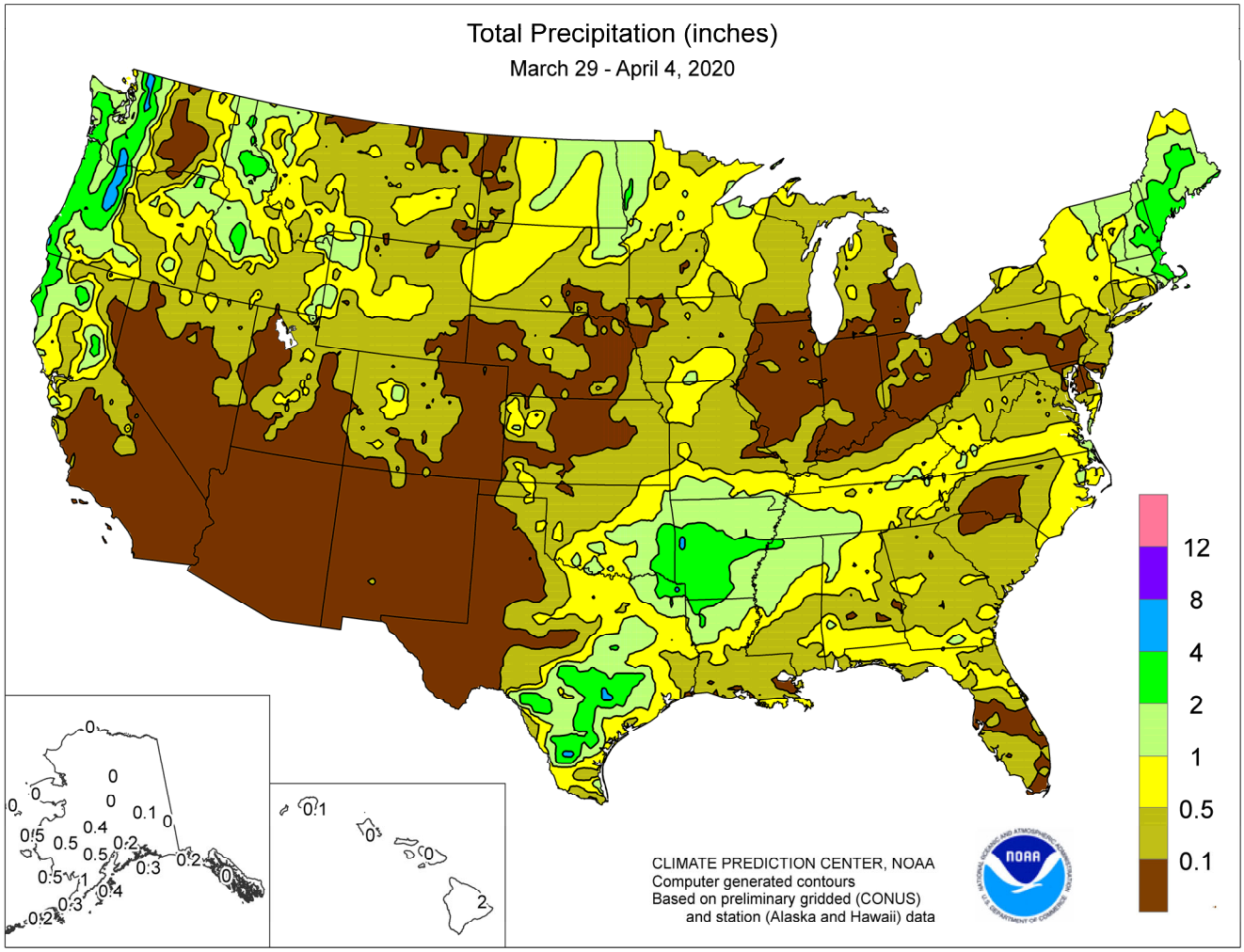
Volume 107, No. 14 http://www.usda.gov/oce/weather April 7, 2020

WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service
and World Agricultural Outlook Board



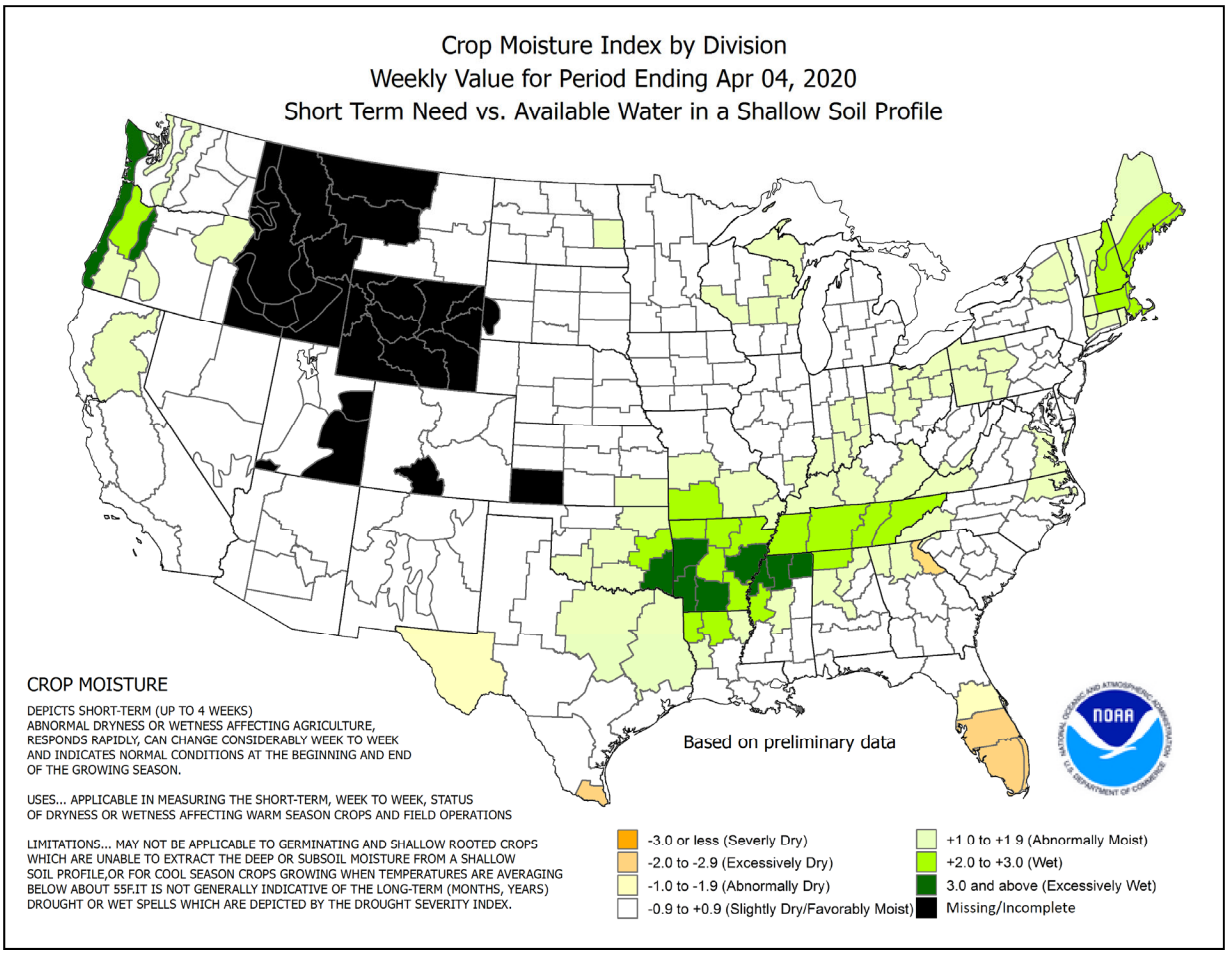
HIGHLIGHTS
March 29 – April 4, 2020

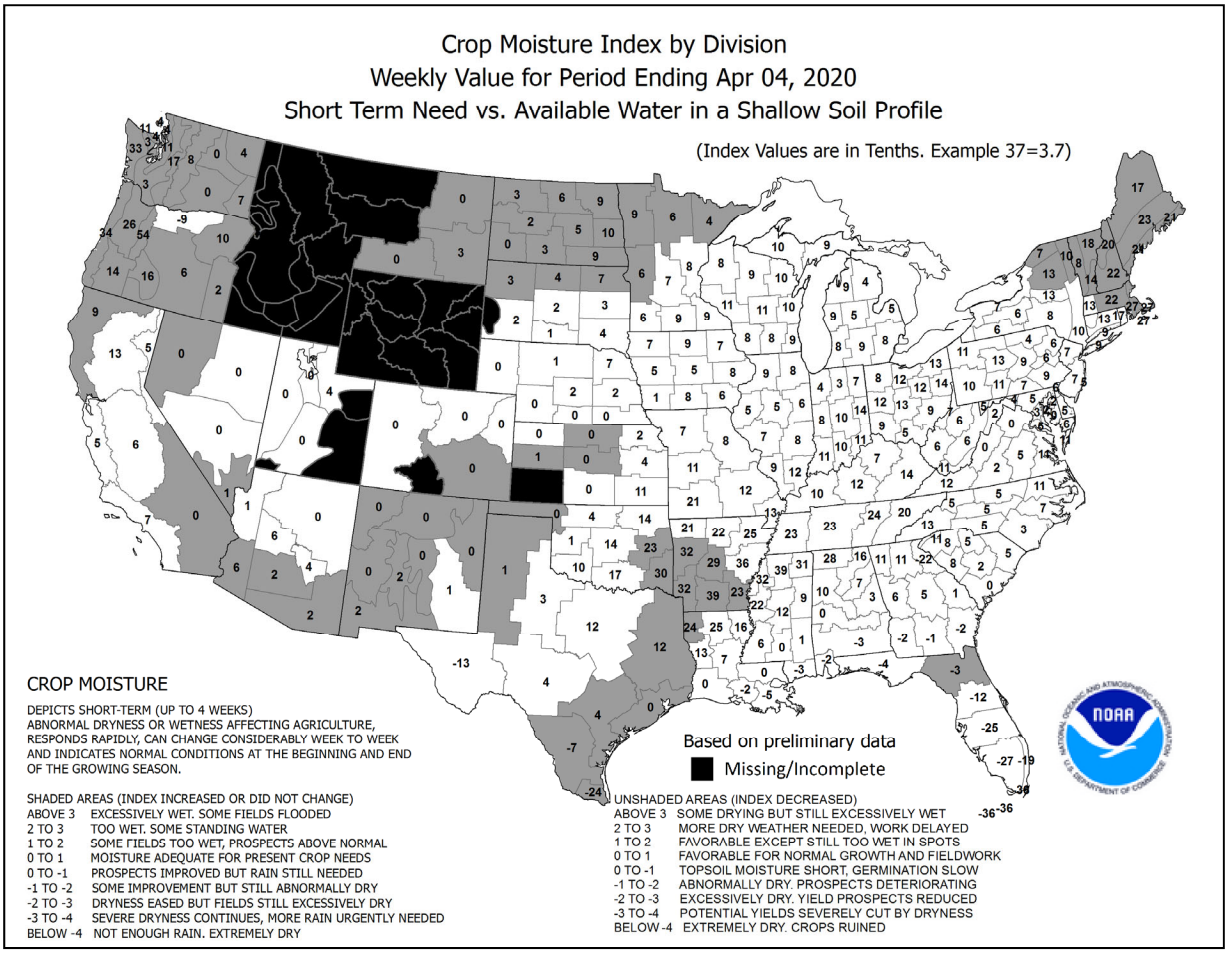
Highlights provided by USDA/WAOB

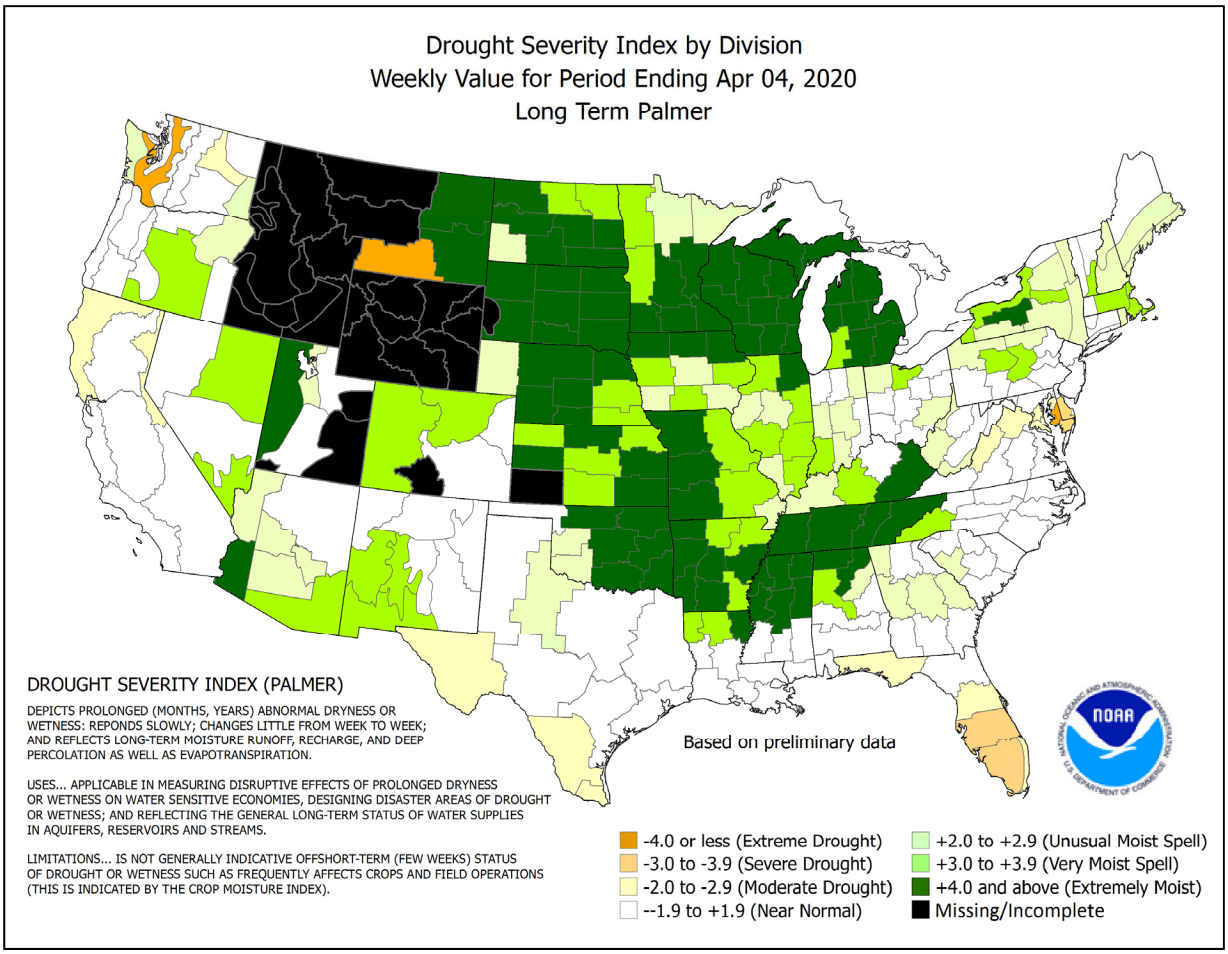
From April 1-3, a late-season storm delivered wintry precipitation across the **north-central U.S.**, increasing the likelihood of major spring flooding in parts of the **Red River Valley (of the North)** and environs. Storm-total snowfall reached 6 to 16 inches across **eastern North Dakota** and **northwestern Minnesota**. Meanwhile, separate areas of significant precipitation affected **New England**, the **Pacific Northwest**, and an area stretching from **south-central Texas into the mid-South**. **Northeastern** precipitation, sparked by an **Atlantic**

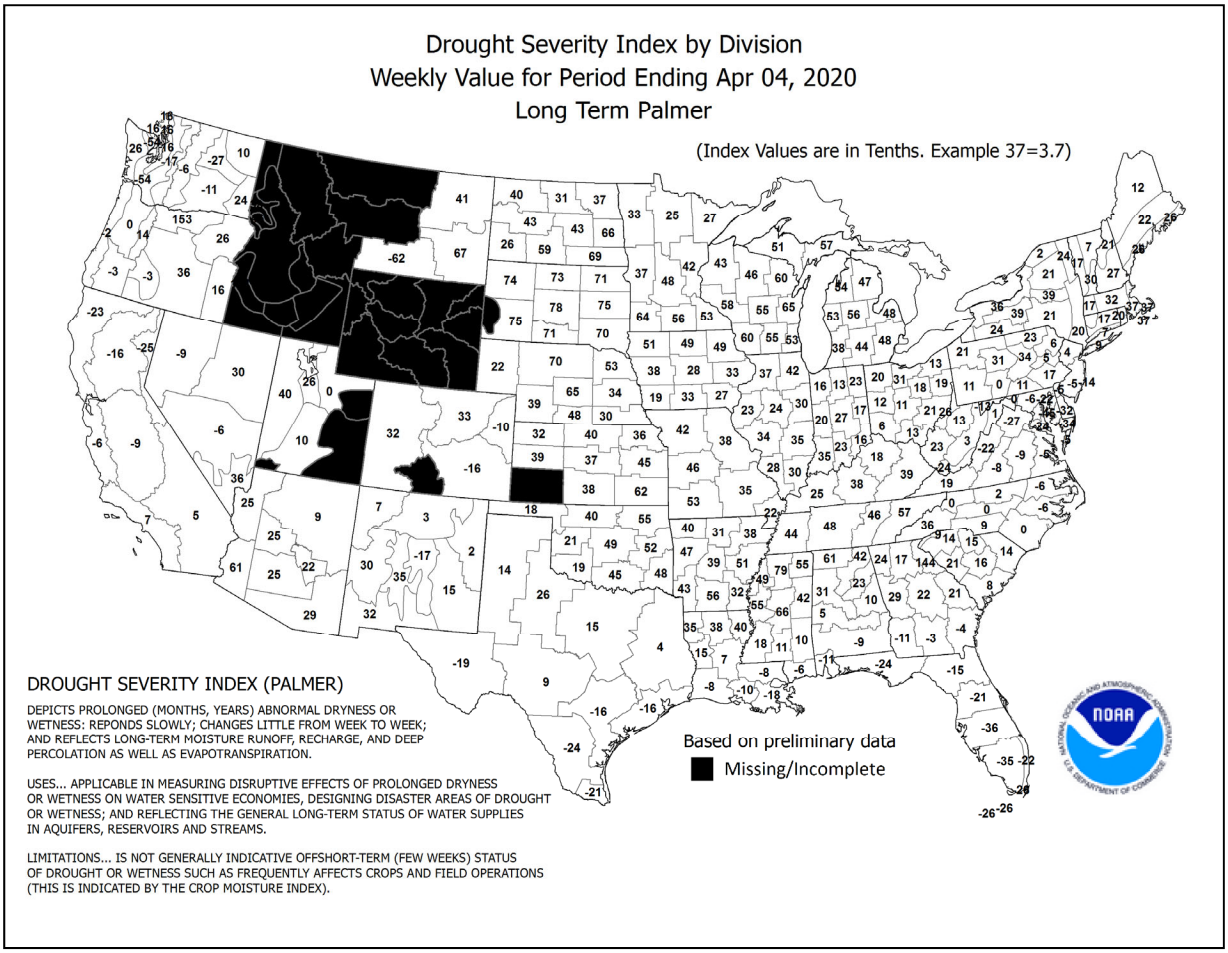
(Continued on page 5)

Contents


Crop Moisture Index by Division
Weekly Value for Period Ending Apr 04, 2020
Short Term Need vs. Available Water in a Shallow Soil Profile
CROP MOISTURE
DEPICTS SHORT-TERM (UP TO 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.
USES... APPLICABLE IN MEASURING THE SHORT-TERM, WEEK TO WEEK, STATUS OF DRYNESS OR WETNESS AFFECTING WARM SEASON CROPS AND FIELD OPERATIONS
LIMITATIONS... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A SHALLOW SOIL PROFILE,OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55F.IT IS NOT GENERALLY INDICATIVE OF THE LONG-TERM (MONTHS, YEARS) DROUGHT OR WET SPELLS WHICH ARE DEPICTED BY THE DROUGHT SEVERITY INDEX.
Based on preliminary data
-3.0 or less (Severly Dry)
-2.0 to -2.9 (Excessively Dry)
-1.0 to -1.9 (Abnormally Dry)
-0.9 to +0.9 (Slightly Dry/Favorably Moist)
+1.0 to +1.9 (Abnormally Moist)
+2.0 to +3.0 (Wet)
3.0 and above (Excessively Wet)
Missing/Incomplete
NOAA


