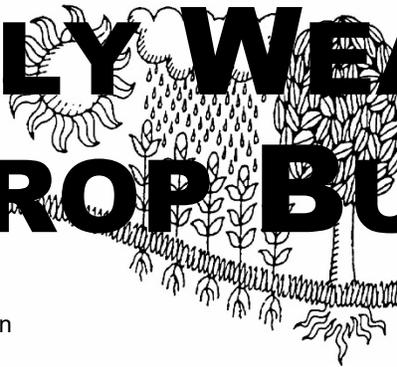
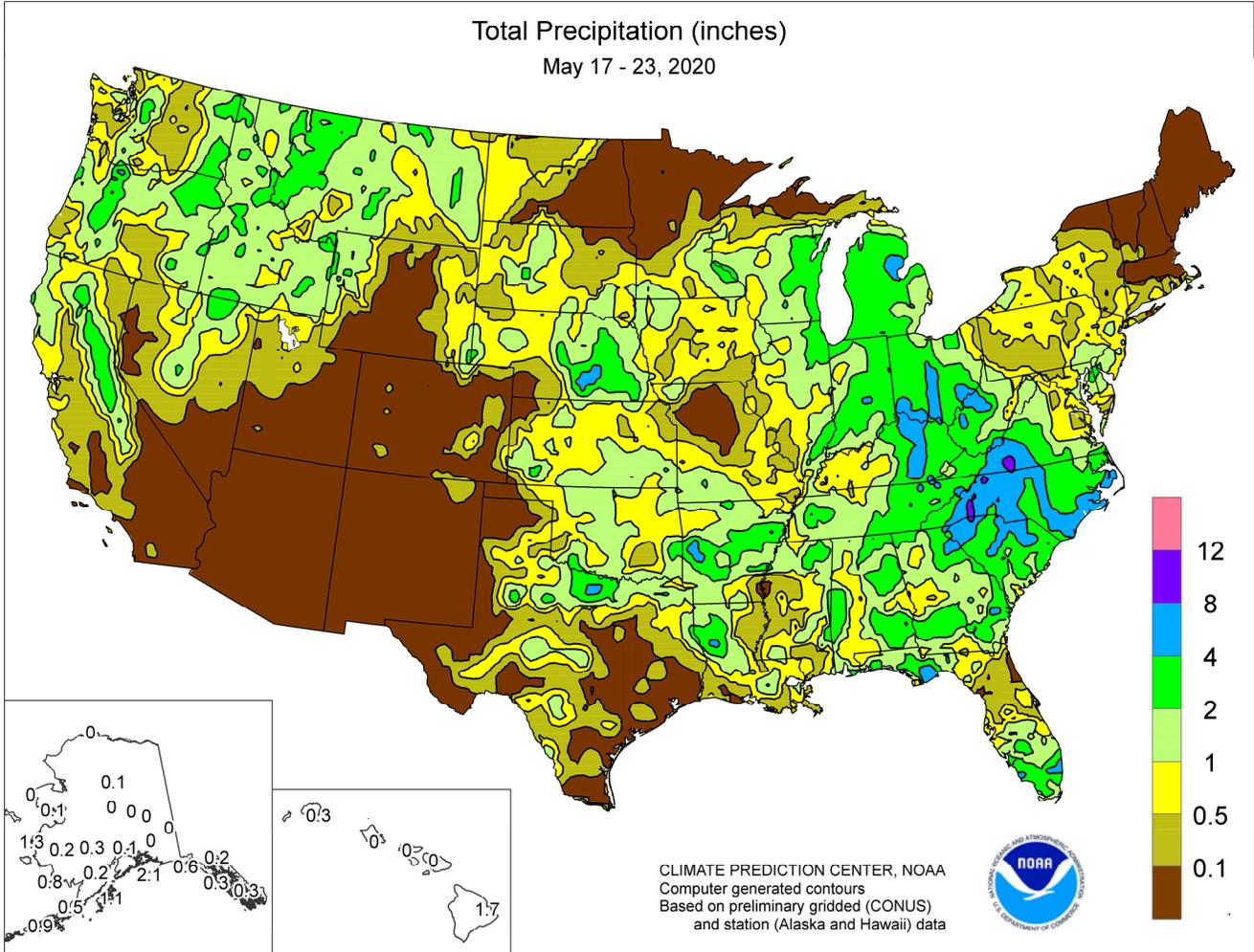


WEEKLY WEATHER AND CROP BULLETIN



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

May 17 – 23, 2020

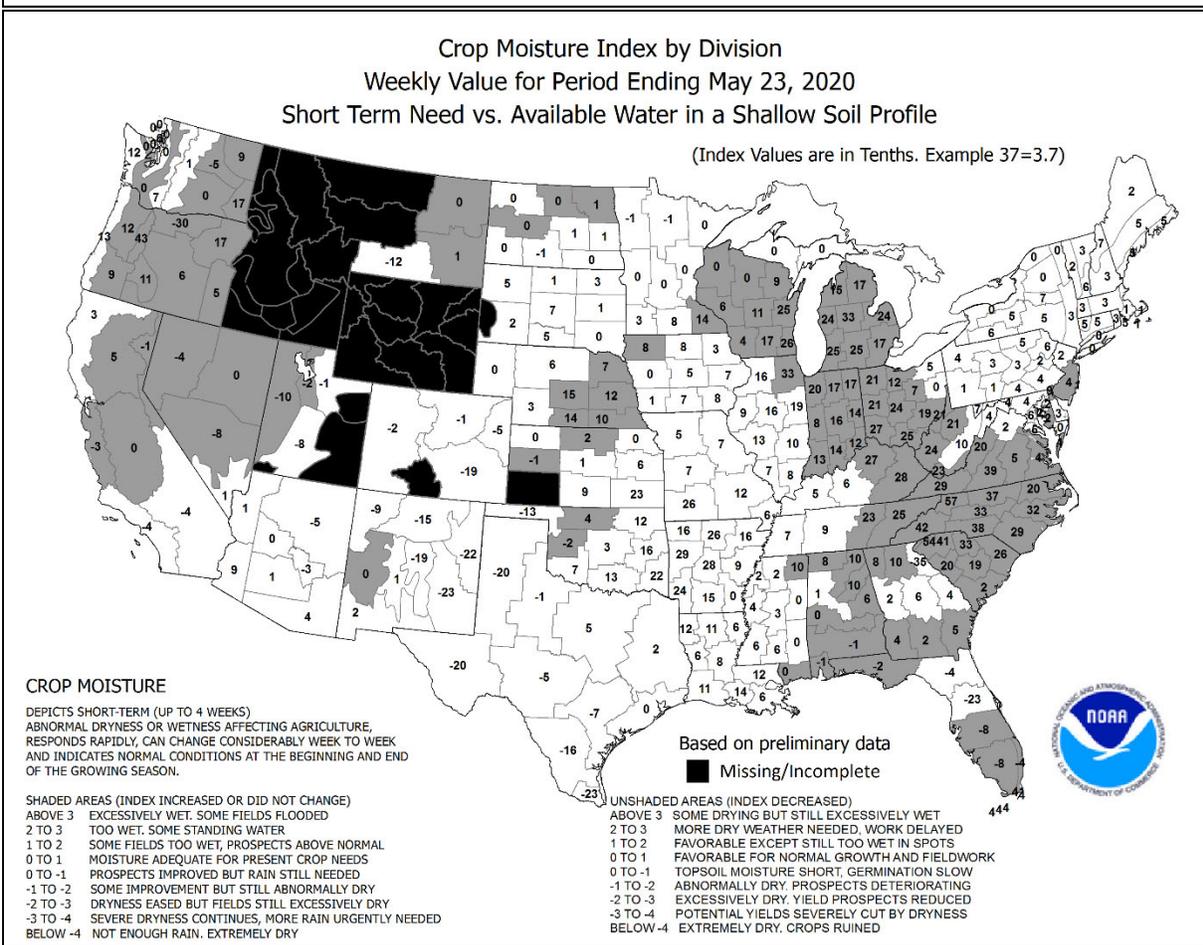
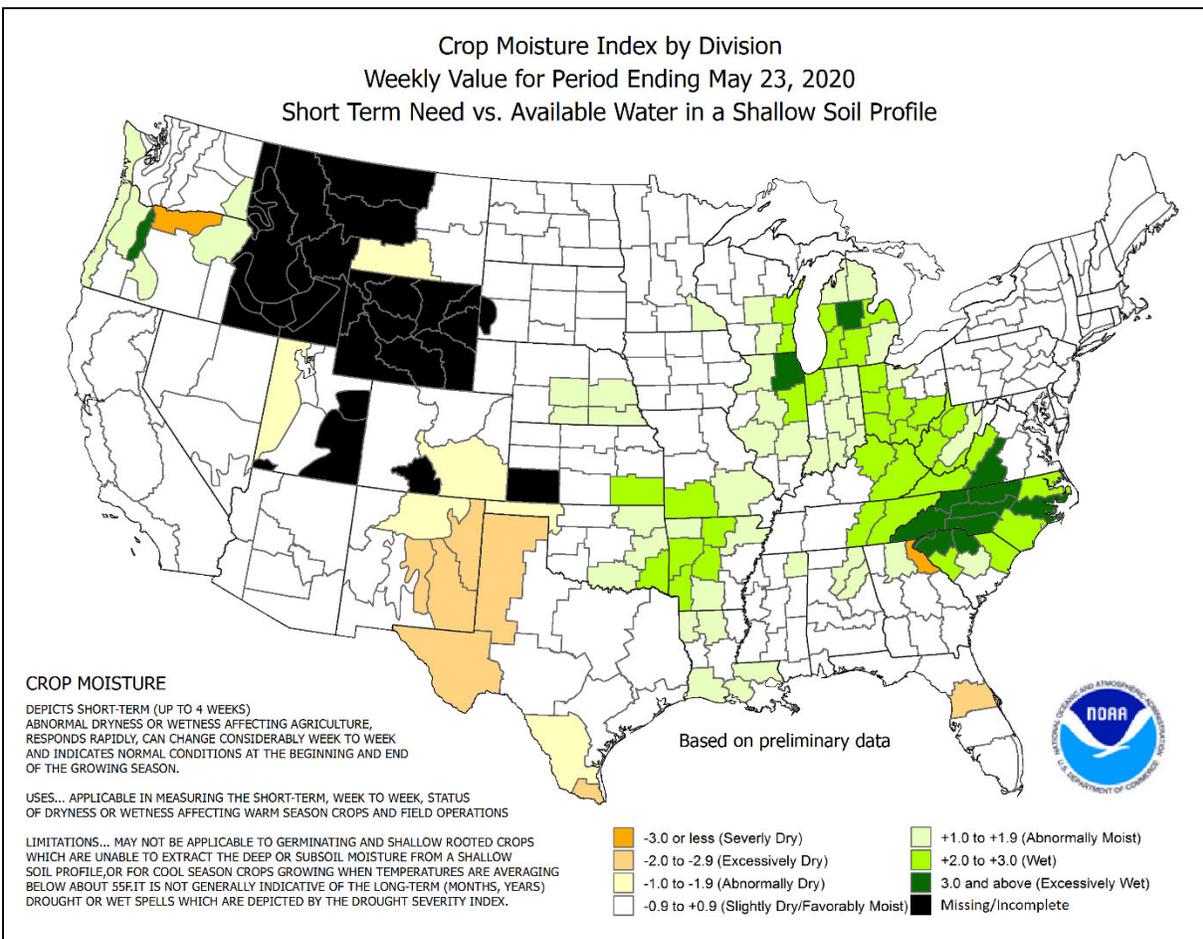
Highlights provided by USDA/WAOB

