete as of May 13, 7 points ahead of the 5-year average.

SOUTHEASTERN CANADA Total Precipitation (mm) MAY 12 - 18, 2019

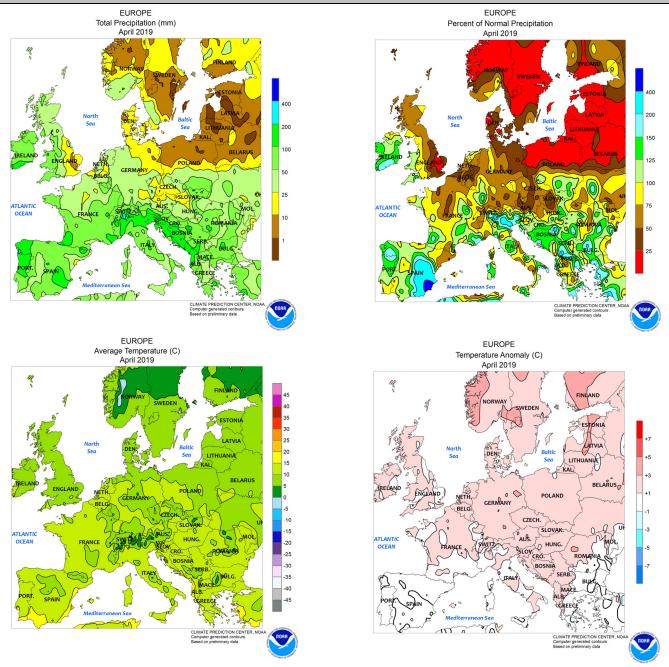


SOUTHEASTERN CANADA

Cool, showery weather dominated the region, slowing growth of winter grains and oilseeds. Weekly temperatures averaged 2 to 4°C below normal, with daytime highs only reaching the 20s (degrees C) in Ontario's southwestern agricultural areas. While freezes were generally confined to northern-most

farming areas, nighttime lows dropped into the low single digits region-wide. Precipitation ranged from 5 to 25 mm, with most locations receiving at least 10 mm. All of the moisture came in the form of rain, and by week's end nearly all agricultural districts were void of snow cover.

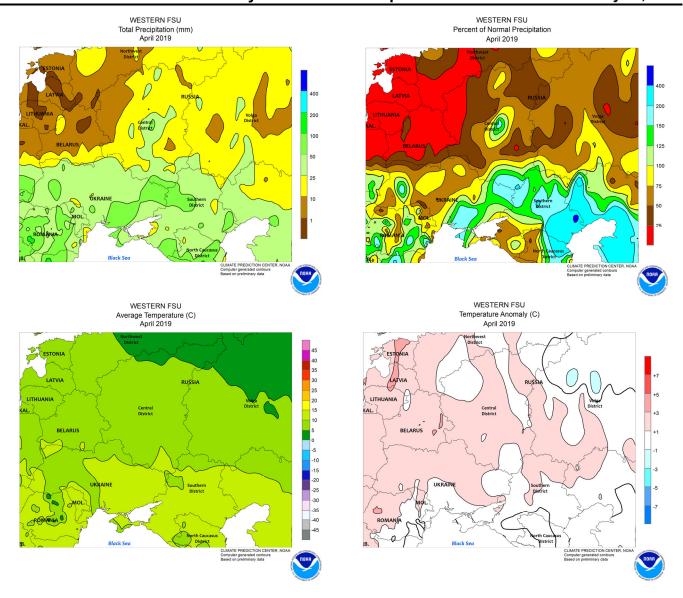
April International Temperature and Precipitation Maps



EUROPE

Dry, warmer-than-normal weather in the north contrasted with timely rain in southern growing areas. Above-normal temperatures (1-4°C above normal) during April accelerated winter crop development, with wheat and rapeseed progressing through reproduction in all but the northern-most growing areas by month's end. Acute dryness (10 percent of normal or less) raised concerns for winter crops in northeastern Europe, though timely rain arrived in early May.