Crop Moisture Index by Division
Weekly Value for Period Ending Apr 04, 2020
Short Term Need vs. Available Water in a Shallow Soil Profile
(Index Values are in Tenths. Example 37=3.7)
CROP MOISTURE
DEPICTS SHORT-TERM (UP TO 4 WEEKS) ABNORMAL DRYNESS OR WETNESS AFFECTING AGRICULTURE, RESPONDS RAPIDLY, CAN CHANGE CONSIDERABLY WEEK TO WEEK AND INDICATES NORMAL CONDITIONS AT THE BEGINNING AND END OF THE GROWING SEASON.
SHADED AREAS (INDEX INCREASED OR DID NOT CHANGE)
ABOVE 3 EXCESSIVELY WET. SOME FIELDS FLOODED
2 TO 3 TOO WET. SOME STANDING WATER
1 TO 2 SOME FIELDS TOO WET, PROSPECTS ABOVE NORMAL
0 TO 1 MOISTURE ADEQUATE FOR PRESENT CROP NEEDS
0 TO -1 PROSPECTS IMPROVED BUT RAIN STILL NEEDED
-1 TO -2 SOME IMPROVEMENT BUT STILL ABNORMALLY DRY
-2 TO -3 DRYNESS EASED BUT FIELDS STILL EXCESSIVELY DRY
-3 TO -4 SEVERE DRYNESS CONTINUES, MORE RAIN URGENTLY NEEDED
BELOW -4 NOT ENOUGH RAIN. EXTREMELY DRY
Based on preliminary data
Missing/Incomplete
UNSHADED AREAS (INDEX DECREASED)
ABOVE 3 SOME DRYING BUT STILL EXCESSIVELY WET
2 TO 3 MORE DRY WEATHER NEEDED. WORK DELAYED
1 TO 2 FAVORABLE EXCEPT STILL TOO WET IN SPOTS
0 TO 1 FAVORABLE FOR NORMAL GROWTH AND FIELDWORK
0 TO -1 TOPSOIL MOISTURE SHORT. GERMINATION SLOW
-1 TO -2 ABNORMALLY DRY. PROSPECTS DETERIORATING
-2 TO -3 EXCESSIVELY DRY. YIELD PROSPECTS REDUCED
-3 TO -4 POTENTIAL YIELDS SEVERELY CUT BY DRYNESS
BELOW -4 EXTREMELY DRY. CROPS RUINED
NOAA


Drought Severity Index by Division
Weekly Value for Period Ending Apr 04, 2020
Long Term Palmer
DROUGHT SEVERITY INDEX (PALMER)
DEPICTS PROLONGED (MONTHS, YEARS) ABNORMAL DRYNESS OR WETNESS: REPONDS SLOWLY; CHANGES LITTLE FROM WEEK TO WEEK; AND REFLECTS LONG-TERM MOISTURE RUNOFF, RECHARGE, AND DEEP PERCOLATION AS WELL AS EVAPOTRANSPIRATION.
USES... APPLICABLE IN MEASURING DISRUPTIVE EFFECTS OF PROLONGED DRYNESS OR WETNESS ON WATER SENSITIVE ECONOMIES, DESIGNING DISASTER AREAS OF DROUGHT OR WETNESS; AND REFLECTING THE GENERAL LONG-TERM STATUS OF WATER SUPPLIES IN AQUIFERS, RESERVOIRS AND STREAMS.
LIMITATIONS... IS NOT GENERALLY INDICATIVE OFFSHORT-TERM (FEW WEEKS) STATUS OF DROUGHT OR WETNESS SUCH AS FREQUENTLY AFFECTS CROPS AND FIELD OPERATIONS (THIS IS INDICATED BY THE CROP MOISTURE INDEX).
Based on preliminary data
-4.0 or less (Extreme Drought)
-3.0 to -3.9 (Severe Drought)
-2.0 to -2.9 (Moderate Drought)
--1.9 to +1.9 (Near Normal)
+2.0 to +2.9 (Unusual Moist Spell)
+3.0 to +3.9 (Very Moist Spell)
+4.0 and above (Extremely Moist)
Missing/Incomplete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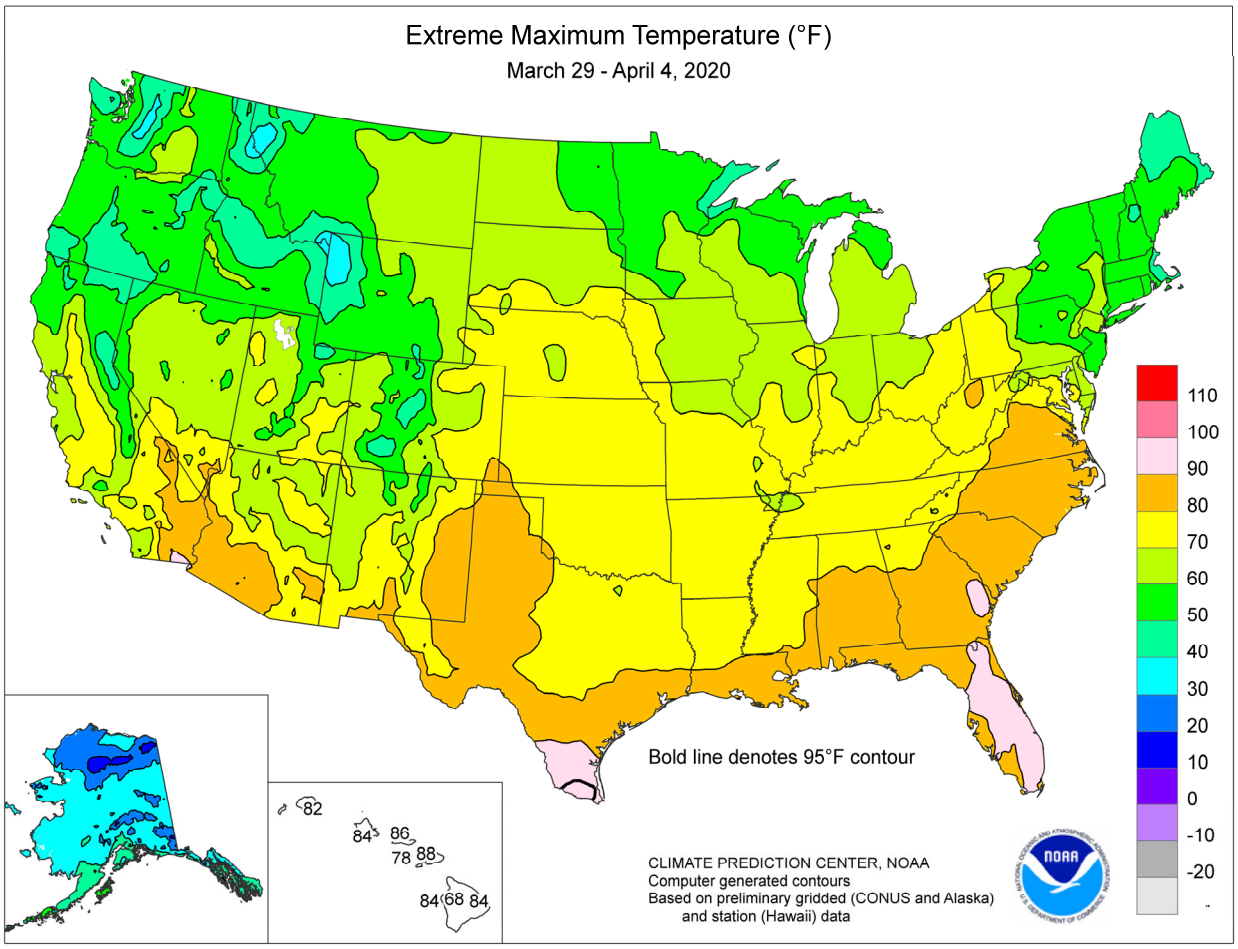
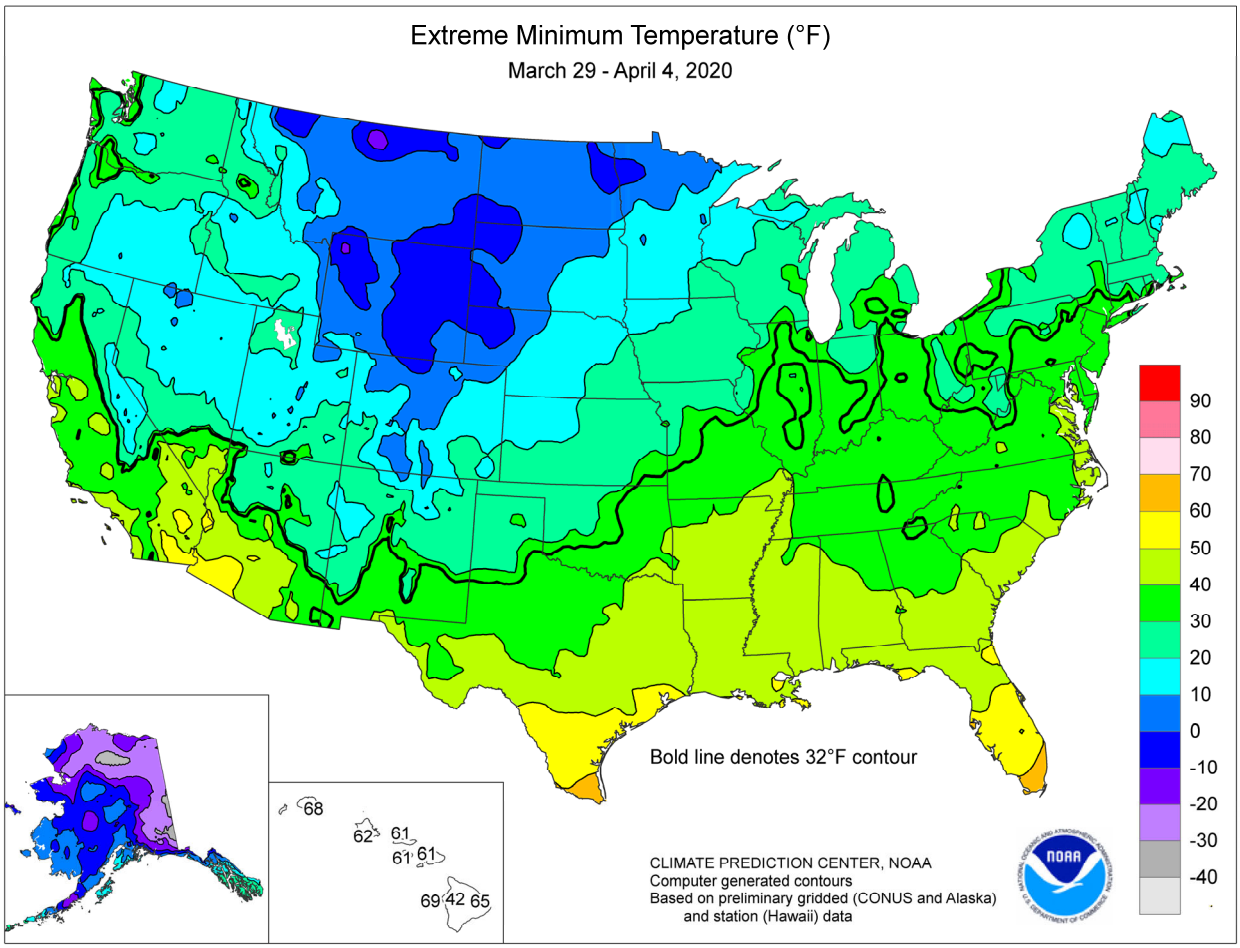
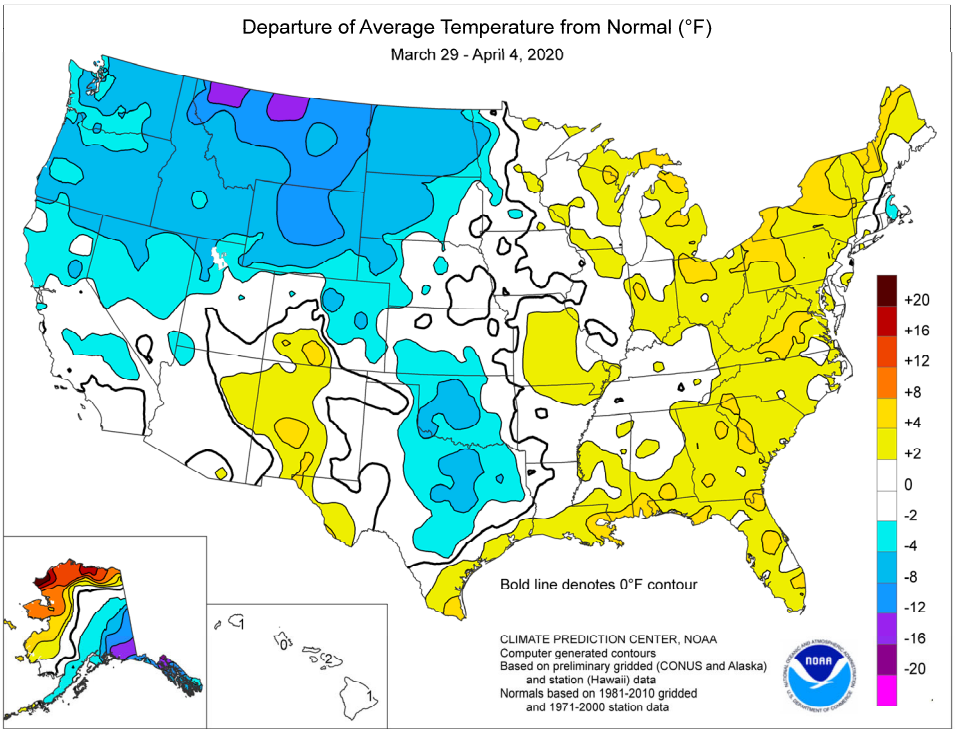

Extreme Maximum Temperature (°F)
March 29 - April 4, 2020
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
82
84
86
78
88
84
68
84
Bold line denotes 95°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS and Alaska)
and station (Hawaii) data


Extreme Minimum Temperature (°F)
March 29 - April 4, 2020
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
68
62
61
61
61
69
42
65
Bold line denotes 32°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS and Alaska)
and station (Hawaii) data

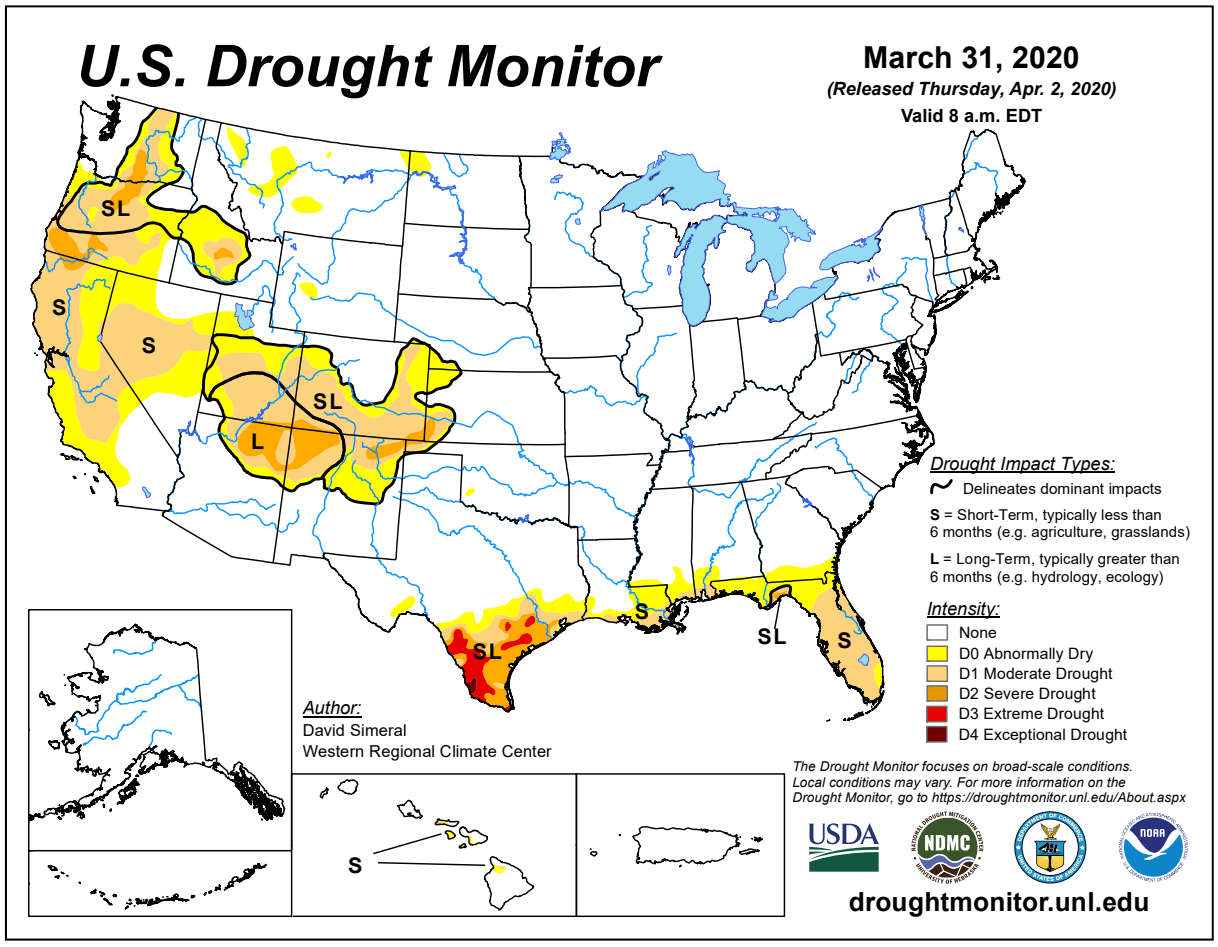
(Continued from front cover)
coastal storm, was accompanied by gusty winds, while late-week rain in **southern Texas** provided local drought relief. In contrast, generally dry weather prevailed throughout the week in **southern Florida**, the **eastern Corn Belt**, and a broad area covering **southern California**, the **Southwest**, and the **central and southern High Plains**. Developing drought in **Florida** maintained heavy irrigation demands and an elevated threat of wildfires. Elsewhere, below-normal temperatures affected the **Northwest** and large sections of the **Plains**, while warmer-than-normal conditions dominated the **East**. Weekly temperatures averaged 5 to 15°F below normal in **Montana** and portions of neighboring states, while readings were as much as 5°F above normal across the **lower Southeast**.