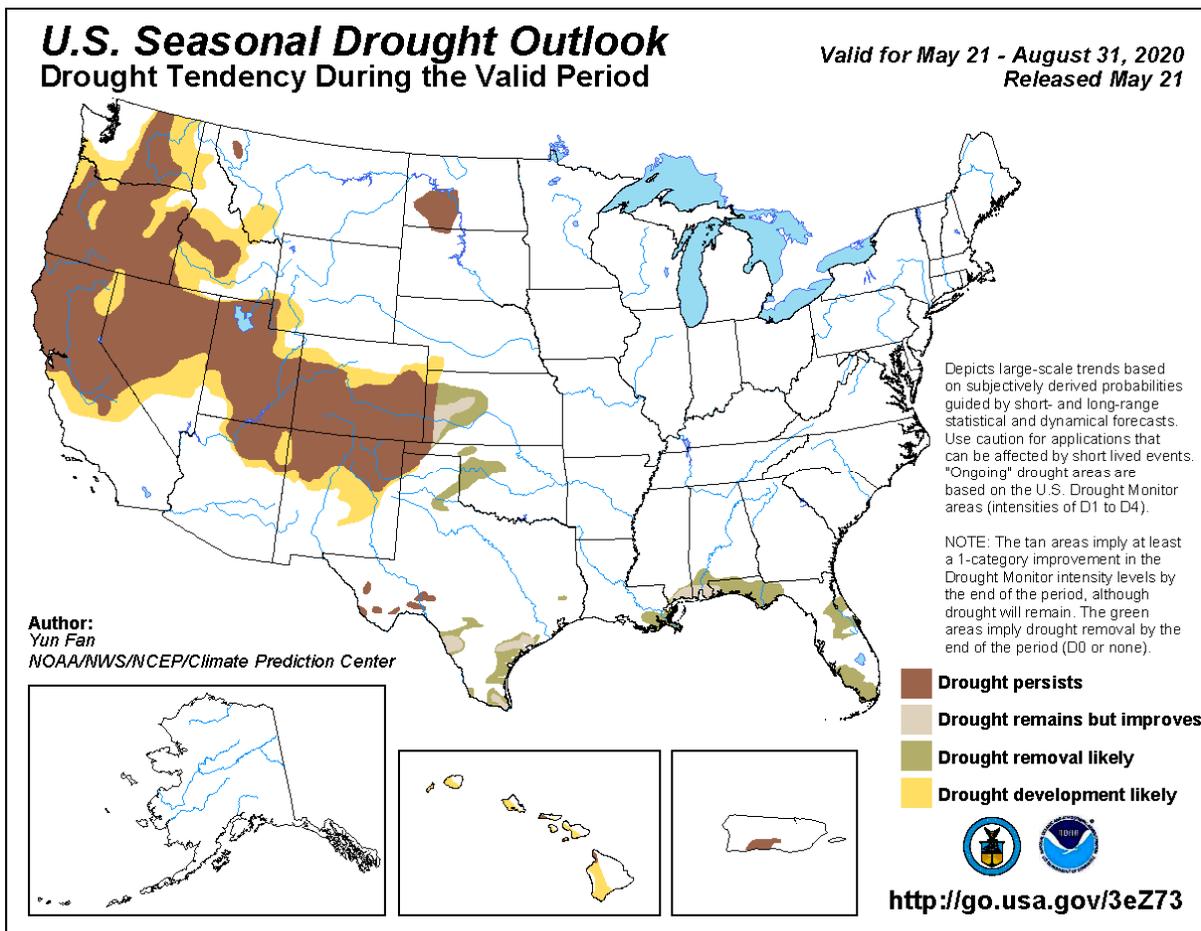
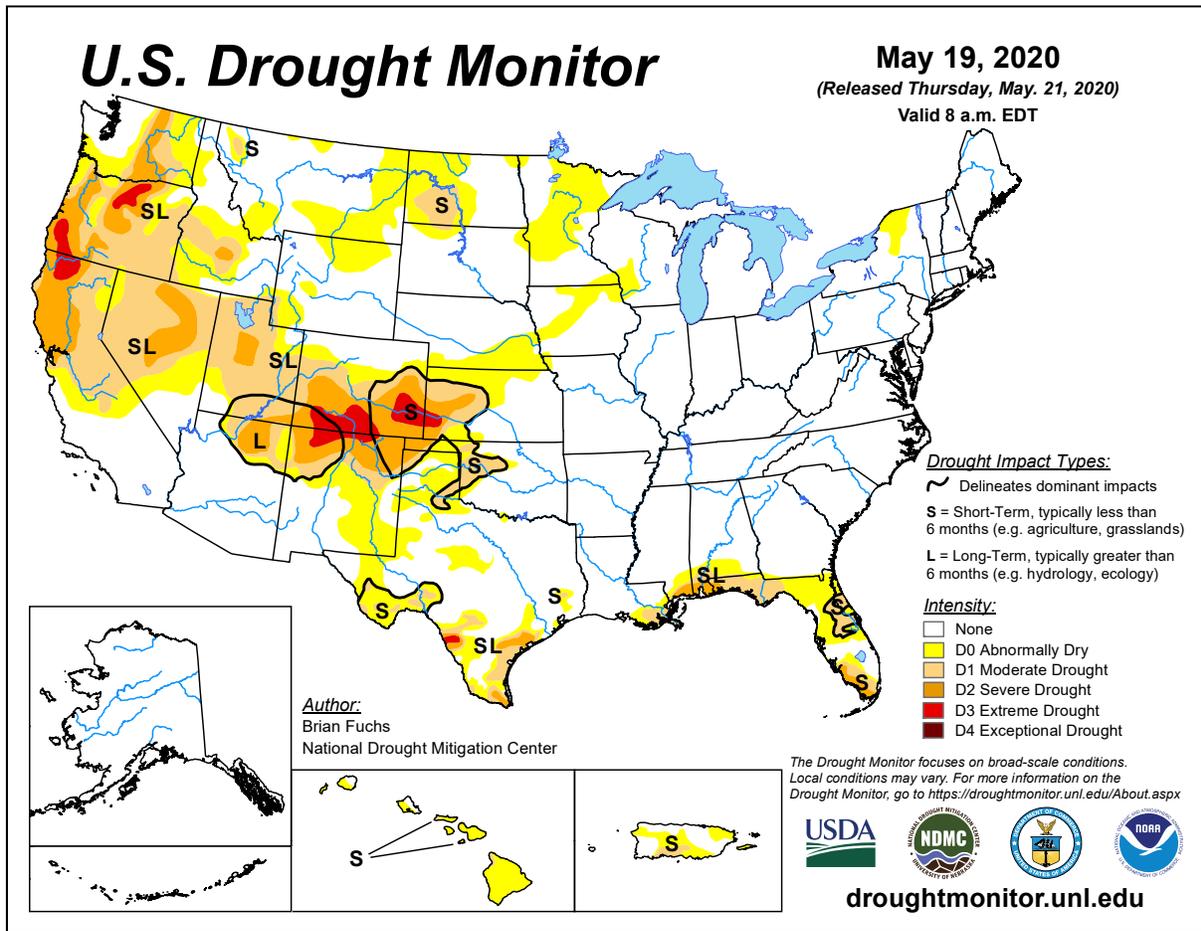
A pair of slow-moving storms delivered heavy rain across the **Northwest** and from the **Midwest into the Southeast**, respectively. **Midwestern** rainfall was a continuation from the previous week’s downpours, which ultimately led to record flooding in small areas of **Illinois** and **Michigan**. As **Midwestern** flooding ebbed, the focus for heavy rainfall (locally 4 to 10 inches or more) and flooding shifted to **Virginia** and the **Carolinas**. Prior to the arrival of heavy inland rainfall associated with the former **Midwestern** storm system, Tropical Storm Arthur grazed