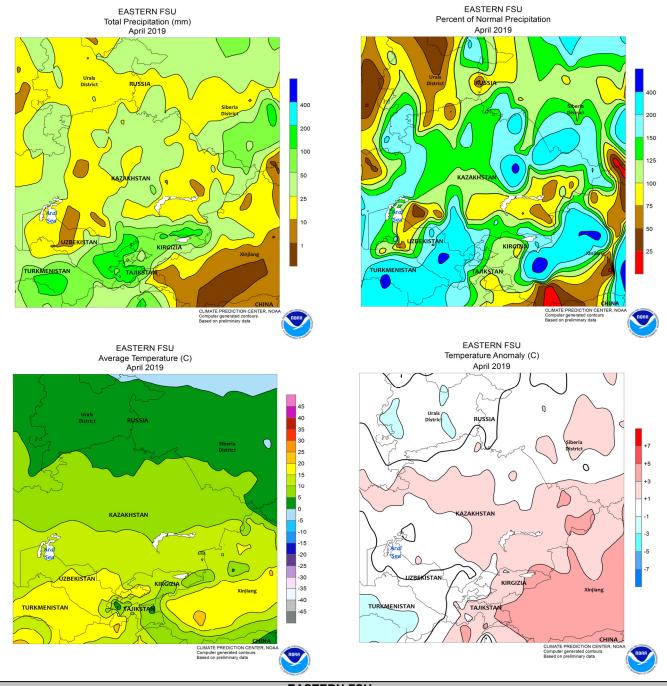
Drier-than-normal conditions (12-50 percent of normal) also reduced soil moisture for vegetative winter crops near the North Sea, though here, too, rain in early May improved crop prospects. Elsewhere, widespread rain improved soil moisture supplies for winter wheat and rapeseed from western and central France southeastward into the Balkans and maintained favorable winter grain prospects in Spain and Italy.



WESTERN FSU

During April, wet weather maintained good early-season prospects for vegetative winter wheat in Russia and Ukraine. Rain totaled 30 to 70 mm (90-200 percent of normal) in primary southern crop areas, though locally drier conditions (50-75 percent of normal) were noted in southwestern Russia. Despite the

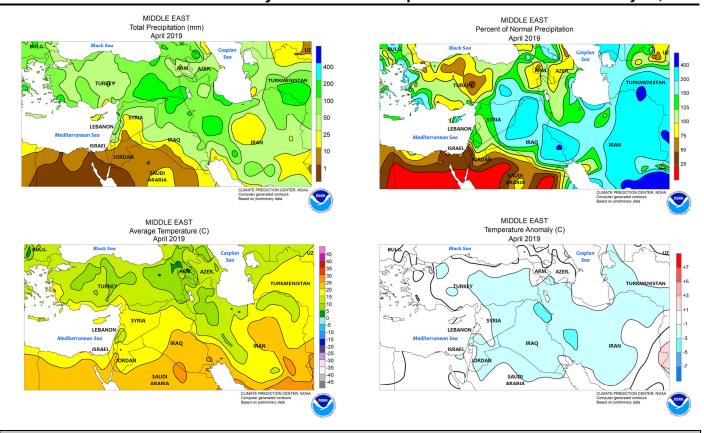
occasional showers, summer crop planting was able to proceed without significant delay across much of the region. However, acute short-term dryness (less than 5 percent of normal) depleted topsoil moisture over much of Belarus and northwestern Russia before rain returned to these locales in May.



EASTERN FSU

Cool, wet weather hampered early spring wheat sowing in central Russia and northern Kazakhstan but boosted yield prospects for winter wheat in southern portions of the region. During April, rain and wet snow totaled 100 to 300 percent of normal over most primary spring grain belt of central Russia and northern Kazakhstan. The wet, occasionally chilly

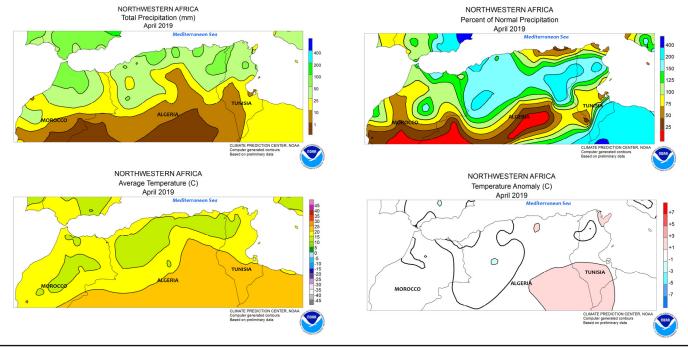
conditions slowed early sowing efforts, though wheat and barley planting typically occurs in May. Farther south, unusually heavy rainfall (100-485 percent of normal) in Uzbekistan and environs boosted irrigation reserves for summer crops (primarily cotton) and provided supplemental moisture for reproductive to filling winter wheat.