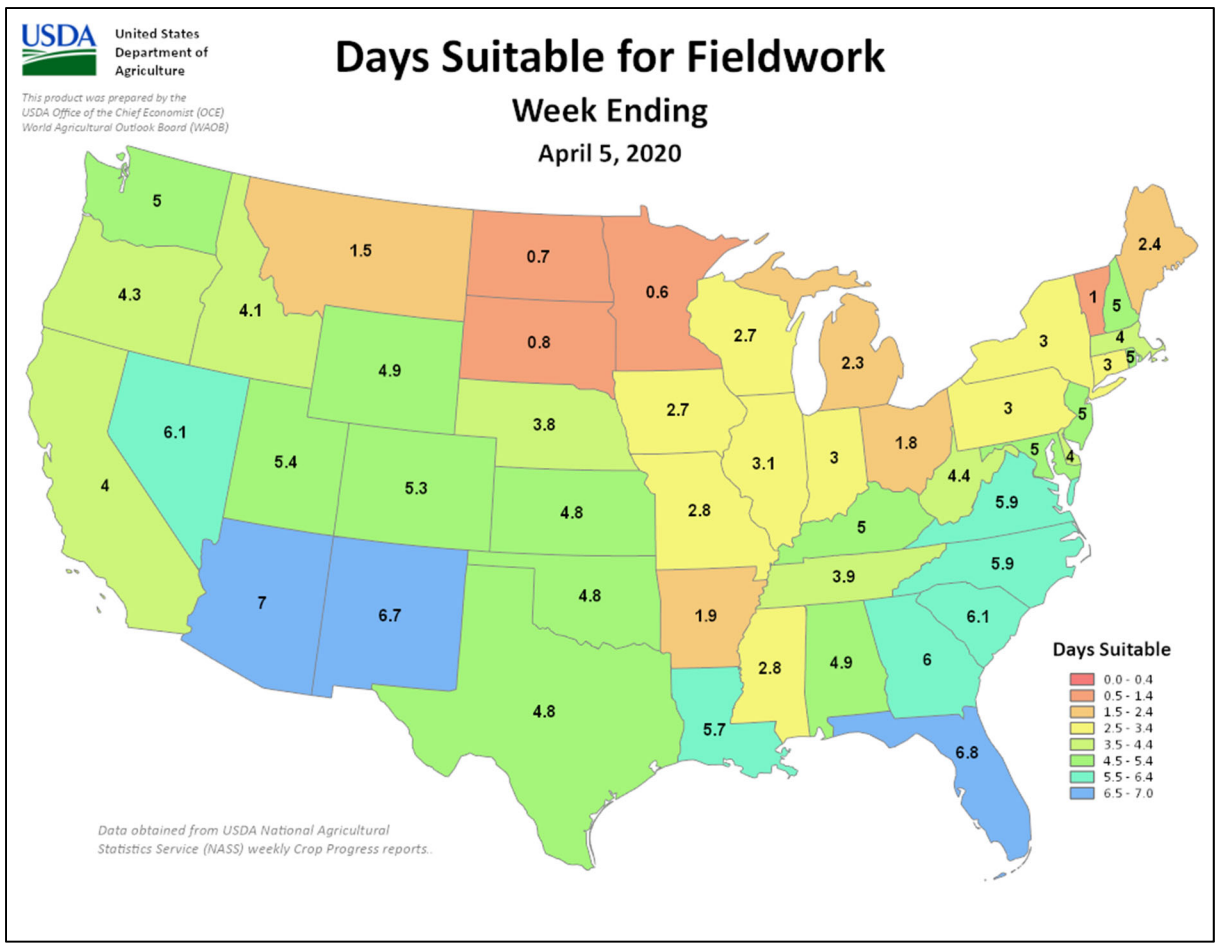


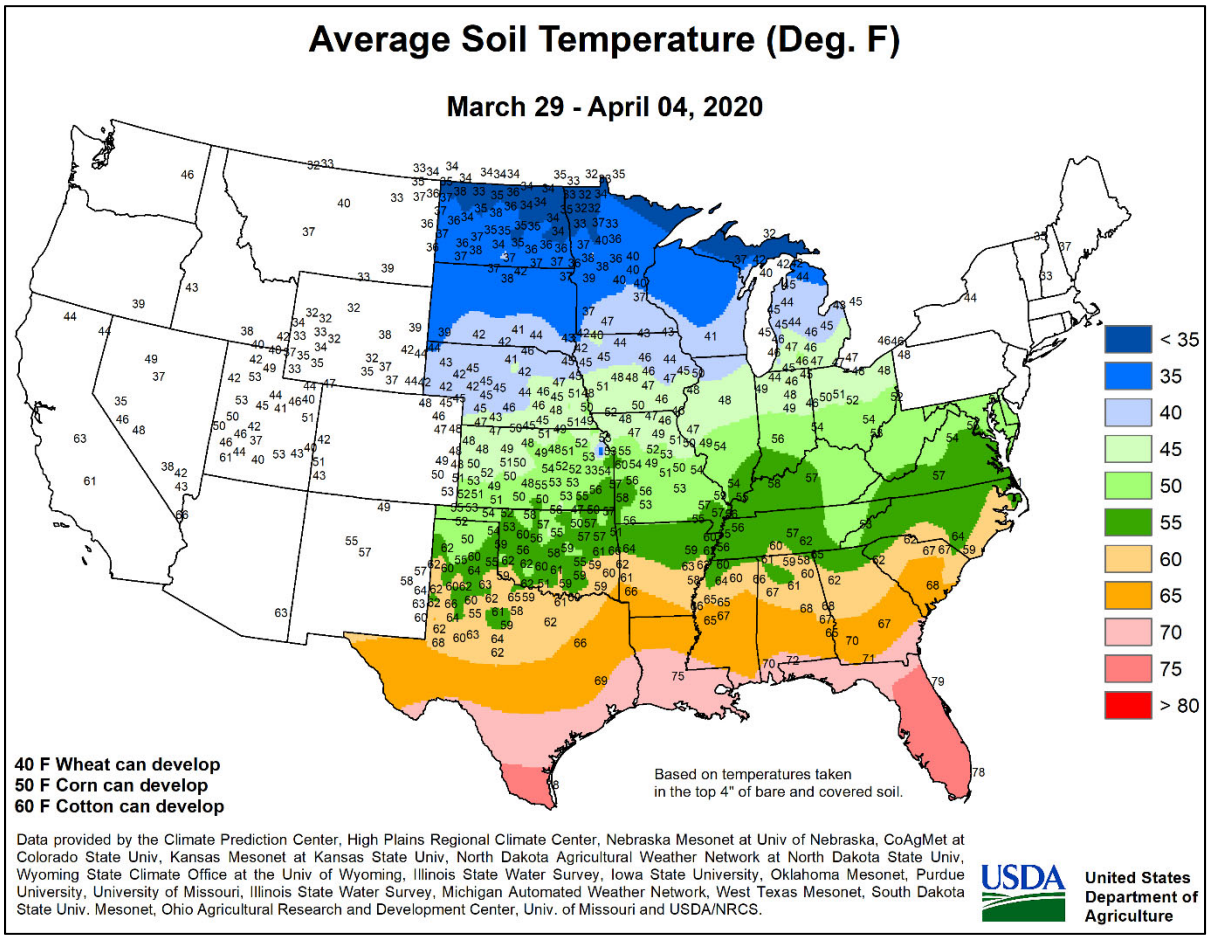
March ended amid lingering warmth in the **Southeast**. On March 29, daily-record highs soared to the 90-degree mark or higher in **Savannah, GA** (90°F); **Jacksonville, FL** (91°F); and **Fort Myers, FL** (91°F). In fact, **Fort Myers** reached or exceeded 90°F on March 14, 18-20, and 26-30, setting a March record. Previously, **Fort Myers'** record of 4 days with 90-degre heat in March had been set in 1929, 1944, and 1949. Similarly, **Jacksonville, FL**, set a March record with 5 days of 90-degree heat (previously, 4 days in 1907). On the last day of March, monthly records were tied in **Florida** locations such as **Vero Beach** and **Fort Pierce** with highs of 93°F. Cooler air arrived across the **Southeast** in early April, while winter-like weather overspread the **northern Plains** and parts of the **West**. On April 2-3, consecutive daily-record lows were set in **Miles City, MT** (6 and 2°F), and **Worland, WY** (6 and 2°F). **Miles City's** low of 2°F also broke a monthly record, previously achieved with a reading of 4°F on April 1, 2014. Elsewhere in **Montana**, **Havre** notched a daily-record low of -12°F on April 2, the day after a 3.5-inch snowfall. In **Washington**, daily-record lows for April 2 included 20°F in **Yakima** and 27°F in **Wenatchee**. On April 3, sub-zero, daily-record lows plunged to -5°F in **Casper, WY**, and -1°F in **Rapid City, SD**. With a low of -5°F on April 4, **Grand Forks, ND**, also tallied a sub-zero, daily-record low.

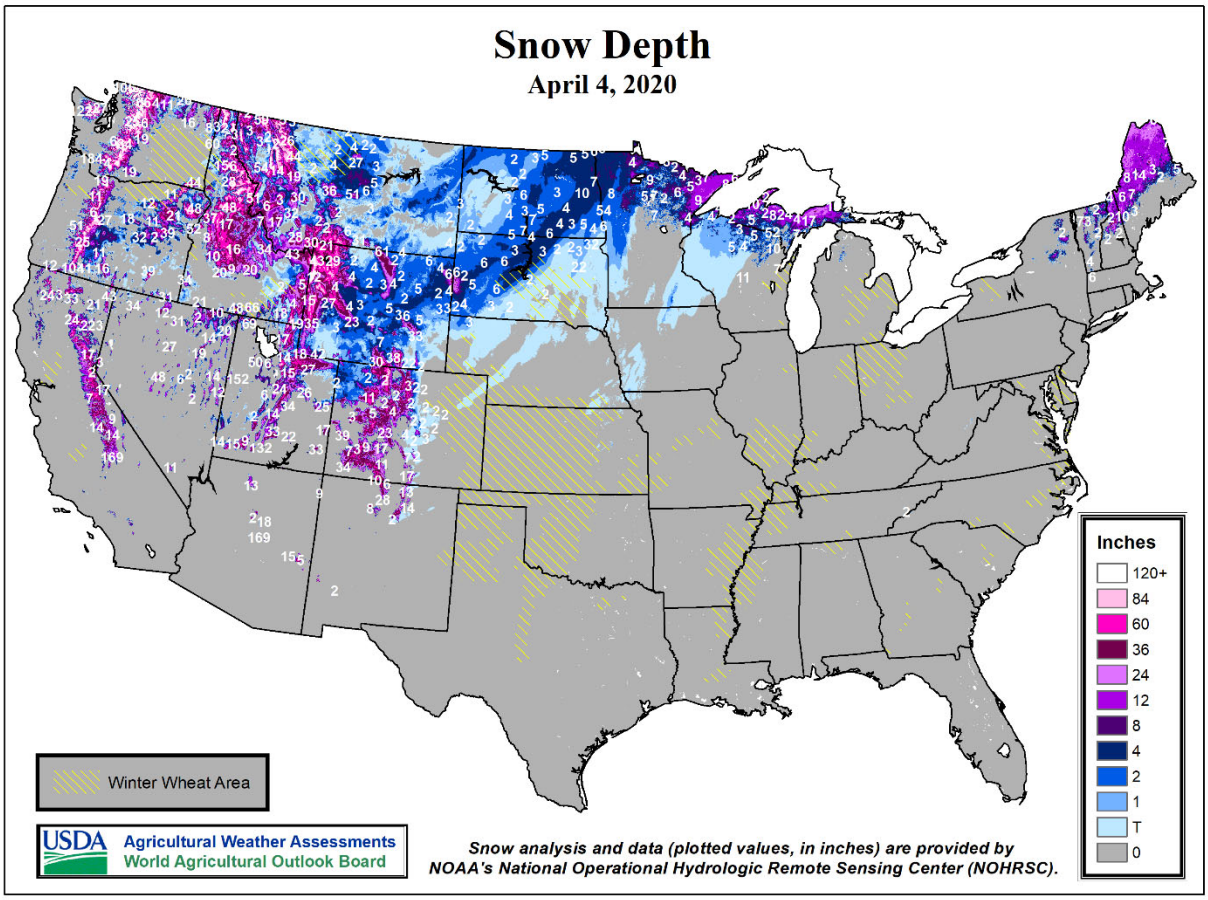
The **Northern** cold snap followed a late-season storm. April 1-3 snowfall reached 11.0 inches at the National Weather Service office in **Grand Forks**; 9.1 inches in **East Rapid City, SD**; 7.8 inches in **Casper, WY**; 6.2 inches in **Mobridge, SD**; and 6.1 inches in **Bismarck, ND**. **Grass Range, MT**, received 9.0 inches of snow in a 24-hour period on March 31 – April 1. Earlier in the week, precipitation had fallen in several other areas. For example, record-setting **Northeastern** totals for March 29 included 0.84 inch in **Massena, NY**, and 0.67 inch in **Saint Johnsbury, VT**. On the same date, **Marquette, MI**, collected 1.18 inches, including snowfall totaling 0.8 inch. By March 30, precipitation overspreading the **Northwest** resulted in a daily-record sum (0.89 inch) in **Olympia, WA**. Late in the week, heavy showers in **Texas** resulted in daily-record totals in **Austin (Bergstrom)**, with 2.20 inches on April 3, and **San Antonio**, with 2.06 inches on April 4. Meanwhile in **Florida**, **Lakeland** completed its driest March and first month without a drop of rain since October 2010. **Tampa, FL**, finished its first month without measurable rain since October 2010—and tied a March record (previously set in 1907 and 2006) with only a trace of rain.

Mild, mostly dry weather across **Alaska's northern tier** contrasted with unsettled conditions across the remainder of the mainland and a cold, dry regime in **southeastern Alaska**. **Fairbanks** netted a daily-record precipitation total (0.39 inch, including 2.8 inches of snow) on April 4, boosting its snow depth to 30 inches. A year ago, in the spring of 2019, **Fairbanks** lost its continuous seasonal snow cover on April 4, when the depth dropped to a trace. Similarly, **Anchorage** received 5.0 inches of snow from April 2-4 and reported a snow depth of 22 inches on the 3rd—but a year ago had lost its continuous snow cover by March 31. Meanwhile, **Nome** noted precipitation totaling 0.83 inch during the first 4 days of April. By week's end, warmth expanded across much of **Alaska**, leading to daily-record highs of 57°F on April 4 in **Cold Bay** and **Kodiak**. The only higher April temperature in **Cold Bay** had occurred on April 15, 1965, with a high of 58°F. In contrast, **Juneau** posted a daily-record low of 14°F on April 1. Farther south, much of **Hawaii** experienced a dry week, although locally heavy showers continued in some windward locations. On the **Big Island**, **Hilo's** weekly sum of 4.23 inches was aided by a 1.95-inch total on March 29. In fact, March turned out to be a very wet month across much of **Hawaii**, with totals reaching 27.95 inches (208 percent of normal) in **Hilo** and 15.62 inches (339 percent) in **Lihue, Kauai**. It was **Hilo's** wettest month since August 2018 and **Lihue's** wettest month since March 2012.


U.S. Drought Monitor
March 31, 2020
(Released Thursday, Apr. 2, 2020)
Valid 8 a.m. EDT
SL
S
S
SL
L
S
SL
S
S
Drought Impact Types:
Delineates dominant impacts
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)
Intensity:
None
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought
Author:
David Simeral
Western Regional Climate Center
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx
droughtmonitor.unl.edu


USDA United States Department of Agriculture
This product was prepared by the USDA Office of the Chief Economist (OCE) World Agricultural Outlook Board (WAOB)
Days Suitable for Fieldwork
Week Ending
April 5, 2020
Days Suitable
0.0 - 0.4
0.5 - 1.4
1.5 - 2.4
2.5 - 3.4
3.5 - 4.4
4.5 - 5.4
5.5 - 6.4
6.5 - 7.0
Data obtained from USDA National Agricultural Statistics Service (NASS) weekly Crop Progress reports.


Average Soil Temperature (Deg. F)
March 29 - April 04, 2020
< 35
35
40
45
50
55
60
65
70
75
> 80
40 F Wheat can develop
50 F Corn can develop
60 F Cotton can develop
Based on temperatures taken
in the top 4" of bare and covered soil.
Data provided by the Climate Prediction Center, High Plains Regional Climate Center, Nebraska Mesonet at Univ of Nebraska, CoAgMet at Colorado State Univ, Kansas Mesonet at Kansas State Univ, North Dakota Agricultural Weather Network at North Dakota State Univ, Wyoming State Climate Office at the Univ of Wyoming, Illinois State Water Survey, Iowa State University, Oklahoma Mesonet, Purdue University, University of Missouri, Illinois State Water Survey, Michigan Automated Weather Network, West Texas Mesonet, South Dakota State Univ. Mesonet, Ohio Agricultural Research and Development Center, Univ. of Missouri and USDA/NRCS.
USDA
United States Department of Agriculture


Snow Depth
April 4, 2020
Inches
120+
84
60
36
24
12
8
4
2
1
T
0
Winter Wheat Area
USDA Agricultural Weather Assessments
World Agricultural Outlook Board
Snow analysis and data (plotted values, in inches) are provided by
NOAA's National Operational Hydrologic Remote Sensing Center (NOHRSC).

National Weather Data for Selected Cities

Weather Data for the Week Ending April 4, 2020

Data Provided by Climate Prediction Center

STATES AND STATIONS		TEMPERATURE ˚F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
																	TEMP. ˚F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR 1	PCT. NORMAL SINCE MAR 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AL	BIRMINGHAM	73	49	80	41	61	2	0.82	-0.27	0.62	9.20	157	30.30	196	84	35	0	0	2	1
	HUNTSVILLE	69	46	78	38	58	0	1.08	-0.02	0.65	10.67	183	29.04	184	89	39	0	0	3	1
	MOBILE	80	54	87	44	67	4	0.15	-1.13	0.12	1.01	14	10.69	60	94	35	0	0	2	0
	MONTGOMERY	78	51	84	43	65	4	0.25	-0.95	0.25	4.89	74	20.41	122	89	34	0	0	1	0
AK	ANCHORAGE	34	22	41	11	28	-3	0.45	0.34	0.24	1.74	263	3.41	157	76	59	0	7	3	0
	BARROW	14	-2	22	-25	6	14	0.02	-0.01	0.01	0.94	721	1.20	265	86	72	0	7	2	0
	FAIRBANKS	30	5	35	-15	18	-4	0.47	0.41	0.43	0.47	141	0.47	34	75	43	0	7	2	0
	JUNEAU	35	19	43	15	27	-10	0.00	-0.72	0.00	2.91	69	15.88	115	69	31	0	7	0	0
	KODIAK	43	31	58	16	37	2	0.37	-0.90	0.31	0.45	7	5.59	26	79	45	0	4	3	0
	NOME	27	17	33	0	22	9	0.87	0.72	0.35	2.85	384	4.17	154	90	69	0	7	5	0
AZ	PHOENIX	82	56	85	53	69	0	0.00	-0.13	0.00	1.98	186	3.54	118	55	16	0	0	0	0
	PRESCOTT	64	35	67	31	49	0	0.00	-0.17	0.00	3.27	277	4.41	117	68	19	0	2	0	0
	TUCSON	81	50	85	45	65	2	0.00	-0.11	0.00	0.71	87	2.06	75	38	10	0	0	0	0
AR	FORT SMITH	68	47	75	42	57	0	3.02	2.09	1.45	7.45	172	16.12	161	91	49	0	0	5	2
CA	BAKERSFIELD	70	47	73	42	58	-1	0.00	-0.24	0.00	1.59	106	1.86	46	75	30	0	0	0	0
	FRESNO	69	47	73	44	58	-1	0.05	-0.27	0.05	2.17	98	2.83	43	80	31	0	0	1	0
	LOS ANGELES	68	55	72	51	62	3	0.00	-0.26	0.00	4.15	208	4.54	56	79	52	0	0	0	0
	REDDING	62	44	69	36	53	-3	1.58	0.92	1.07	6.63	140	9.54	58	84	39	0	0	4	1
	SAN DIEGO	67	57	69	53	62	2	0.00	-0.28	0.00	2.22	112	3.10	49	87	57	0	0	0	0
	SAN FRANCISCO	61	48	63	44	55	-1	0.49	-0.17	0.27	1.66	36	2.89	22	82	54	0	0	2	0
	STOCKTON	68	45	73	42	57	0	0.07	-0.32	0.06	1.98	75	2.94	35	88	37	0	0	2	0
CO	ALAMOSA	61	25	68	10	43	5	0.03	-0.11	0.03	0.22	36	0.50	39	60	12	0	5	1	0
	CO SPRINGS	55	27	68	19	41	-2	0.26	0.02	0.20	1.25	108	1.96	102	70	30	0	5	2	0
	DENVER INTL	56	26	69	15	41	-4	0.06	-0.20	0.06	1.36	126	2.46	120	79	33	0	6	1	0
	GRAND JUNCTION	61	34	73	21	47	0	0.03	-0.20	0.02	1.54	143	2.13	95	72	23	0	3	2	0
	PUEBLO	62	28	75	20	45	-2	0.01	-0.22	0.01	0.20	18	1.03	56	71	22	0	6	1	0
CT	BRIDGEPORT	52	41	58	36	47	2	0.65	-0.34	0.43	4.27	92	9.61	90	83	57	0	0	3	0
	HARTFORD	52	37	57	29	44	1	0.89	0.04	0.66	4.66	113	9.79	95	88	56	0	1	4	1
DC	WASHINGTON	64	47	76	42	56	4	0.12	-0.69	0.12	2.35	60	8.50	90	81	42	0	0	1	0
DE	WILMINGTON	57	43	64	36	50	2	0.15	-0.81	0.08	3.35	74	10.19	99	83	54	0	0	3	0
FL	DAYTONA BEACH	81	58	90	49	69	3	0.28	-0.50	0.28	0.30	6	3.03	29	100	49	1	0	1	0
	JACKSONVILLE	83	55	91	48	69	5	0.50	-0.27	0.50	1.74	39	6.21	56	91	37	1	0	1	1
	KEY WEST	83	75	85	70	79	4	0.02	-0.47	0.02	0.04	1	2.04	34	77	62	0	0	1	0
	MIAMI	86	72	92	67	79	5	0.14	-0.63	0.14	0.24	7	5.21	70	82	46	1	0	1	0
	ORLANDO	86	62	91	55	74	5	0.32	-0.50	0.32	0.34	8	2.56	28	87	35	3	0	1	0
	PENSACOLA	81	58	87	47	70	6	0.05	-1.13	0.04	0.52	8	10.73	66	85	34	0	0	2	0
	TALLAHASSEE	82	53	89	46	67	4	0.78	-0.24	0.78	2.24	34	8.74	55	92	35	0	0	1	1
	TAMPA	83	65	87	57	74	4	0.00	-0.60	0.00	0.00	0	3.60	42	76	39	0	0	0	0
	WEST PALM BEACH	86	68	93	61	77	5	0.20	-0.84	0.20	0.39	7	4.86	43	84	44	1	0	1	0
GA	ATHENS	75	50	84	38	63	4	0.28	-0.58	0.28	5.52	112	23.35	171	77	28	0	0	1	0
	ATLANTA	72	51	79	40	62	3	0.35	-0.56	0.35	7.53	141	26.26	182	71	30	0	0	1	0
	AUGUSTA	77	49	88	39	63	4	0.24	-0.56	0.24	5.39	116	17.19	136	92	31	0	0	1	0
	COLUMBUS	79	52	86	44	65	5	0.10	-0.83	0.10	4.73	77	22.17	143	82	32	0	0	1	0
	MACON	78	49	87	40	64	3	0.60	-0.29	0.60	6.02	119	20.26	146	90	35	0	0	1	1
	SAVANNAH	79	55	90	46	67	5	0.16	-0.65	0.16	5.70	138	12.05	112	91	34	1	0	1	0
HI	HILO	79	68	84	67	73	1	2.02	-1.11	0.71	13.64	89	22.71	66	82	69	0	0	6	2
	HONOLULU	81	70	83	67	76	0	0.04	-0.27	0.03	3.86	178	5.88	90	82	53	0	0	2	0
	KAHULUI	83	67	88	64	75	2	0.00	-0.54	0.00	1.47	53	4.83	63	81	72	0	0	0	0
	LIHUE	78	72	80	70	75	1	0.06	-0.74	0.02	7.12	141	9.54	79	87	80	0	0	3	0
ID	BOISE	53	34	60	25	43	-5	0.56	0.26	0.38	1.83	118	5.35	139	81	35	0	4	4	0
	LEWISTON	51	37	55	32	44	-5	0.54	0.27	0.22	1.02	78	4.98	153	84	44	0	1	5	0
	POCATELLO	48	28	57	22	38	-4	0.29	0.03	0.10	1.84	132	3.65	106	83	39	0	6	4	0
IL	CHICAGO/O_HARE	56	39	70	34	48	4	0.08	-0.62	0.08	3.59	123	7.09	109	84	53	0	0	1	0
	MOLINE	59	36	65	31	47	1	0.04	-0.69	0.02	2.57	78	5.52	85	86	46	0	1	2	0
	PEORIA	59	38	69	33	48	1	0.05	-0.72	0.05	3.03	93	8.31	120	80	44	0	0	1	0
	ROCKFORD	57	37	68	33	47	3	0.05	-0.65	0.04	4.35	159	7.55	135	88	49	0	0	2	0
	SPRINGFIELD	60	37	72	33	49	1	0.02	-0.67	0.01	3.30	109	10.57	157	92	44	0	0	2	0
IN	EVANSVILLE	62	43	71	37	53	1	0.00	-0.97	0.00	7.42	155	16.85	151	80	42	0	0	0	0
	FORT WAYNE	56	35	67	29	46	1	0.03	-0.75	0.03	3.30	104	9.53	126	92	57	0	2	1	0
	INDIANAPOLIS	59	42	69	35	50	2	0.04	-0.83	0.02	4.79	119	14.06	155	86	46	0	0	2	0
	SOUTH BEND	56	35	67	26	46	2	0.06	-0.58	0.05	2.09	75	8.22	116	86	55	0	2	2	0
IA	BURLINGTON	57	36	62	29	46	-2	0.02	-0.66	0.02	2.38	75	4.24	68	83	49	0	2	1	0
	CEDAR RAPIDS	56	31	63	27	44	0	0.16	-0.39	0.09	2.64	109	3.70	79	94	46	0	5	3	0
	DES MOINES	57	34	66	26	46	-1	0.41	-0.24	0.25	3.96	148	5.82	115	87	46	0	3	2	0
	DUBUQUE	54	32	63	26	43	1	0.09	-0.60	0.08	3.39	120	6.13	111	92	54	0	4	2	0
	SIOUX CITY	57	30	74	19	44	0	0.06	-0.55	0.06	3.36	143	4.44	120	84	45	0	5	1	0
	WATERLOO	58	32	66	26	45	2	0.24	-0.39	0.12	3.30	135	5.12	118	85	42	0	5	4	0
KS	CONCORDIA	64	34	76	24	49	1	0.12	-0.43	0.12	1.29	55	2.72	72	81	36	0	3	1	0
	DODGE CITY	61	33	75	20	47	-2	0.03	-0.38	0.03	0.96	53	2.98	95	88	38	0	3	1	0
	GOODLAND	61	28	76	18	44	-1	0.21	-0.09	0.21	1.05	84	1.76	80	89	32	0	4	1	0
	TOPEKA	63	38	74	29	51	0	0.19	-0.51	0.19	2.94	102	5.48	106	82	40	0	2	1	0
	WICHITA	63	37	73	27	50	-1	0.38	-0.22	0.30	2.82	94	7.24	142	87	43	0	3	2	0
KY	JACKSON	63	44	76	40	54	1	1.23	0.40	0.71	9.43	219	19.89	175	83	39	0	0	2	2
	LEXINGTON	62	40	71	34	51	0	0.20	-0.65	0.16	5.04	111	13.72	124	91	46	0	0	2	0