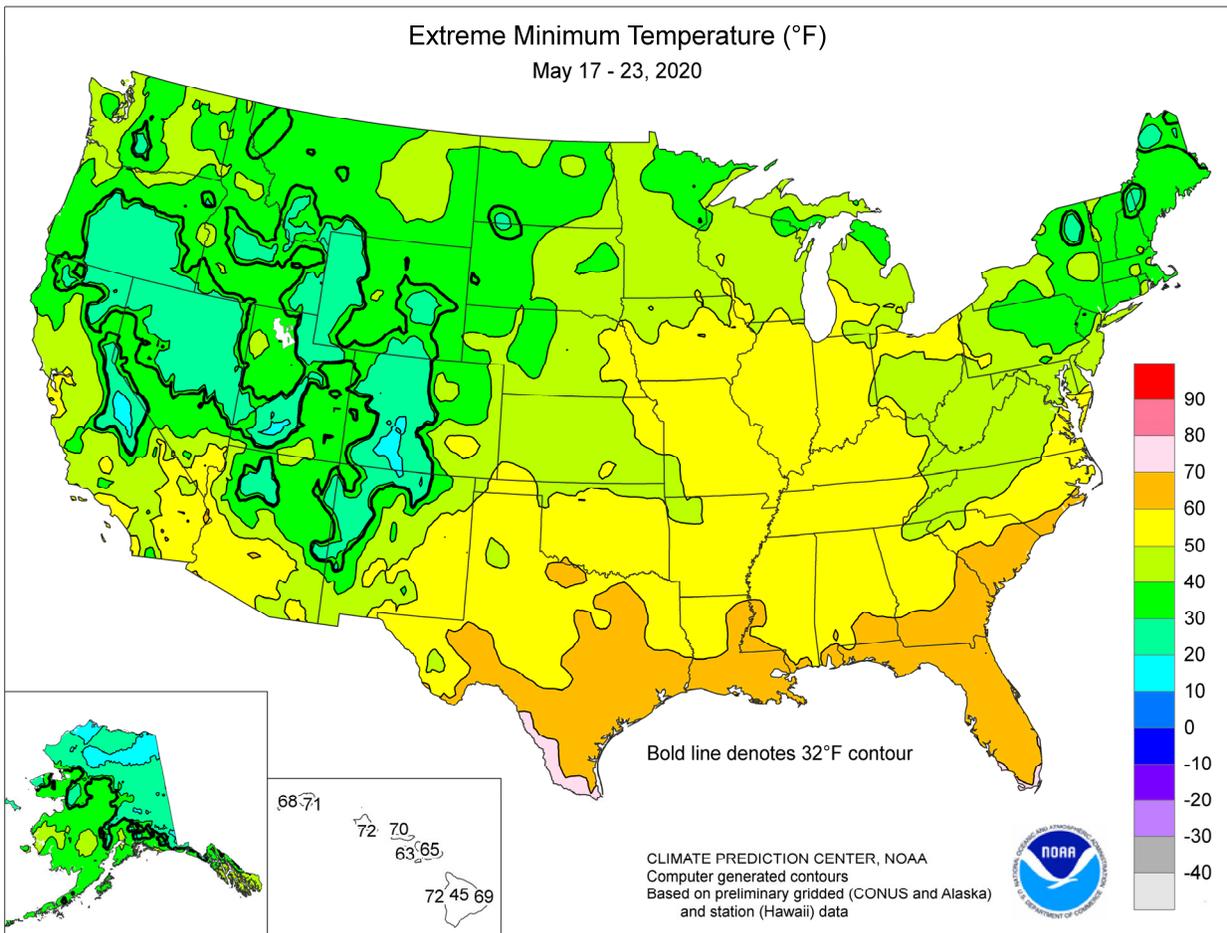
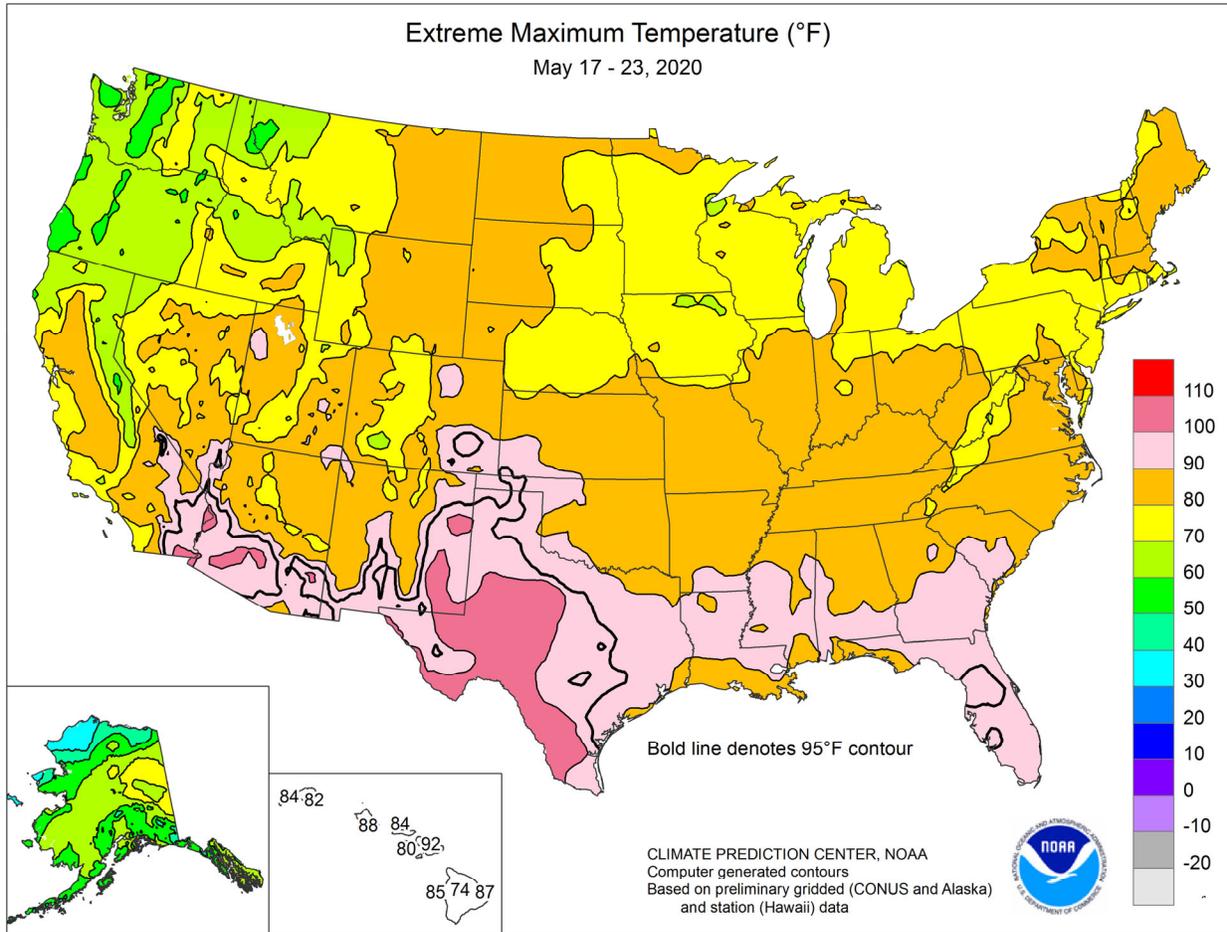
(Continued on page 5)

Contents

Crop Moisture Maps	2
May 19 Drought Monitor & U.S. Seasonal Drought Outlook	3
Extreme Maximum & Minimum Temperature Maps	4
Temperature Departure Map	5
Growing Degree Day Maps	6
Soil Temperature & Pan Evaporation Maps	8
Storm Systems Produce Heavy Rain, Spark Flooding	9
National Weather Data for Selected Cities	10
National Agricultural Summary	13
Crop Progress and Condition Tables	14
International Weather and Crop Summary	20
Bulletin Information & May 18 Satellite Image of Tropical Storm Arthur	34





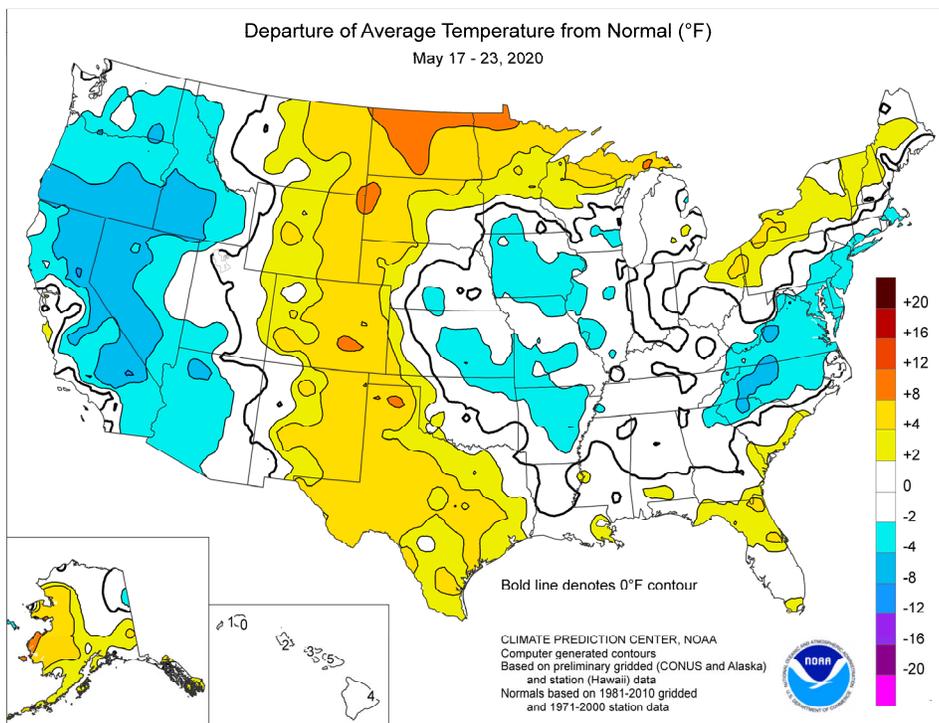


(Continued from front cover)