MIDDLE EAST

In April, widespread rainfall maintained good to locally excellent yield prospects for winter grains, particularly from southeastern Turkey into western Iran. Precipitation for the month totaled near normal in central Turkey's winter grain belt and more than 200 percent of normal

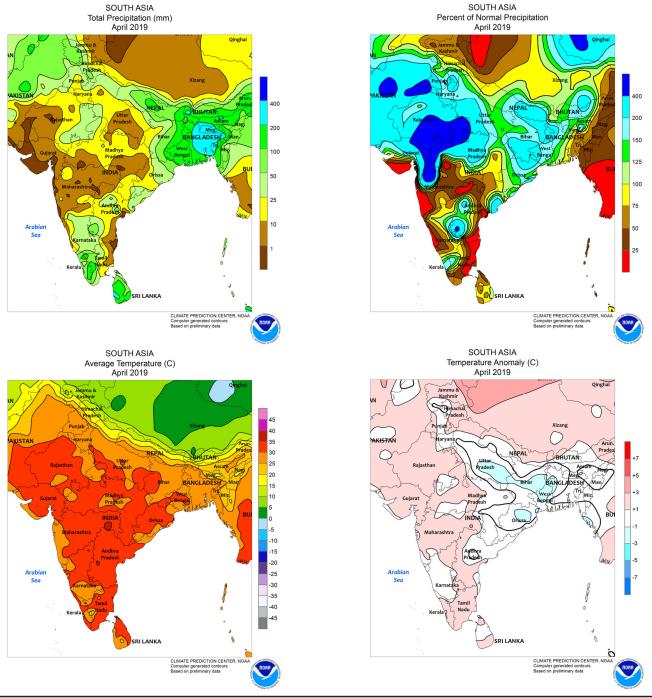
over large tracts of farmland from the eastern Mediterranean Coast into Iran. Wheat and barley progressed through reproduction in southern portions of the region in excellent condition, while crops approached reproduction in the north by month's end.



NORTHWESTERN AFRICA

Above-normal rainfall in April maintained excellent yield prospects for reproductive to filling winter wheat and barley over the eastern half of the region. However, somewhat drier conditions (locally less than 50 percent of normal) were noted

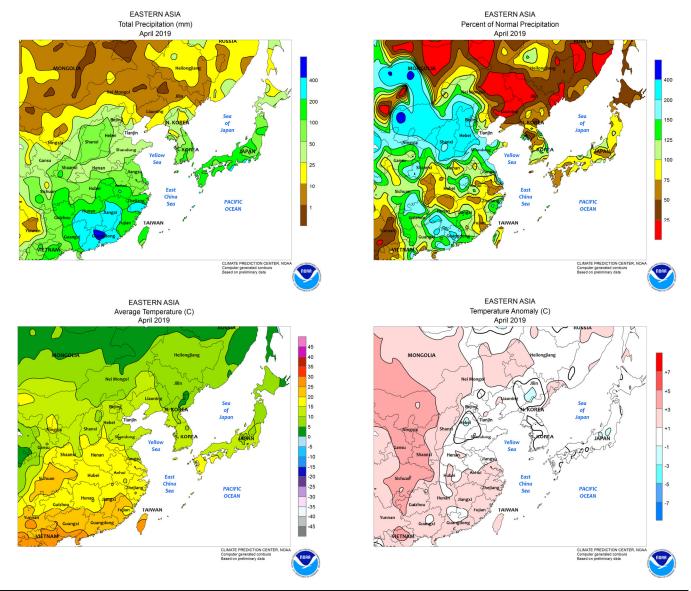
adjacent to the coast, though crop conditions remained very good overall. Conversely, showers in Morocco (more than 50 mm in the north) were too late to improve yields for drought-afflicted wheat and barley.