Based on 1971-2000 normals

***** Not Available**

Weather Data for the Week Ending April 4, 2020

STATES AND STATIONS		TEMPERATURE ˚F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
																	TEMP. ˚F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR 1	PCT. NORMAL SINCE MAR 1	TOTAL, IN., SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	LOUISVILLE	66	47	76	39	56	3	0.00	-0.91	0.00	4.71	100	12.36	110	73	34	0	0	0	0
LA	BATON ROUGE	79	57	84	46	68	3	0.10	-0.97	0.09	2.29	45	13.69	86	88	41	0	0	2	0
	LAKE CHARLES	78	57	83	46	68	3	0.07	-0.69	0.07	1.75	43	10.59	82	94	49	0	0	1	0
	NEW ORLEANS	81	63	85	53	72	6	0.06	-1.00	0.05	1.15	22	9.57	60	86	39	0	0	2	0
	SHREVEPORT	72	52	77	44	62	0	1.07	0.06	0.54	6.43	136	20.85	150	95	53	0	0	4	1
ME	CARIBOU	44	28	47	18	36	4	0.78	0.20	0.33	3.55	126	8.87	113	87	50	0	6	4	0
	PORTLAND	47	32	53	6	40	1	2.67	1.66	1.23	5.21	107	11.88	102	85	64	0	2	5	2
MD	BALTIMORE	62	45	73	39	53	5	0.11	-0.76	0.09	3.19	73	9.41	90	77	45	0	0	2	0
MA	BOSTON	44	37	47	31	40	-3	1.69	0.72	0.86	4.55	93	9.31	80	92	74	0	2	4	2
	WORCESTER	45	34	51	29	40	-1	1.91	0.89	0.94	5.35	111	10.67	92	91	66	0	3	5	2
MI	ALPENA	51	32	60	25	42	6	0.41	-0.10	0.37	2.68	124	5.68	109	95	50	0	3	2	0
	GRAND RAPIDS	52	35	66	31	44	2	0.23	-0.45	0.14	3.37	121	7.67	114	95	51	0	1	3	0
	HOUGHTON LAKE	49	31	62	24	40	4	0.55	0.01	0.42	2.57	118	5.01	101	92	55	0	3	3	0
	LANSING	52	37	63	33	45	3	0.08	-0.54	0.04	3.07	126	8.31	147	90	53	0	0	3	0
	MUSKEGON	53	34	62	29	43	2	0.24	-0.36	0.12	3.80	145	7.49	114	88	52	0	2	3	0
	TRAVERSE CITY	50	31	61	27	41	4	0.68	0.31	0.43	2.09	138	3.75	96	87	56	0	4	3	0
MN	DULUTH	43	25	49	15	34	1	0.98	0.57	0.80	1.97	112	3.73	103	88	50	0	6	3	1
	INT_L FALLS	47	23	53	5	35	3	0.55	0.28	0.30	1.39	124	2.94	125	83	42	0	6	2	0
	MINNEAPOLIS	52	30	61	19	41	1	0.40	-0.11	0.22	2.63	119	4.25	107	83	42	0	3	3	0
	ROCHESTER	52	30	64	20	41	1	0.46	-0.10	0.27	2.86	128	5.01	125	88	56	0	6	3	0
	ST. CLOUD	51	27	61	16	39	2	0.63	0.15	0.32	2.30	125	3.57	114	87	39	0	7	3	0
MS	JACKSON	73	52	76	42	63	2	0.60	-0.64	0.35	4.75	82	28.05	179	88	43	0	0	3	0
	MERIDIAN	77	51	81	42	64	5	0.15	-1.02	0.15	6.71	110	26.04	153	88	35	0	0	1	0
	TUPELO	72	49	77	42	60	2	1.87	0.84	1.23	5.98	110	25.31	168	87	35	0	0	3	1
MO	COLUMBIA	64	42	74	33	53	3	0.41	-0.43	0.31	6.76	199	17.33	227	80	41	0	0	3	0
	KANSAS CITY	62	39	73	30	50	0	0.60	-0.06	0.35	4.60	167	8.02	149	79	42	0	2	2	0
	SAINT LOUIS	64	43	74	37	53	1	0.12	-0.74	0.11	4.04	107	13.33	157	75	38	0	0	2	0
	SPRINGFIELD	63	41	74	33	52	1	0.81	-0.09	0.32	8.39	204	17.30	188	90	48	0	0	5	0
MT	BILLINGS	46	22	62	9	34	-8	0.30	-0.04	0.19	1.15	90	2.04	89	78	37	0	7	3	0
	BUTTE	41	18	50	6	29	-6	0.22	-0.04	0.17	0.54	66	1.13	62	86	39	0	7	3	0
	CUT BANK	35	16	54	5	25	-11	0.00	-0.13	0.00	0.08	14	0.30	27	84	49	0	7	0	0
	GLASGOW	42	19	63	0	31	-9	0.12	-0.01	0.12	0.46	86	1.29	102	74	42	0	6	1	0
	GREAT FALLS	41	17	60	4	29	-10	0.18	-0.09	0.13	0.96	88	1.46	69	78	39	0	7	2	0
	HAVRE	39	12	63	-12	26	-14	0.12	-0.04	0.08	0.67	103	1.39	102	86	47	0	6	2	0
	MISSOULA	47	28	58	21	37	-6	0.28	0.02	0.12	0.40	33	2.33	83	90	44	0	5	6	0
NE	GRAND ISLAND	61	32	75	20	47	1	0.08	-0.44	0.08	2.90	139	4.22	125	85	37	0	3	1	0
	LINCOLN	63	32	78	23	47	1	0.01	-0.53	0.01	1.74	78	3.22	86	83	36	0	4	1	0
	NORFOLK	59	29	76	14	44	0	0.01	-0.52	0.01	3.07	149	4.22	121	85	45	0	4	1	0
	NORTH PLATTE	57	26	73	15	42	-1	0.03	-0.32	0.03	1.50	116	2.10	94	88	38	0	5	1	0
	OMAHA	60	33	74	24	47	1	0.16	-0.41	0.16	2.00	86	3.50	88	81	39	0	4	1	0
	SCOTTSBLUFF	57	21	73	3	39	-3	0.03	-0.29	0.03	1.13	93	1.49	65	87	30	0	7	1	0
	VALENTINE	53	28	74	8	40	-1	0.29	-0.03	0.27	0.97	89	1.60	83	83	40	0	3	2	0
NV	ELY	51	23	60	14	37	-2	0.04	-0.18	0.04	1.96	178	2.54	97	86	27	0	7	1	0
	LAS VEGAS	74	53	81	49	63	0	0.02	-0.05	0.02	1.67	330	1.98	106	43	16	0	0	1	0
	RENO	57	34	60	26	46	-2	0.00	-0.12	0.00	0.85	101	0.98	33	61	22	0	3	0	0
	WINNEMUCCA	54	26	65	10	40	-4	0.20	0.01	0.13	0.81	83	1.89	73	72	25	0	5	2	0
NH	CONCORD	47	33	57	22	40	1	1.87	1.08	0.85	3.65	98	7.84	86	91	60	0	2	4	2
NJ	NEWARK	54	43	61	38	48	1	0.23	-0.80	0.15	3.90	81	8.13	72	85	58	0	0	4	0
NM	ALBUQUERQUE	69	41	75	33	55	3	0.00	-0.15	0.00	0.32	48	1.24	78	40	13	0	0	0	0
NY	ALBANY	53	40	63	32	46	5	0.93	0.18	0.49	3.20	88	7.94	93	81	52	0	1	5	0
	BINGHAMTON	47	35	52	29	41	2	0.39	-0.41	0.21	2.53	73	15.10	183	93	65	0	2	4	0
	BUFFALO	54	39	74	34	47	7	0.60	-0.09	0.36	3.29	100	8.56	95	88	54	0	0	5	0
	ROCHESTER	52	36	69	29	44	4	0.47	-0.16	0.19	1.88	66	6.81	94	92	53	0	2	4	0
	SYRACUSE	53	38	63	29	46	5	1.22	0.46	0.55	3.60	106	9.13	113	91	54	0	1	4	2
NC	ASHEVILLE	64	46	73	40	55	4	0.15	-0.68	0.11	3.35	78	15.73	133	73	38	0	0	2	0
	CHARLOTTE	73	47	85	36	60	4	0.04	-0.76	0.04	3.56	80	14.24	126	74	27	0	0	1	0
	GREENSBORO	70	47	85	36	58	3	0.09	-0.76	0.08	2.74	65	15.09	147	75	26	0	0	2	0
	HATTERAS	66	56	74	49	61	5	1.96	0.93	1.86	6.03	113	15.17	103	85	53	0	0	2	1
	RALEIGH	71	48	88	39	59	3	0.24	-0.58	0.24	2.17	47	12.27	107	77	32	0	0	1	0
	WILMINGTON	73	51	87	41	62	2	0.54	-0.26	0.54	4.77	102	13.98	115	88	34	0	0	1	1
ND	BISMARCK	45	20	66	8	32	-5	0.57	0.32	0.33	0.72	68	1.26	61	88	49	0	6	5	0
	DICKINSON	46	18	65	2	32	-5	0.03	-0.20	0.02	0.17	19	0.46	29	86	40	0	7	2	0
	FARGO	43	22	56	2	32	-4	0.72	0.43	0.55	0.89	60	2.26	80	91	58	0	5	2	1
	GRAND FORKS	38	17	51	-5	28	-6	0.58	0.37	0.47	0.82	73	1.79	80	90	63	0	6	3	0
	JAMESTOWN	42	19	58	7	31	-5	0.07	-0.15	0.04	0.13	13	0.36	19	93	54	0	6	2	0
OH	AKRON-CANTON	59	38	72	32	48	5	0.47	-0.32	0.39	5.64	164	11.65	138	86	40	0	2	4	0
	CINCINNATI	62	43	74	38	52	3	0.00	-0.92	0.00	5.57	125	13.34	129	81	40	0	0	0	0
	CLEVELAND	56	37	71	29	47	2	0.69	-0.12	0.64	5.49	161	10.85	127	89	45	0	3	3	1
	COLUMBUS	59	40	70	34	50	2	0.09	-0.70	0.08	8.22	238	15.30	180	84	41	0	0	2	0
	DAYTON	59	40	72	35	50	3	0.08	-0.80	0.08	5.73	150	12.35	140	86	46	0	0	1	0
	MANSFIELD	58	39	69	33	48	5	0.18	-0.75	0.09	4.96	126	11.48	125	92	45	0	0	3	0
	TOLEDO	58	41	68	36	49	6	0.12	-0.55	0.07	4.17	145	9.04	128	85	44	0	0	3	0
	YOUNGSTOWN	57	37	73	31	47	4	0.81	0.03	0.67	5.23	154	11.63	142	85	39	0	3	3	1
OK	OKLAHOMA CITY	60	41	71	30	50	-6	0.85	0.19	0.75	5.16	152	9.01	139	95	56	0	1	3	1
	TULSA	66	46	75	36	56	0	0.76	0.00	0.60	5.82	158	12.21	167	91	50	0	0	4	1
OR	ASTORIA	50	38	51	31	44	-4	2.06	0.58	0.71	5.56	67	31.02	119	96	63	0	1	6	2

Based on 1971-2000 normals

***** Not Available**

Weather Data for the Week Ending April 4, 2020

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS TEMP. °F		NUMBER OF DAYS PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE MAR 1	PCT. NORMAL SINCE MAR 1	TOTAL, IN., SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	BURNS	47	25	54	18	36	-5	0.57	0.35	0.24	1.40	114	3.64	104	87	37	0	5	5	0
	EUGENE	51	38	56	30	45	-4	1.39	0.40	0.63	3.35	60	11.60	64	92	65	0	1	5	1
	MEDFORD	54	39	59	31	47	-4	0.15	-0.20	0.06	0.83	43	4.96	77	86	45	0	1	4	0
	PENDLETON	53	36	61	30	45	-4	0.18	-0.08	0.11	0.93	63	5.09	125	87	38	0	2	4	0
	PORTLAND	52	42	58	38	47	-3	1.02	0.29	0.34	2.73	67	12.19	95	89	52	0	0	6	0
	SALEM	50	39	58	31	45	-4	1.61	0.81	0.47	3.50	79	13.63	90	94	58	0	1	7	0
PA	ALLENTOWN	56	43	62	38	50	5	0.05	-0.80	0.03	3.19	82	8.82	91	77	50	0	0	2	0
	ERIE	54	39	76	34	46	5	0.85	0.09	0.70	3.79	111	9.56	108	84	55	0	0	4	1
	MIDDLETOWN	57	44	63	37	50	3	0.04	-0.74	0.04	4.00	105	9.62	105	83	50	0	0	1	0
	PHILADELPHIA	56	44	60	40	50	1	0.06	-0.86	0.06	4.01	93	9.28	92	81	54	0	0	1	0
	PITTSBURGH	59	38	77	32	49	3	0.12	-0.61	0.05	4.83	144	11.35	133	84	37	0	2	3	0
	WILKES-BARRE	54	40	61	32	47	4	0.50	-0.20	0.33	2.96	99	8.35	112	81	51	0	1	3	0
	WILLIAMSPORT	55	39	60	31	47	3	0.41	-0.38	0.29	3.25	95	8.50	99	87	50	0	2	5	0
RI	PROVIDENCE	48	37	55	31	43	-1	1.26	0.10	0.78	5.43	95	9.76	75	92	64	0	2	4	1
SC	BEAUFORT	78	55	87	46	66	4	0.24	-0.45	0.24	0.24	6	1.78	18	89	35	0	0	1	0
	CHARLESTON	76	51	87	43	64	2	0.55	-0.22	0.55	3.91	95	10.48	97	91	34	0	0	1	1
	COLUMBIA	75	51	87	39	63	3	0.23	-0.49	0.23	4.24	103	13.81	121	82	30	0	0	1	0
	GREENVILLE	72	48	84	39	60	3	0.12	-0.78	0.10	4.70	94	21.06	163	76	27	0	0	2	0
SD	ABERDEEN	48	22	66	7	35	-2	0.44	0.11	0.33	0.54	39	1.27	52	86	47	0	6	4	0
	HURON	50	27	63	16	38	-2	0.23	-0.22	0.17	1.09	63	2.40	83	89	52	0	6	3	0
	RAPID CITY	48	19	68	-1	34	-7	0.17	-0.09	0.16	0.76	68	2.03	104	87	40	0	7	2	0
	SIOUX FALLS	56	27	75	14	41	1	1.61	1.00	1.61	3.65	172	4.64	139	85	46	0	5	1	1
TN	BRISTOL	64	42	75	34	53	2	1.11	0.34	0.83	6.92	179	19.52	181	86	39	0	0	2	1
	CHATTANOOGA	71	47	80	36	59	3	0.56	-0.49	0.42	8.64	155	25.55	164	86	33	0	0	2	0
	KNOXVILLE	66	45	77	36	56	1	0.80	-0.15	0.55	7.43	152	25.85	189	84	34	0	0	2	1
	MEMPHIS	69	50	74	45	59	1	1.92	0.68	1.12	9.45	161	22.33	154	88	47	0	0	2	2
	NASHVILLE	68	46	77	38	57	2	0.86	-0.03	0.66	6.66	145	18.26	146	81	34	0	0	2	1
TX	ABILENE	68	48	79	38	58	-3	0.50	0.17	0.50	5.21	273	9.10	208	95	54	0	0	1	1
	AMARILLO	69	34	82	25	52	-1	0.00	-0.33	0.00	1.85	115	2.52	86	89	25	0	4	0	0
	AUSTIN	71	51	79	45	61	-5	3.58	3.09	2.25	7.30	243	12.47	170	95	60	0	0	4	2
	BEAUMONT	78	58	82	49	68	3	0.27	-0.44	0.26	0.63	16	7.85	61	96	53	0	0	2	0
	BROWNSVILLE	88	71	93	66	80	7	0.12	-0.20	0.07	0.15	10	0.80	20	92	51	1	0	3	0
	CORPUS CHRISTI	81	63	88	53	72	3	0.78	0.42	0.75	1.03	48	2.20	38	93	57	0	0	3	1
	DEL RIO	79	59	88	52	69	0	1.25	1.06	1.14	4.36	360	5.35	186	76	49	0	0	2	1
	EL PASO	77	53	83	44	65	5	0.00	-0.06	0.00	2.08	608	3.17	249	36	11	0	0	0	0
	FORT WORTH	65	49	72	40	57	-5	0.63	-0.06	0.33	7.13	187	16.02	184	95	62	0	0	5	0
	GALVESTON	78	68	81	61	73	6	0.48	-0.17	0.48	0.75	21	10.18	97	84	59	0	0	1	0
	HOUSTON	77	58	83	52	67	1	1.36	0.66	0.78	3.63	95	9.16	87	90	53	0	0	3	2
	LUBBOCK	71	40	84	32	56	-1	0.00	-0.27	0.00	2.43	191	3.35	122	82	27	0	1	0	0
	MIDLAND	74	47	88	39	61	1	0.00	-0.15	0.00	3.47	503	5.36	266	68	27	0	0	0	0
	SAN ANGELO	72	48	84	39	60	-2	0.01	-0.30	0.01	3.16	186	6.12	151	85	42	0	0	1	0
	SAN ANTONIO	74	54	81	50	64	-2	2.67	2.25	2.06	4.23	167	7.17	116	89	56	0	0	4	1
	VICTORIA	79	58	84	51	68	1	0.37	-0.23	0.24	1.69	54	4.91	63	90	56	0	0	3	0
	WACO	67	48	73	42	58	-5	1.77	1.22	0.80	8.10	236	17.25	209	93	65	0	0	3	2
	WICHITA FALLS	66	46	76	35	56	-3	1.06	0.63	0.82	5.32	218	10.22	189	97	60	0	0	2	1
UT	SALT LAKE CITY	56	36	68	29	46	-1	0.13	-0.31	0.10	1.60	78	4.67	101	73	28	0	3	2	0
VT	BURLINGTON	49	35	56	26	42	4	1.41	0.83	0.56	2.54	98	7.34	113	90	55	0	2	5	1
VA	LYNCHBURG	70	45	88	39	58	6	0.69	-0.13	0.64	2.83	70	12.05	118	77	26	0	0	2	1
	NORFOLK	66	49	87	44	57	3	1.38	0.59	1.19	5.67	138	13.81	129	85	42	0	0	2	1
	RICHMOND	67	46	88	42	57	3	0.53	-0.33	0.50	2.74	60	10.09	97	88	34	0	0	2	1
	ROANOKE	68	47	85	42	58	5	0.73	-0.07	0.71	3.36	86	10.81	110	70	26	0	0	2	1
	WASH/DULLES	63	43	74	37	53	3	0.17	-0.69	0.17	2.04	53	8.78	94	82	40	0	0	1	0
WA	OLYMPIA	50	35	54	27	42	-4	1.69	0.65	0.91	3.46	59	22.01	114	96	53	0	3	5	2
	QUILLAYUTE	48	36	50	32	42	-3	1.57	-0.67	0.54	7.72	64	41.93	117	97	63	0	1	6	1
	SEATTLE-TACOMA	51	39	55	35	45	-3	1.31	0.54	0.74	3.28	79	16.90	127	88	53	0	0	4	1
	SPOKANE	45	32	53	25	38	-6	0.24	-0.11	0.13	0.85	46	5.06	99	87	43	0	4	3	0
	YAKIMA	55	30	63	19	43	-4	0.08	-0.03	0.08	0.34	48	1.60	59	75	28	0	5	1	0
WV	BECKLEY	58	40	75	35	49	1	0.67	-0.10	0.57	5.14	129	13.42	139	80	39	0	0	3	1
	CHARLESTON	63	42	79	35	53	1	0.57	-0.20	0.45	4.47	103	13.17	124	85	37	0	0	3	0
	ELKINS	61	36	79	27	48	3	0.48	-0.44	0.24	3.24	72	12.63	116	84	34	0	2	3	0
	HUNTINGTON	64	43	77	34	54	2	0.59	-0.23	0.30	4.42	102	12.71	121	82	38	0	0	3	0
WI	EAU CLAIRE	53	29	65	19	41	2	0.56	0.03	0.31	2.48	122	3.28	84	89	45	0	5	2	0
	GREEN BAY	50	35	58	30	42	5	0.31	-0.21	0.22	4.44	206	6.96	156	89	56	0	1	3	0
	LA CROSSE	56	33	66	26	45	3	0.78	0.17	0.59	3.48	145	5.43	117	83	44	0	5	2	1
	MADISON	54	33	67	29	44	3	0.13	-0.55	0.09	3.65	140	6.46	121	91	51	0	3	2	0
	MILWAUKEE	49	36	57	31	43	2	0.03	-0.70	0.02	3.76	138	6.80	110	85	59	0	1	2	0
WY	CASPER	45	16	60	-5	31	-9	0.38	0.14	0.20	1.39	141	2.74	130	82	38	0	6	2	0
	CHEYENNE	50	21	63	8	36	-4	0.01	-0.29	0.01	1.16	93	1.83	86	75	30	0	6	1	0
	LANDER	46	19	57	2	32	-8	0.48	0.12	0.29	1.06	76	2.77	113	83	33	0	6	2	0
	SHERIDAN	47	18	64	-2	32	-8	0.35	0.08	0.19	0.93	81	2.77	122	76	36	0	6	2	0