North Carolina's Outer Banks on May 18. Farther west, a separate storm system produced unusually heavy precipitation—including high-elevation snow—in the **Northwest**, although flooding was limited by underlying drought. Elsewhere, dry weather prevailed in several areas, including the **Southwest** and much of **New England**, while late-week showers and locally severe thunderstorms developed across the **Plains**. A ribbon of warmth between the two areas of cool, wet weather led to weekly temperatures averaging 5 to 10°F above normal on the **High Plains**—and across the **nation's northern tier** from **eastern Montana into the upper Great Lakes region**. Meanwhile, near- or below-normal temperatures dominated a region stretching from the **east-central Plains into the middle Atlantic States**. Chilly weather also covered the **Far West**.

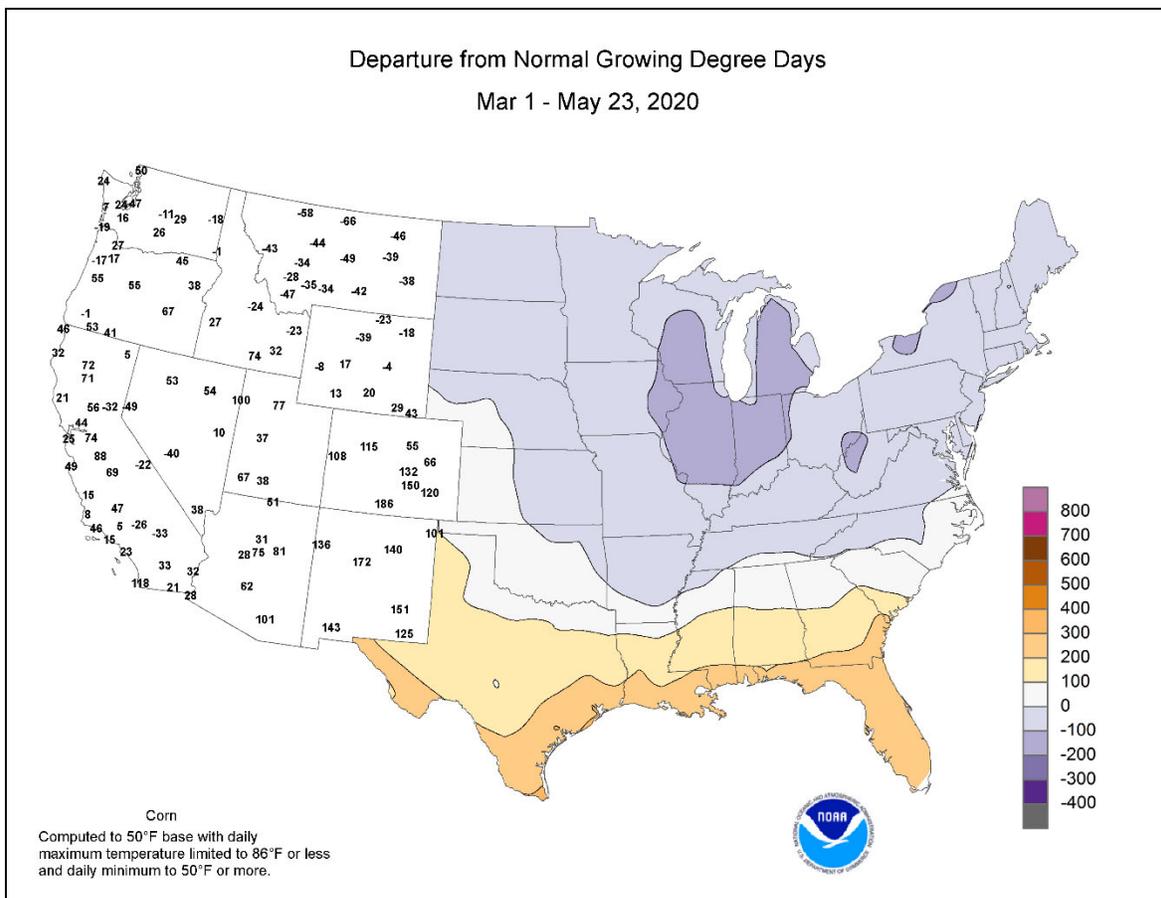
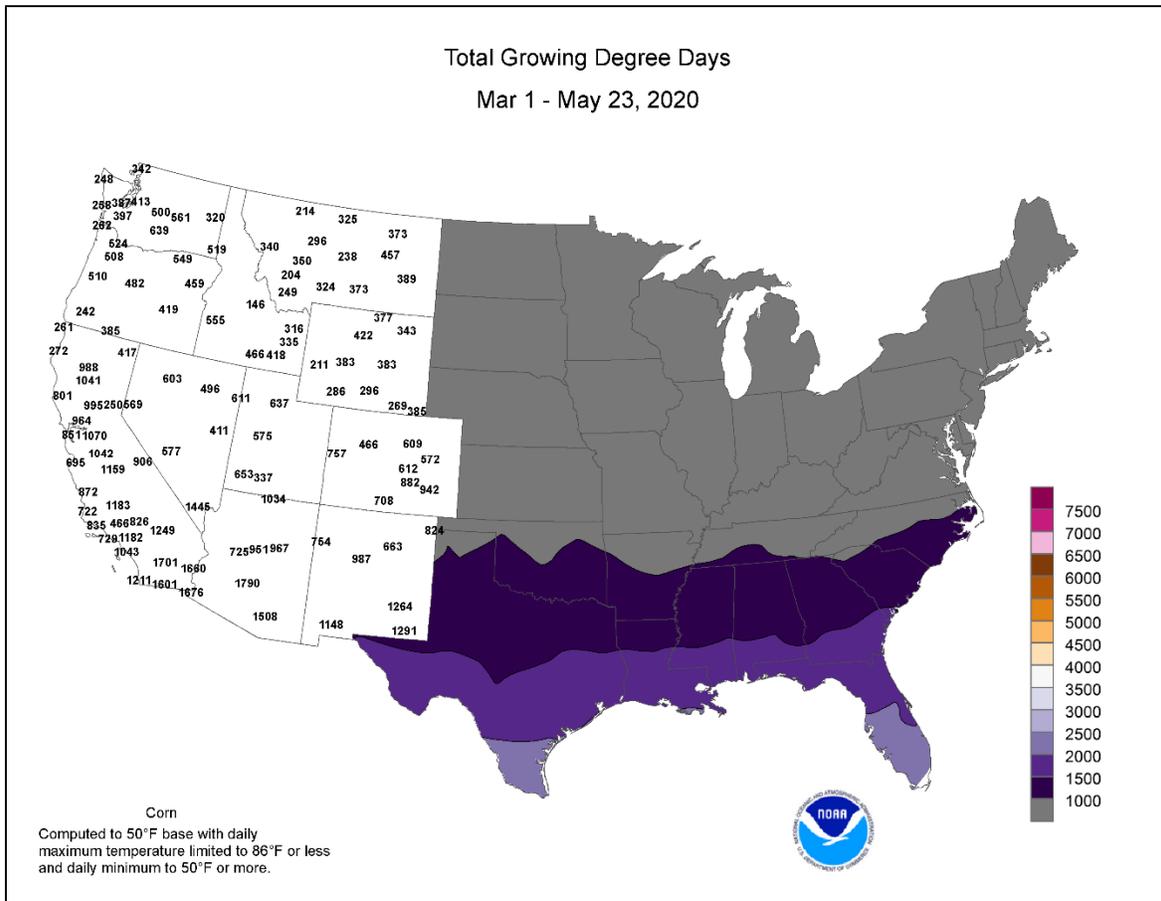
In the “ribbon of warmth,” early- to mid-week temperatures soared across the **south-central U.S.** On May 18-19 in **Texas**, **Abilene** (99 and 107°F) and **Midland** (105 and 104°F) posted consecutive daily-record highs. Similarly, a pair of daily records (108 and 104°F, respectively) occurred on May 19-20 in **San Angelo, TX**. Elsewhere in **Texas**, **Del Rio** also collected a triple-digit, daily-record high, with a reading of 108°F on May 19. Heat also briefly affected the **High Plains**. In **Colorado**, for example, record-setting highs for May 19 surged to 91°F in **Denver** and 89°F in **Colorado Springs**. On the same date, **Cheyenne, WY**, also logged a daily-record high (85°F). However, parts of the **Plains, Rockies, and Intermountain West** also experienced high winds and locally severe thunderstorms. On May 19, wind gusts in **Colorado** were clocked to 67 mph in **Durango** and 59 mph in **Aspen**. Meanwhile, cool conditions covered much of the **East and West**. On May 21, daily-record lows dipped to 34°F in **Price, UT**, and 39°F in **Islip, NY**. Other daily-record lows in **Utah** included 18°F (on May 20) at **Bryce Canyon Airport** and 36°F (on May 23) in **Ogden**. Elsewhere, chilly weather accompanied **Southeastern** rain and cloudiness; high temperatures on May 20 included 48°F in **Blacksburg, VA**, and 55°F in **Greenville-Spartanburg, SC**.