SOUTH ASIA

Seasonably dry conditions existed across the interior of India during April, with monthly totals generally below 25 mm (higher amounts were reported in outlying areas). In addition to the dry weather, seasonal heat expanded throughout India and into Pakistan, as temperatures routinely surmounted 40°C. Sowing of irrigated cotton and

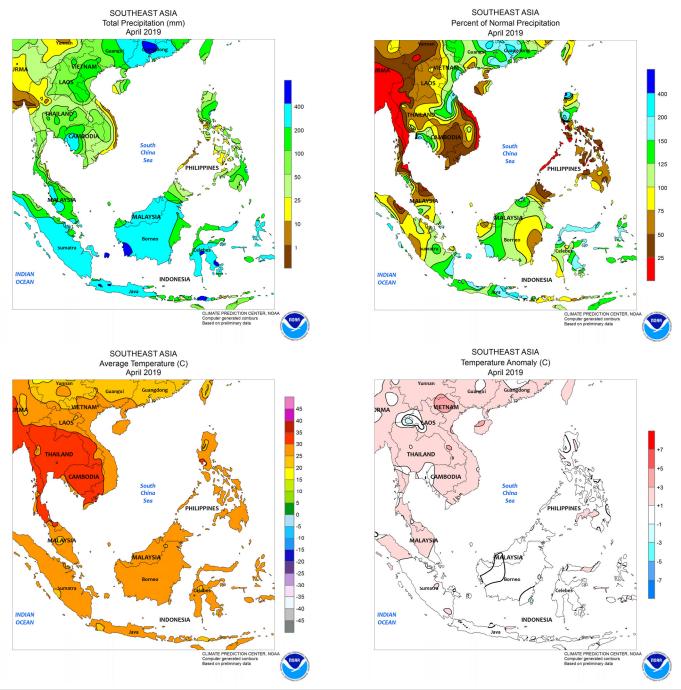
rice in northern India and adjacent areas of Pakistan was underway, while most other crops will be planted once the summer monsoon begins. Elsewhere in the region, consistent showers (50-100 mm or more) in Sri Lanka and Bangladesh maintained adequate water supplies for springsown rice.



EASTERN ASIA

Unseasonably wet weather prevailed across eastern and southern China during April, with rainfall totals surpassing 100 mm in the south and 25 mm in the east. The consistently heavy rainfall in the south maintained favorable water supplies for vegetative early-crop rice as well as encouraging summer crop planting south of the Yangtze River when days were suitable for fieldwork. More periodic rainfall during the

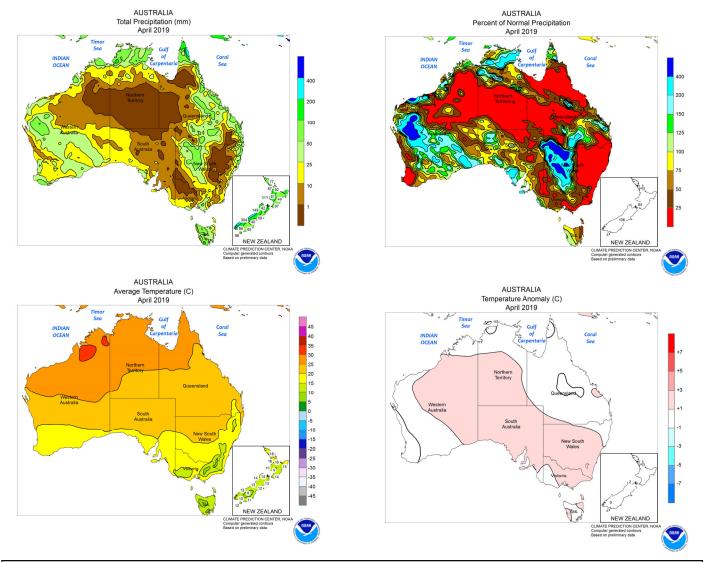
month in eastern wheat areas provided a timely boost to soil moisture as the crop entered reproduction. In other parts of China, soil temperatures warmed sufficiently in the northeast during the latter half of the month to allow sowing of corn, soybeans, and rice. In the west, a warmer-than-normal April allowed cotton planting to proceed earlier than usual, but a cool down by the end of the month slowed emergence.