Based on 1971-2000 normals

***** Not Available**

National Agricultural Summary

March 30 – April 5, 2020

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

During the week ending April 5, large parts of New England, the Pacific Northwest, and the south-central United States experienced substantial precipitation. Some areas in Arkansas, Oregon, Oklahoma, and Texas received 3 or more inches. Temperatures were below normal for the Southwest, except in New Mexico and parts of Arizona and western Texas. Meanwhile, temperatures were 9°F or more below normal in portions of Montana and Wyoming. In contrast, most of the eastern half of the country experienced warmer-than-average weather.

Winter Wheat: On April 5, sixty-two percent of the 2020 winter wheat crop was reported in good to excellent condition, 2 percentage points above last year. In Kansas, the largest winter wheat-producing state, 49 percent of the winter wheat crop was rated in good to excellent condition.

Cotton: Nationwide, 7 percent of the cotton acreage had been planted by week's end, 2 percentage points ahead of the previous year and 2 points ahead of the 5-year average. Planting was 2 percentage points behind normal in Arizona, with 25 percent of the acreage planted compared with the 5-year average of 27 percent. The only other state reporting cotton planting was Texas, with 12 percent planted, 4 percentage points ahead of last year and 5 points ahead of the state's 5-year average pace.

Sorghum: Fifteen percent of the nation's sorghum acreage was planted by April 5, one percentage point ahead of the previous year and 2 points ahead of the 5-year average. Texas had planted 52 percent of its sorghum acreage by April 5, six percentage points ahead of last year and 11 points ahead of the 5-year average.

Rice: By April 5, producers had seeded 17 percent of the 2020 rice acreage, equal to the previous year but 2 percentage points behind the 5-year average. Louisiana and Texas had the largest portion of acreage planted—70 and 73 percent, respectively. By April 5, ten percent of the nation's rice acreage had emerged, 4 percentage points ahead of last year and 3 points ahead of the 5-year average.

Small Grains: Nationally, oat producers had seeded 26 percent of this year's acreage by April 5, equal to the previous year but 3 percentage points behind the 5-year average. Planting was complete in Texas, but had not yet begun in Minnesota, North Dakota, or South Dakota. Twenty-four percent of the nation's oat acreage was emerged by April 5, one percentage point behind both the previous year and the 5-year average.

Crop Progress and Condition

Week Ending April 5, 2020

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

Cotton Percent Planted

	Prev Year	Prev Week	Apr 5 2020	5-Yr Avg
AL	0	NA	0	0
AZ	28	16	25	27
AR	0	NA	0	0
CA	0	NA	0	3
GA	0	NA	0	0
KS	0	NA	0	0
LA	0	NA	0	0
MS	0	NA	0	0
MO	0	NA	0	0
NC	0	NA	0	0
OK	1	NA	0	0
SC	0	NA	0	0
TN	0	NA	0	0
TX	8	5	12	7
VA	0	NA	0	0
15 Sts	5	NA	7	5

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

Sorghum Percent Planted

	Prev Year	Prev Week	Apr 5 2020	5-Yr Avg
CO	0	NA	0	0
KS	0	NA	0	0
NE	0	NA	0	0
OK	0	NA	0	1
SD	0	NA	0	0
TX	46	45	52	41
6 Sts	14	NA	15	13

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

Rice Percent Planted

	Prev Year	Prev Week	Apr 5 2020	5-Yr Avg
AR	10	NA	1	12
CA	0	NA	0	0
LA	64	52	70	64
MS	11	1	2	11
MO	4	NA	0	3
TX	32	56	73	42
6 Sts	17	NA	17	19

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

Rice Percent Emerged

	Prev Year	Prev Week	Apr 5 2020	5-Yr Avg
AR	0	NA	0	1
CA	0	NA	0	0
LA	33	21	45	34
MS	2	NA	0	2
MO	0	NA	0	0
TX	6	NA	47	17
6 Sts	6	NA	10	7

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

Crop Progress and Condition

Week Ending April 5, 2020

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

Oats Percent Planted

	Prev Year	Prev Week	Apr 5 2020	5-Yr Avg
IA	1	NA	8	10
MN	0	NA	0	2
NE	6	NA	14	25
ND	0	NA	0	0
OH	7	NA	8	5
PA	10	NA	6	6
SD	0	NA	0	6
TX	100	100	100	100
WI	1	NA	2	2
9 Sts	26	NA	26	29

These 9 States planted 71% of last year's oat acreage.

Oats Percent Emerged

	Prev Year	Prev Week	Apr 5 2020	5-Yr Avg
IA	0	NA	0	1
MN	0	NA	0	0
NE	0	NA	2	1
ND	0	NA	0	0
OH	0	NA	0	1
PA	0	NA	1	1
SD	0	NA	0	0
TX	100	100	100	100
WI	0	NA	0	0
9 Sts	25	NA	24	25

These 9 States planted 71% of last year's oat acreage.

Winter Wheat Condition by Percent

	VP	P	F	G	EX
AR	0	4	48	34	14
CA	0	0	39	57	4
CO	12	15	25	45	3
ID	0	0	19	73	8
IL	4	6	28	44	18
IN	1	4	28	53	14
KS	3	10	38	41	8
MI	2	8	35	48	7
MO	2	8	49	34	7
MT	1	2	45	50	2
NE	1	5	17	67	10
NC	1	3	21	63	12
OH	1	4	20	60	15
OK	1	4	22	68	5
OR	2	3	16	28	51
SD	0	1	16	71	12
TX	1	8	29	50	12
WA	0	1	17	73	9
18 Sts	2	7	29	53	9
Prev Wk	NA	NA	NA	NA	NA
Prev Yr	2	7	31	48	12

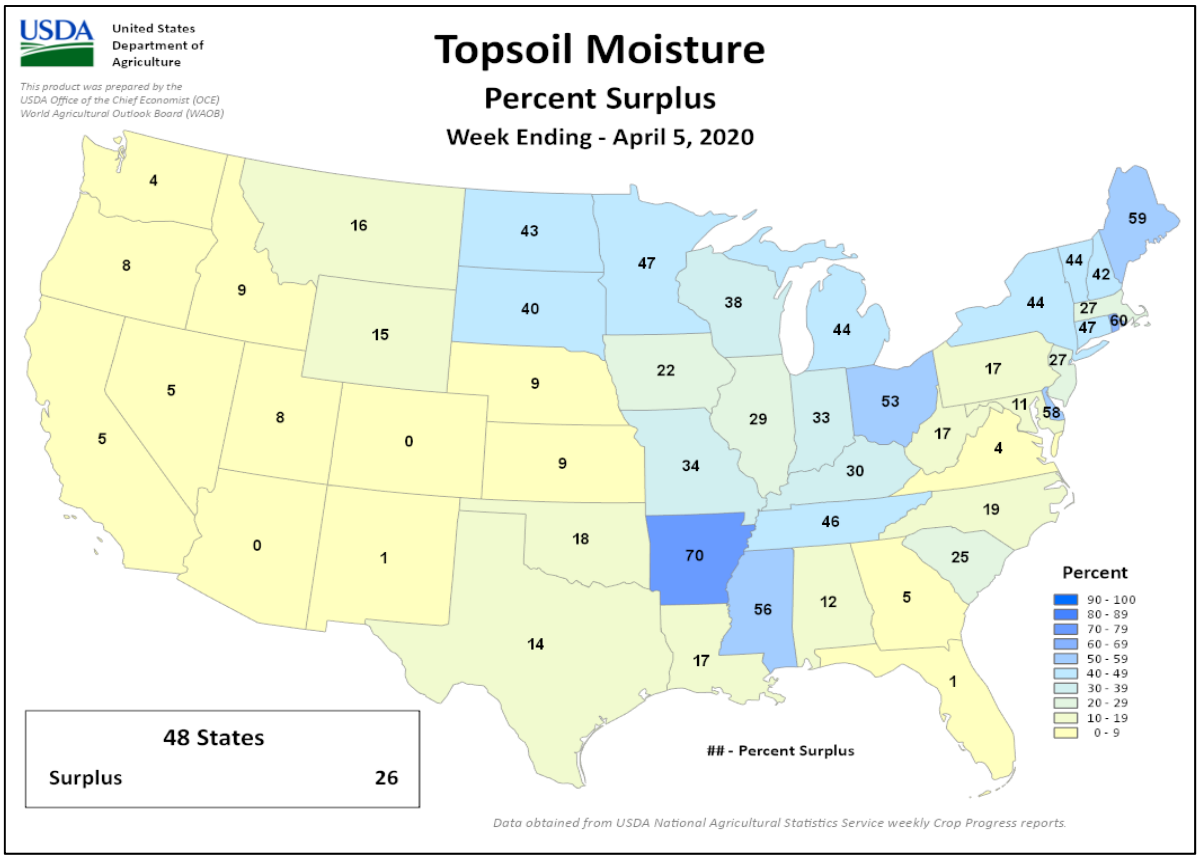
VP - Very Poor; **P - Poor;** **F - Fair;** **G - Good;** **EX - Excellent**

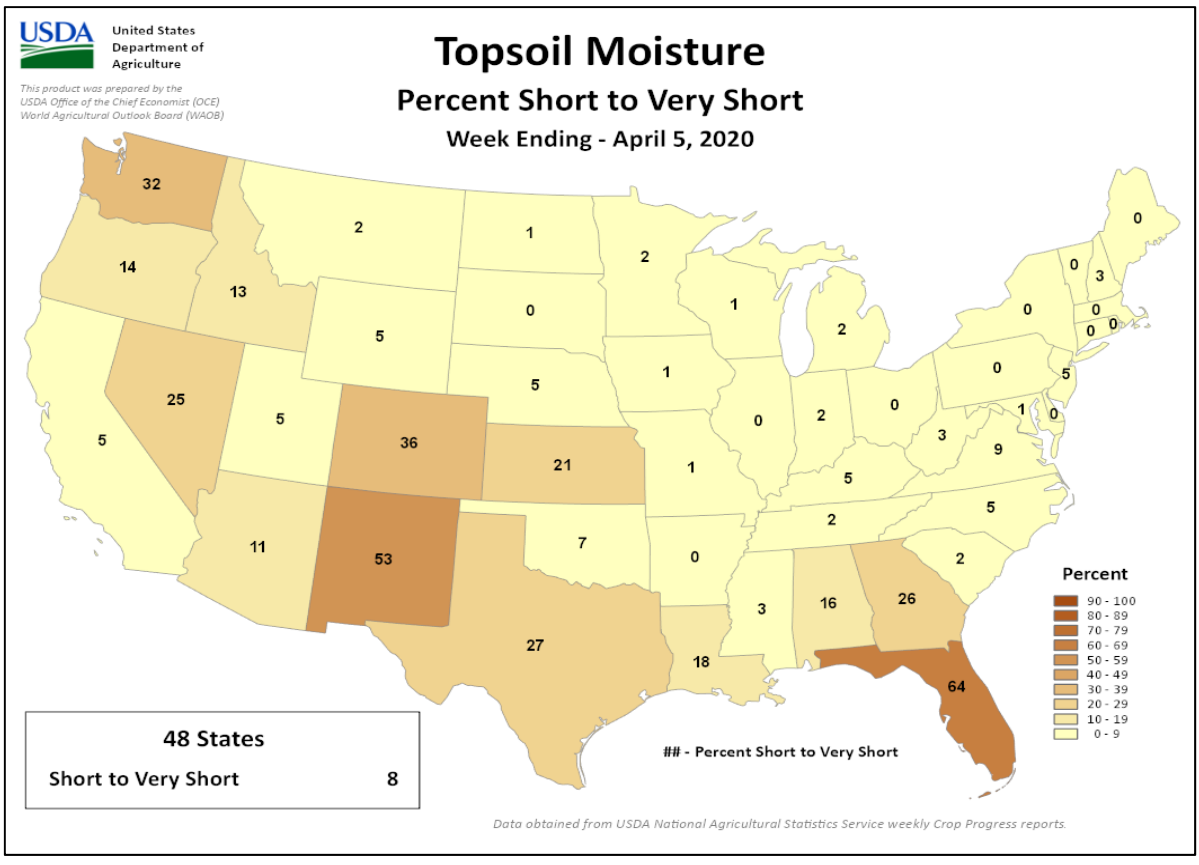
NA - Not Available; ***Revised**

Crop Progress and Condition

Week Ending April 5, 2020

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

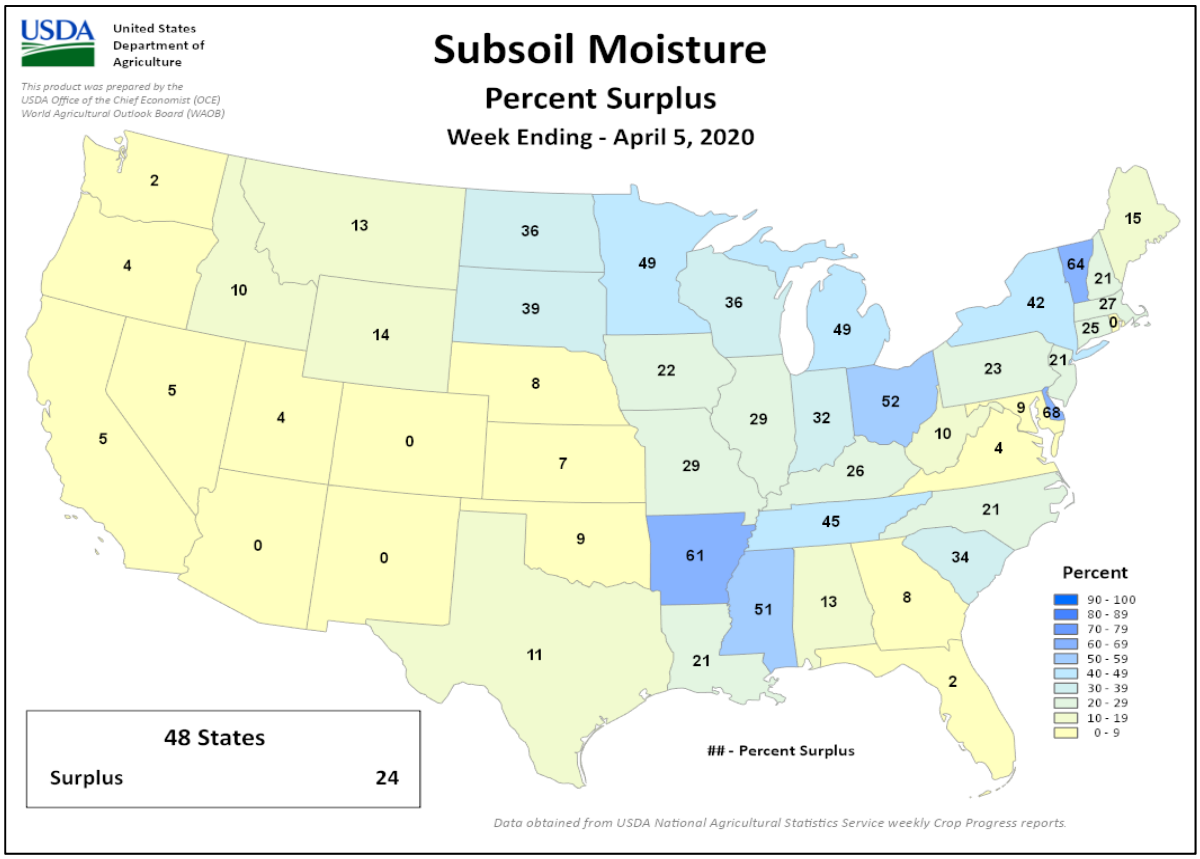


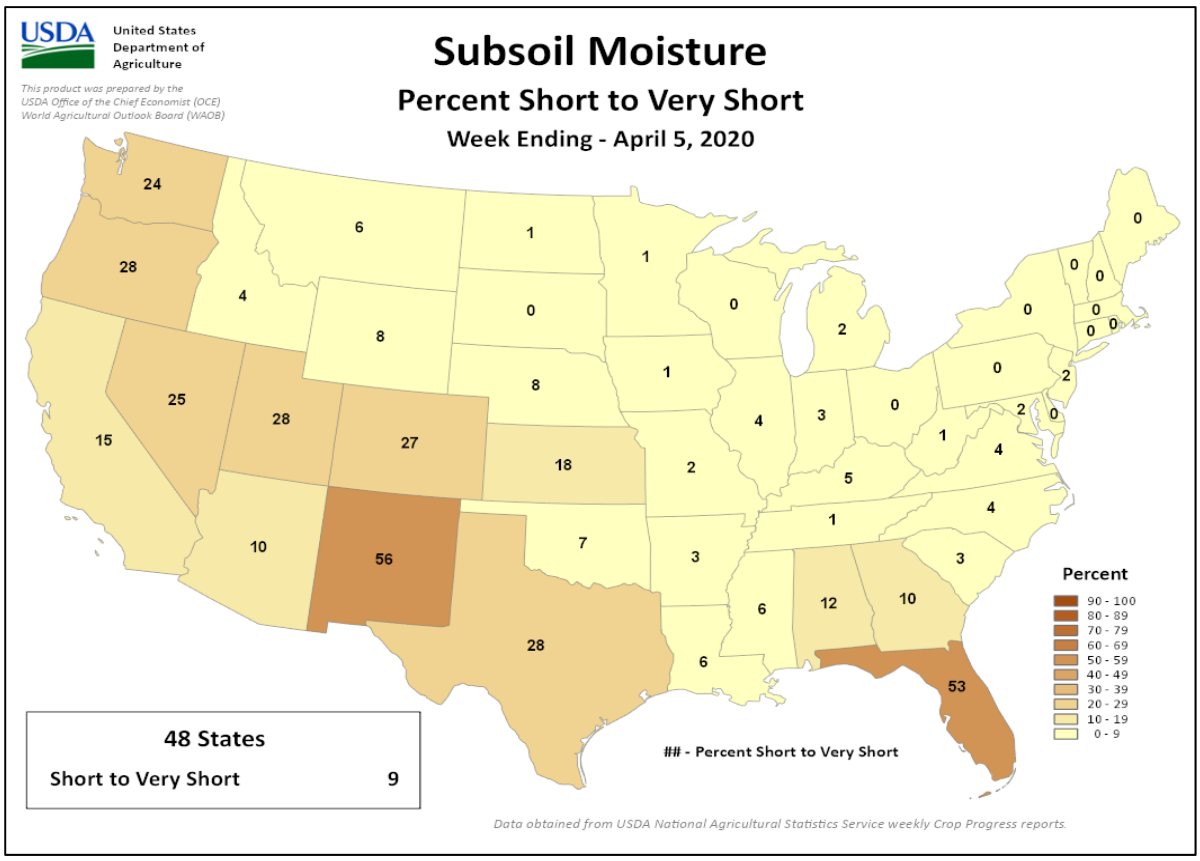


Crop Progress and Condition

Week Ending April 5, 2020

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





International Weather and Crop Summary

March 29 - April 4, 2020

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

EUROPE: Cool weather slowed winter crop development, while sunny skies across central and northern Europe favored fieldwork following a very wet winter and beginning of spring.