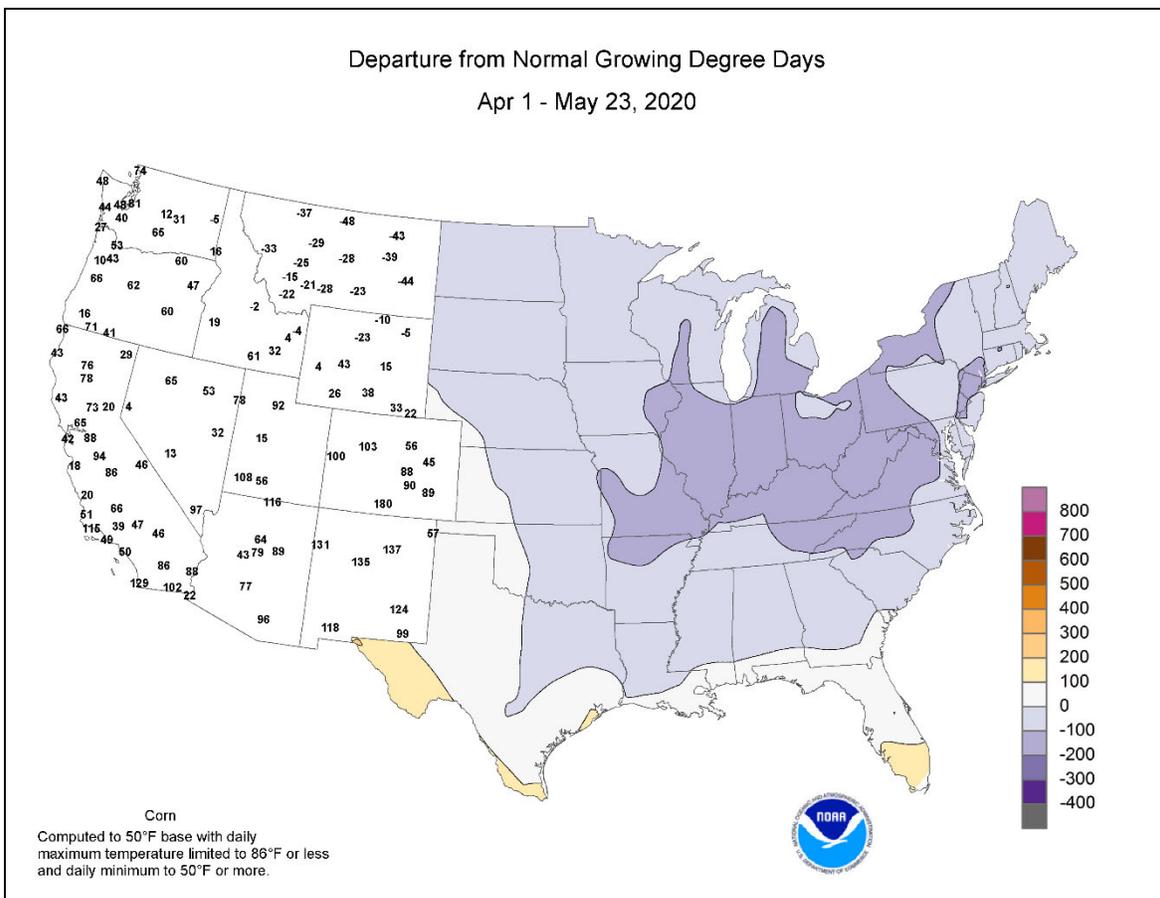
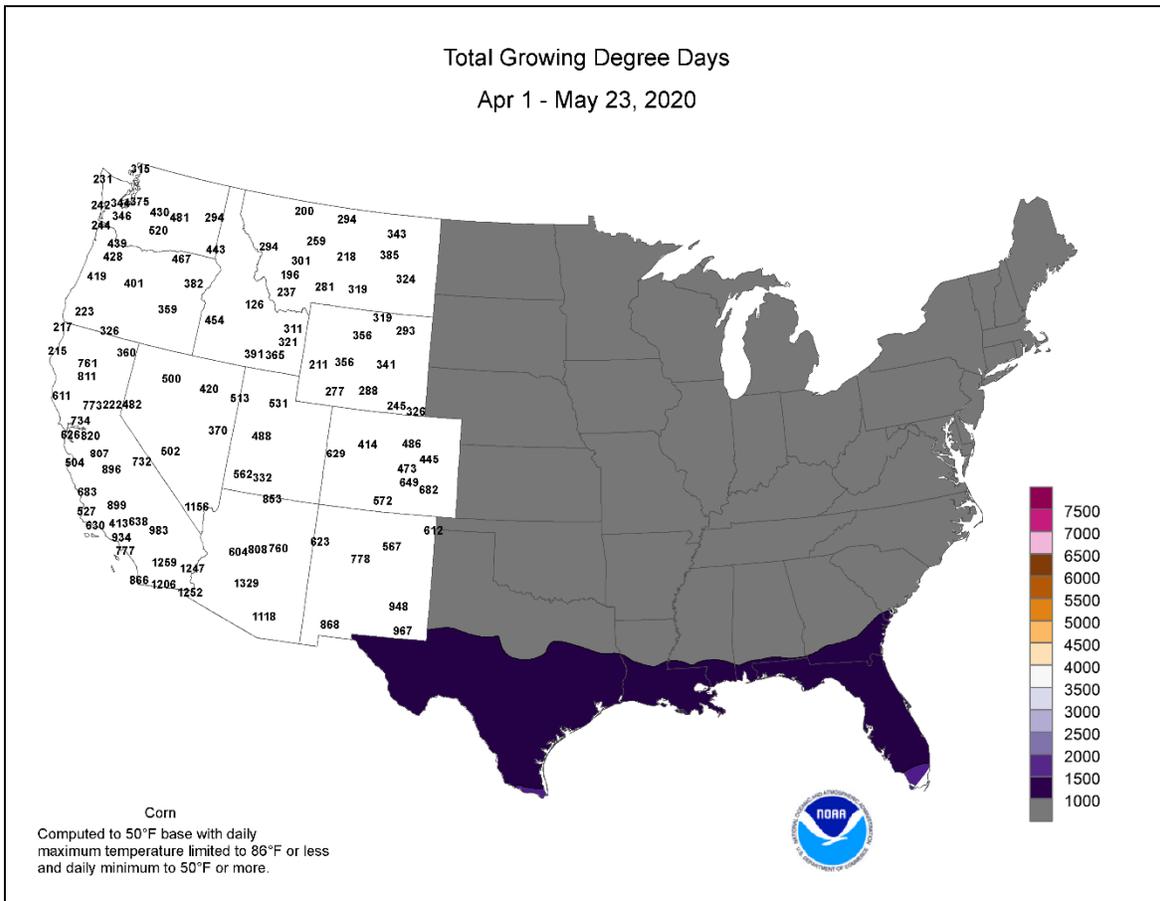
The week began amid a **Midwestern** deluge. On May 17, **Chicago, IL**, reported more than 3 inches of rain for the second time in 4 days. With totals of 3.57 and 3.11 inches, respectively, on May 14 and 17, **Chicago** achieved its wettest May on record (9.02 inches through the 23rd; previously, 8.25 inches in 2019). Elsewhere in the **Midwest**, daily-record totals on May 17 topped the 2-inch mark in **Muskegon, MI** (3.35 inches); **Milwaukee, WI** (2.99 inches); and **Minneapolis-St. Paul, MN** (2.47 inches). It was **Muskegon's** wettest day in May since 1904, when 4.10 inches fell on May 22. Heavy rain continued into May 18 across **Michigan**, where daily-record totals included 3.12 inches in **Saginaw**; 2.98 inches in **Houghton Lake**; and 2.57 inches in **Flint**. **Michigan's** rain contributed to record flooding along the **Rifle River** near **Sterling**, where the crest (9.65 feet above flood stage) occurred on May 19. The previous record near **Sterling**, 7.74 feet above flood stage, had been observed on March 28, 1950. The rain in **Michigan** also led to the failure of the **Edenville Dam** and subsequent overtopping and failure of the **Sanford Dam**. The dam failures resulted in a record crest (11.05 feet above flood stage on May 20) along the **Tittabawassee River** at **Midland, MI**; the previous record of 9.89 feet above flood stage had been established on September 13, 1986. Meanwhile in **Illinois**, the **Des Plaines River** achieved a record crest (3.26 feet above flood stage on May 18) near **Lemont**, topping the April 2013 high-water mark by 0.68



foot. Elsewhere along the **Des Plaines River**, the second-highest crest on record occurred on May 18 in **Riverside** (1.28 feet below the April 2013 level) and **Joliet** (0.25 foot below the July 1957 peak). High water also affected the **Illinois River basin**, where the water level in **Morris, IL**, surged 8.85 feet above flood stage (0.06 foot below the April 2013 record crest) on May 19. Later, downpours spread into the **middle Ohio Valley** and parts of the **Southeast**. Daily-record totals for May 18 exceeded 2 inches in **Columbus, OH** (2.33 inches), and **Augusta, GA** (2.29 inches). **Columbus and Cincinnati, OH**, reported consecutive daily-record amounts on May 18-19, totaling 4.35 and 3.29 inches, respectively. In **southwestern Virginia**, May 19-21 rainfall reached 8.32 inches in **Roanoke** and 5.26 inches in **Blacksburg**. **Roanoke's** wettest May on record occurred in 1940, when 10.14 inches fell; this year's May 1-23 total reached 9.82 inches. Farther west, heavy showers also affected the **Northwest**. In **Washington**, the 20th was the second-wettest day during May in **Walla Walla** (1.66 inches), the fourth wettest in **Pullman** (1.25 inches), and the fifth wettest in **Spokane** (1.40 inches). With 1.11 inches on the 20th, **Pendleton, OR**, noted its third-wettest May day behind 1.64 inches on May 29, 1906, and 1.27 inches on May 19, 1994. Later, **Alta, UT**, measured 6.8 inches of snow during a 24-hour period on May 22-23. Finally, locally heavy showers across the **nation's mid-section** resulted in daily-record totals for May 22 in locations such as **Springfield, MO** (4.29 inches), and **Grand Island, NE** (1.95 inches).