SOUTHEAST ASIA

During April, the main axis of rainfall remained in southern portions of the region. Most of Indonesia received well-above-normal rainfall (over 200 mm), maintaining good soil moisture for oil palm and water supplies for second-season rice. In contrast, most of Malaysia received below-average rainfall, extending spring moisture deficits for oil palm. To the north, showers across the northern Philippines provided beneficial moisture for summer rice and corn establishment. Rainfall totals surpassed 50 mm throughout the Philippines,

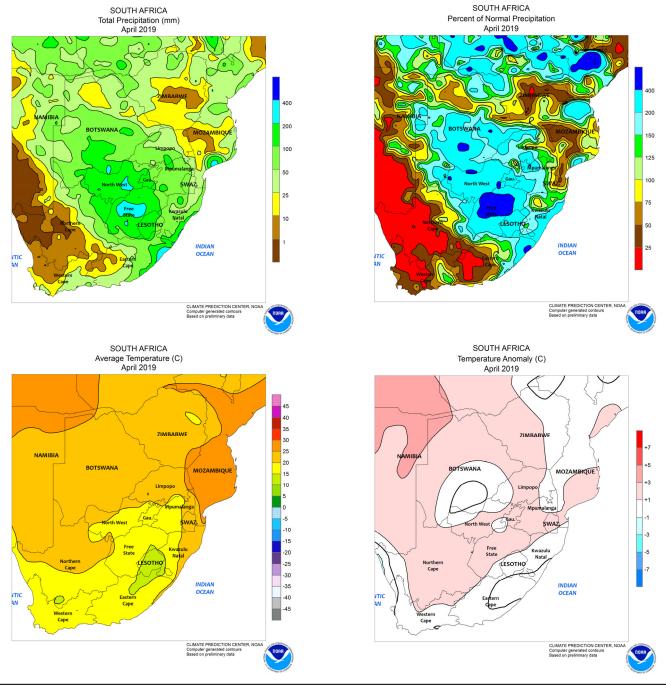
but while the amounts were near to above normal in the north, they were sub-par in central and southern growing areas. Meanwhile in Thailand and environs, periodic showers (25 mm or more) provided some early-season moisture for rice sowing, but producers will wait for the onset of the summer rainy season before beginning widespread sowing. Although in northern Vietnam, periodic heavier showers (over 50 mm) benefited immature winter-spring rice.



AUSTRALIA

During April, mostly dry weather dominated the wheat belt, offering little drought relief in advance of winter crop planting. The dryness allowed cotton, sorghum, and other summer crop harvesting to progress at a rapid pace, but the lack of rain kept the topsoil unfavorably dry for wheat, barley, and canola

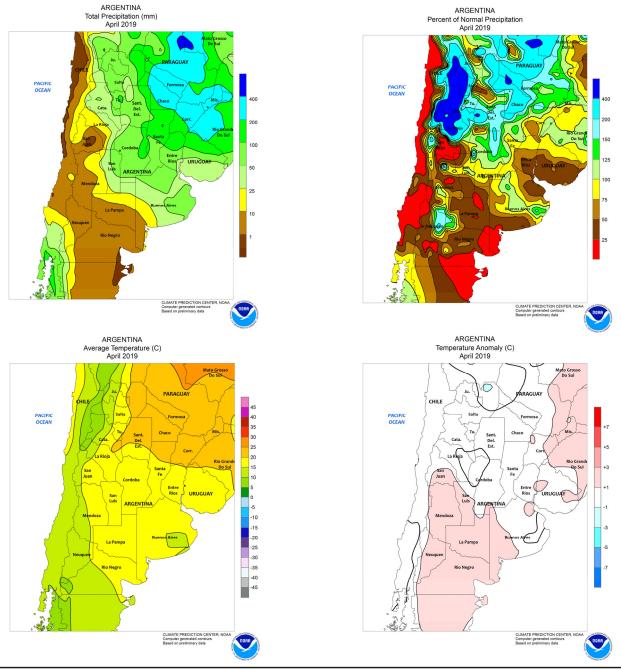
planting in most areas. Consequently, some farmers were reportedly dusting crops into dry fields, but many farmers were waiting to sow hoping soaking rain would arrive soon. Winter crop planting typically begins in April, with most winter grains and oilseeds planted in May and June.