FSU-WESTERN: Increasing short-term dryness adjacent to the Black Sea Coast reduced topsoil moisture for vegetative winter wheat, though subsoil moisture remained adequate.

MIDDLE EAST: A pair of slow-moving storms produced additional moderate to heavy rain, maintaining adequate to abundant moisture supplies for vegetative to reproductive winter grains.

NORTHWESTERN AFRICA: Additional showers favored reproductive winter grains in the east but were mostly too late for filling wheat and barley in Morocco.

EAST ASIA: Light showers benefited wheat and rapeseed in eastern China, while heavier showers boosted moisture supplies for reproductive rice in the southeast.

SOUTHEAST ASIA: Rainfall continued across Indonesia and Malaysia, aiding rice, as pre-monsoon fieldwork was underway in Thailand and the Philippines.

AUSTRALIA: Soaking rain overspread much of the east.

SOUTH AFRICA: Showers provided a late-season boost to late-developing summer crops.

ARGENTINA: Rain continued in most major farming areas, benefiting late-developing corn and soybeans but slowing seasonal fieldwork.

BRAZIL: Rainfall was unseasonably light throughout much of Brazil, providing limited relief from southern dryness.

March 2020

COUNTRY	CITY	TEMPERATURE (C)						PRECIP. (MM)	
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM
ALGERI	ALGER	21	10	30	4	15	2.3	54	-8
	BATNA	17	4	25	-2	11	0.6	63	28
ARGENT	IGUAZU	32	20	38	16	26	1.1	86	-23
	FORMOSA	35	21	42	14	28	2.2	96	-44
	CERES	32	19	40	12	25	1.9	54	-97
	CORDOBA	29	16	37	13	22	2.4	100	-27
	RIO CUARTO	28	17	35	10	23	2.6	94	-23
	ROSARIO	30	18	36	11	24	2.6	86	-62
	BUENOS AIRES	29	17	34	12	23	2	110	0
	SANTA ROSA	29	16	38	8	22	2.8	78	-22
	TRES ARROYOS	28	16	37	6	22	3.8	96	12
AUSTRA	DARWIN	32	26	36	23	29	0.7	198	-142
	BRISBANE	27	20	30	17	24	0	83	-30
	PERTH	30	18	37	8	24	0.6	25	6
	CEDUNA	26	15	40	8	20	0.3	*****	******
	ADELAIDE	24	15	34	10	20	-0.3	*****	******
	MELBOURNE	22	14	32	10	18	-0.2	84	56
	WAGGA	26	15	33	9	20	-0.2	119	75
	CANBERRA	23	11	30	5	17	-0.5	176	132
AUSTRI	VIENNA	12	2	21	-8	7	1.3	39	-2
	INNSBRUCK	12	0	22	-6	6	1.6	31	-22
BAHAMA	NASSAU	28	21	31	17	25	1.6	2	-63
BARBAD	BRIDGETOWN	30	24	31	22	27	1	23	-12
BELARU	MINSK	8	-1	16	-10	3	3.3	22	-23
BERMUD	ST GEORGES	21	17	23	10	19	0.4	52	-56
BOLIVI	LA PAZ	15	4	19	0	10	0.9	62	-19
BRAZIL	FORTALEZA	31	25	33	23	28	0.5	265	******
	RECIFE	31	26	33	24	28	-0.4	111	-29
	CAMPO GRANDE	32	22	35	19	27	0.5	98	-39
	FRANCA	27	18	31	16	23	-0.1	75	-122
	RIO DE JANEI	28	22	34	19	25	-2.3	140	******
	LONDRINA	32	19	36	16	26	1.3	87	-53
	SANTA MARIA	32	18	40	13	25	1.5	40	-96
	TORRES	28	20	32	17	24	*****	19	-106
BULGAR	SOFIA	12	2	22	-5	7	1.7	92	54
BURKIN	OUAGADOUGOU	40	26	42	21	33	1.6	0	-4
CANADA	LETHBRIDGE	3	-8	16	-24	-3	*****	6	******
	REGINA	3	-9	16	-16	-3	2.5	5	******
	WINNIPEG	1	-8	13	-17	-4	1.3	4	******
	TORONTO	7	-1	18	-11	3	3.4	54	5
	MONTREAL	5	-4	16	-14	1	2.5	129	63
	PRINCE ALBER	-3	-17	5	-30	-10	-3.2	5	-12
	CALGARY	1	-10	11	-24	-4	-2.6	27	7
	VANCOUVER	9	2	13	-4	5	-1.6	41	-72
CANARY	LAS PALMAS	22	16	24	14	19	0.2	15	4
CHILE	SANTIAGO	30	13	36	10	21	3.6	0	-7
CHINA	HARBIN	4	-6	17	-19	-1	1.8	7	-5
	HAMI	15	-2	23	-12	6	1.2	2	1
	BEIJING	16	2	26	-5	9	2.4	24	13
	TIENTSIN	16	4	28	-4	10	2.8	34	26
	LHASA	13	0	21	-3	6	0.6	14	11
	KUNMING	23	10	28	5	17	2.3	9	-9
	CHENGCHOW	18	7	28	0	13	3.9	11	-17
	YEHCHANG	18	9	27	4	14	3.7	75	18
	HANKOW	18	9	27	3	14	3.5	87	1
	CHUNGKING	20	13	31	9	17	2	100	51
	CHIHKIANG	18	11	30	6	14	3.6	193	106
	WU HU	17	9	28	1	13	2.5	217	95
	SHANGHAI	16	8	28	3	12	3	138	45
	NANCHANG	18	12	29	7	15	2.9	206	29
	TAIPEI	24	18	32	14	21	2.6	282	94
	CANTON	23	18	30	13	20	4	166	72
	NANNING	22	17	31	11	19	2.2	190	129
COLOMB	BOGOTA	21	10	25	4	15	1.8	52	-32
COTE D	ABIDJAN	32	26	34	22	29	0.2	83	-21
CUBA	CAMAGUEY	29	19	33	14	24	0.1	*****	******
CYPRUS	LARNACA	20	11	24	4	15	1.3	51	15
CZECHR	PRAGUE	9	0	16	-6	5	1.2	53	25
DENMAR	COPENHAGEN	8	2	11	-5	5	2.1	22	-10
EGYPT	CAIRO	23	14	31	10	18	0.6	62	58

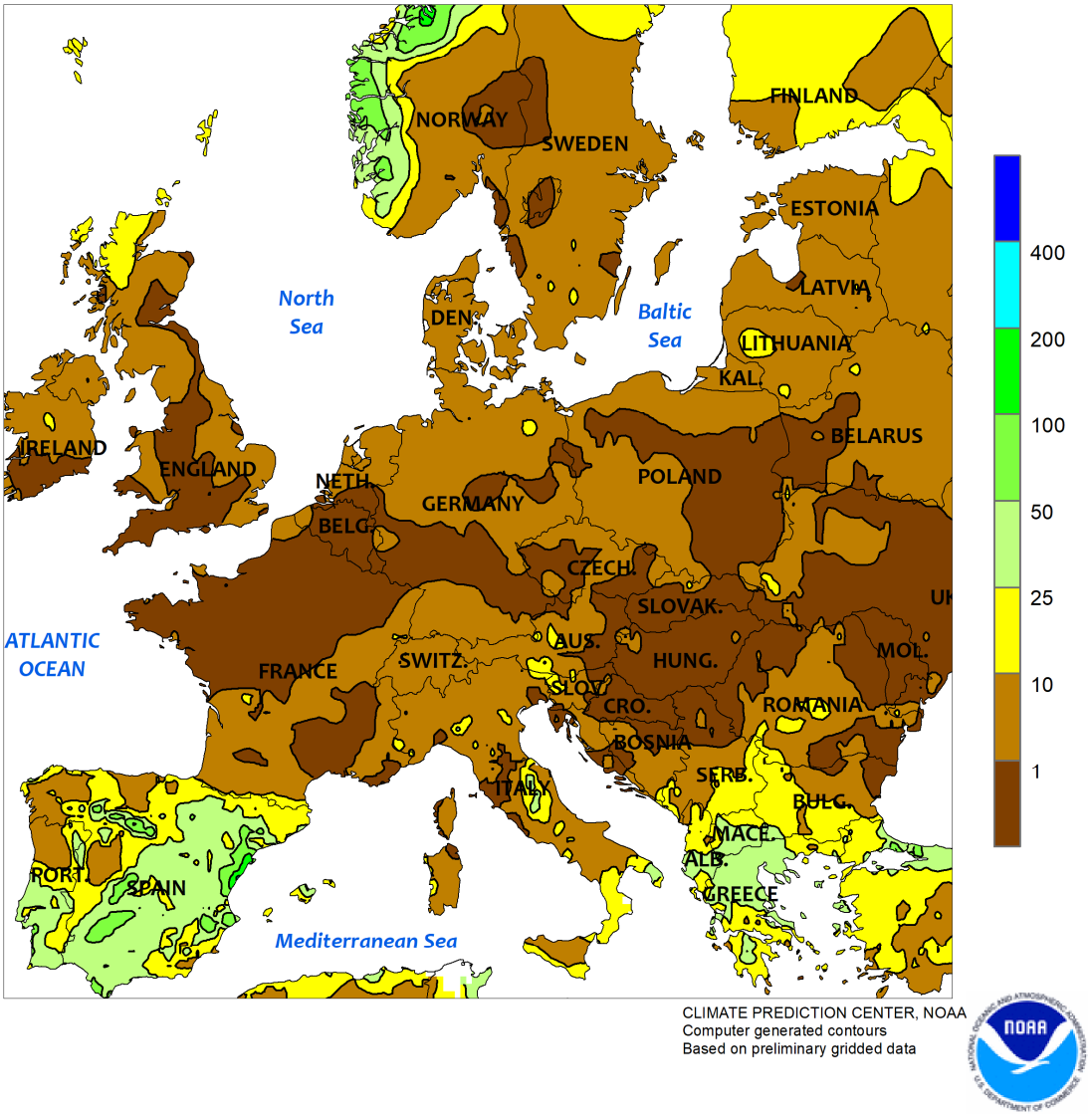
Based on Preliminary Reports

March 2020

COUNTRY	CITY	TEMPERATURE (C) AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	PRECIP. (MM) TOT	DEP NRM
ESTONI	TALLINN	6	-1	12	-9	2	3.4	51	15
ETHIOP	ADDIS ABABA	26	14	29	11	20	1.6	*****	******
F GUIA	CAYENNE	30	24	32	20	27	0.9	217	-102
FIJI	NAUSORI	31	24	33	22	27	0.7	710	342
FINLAN	HELSINKI	5	-1	11	-8	2	3.8	64	27
FRANCE	PARIS/ORLY	13	5	21	0	9	1.0	60	13
	STRASBOURG	13	3	20	-3	8	1.3	48	5
	BOURGES	14	5	22	0	9	1.4	49	-4
	BORDEAUX	15	6	20	1	11	0.7	113	48
	TOULOUSE	15	6	21	1	11	1.3	58	9
	MARSEILLE	16	6	22	0	11	0.4	18	-15
GABON	LIBREVILLE	***	***	33	25	***	*****	*****	******
GERMAN	HAMBURG	10	2	15	-5	6	1.2	49	-19
	BERLIN	10	2	18	-5	6	1.2	33	-11
	DUSSELDORF	12	4	17	-6	8	0.7	75	10
	LEIPZIG	10	1	17	-6	6	1.1	30	-9
	DRESDEN	9	2	17	-6	6	1.2	29	-16
	STUTTGART	11	2	19	-4	6	0.7	59	12
	NURNBERG	11	1	18	-5	6	1.5	40	-8
	AUGSBURG	10	0	19	-8	5	0.5	67	19
GREECE	THESSALONIKA	16	6	23	2	11	0.9	99	66
	LARISSA	17	4	23	-3	10	0.7	62	26
	ATHENS	18	10	24	6	14	1.7	59	18
GUADEL	RAIZET	29	21	30	18	25	0.2	128	86
HONGKO	HONG KONG IN	25	20	30	16	23	1.7	42	******
HUNGAR	BUDAPEST	13	3	21	-2	8	1.7	34	3
ICELAN	REYKJAVIK	3	-2	7	-9	1	0.2	86	5
INDIA	AMRITSAR	24	12	28	9	18	-0.9	65	21
	NEW DELHI	28	15	33	10	22	-1.0	93	76
	AHMEDABAD	34	19	38	13	26	-1.3	13	12
	INDORE	32	17	36	12	24	-1.3	17	14
	CALCUTTA	33	22	36	16	27	-0.3	82	55
	VERAVAL	31	20	37	16	26	-0.2	0	******
	BOMBAY	33	21	38	17	27	-0.1	0	-1
	POONA	34	17	38	13	26	-0.4	13	10
	BEGAMPET	35	22	37	20	28	-0.1	24	-1
	VISHAKHAPATN	32	25	34	22	29	1.0	25	14
	MADRAS	34	24	35	22	29	0.3	0	-12
	MANGALORE	34	24	36	22	29	0.1	23	11
INDONE	SERANG	32	24	35	22	28	0.9	258	122
IRELAN	DUBLIN	10	3	15	-4	6	0.0	32	-21
ITALY	MILAN	14	4	21	-1	9	-0.3	69	23
	VERONA	14	5	22	-2	9	-0.3	78	27
	VENICE	13	6	20	-1	9	0.8	64	23
	GENOA	15	9	21	5	12	0.1	97	35
	ROME	16	6	19	0	11	0.1	37	-14
	NAPLES	16	7	20	2	12	0.0	28	-50
JAMAIC	KINGSTON	31	23	33	21	27	0.5	6	-13
JAPAN	SAPPORO	7	0	14	-4	4	2.9	114	36
	NAGOYA	16	7	22	1	11	2.4	150	27
	TOKYO	16	7	25	1	11	1.7	132	14
	YOKOHAMA	16	8	24	4	12	2.5	142	1
	KYOTO	16	7	23	0	11	2.2	80	-35
	OSAKA	15	8	22	2	12	2.4	92	-11
KAZAKH	KUSTANAY	3	-5	10	-23	-1	6.0	24	8
	TSELINOGRAD	1	-7	10	-22	-3	4.2	7	-7
	KARAGANDA	1	-8	11	-23	-3	3.7	9	-16
KENYA	NAIROBI	27	17	29	15	22	-0.4	132	50
LIBYA	BENGHAZI	21	11	27	6	16	1.2	196	170
LITHUA	KAUNAS	8	0	17	-8	4	3.2	29	-9
LUXEMB	LUXEMBOURG	10	3	18	-2	7	1.3	67	-3
MALAYS	KUALA LUMPUR	35	26	37	24	30	2.4	317	57
MALI	BAMAKO	39	23	41	16	31	-0.5	99	94
MARSHA	MAJURO	30	27	31	25	28	0.7	147	-45
MARTIN	LAMENTIN	30	22	30	19	26	0.5	44	-33
MAURIT	NOUAKCHOTT	34	17	40	15	26	1.6	*****	******
MEXICO	GUADALAJARA	30	14	34	11	22	3.0	0	-3
	TLAXCALA	27	10	31	6	19	2.7	9	2
	ORIZABA	26	16	33	10	21	2.6	13	******
MOROCC	CASABLANCA	20	12	25	8	16	0.5	18	-15
	MARRAKECH	24	11	33	7	17	0.1	31	-4
MOZAMB	MAPUTO	31	22	35	19	26	0.1	47	-33
N KORE	PYONGYANG	12	0	20	-5	6	2.1	4	-24
NEW CA	NOUMEA	30	24	34	21	27	1.4	60	-108
NIGER	NIAMEY	40	26	43	23	33	1.5	0	-2
NORWAY	OSLO	5	-1	10	-9	2	3.0	63	7
NZEALA	AUCKLAND	23	15	28	10	19	0.2	41	-18
	WELLINGTON	20	13	24	9	16	-0.2	100	42
P RICO	SAN JUAN	28	23	31	22	26	-0.6	112	63
PAKIST	KARACHI	31	21	37	16	26	0.9	1	-4
PERU	LIMA	28	22	31	12	25	2.0	0	0
PHILIP	MANILA	33	26	38	24	29	0.7	19	******
PNEWGU	PORT MORESBY	31	26	33	22	28	0.7	#######	******
POLAND	WARSAW	10	0	17	-8	5	2.3	13	-18
	LODZ	10	0	17	-9	5	1.7	21	-17
	KATOWICE	10	0	18	-6	5	1.6	33	-13
PORTUG	LISBON	19	11	26	6	15	0.3	28	-22
ROMANI	BUCHAREST	15	2	24	-8	8	3.2	38	-1
RUSSIA	ST.PETERSBUR	5	0	12	-7	2	3.6	70	35
	KAZAN	6	0	16	-8	3	6.1	20	-12
	MOSCOW	8	1	17	-9	4	5.0	58	24
	YEKATERINBUR	5	-2	15	-13	1	5.3	19	2
	OMSK	2	-6	8	-19	-2	5.4	18	1
	BARNAUL	1	-7	8	-19	-3	4.1	14	-2
	KHABAROVSK	3	-6	14	-14	-2	4.9	15	-4
	VLADIVOSTOK	4	-2	9	-9	1	2.4	35	9
	VOLGOGRAD	12	0	20	-8	6	6.3	0	-23
	ASTRAKHAN	14	2	20	-2	8	5.8	14	-2
	ORENBURG	6	-3	17	-15	2	7.6	10	-13
S AFRI	JOHANNESBURG	23	13	27	10	18	-0.1	61	-38
	DURBAN	28	20	31	16	24	0.3	56	-53
	CAPE TOWN	26	15	36	8	20	0.6	1	-19
S KORE	SEOUL	13	3	21	-3	8	2.6	12	-35
SAMOA	PAGO PAGO	32	26	33	24	29	0.5	477	180
SENEGA	DAKAR	27	20	34	17	24	2.5	0	0
SPAIN	VALLADOLID	16	5	24	0	10	1.2	42	20
	MADRID	17	6	26	0	11	1.3	67	44
	SEVILLE	22	11	31	7	16	0.3	63	28
SWITZE	ZURICH	11	2	19	-4	7	1.3	58	-21
	GENEVA	12	3	19	-2	8	1.4	84	20
SYRIA	DAMASCUS	20	7	26	0	13	2.2	38	13
TAHITI	PAPEETE	32	25	34	24	28	0.5	258	63
TANZAN	DAR ES SALAA	33	24	35	23	29	1.1	372	233
THAILA	PHITSANULOK	37	24	40	21	31	1.7	35	2
	BANGKOK	36	28	41	24	32	2.2	5	-38
TOGO	TABLIGBO	36	26	38	24	31	1.1	82	-4
TRINID	PORT OF SPAI	32	22	33	20	27	0.6	10	-25
TUNISI	TUNIS	19	10	28	6	15	0.7	79	38
TURKEY	ISTANBUL	14	7	23	1	10	2.4	32	-23
	ANKARA	14	1	22	-9	8	3.1	18	-18
TURKME	ASHKHABAD	17	8	34	0	13	4.0	100	59
UKINGD	ABERDEEN	9	2	14	-4	6	0.3	21	-38
	LONDON	12	4	16	0	8	0.2	46	5
UKRAIN	KIEV	10	3	19	-4	7	4.8	15	-20
	LVOV	9	0	18	-9	4	2.5	36	-15
	KIROVOGRAD	13	2	21	-7	7	5.5	24	-7
	ODESSA	12	5	20	-2	8	4.7	8	-22
	KHARKOV	12	1	20	-6	7	5.9	18	-16
UZBEKI	TASHKENT	18	8	28	1	13	3.5	24	-46
VENEZU	CARACAS	***	***	***	***	***	*****	0	-19
YUGOSL	BELGRADE	14	5	26	-2	9	1.8	48	-4
ZAMBIA	LUSAKA	26	18	29	16	22	0.3	*****	******
ZIMBAB	KADOMA	***	***	32	12	***	*****	*****	******