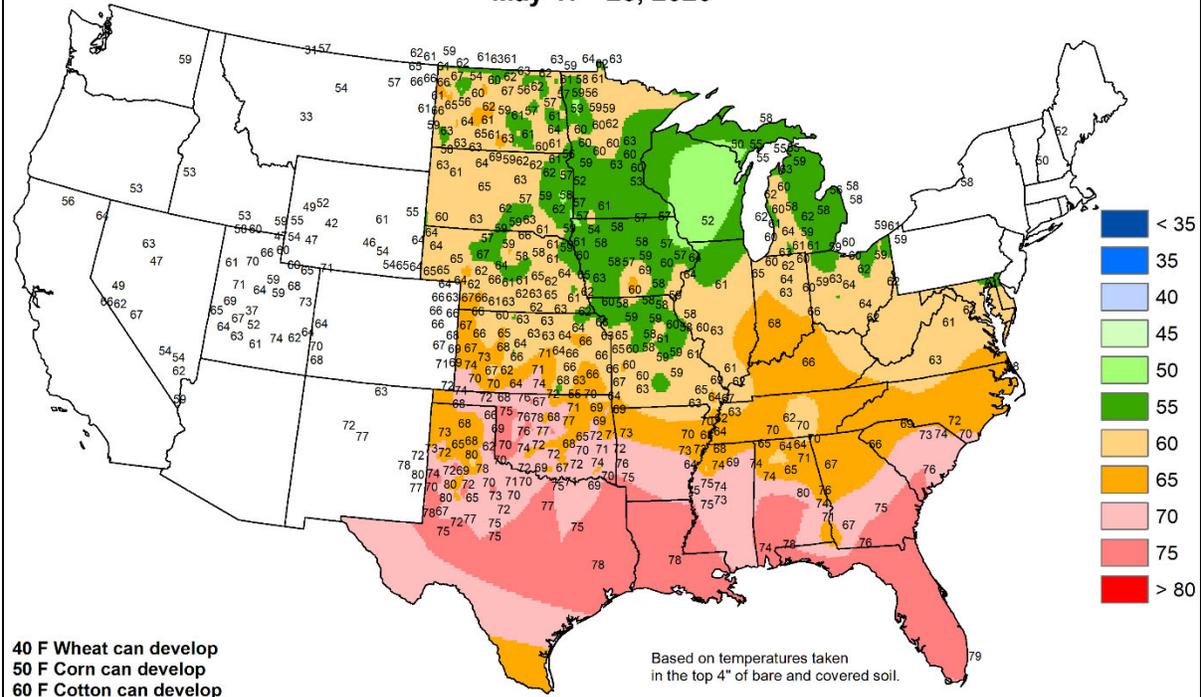
Near- or above-normal temperatures in **Alaska** accompanied patchy precipitation. The warmest weather, relative to normal, covered **western Alaska**, where weekly temperatures averaged more than 5°F above normal. On May 18-19, **Saint Paul Island** collected consecutive daily-record highs (49 and 48°F, respectively). Meanwhile, weekly rainfall in **King Salmon** totaled 0.89 inch, aided by a daily-record amount (0.70 inch). Completely dry weather prevailed, however, in **Fairbanks**, where the month-to-date total through May 23 stood at 0.01 inch (2 percent of normal). Farther south, rainfall increased in coverage and intensity across **Hawaii's windward slopes**, but many other areas remained dry. Despite a weekly rainfall of 1.73 inches in **Hilo**, on the **Big Island**, the month-to-date sum through May 23 totaled just 2.96 inches (46 percent of normal). Prior to the increase in rainfall, **Hilo** notched a daily-record high of 88°F on May 17. No measurable rain fell during the week in **Kahului, Maui**, while **Honolulu, Oahu**, netted 0.03 inch. **Honolulu's** May 1-23 rainfall totaled 0.22 inch (44 percent of normal).





Average Soil Temperature (Deg. F)

May 17 - 23, 2020

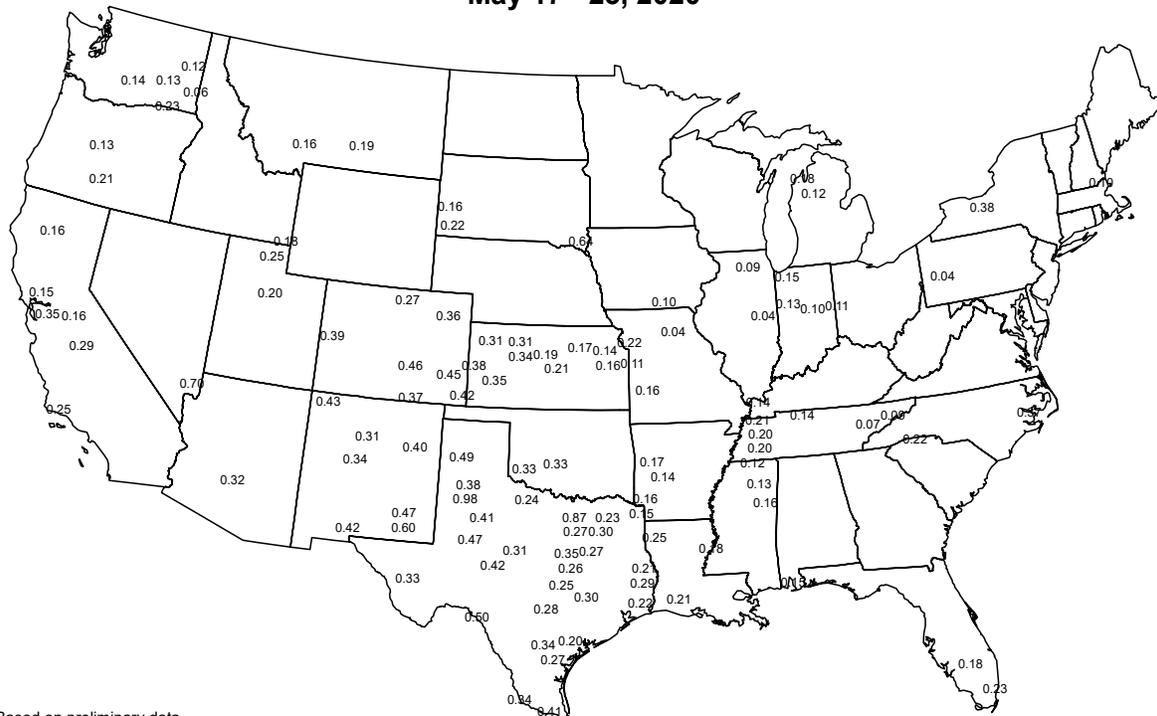


Data provided by the Climate Prediction Center, High Plains Regional Climate Center, Nebraska Mesonet at Univ of Nebraska, CoAgMet at Colorado State Univ, Kansas Mesonet at Kansas State Univ, North Dakota Agricultural Weather Network at North Dakota State Univ, Wyoming State Climate Office at the Univ 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.



Average Pan Evaporation (inches/day)

May 17 - 23, 2020



Based on preliminary data

USDA Agricultural Weather Assessments

Data obtained from the NWS Cooperative Observer Network.

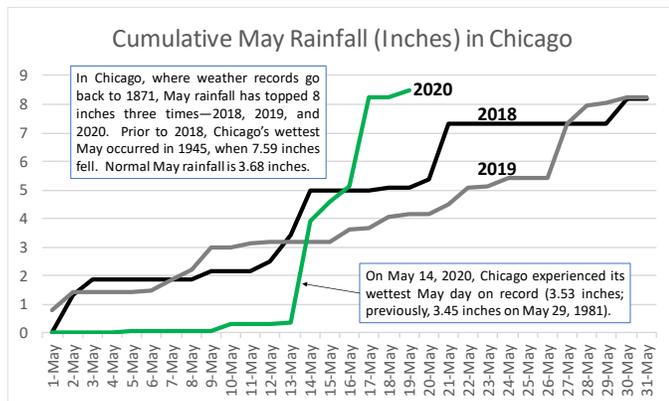
Storm Systems Produce Heavy Rain, Spark Flooding

Compiled by USDA/OCE/WAOB from reports provided by the National Weather Service and the U.S. Geological Survey

A pair of slow-moving storms, along with the early appearance of an Atlantic tropical cyclone, led to pockets of heavy rain during the week of May 17-23. One storm system spent several days spinning over the Midwest before drifting southeastward toward the southern Appalachians, while another crossed the Northwest before slowly lifting northward into western Canada. Around the same time, Tropical Storm Arthur formed on May 16 east of Florida, about 36 hours before brushing North Carolina’s Outer Banks.