SOUTH AFRICA

In April, unseasonably heavy rain helped to recharge soil moisture in advance of the upcoming winter wheat season, though the moisture came too late to significantly improve crop prospects in western sections of the corn belt. In eastern commercial farming areas (Northwest and Mpumalanga southeastward into Eastern Cape and KwaZulu-Natal), much of the rainfall was recorded over a brief period during the second half of the month, pushing monthly totals upwards of

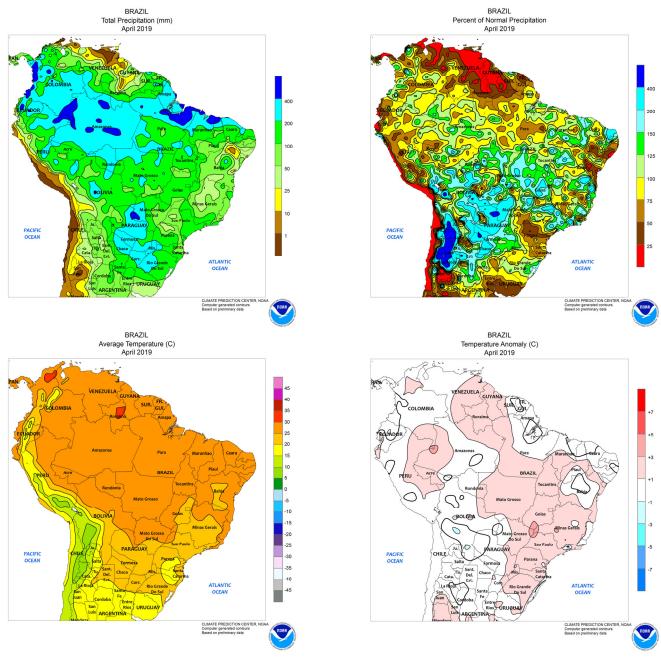
200 percent of normal (monthly accumulations in excess of 100 mm at many locations). Temperatures averaged near to slightly above normal during April, though seasonal cooling occurred, occasionally allowing nighttime lows to fall below 5°C. Farther west, showers improved planting moisture for wheat in southern production areas of Western Cape, but drier conditions prevailed in farmlands in northwestern sections of the province.



ARGENTINA

Periods of locally heavy rain during April disrupted summer crop harvesting while increasing moisture for germination of winter grains. Monthly accumulations exceeding 100 mm were recorded from Cordoba north- and northeast-ward over a broad region stretching from Salta to Corrientes. The moisture was particularly untimely for mature cotton in northeastern production areas (notably northern Santa Fe, Chaco, and

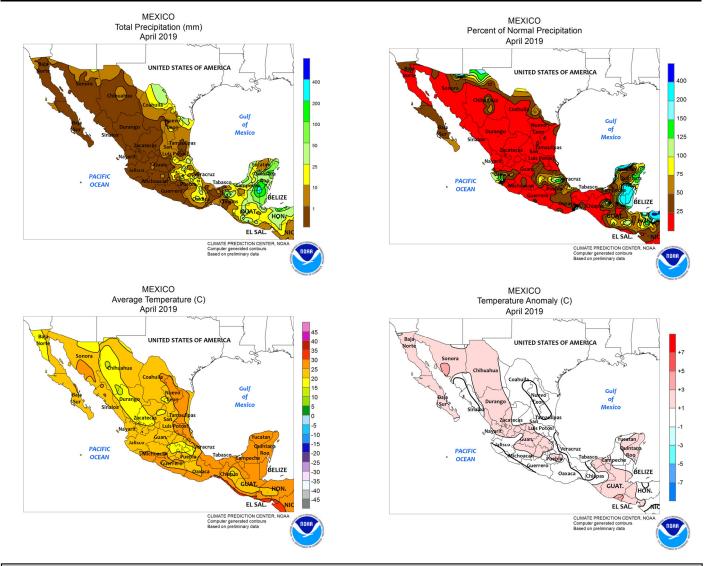
Formosa), where accumulations of 200 to more than 300 mm were recorded. Rainfall was less frequent in southern farming areas (La Pampa, Buenos Aires, and Entre Rios), supporting harvesting of corn, soybeans, and sunflowers. Monthly temperatures averaged 1 to 2°C above normal throughout the country, with only localized frost (nighttime lows falling near 0°C), favoring a rapid pace of summer crop maturation.