Based on Preliminary Reports

EUROPE
Total Precipitation (mm)
March 29 - April 4, 2020



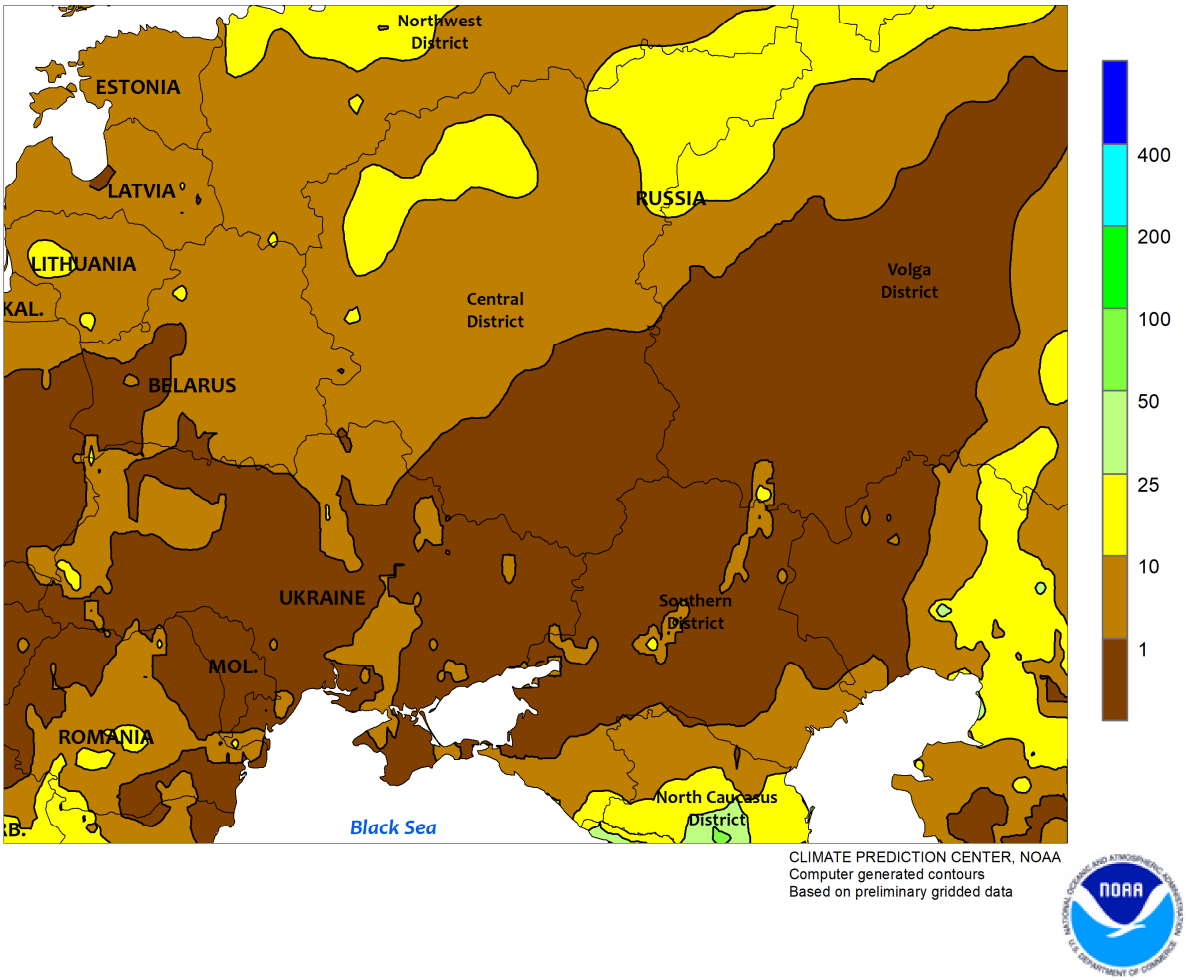
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded data

EUROPE

Dry, cool weather across central and northern Europe contrasted with periods of rain in southern growing areas. Mostly sunny skies prevailed for a third consecutive week from France and England into Poland and the Baltic States. The recent respite from a very wet winter favored fieldwork and allowed previously water-logged soils to dry, although acute short-term dryness (30-day rainfall less than 25 percent of normal) has developed from central and southeastern France into southern Poland and environs. Conversely, moderate to heavy rain (10-85 mm) across the Mediterranean region boosted soil moisture for vegetative winter grains in Spain but impeded late cotton planting in Greece. Temperatures averaged 1 to 4°C below normal over most of the continent, slowing the recent rapid winter crop growth rates. Nevertheless, wheat and rapeseed were still progressing through the vegetative stages of development up to two weeks ahead of average even with this week's cold snap, especially in eastern growing areas where late-winter warmth was most pronounced. In addition, hard freezes (-9 to -2°C) were reported over much of northern and eastern Europe for a second straight week, though temperatures were not low enough to cause widespread burnback or frost damage.

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

WESTERN FSU
Total Precipitation (mm)
March 29 - April 4, 2020

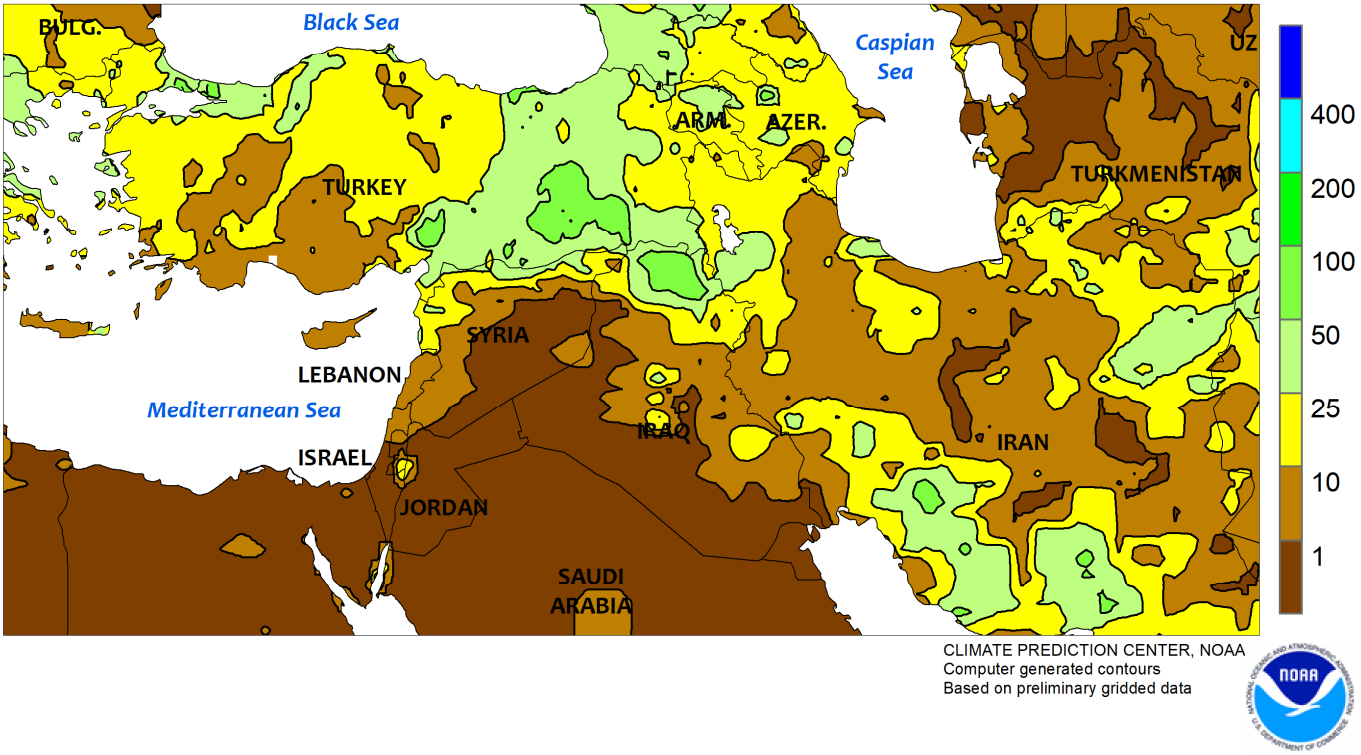


WESTERN FSU

Sunny skies favored fieldwork but exacerbated short-term dryness. Rain during the period was confined to northernmost portions of Russia (1-15 mm) as well as the southern North Caucasus District (10-50 mm, locally more), with neither representing a primary winter wheat area. Otherwise, dry weather promoted spring grain sowing and other seasonal fieldwork. However, acute short-term dryness has developed from the central Black Sea Coast into Russia's Southern District, where 30-day rainfall has totaled a meager 10 percent of normal or less. Winter wheat in Krasnodar Krai (southwestern Southern District) was advancing through the tillering stage up to two weeks ahead of average, and moisture demands will increase as the crop approaches reproduction in late April and early May. Near-normal temperatures across primary wheat areas of southern Ukraine and southwestern Russia contrasted with readings up to 7°C above normal in Russia's Volga District (primarily spring grains).

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

MIDDLE EAST
Total Precipitation (mm)
March 29 - April 4, 2020



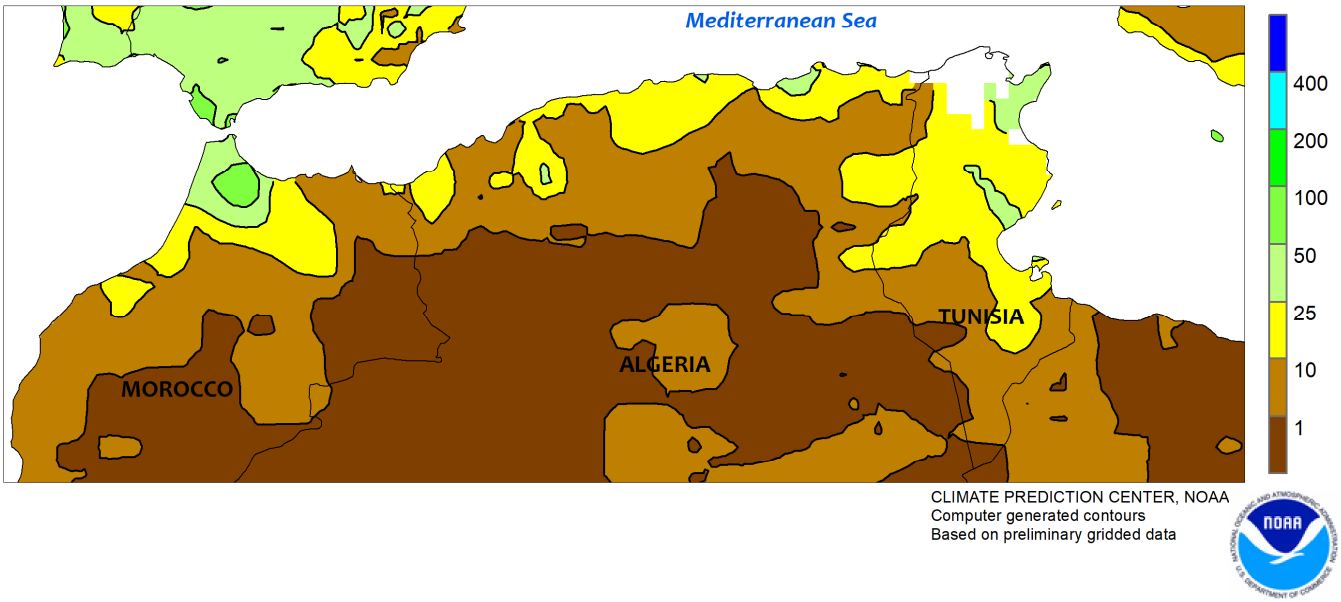
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded data

MIDDLE EAST

An ongoing parade of slow-moving Mediterranean storms maintained unusually wet weather across much of the region. During the 7-day monitoring period, a pair of storm systems generated 10 to 100 mm of rain from Turkey and the northeastern Mediterranean Coast into Iran. Moisture supplies remained adequate to abundant for vegetative (north) to reproductive (central and south) wheat and barley, with crops generally developing on par with normal. This week's rainfall was more than four times normal in southeastern Turkey and eight times normal in southern Iran. Winter grain prospects remained good to excellent across the region, though satellite-derived vegetation health data continued to depict lingering impacts from autumn drought in central Turkey.

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

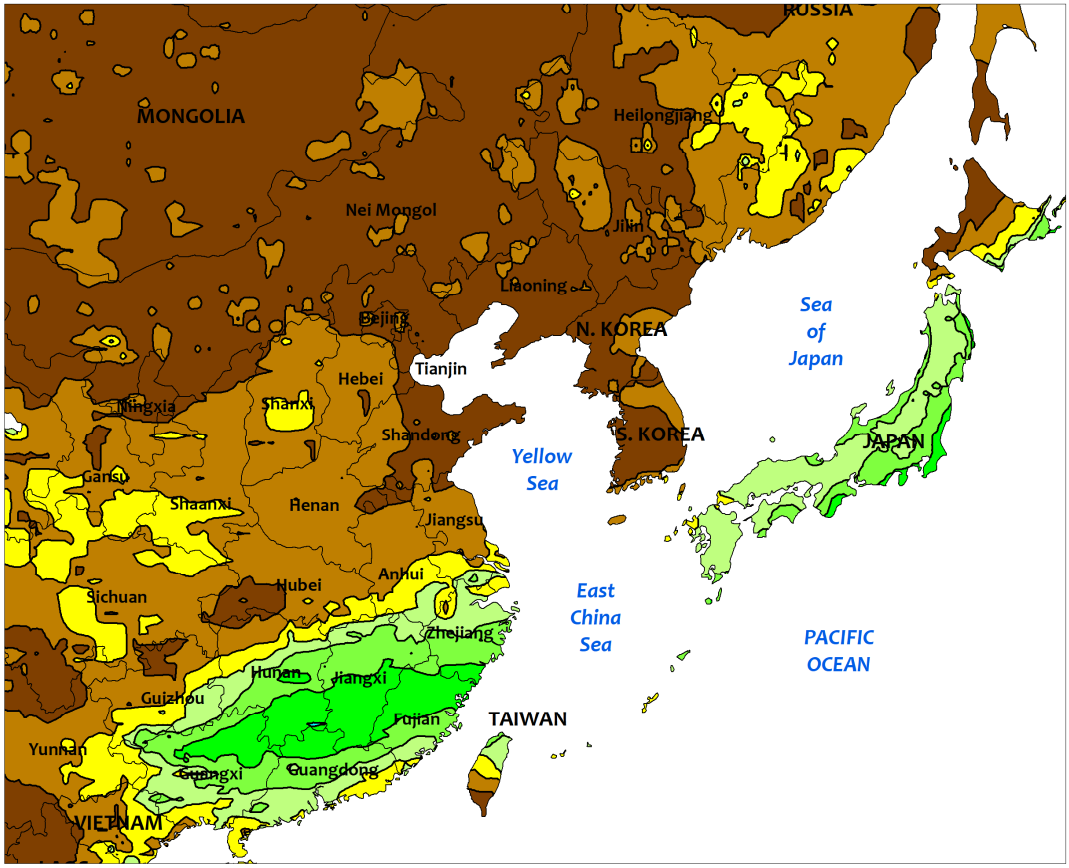
NORTHWESTERN AFRICA
Total Precipitation (mm)
March 29 - April 4, 2020



NORTHWESTERN AFRICA

The recent spate of wet weather continued, mostly benefiting winter grains in central and eastern portions of the region. In Morocco, where autumn drought impacted crop establishment and late-winter drought cut yield prospects for reproductive wheat and barley, light to moderate showers (1-20 mm) provided some topsoil moisture improvements but otherwise was too late to offer much benefit to filling to maturing winter grains. In contrast, another round of moderate to heavy rain (10-60 mm) from north-central Algeria eastward into Tunisia continued the remarkable recovery from winter drought and further improved yield prospects for late-vegetative to reproductive winter grains. Temperatures averaged near to slightly below normal, with no concerns regarding adverse heat as crops over the eastern half of the region progressed through reproduction.

EASTERN ASIA
Total Precipitation (mm)
March 29 - April 4, 2020



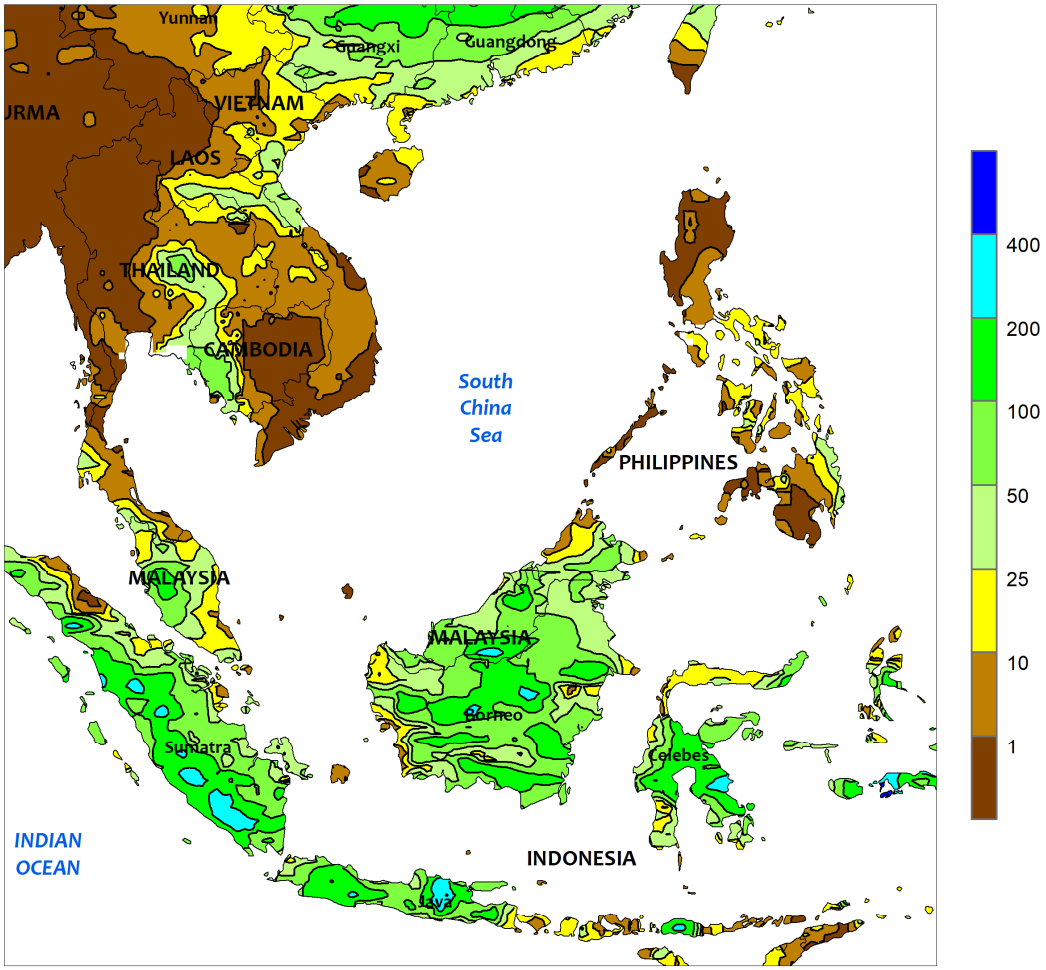
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded data

EASTERN ASIA

Light, mid-week rainfall (less than 10 mm) occurred across many of the wheat and rapeseed areas of eastern China, and along with seasonable temperatures, promoted good crop conditions. Farther south, heavier showers (50-150 mm) boosted moisture supplies for early-crop rice entering reproduction. Overall, spring moisture conditions have been adequate to abundant for crops except for eastern portions of the North China Plain (Shandong, Anhui, and Jiangsu), where irrigation has been necessary.

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

SOUTHEAST ASIA
Total Precipitation (mm)
March 29 - April 4, 2020



SOUTHEAST ASIA

Wet weather continued across Indonesia and Malaysia, boosting moisture supplies for spring- and summer-sown rice in Indonesia and improving short-term soil moisture for oil palm in both countries. However, rainfall totals over the last 90 days have been below (Indonesia) to well below (Malaysia) average in oil palm areas, lowering yield potential. Meanwhile in the Philippines, mostly dry weather facilitated rice and corn harvesting as well as preparations for the summer growing season. Elsewhere, pre-monsoon heat (40°C or more) was building across Thailand and Indochina, with only isolated showers bringing temporary relief. Fieldwork preparations for the summer growing season were underway in these areas as well.