The week began amid heavy Midwestern rains, which pushed Chicago, IL, to its wettest May on record (figure 1). Subsequent runoff resulted in urban flooding in Chicago and near-record to record-setting crests along the Des Plaines River and the upper reaches of the Illinois River.

Figure 1. Cumulative May rainfall in Chicago for 2018, 2019, and 2020.



Meanwhile in Michigan, torrential rain triggered the failure of the Edenville Dam, which released water that caused the overtopping and eventual failure of the Sanford Dam. Downstream from the two dams, a record crest was observed on the Tittabawassee River in Midland, MI (figure 2).

Farther east, Tropical Storm Arthur grazed North Carolina’s Outer Banks on May 18 (figure 3), producing gusty winds and heavy rain along the immediate middle Atlantic Coast after sparking locally heavy showers across southern Florida. Arthur’s formation marked the sixth consecutive year (2015-2020) that at least one named storm has formed in the Atlantic Basin prior to the official June 1 start of the hurricane season.

However, the bigger weather-maker for the Southeast became the Midwestern storm, which dumped flooding rains in parts of southwestern Virginia and the Carolinas as it drifted toward the southern Appalachians. The storm system

contributed to the wettest May on record in Roanoke, VA, where a remarkable 8.32 inches of rain fell from May 19-21.

Figure 2. Graph of record flooding on the Tittabawassee River at Midland, Michigan, on May 20, 2020.

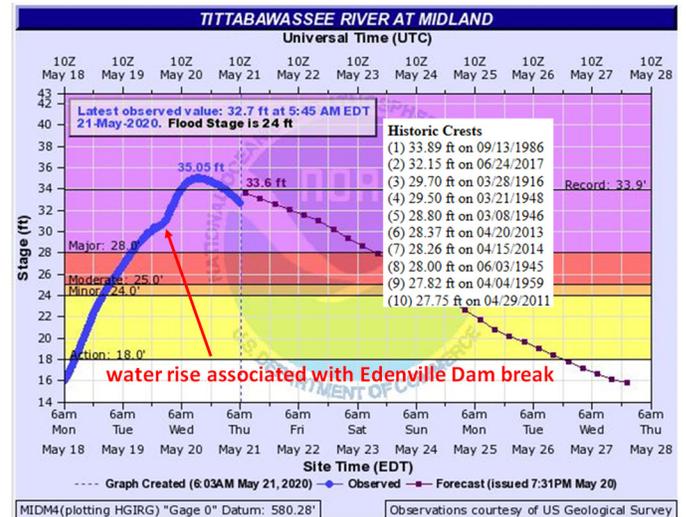
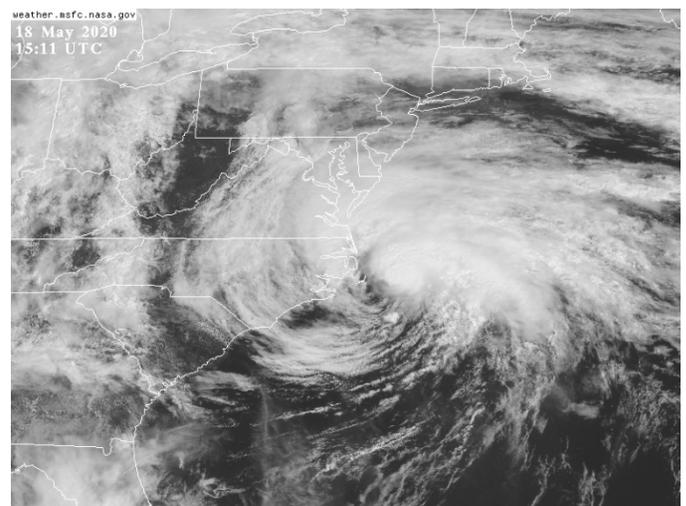


Figure 3. GOES-East Visible Satellite image from May 18, 2020, at 11:11 am EDT.



Finally, storminess in the Northwest was nearly overshadowed by the active weather in the Midwest and Southeast. The 20th, however, was one of the five wettest days on record during May in parts of Oregon and Washington. Despite the heavy Northwestern showers, flooding in that region was limited by the existence of previously dry soils and varying degrees of dryness and drought.