BRAZIL

The extension of seasonal showers through the latter half of April sustained favorable levels of moisture for corn and cotton in primary production areas of central and northeastern Brazil. Monthly rainfall accumulations exceeded 100 mm throughout much of the Center-West and northeastern interior regions (Mato Grosso and northern Mato Grosso do Sul northeastward through western Bahia and environs), with totals in excess of 200 mm in northern sections of Mato Grosso and Tocantins. Summer warmth (daytime highs reaching the middle and upper 30s degrees) sustained rapid rates of crop

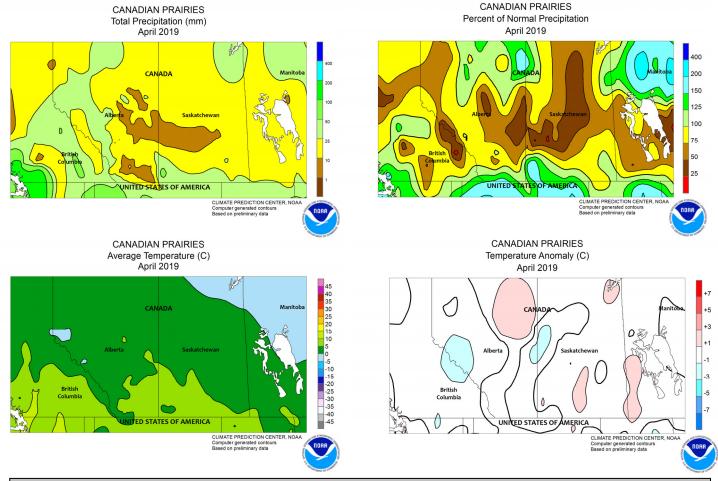
development in the aforementioned areas. Farther south, April rainfall was patchy, with pockets of dryness (monthly rainfall totaling below 100 mm) centered over northern Parana and nearby locations in Mato Grosso do Sul and Sao Paulo. Rain was more frequent and closer to normal in Rio Grande do Sul. April rainfall was near to above normal in northern Sao Paulo and Minas Gerais, providing a late-season boost in moisture for sugarcane and coffee, with early month heavy rain followed by seasonably drier, sunny weather during the latter half of the month.



MEXICO

Inconsistent rainfall during the month of April resulted in planting delays of corn and other rain-fed summer crops. Eastern sections of the southern plateau corn belt (Puebla and environs) received only isolated showers. Similarly, unseasonable dryness prevailed in Veracruz, limiting moisture for sugarcane, and many other southeastern farming areas. Elsewhere, widely scattered showers (monthly accumulations reaching 25 mm locally) provided little additional moisture for immature winter sorghum in and

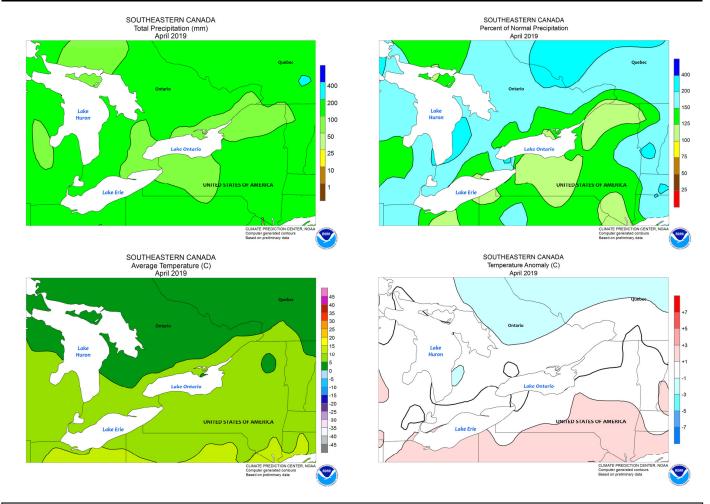
around Tamaulipas. Seasonable dryness dominated from the southern Pacific Coast (Guerrero westward) to the northwest (Chihuahua to Baja Norte) where above-normal temperatures (daytime highs periodically reaching the upper 30s degrees C) fostered rapid development of winter corn and wheat. Planting of corn and other rain-fed summer crops typically occurs in western sections of the southern plateau (including Michoacan and Jalisco) upon the arrival of seasonal rainfall in May.