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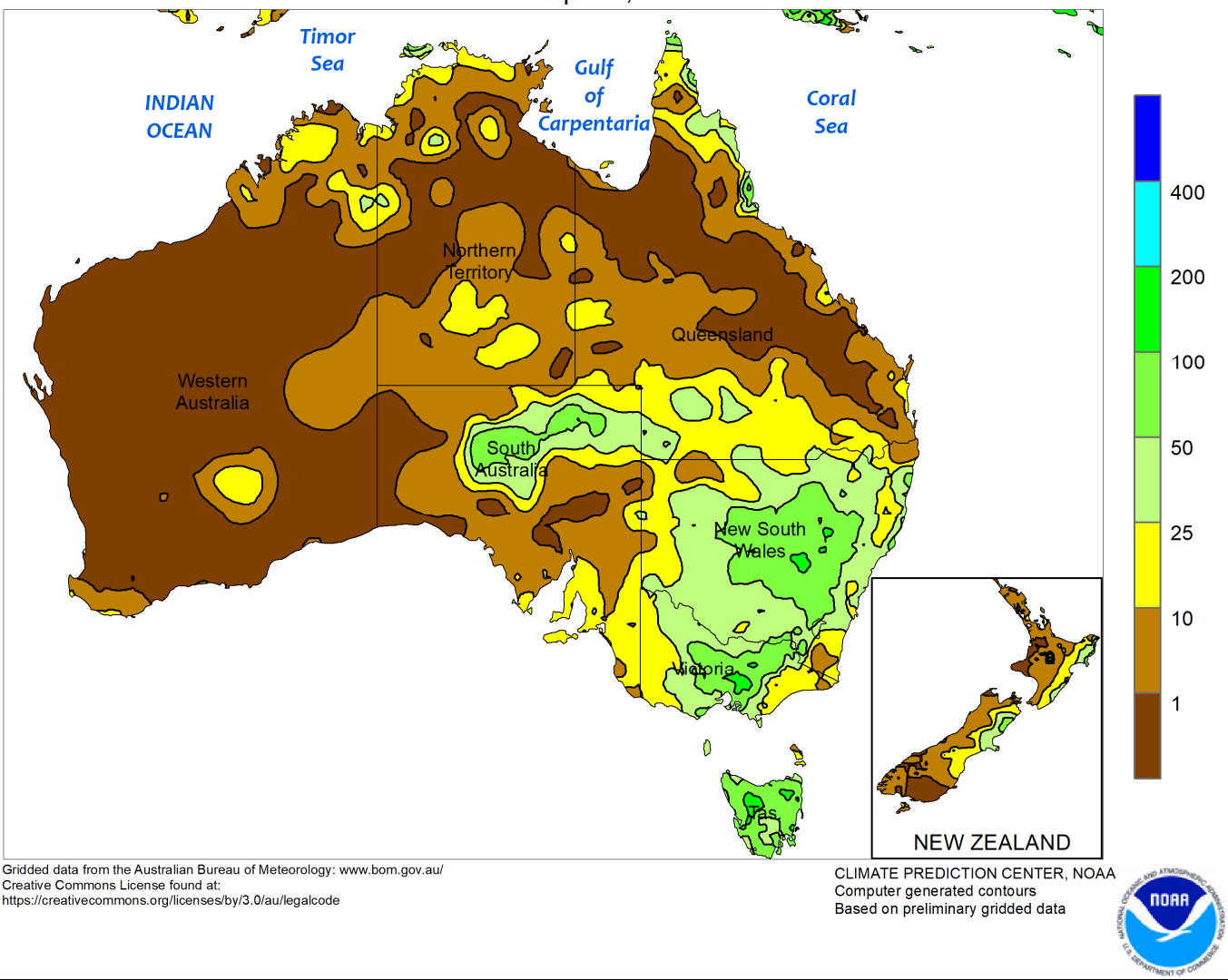
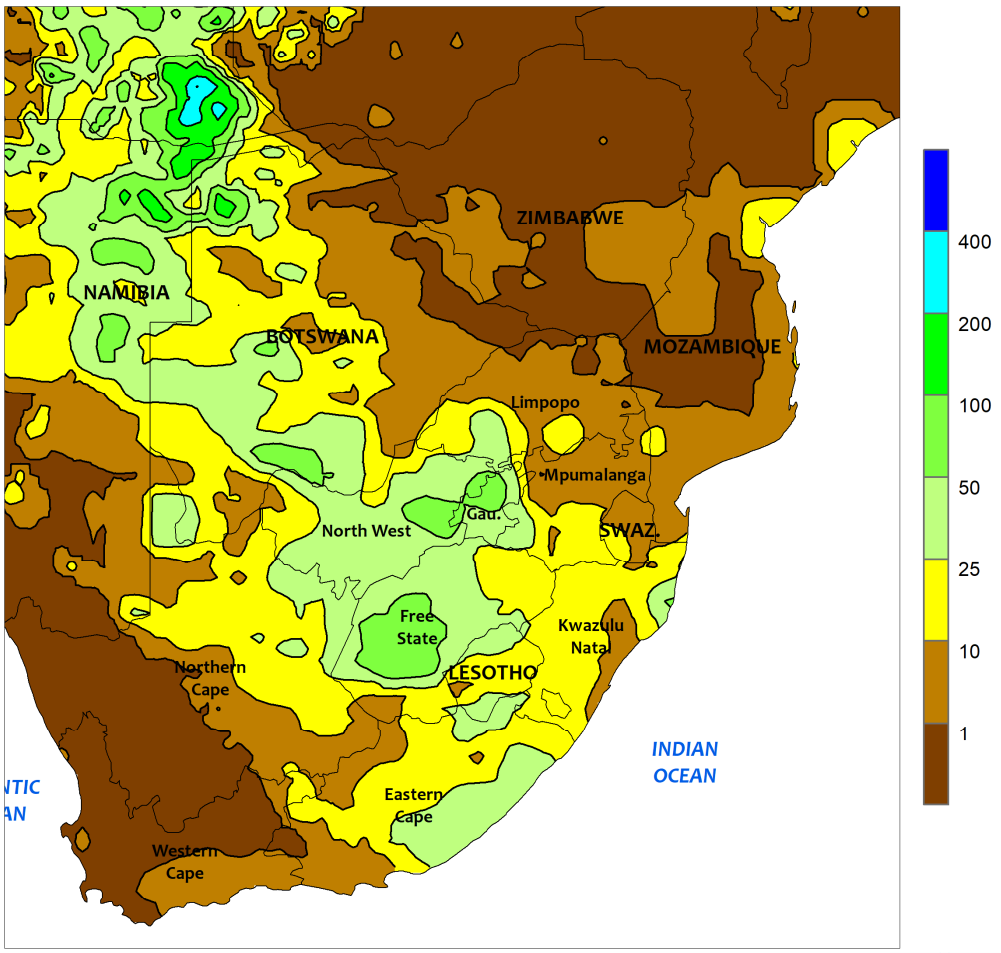


AUSTRALIA

Soaking rain (25-75 mm or more) overspread a large portion of eastern Australia, further increasing soil moisture in advance of wheat and other winter crop planting. The rain was unfavorable for maturing cotton and sorghum, however, slowing drydown while hindering or halting harvesting in many areas. Despite the negative impacts on mature summer crops, many farmers likely welcomed the rain as the region continues to recover from severe, long-term drought. Winter crop sowing typically begins in mid-April and gains momentum through May. Conversely, summer crop harvesting often begins to wind down by the end of May. Temperatures averaged within 2°C of normal in eastern Australia, with maximum temperatures generally in the 20s (degrees C).

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

SOUTH AFRICA
Total Precipitation (mm)
March 29 - April 4, 2020

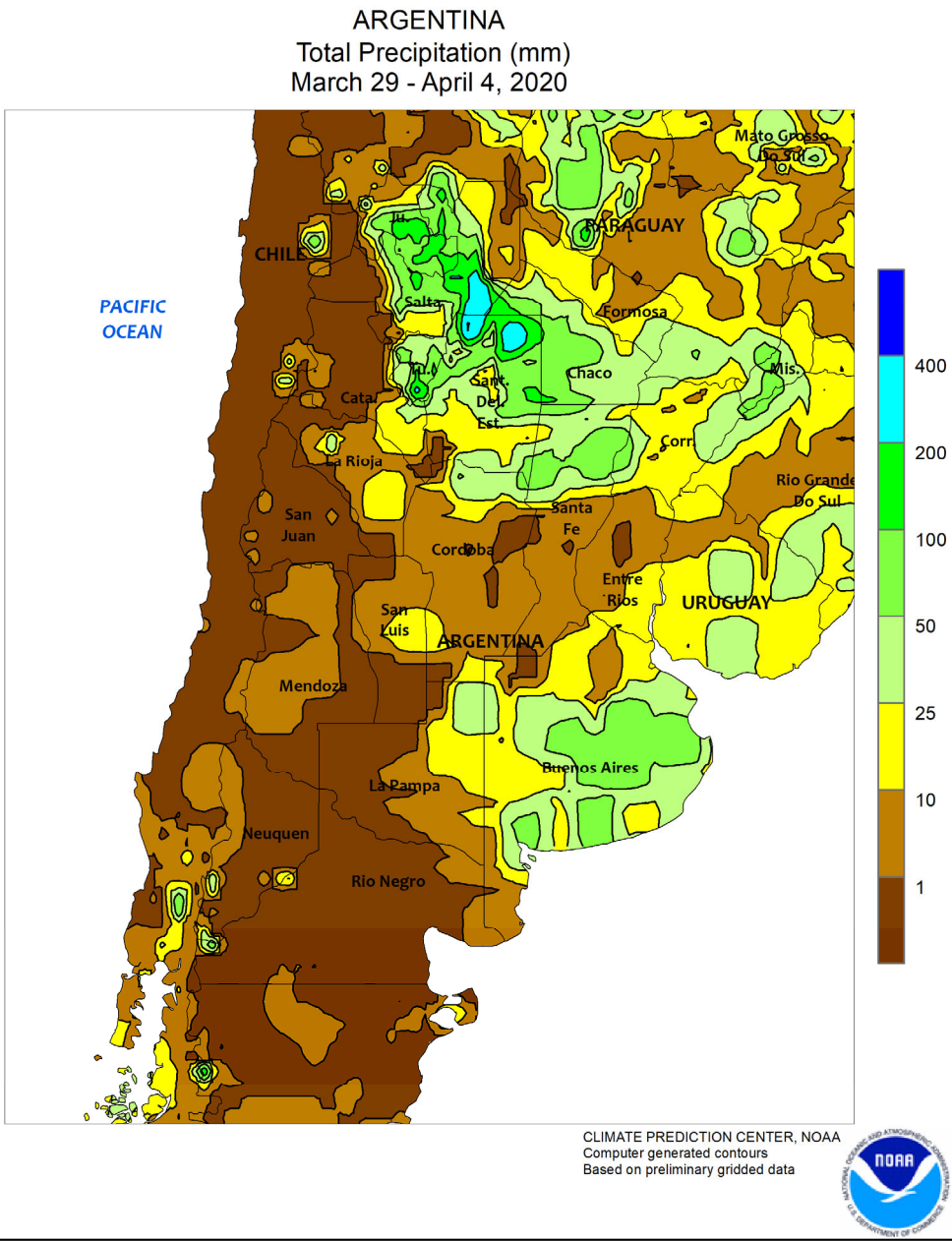


CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded data

SOUTH AFRICA

Unseasonably heavy showers returned to farming areas in central parts of the country, maintaining ample levels of moisture for late summer crop development while increasing long-term moisture reserves across the region. Rainfall totaling 10 to 50 mm covered a broad area stretching from Namibia and Botswana southeastward to Eastern Cape and KwaZulu-Natal; this expanse included much of the corn belt (North West and Free State to Mpumalanga) and irrigated farming areas along the Orange River in Northern Cape. Drier conditions prevailed at opposite ends of the wet area, notably Western Cape and environs as well as outlying farming areas in Limpopo and Mpumalanga. In the east, the drier conditions favored early sugarcane harvesting in irrigated production areas of Mpumalanga and KwaZulu-Natal. In Western Cape, rain will be needed soon for wheat planting. Near- to below-normal temperatures were common throughout the region, though no widespread freeze was evident in any interior production areas.

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



ARGENTINA

Above-normal rainfall covered much of region, increasing moisture for immature summer crops as well as helping to replenish long-term soil moisture reserves for the upcoming winter cropping season. The heaviest rain (25 to more than 50 mm) was concentrated over Buenos Aires in the south and from Salta and Tucuman eastward to Corrientes in the north, with most neighboring locations receiving at least 10 mm. An exception was an area extending from central Cordoba eastward to Entre Rios, where lighter rain (less than 10 mm) fell. Temperatures averaged up to 2°C above normal, with weekly temperatures averaging closer to normal in some of the wettest locations. Daytime highs ranged from the lower and middle 20s (degrees C) to the upper 30s in the far north, and nighttime lows dropped below 10°C in most southern farming areas, though no freezes were recorded. According to the government of Argentina, sunflowers were 82 percent harvested as of April 2, lagging last year's pace by 2 points; harvesting was 68 percent complete in Buenos Aires, on par with last season's pace. In addition, corn was 19 percent harvested – equaling last year – and cotton was 18 percent harvested versus 17 percent last year. Similarly, soybeans were 10 percent harvested versus 9 percent last year.

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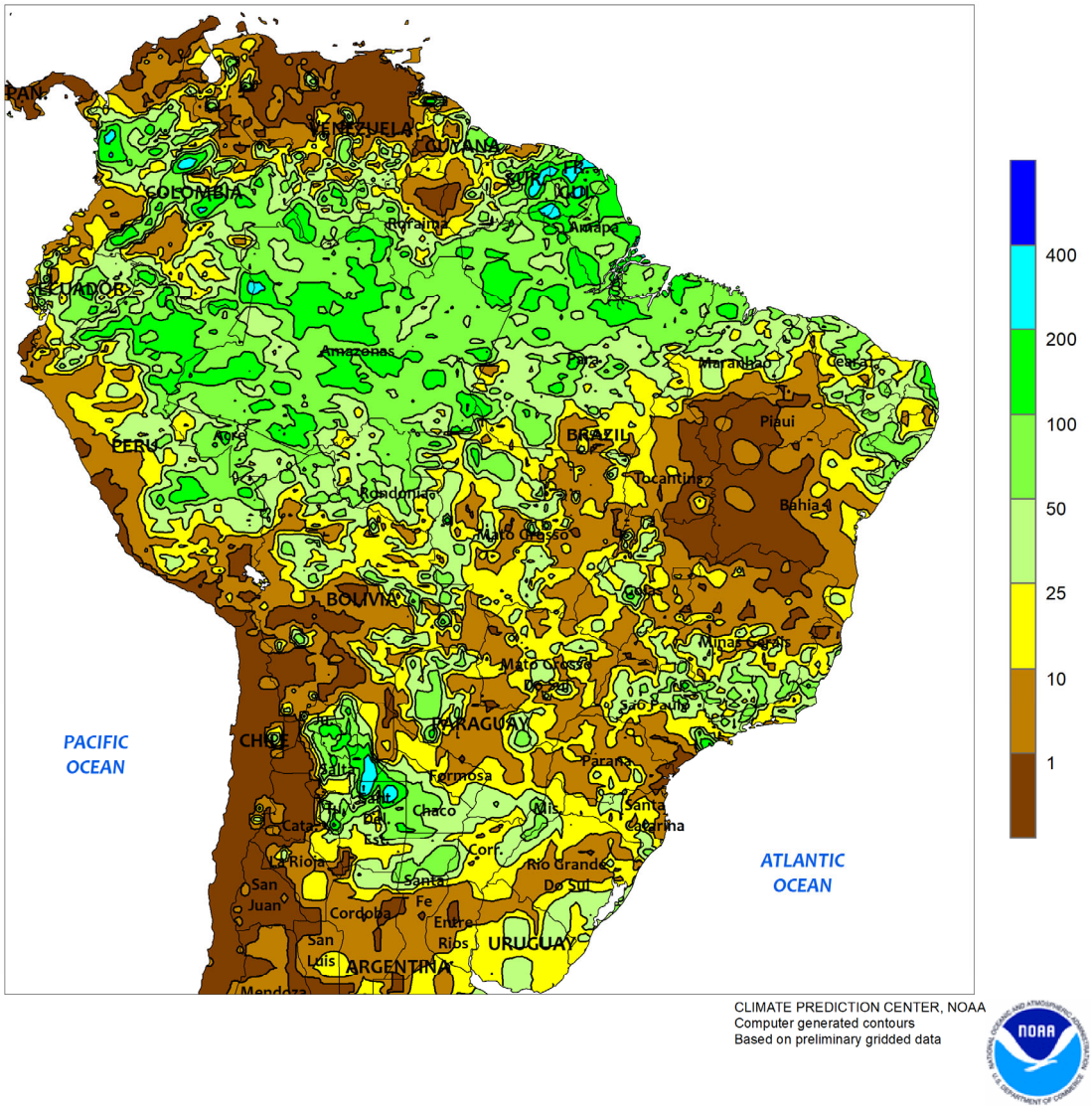
BRAZIL
Total Precipitation (mm)
March 29 - April 4, 2020



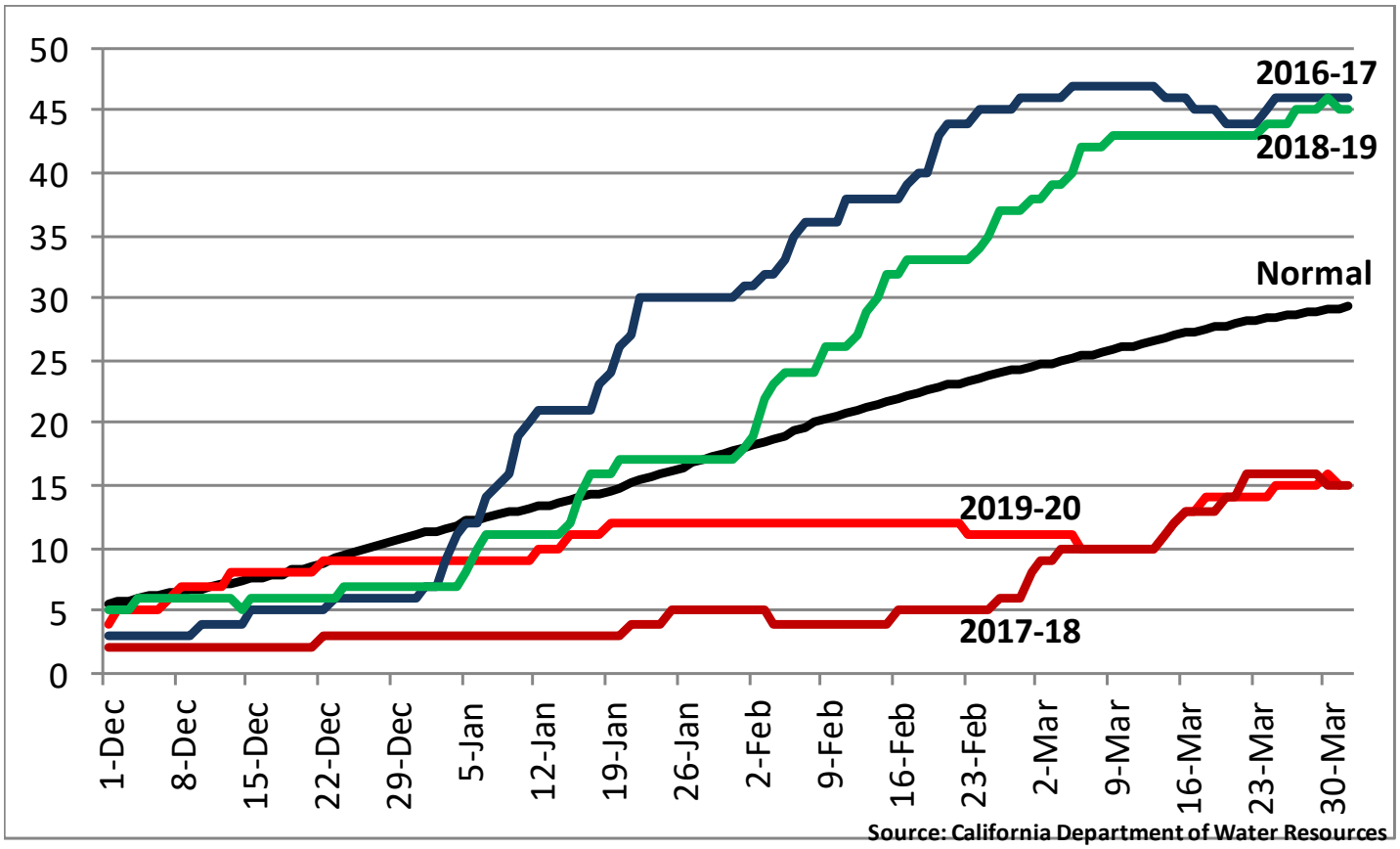
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded data

BRAZIL

Showers were unseasonably light throughout much of the region, providing only limited, localized relief from dryness. Pockets of light to moderate rain (5 to locally more than 25 mm) were scattered throughout southern Brazil (Mato Grosso do Sul and Sao Paulo southward), but large parts of the region recorded less than 10 mm. Daytime highs reaching the lower and middle 30s (degrees C) exacerbated the impacts of the dryness on actively growing crops. According to the government of Parana, harvesting of first-crop corn and soybeans had reached 85 and 92 percent complete, respectively, as of March 30, with most of the remainder maturing; however, second-crop corn was 9 percent flowering to filling, and needed moisture. In Rio Grande do Sul, corn was 72 percent harvested as of April 2, with the majority of the remaining crop ranging from filling to mature; meanwhile, soybeans were 58 percent harvested, with about 10 percent of the crop still flowering to filling. Elsewhere, moderate showers (10-25 mm or more) provided a late-season boost in moisture to coffee in southern Minas Gerais, but aside from a few pockets of rain, drier conditions prevailed north and westward into major farming areas of the Center West and northeastern interior (Mato Grosso to western Bahia and environs). Following last week's generally beneficial rain, the warm (daytime highs reaching the middle 30s), sunny weather prompted growth of corn and cotton, although additional rain would be welcome as farmers eye the impending end of the rainy season.

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

Daily Sierra Nevada Snowpack (Inches) vs. Normal



Recent winters have featured a recurring pattern in California's key watershed areas: a bountiful year followed by a drier-than-normal season. Both 2017-18 and 2019-20 ended with the Sierra Nevada snowpack containing only about 15 inches of liquid—just over one-half of normal. However, the preceding wet years (2016-17 and 2018-19, respectively) have helped to minimize hydrological impacts during the alternating dry years.

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