CANADIAN PRAIRIES

Spring grain and oilseed planting began toward the end of April, aided by scattered showers and seasonal warming. While lingering snow cover contributed to some fieldwork delays in Manitoba, snow-fire fields allowed planting to progress in all but northern-most farming areas of Alberta and Saskatchewan, in locations where soils had adequate warmth and moisture for germination. Monthly average temperatures were near to slightly above normal, reaching 5°C in many locations by the middle of April. Although the

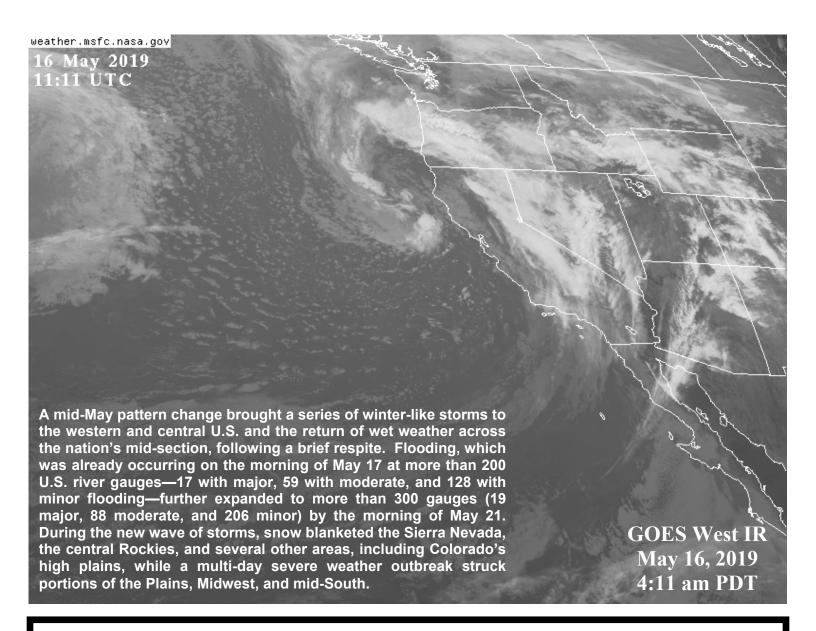
early warmth aided growth of winter wheat and pastures, nighttime lows continued to drop well below freezing (-5°C or lower) throughout the month, limiting growth of vegetation and reportedly inhibiting germination of early planted spring crops in some areas. April precipitation was variable, with monthly accumulations ranging from 2 to 15 mm in Alberta and northern agricultural districts in Saskatchewan and 15 to more than 25 mm across southern Saskatchewan into Manitoba.



SOUTHEASTERN CANADA

Mild, wet conditions prevailed during April, with seasonal warming allowing winter wheat to break dormancy during the latter half of the month. Precipitation was near to above normal throughout the major agricultural areas of Ontario and Quebec, with much of the precipitation falling as rain; at month's end, however, a moderate to deep snow cover

(greater than 10 cm) remained over much of Quebec. April temperatures averaged within 1°C of normal (3-7°C), with seasonal warming evident; however, while freezes became less frequent as the month progressed, nighttime lows fell below 0°C in Ontario's southern-most agricultural areas on April 29.



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.

Correspondence to the meteorologists should be directed to: Weekly Weather and Crop Bulletin, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 4443B, Washington, DC 20250.

Internet URL: http://www.usda.gov/oce/weather E-mail address: brippey@oce.usda.gov

The Weekly Weather and Crop Bulletin and archives are maintained on the following USDA Internet URL: http://www.usda.gov/oce/weather/pubs/Weekly/Wwcb/index.htm

U.S. DEPARTMENT OF AGRICULTURE World Agricultural Outlook Board

Managing Editor	Brad Rippey (202) 720-2397
Production Editor	Brian Morris (202) 720-3062
International Editor	Mark Brusberg (202) 720-2012
Agricultural Weather Analysts	Harlan Shannon
	and Eric Luchohuson

National Agricultural Statistics Service

U.S. DEPARTMENT OF COMMERCE

National Oceanic and Atmospheric Administration
National Weather Service/Climate Prediction Center
Meteorologists...... David Miskus, Brad Pugh, Adam Allgood,
and Rich Tinker

USDA is an equal opportunity provider and employer. To file a complaint of discrimination, write: USDA, Office of the Assistant Secretary for Civil Rights, Office of Adjudication, 1400 Independence Ave., SW, Washington, DC 20250-9410 or call (866) 632-9992 (Toll-Free Customer Service), (800) 877-8339 (Local or Federal relay), (866) 377-8642 (Relay voice users).