National Weather Data for Selected Cities

Weather Data for the Week Ending May 23, 2020

Data Provided by Climate Prediction Center

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN. SINCE 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	TEMP. °F		PRECIP	
																		01 INCH OR MORE	.50 INCH OR MORE		
AL BIRMINGHAM	82	62	88	55	72	0	4.93	3.78	3.12	22.69	169	43.79	190	91	54	0	0	4	3		
AL HUNTSVILLE	80	59	86	54	69	-2	2.30	1.19	1.54	20.94	155	39.31	168	94	57	0	0	4	1		
AL MOBILE	85	65	89	59	75	0	1.98	0.80	1.45	6.65	45	16.33	63	98	57	0	0	3	1		
AL MONTGOMERY	87	63	91	60	75	1	2.93	2.13	1.18	14.22	112	29.73	130	91	52	1	0	5	2		
AK ANCHORAGE	58	44	66	42	51	2	0.14	-0.03	0.11	2.41	151	4.07	131	88	52	0	0	3	0		
AK BARROW	28	22	34	14	25	2	0.00	-0.05	0.00	1.75	400	2.02	265	91	82	0	7	0	0		
AK FAIRBANKS	66	40	73	33	53	2	0.00	-0.14	0.00	1.28	120	1.28	60	57	22	0	0	0	0		
AK JUNEAU	60	43	70	37	52	2	0.72	-0.08	0.65	8.97	97	21.94	116	90	51	0	0	3	1		
AK KODIAK	53	43	60	38	48	3	1.10	-0.19	0.59	7.13	46	12.28	40	91	67	0	0	5	1		
AK NOME	55	41	61	37	48	9	0.08	-0.11	0.07	4.70	224	6.02	148	81	48	0	0	2	0		
AZ PHOENIX	95	69	102	63	82	-1	0.00	-0.04	0.00	2.06	146	3.61	108	25	8	6	0	0	0		
AZ PRESCOTT	74	45	79	36	60	-3	0.00	-0.11	0.00	4.03	205	5.17	114	49	12	0	0	0	0		
AZ TUCSON	93	60	99	53	76	-1	0.00	-0.07	0.00	0.79	61	2.15	67	25	6	5	0	0	0		
AR FORT SMITH	81	59	86	52	70	-1	0.50	-0.78	0.34	16.30	132	24.96	139	93	51	0	0	2	0		
AR LITTLE ROCK	79	60	84	56	69	-3	3.41	2.39	1.30	7.80	144	7.80	144	93	54	0	0	4	3		
CA BAKERSFIELD	81	57	87	54	69	-2	0.17	0.11	0.17	4.46	203	4.74	100	65	24	0	0	1	0		
CA FRESNO	82	51	91	15	66	-5	0.12	0.03	0.12	4.00	118	4.66	60	74	25	1	1	1	0		
CA LOS ANGELES	71	58	74	56	64	1	0.12	0.07	0.12	6.98	252	7.37	83	85	52	0	0	1	0		
CA REDDING	75	52	85	46	64	-5	1.28	0.86	1.21	10.57	128	13.48	67	81	35	0	0	2	1		
CA SAN DIEGO	72	63	75	58	67	3	0.00	-0.02	0.00	5.98	219	6.86	97	74	52	0	0	0	0		
CA SAN FRANCISCO	68	54	73	50	61	1	0.21	0.10	0.14	3.00	49	4.22	29	87	48	0	0	2	0		
CA STOCKTON	80	55	87	50	67	0	0.34	0.21	0.20	3.16	79	4.12	42	80	28	0	0	2	0		
CO ALAMOSA	80	36	87	27	58	6	0.00	-0.12	0.00	0.46	29	0.74	33	57	6	0	2	0	0		
CO CO SPRINGS	83	48	89	43	65	8	0.01	-0.46	0.01	1.97	51	2.69	58	80	12	0	0	1	0		
CO DENVER INTL	83	48	92	41	66	7	0.00	-0.48	0.00	2.43	57	3.53	68	79	16	2	0	0	0		
CO GRAND JUNCTION	82	51	91	39	66	4	0.00	-0.20	0.00	1.83	70	2.42	64	30	8	1	0	0	0		
CO PUEBLO	89	53	94	50	71	9	0.00	-0.33	0.00	0.63	17	1.45	34	76	12	3	0	0	0		
CT BRIDGEPORT	65	50	76	41	58	-3	0.04	-0.83	0.04	10.39	95	15.73	93	84	48	0	0	1	0		
CT HARTFORD	73	45	82	37	59	-1	0.00	-1.05	0.00	11.56	111	16.69	100	85	31	0	0	0	0		
DC WASHINGTON	72	57	83	50	64	-3	0.89	-0.05	0.62	11.22	119	17.37	116	86	51	0	0	2	1		
DE WILMINGTON	70	52	79	45	61	-3	1.62	0.69	0.98	10.15	98	16.98	105	88	48	0	0	2	2		
FL DAYTONA BEACH	90	68	93	65	79	3	0.00	-0.74	0.00	4.04	48	6.77	48	100	46	3	0	0	0		
FL JACKSONVILLE	91	68	95	66	80	4	0.13	-0.43	0.12	8.05	98	12.52	84	89	45	5	0	2	0		
FL KEY WEST	88	79	90	74	83	2	0.68	-0.09	0.37	3.50	58	5.50	57	84	64	1	0	3	0		
FL MIAMI	89	74	94	70	81	1	2.18	0.85	1.48	7.10	74	12.07	89	94	60	2	0	5	1		
FL ORLANDO	93	69	95	66	81	3	0.23	-0.61	0.21	2.85	33	5.07	38	92	36	6	0	2	0		
FL PENSACOLA	85	69	91	65	77	1	1.39	0.43	1.05	6.00	45	16.21	70	93	60	1	0	4	1		
FL TALLAHASSEE	89	69	93	67	79	3	2.01	1.22	1.96	8.09	72	14.59	70	93	45	5	0	3	1		
FL TAMPA	88	73	94	70	80	1	0.43	-0.07	0.43	6.14	96	9.74	84	83	45	3	0	1	0		
FL WEST PALM BEACH	89	73	93	71	81	2	1.87	0.72	0.74	5.50	49	9.97	58	91	59	3	0	5	2		
GA ATHENS	80	59	91	54	70	-2	2.70	2.06	1.12	12.96	132	30.80	166	90	56	1	0	3	3		
GA ATLANTA	79	62	86	54	70	-1	1.93	1.13	1.04	14.91	136	33.63	168	92	56	0	0	5	1		
GA AUGUSTA	86	62	93	59	74	2	3.54	2.96	2.31	14.52	165	26.32	157	96	52	3	0	4	2		
GA COLUMBUS	83	63	89	57	73	0	0.64	-0.02	0.29	15.94	135	33.39	158	92	54	0	0	3	0		
GA MACON	85	62	92	57	73	0	1.02	0.42	0.67	19.00	202	33.24	183	94	52	3	0	5	1		
GA SAVANNAH	88	68	94	66	78	4	1.59	0.93	1.27	15.61	178	21.96	143	97	53	3	0	2	1		
HI HILO	85	71	87	69	78	4	1.73	0.06	0.59	21.42	68	30.49	60	86	54	0	0	5	2		
HI HONOLULU	86	74	88	72	80	2	0.04	-0.11	0.01	6.68	211	8.70	116	79	45	0	0	3	0		
HI KAHULUI	89	72	92	65	81	5	0.00	-0.13	0.00	4.77	102	8.13	85	80	46	2	0	0	0		
HI LIHUE	80	73	82	71	76	0	0.30	-0.15	0.15	10.65	125	13.07	84	92	70	0	0	4	0		
ID BOISE	61	46	79	39	54	-6	1.26	0.93	0.87	4.07	110	7.59	127	92	50	0	0	6	1		
ID LEWISTON	64	51	78	45	58	-3	1.31	0.94	0.94	3.65	100	7.61	136	86	51	0	0	5	1		
ID POCATELLO	65	40	83	34	53	-2	1.22	0.88	0.44	4.48	128	6.30	113	84	39	0	0	4	0		
IL CHICAGO/O_HARE	69	54	87	52	62	1	3.93	3.07	3.12	16.49	192	19.99	164	89	65	0	0	4	2		
IL MOLINE	67	55	81	53	61	-2	2.00	0.98	1.21	9.77	101	12.72	99	92	67	0	0	3	2		
IL PEORIA	68	56	82	53	62	-2	1.22	0.19	0.97	11.39	117	16.67	125	92	67	0	0	3	1		
IL ROCKFORD	69	56	80	53	62	1	1.42	0.44	1.30	10.97	129	14.17	124	88	65	0	0	3	1		
IL SPRINGFIELD	70	57	84	54	63	-2	1.88	0.91	1.74	13.67	148	20.94	162	97	73	0	0	5	1		
IN EVANSVILLE	74	59	87	54	67	0	1.67	0.49	1.53	16.85	133	26.28	138	90	57	0	0	3	1		
IN FORT WAYNE	67	53	79	50	60	-2	2.27	1.22	1.29	8.98	98	15.22	112	95	70	0	0	5	2		
IN INDIANAPOLIS	69	57	79	54	63	-1	4.37	3.19	1.67	12.56	112	21.83	135	95	69	0	0	4	3		
IN SOUTH BEND	69	56	80	53	62	2	1.96	1.08	1.00	10.40	124	16.53	130	94	62	0	0	5	2		
IA BURLINGTON	67	55	79	52	61	-4	1.84	0.72	1.71	7.94	77	9.80	74	96	70	0	0	6	1		
IA CEDAR RAPIDS	64	53	72	50	59	-3	0.85	-0.12	0.57	6.07	74	7.13	68	100	76	0	0	3	1		
IA DES MOINES	66	55	77	51	60	-3	1.09	0.02	0.74	8.10	83	9.96	82	96	68	0	0	4	1		
IA DUBUQUE	63	53	72	50	58	-2	1.28	0.31	0.69	8.53	93	11.26	95	100	80	0	0	3	2		
IA SIOUX CITY	66	56	74	51	61	-1	0.49	-0.35	0.24	5.19	67	6.26	69	92	68	0	0	3	0		
IA WATERLOO	66	56	76	52	61	-1	1.80	0.75	1.45	8.49	93	10.31	93	87	59	0	0	4	1		
KS CONCORDIA	74	54	83	46	64	-1	0.61	-0.40	0.51	4.36	58	5.79	64	89	55	0	0	2	1		
KS DODGE CITY	81	52	88	46	66	1	0.81	0.13	0.61	3.70	68	5.72	85	90	42	0	0	2	1		
KS GOODLAND	77	49	80	40	63	2	0.00	-0.70	0.00	3.63	77	4.35	76	92	44	0	0	0	0		
KS TOPEKA	74	57	84	52	66	-1	0.63	-0.52	0.63	9.86	102	12.40	104	86	54	0	0	1	1		
KS WICHITA	77	55	86	49	66	-1	1.36	0.28	1.23	9.93	116	14.35	134	88	50	0	0	2	1		
KY JACKSON	74	58	86	51	66	1	2.36	1.23	1.18	18.89	171	29.35	162	99	70	0	0	5	2		
KY LEXINGTON	73	57	81	52	65	0	3.42	2.24	2.23	15.02	130	23.70	131	97	67	0	0	3	2		

Based on 1981-2010 normals

*** Not Available

Weather Data for the Week Ending May 23, 2020

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN. SINCE SEP 1	PCT. NORMAL SINCE SEP 1	TOTAL, IN. SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	PRECIP	
																		01 INCH OR MORE	50 INCH OR MORE
LA LOUISVILLE	76	60	90	55	68	0	2.21	1.07	1.62	14.46	118	22.11	118	94	60	1	0	3	2
LA BATON ROUGE	87	68	91	65	77	1	0.18	-0.89	0.13	13.28	106	24.68	106	96	51	4	0	3	0
LA LAKE CHARLES	86	69	88	64	77	1	0.05	-1.19	0.05	8.73	82	17.57	90	100	59	0	0	1	0
LA NEW ORLEANS	89	73	92	69	81	3	0.33	-0.69	0.24	13.19	105	21.61	93	87	50	4	0	2	0
LA SHREVEPORT	84	66	90	60	75	1	2.12	1.03	1.35	18.54	154	32.96	155	94	54	1	0	3	2
ME CARIBOU	70	39	83	34	55	2	0.00	-0.80	0.00	7.65	101	12.98	103	68	19	0	0	0	0
ME PORTLAND	68	44	85	40	56	1	0.00	-0.90	0.00	10.91	94	17.57	96	74	32	0	0	0	0
MD BALTIMORE	71	55	83	47	63	-1	0.59	-0.36	0.39	10.56	106	16.78	105	83	49	0	0	2	0
MA BOSTON	66	47	82	45	57	-2	0.00	-0.80	0.00	10.11	96	14.87	86	80	45	0	0	0	0
MA WORCESTER	68	46	79	42	57	-1	0.00	-0.99	0.00	11.97	105	17.30	95	78	32	0	0	0	0
MI ALPENA	67	42	76	35	54	1	1.24	0.61	0.72	7.42	120	10.42	113	93	43	0	0	2	2
MI GRAND RAPIDS	67	53	79	50	60	0	2.38	1.42	1.76	11.21	129	15.52	123	95	64	0	0	4	2
MI HOUGHTON LAKE	65	47	77	43	56	1	3.50	2.93	3.01	9.80	157	12.23	135	87	51	0	0	2	1
MI LANSING	67	53	76	49	60	1	2.71	1.93	1.37	10.52	140	15.76	147	91	63	0	0	4	2
MI MUSKOGON	70	55	82	53	62	4	3.82	3.04	3.61	14.73	195	18.43	160	85	54	0	0	2	1
MI TRAVERSE CITY	70	51	77	48	60	5	2.30	1.83	1.32	7.53	164	9.19	132	85	50	0	0	4	2
MN DULUTH	67	47	73	43	57	5	0.01	-0.72	0.01	3.69	59	5.45	67	75	44	0	0	1	0
MN INT_L FALLS	76	44	84	33	60	7	0.00	-0.67	0.00	2.19	48	3.74	65	87	34	0	0	0	0
MN MINNEAPOLIS	67	55	77	49	61	1	2.74	1.99	2.49	7.33	104	8.95	101	86	60	0	0	2	1
MN ROCHESTER	64	52	74	47	58	-1	2.82	2.02	2.21	8.18	105	10.33	108	92	69	0	0	3	2
MS ST. CLOUD	69	53	77	46	61	3	0.57	-0.08	0.49	4.24	67	5.50	72	84	51	0	0	2	0
MS JACKSON	86	64	92	58	75	1	0.88	-0.12	0.60	12.65	95	35.95	155	91	49	1	0	4	1
MS MERIDIAN	86	63	92	57	74	3	0.76	-0.29	0.41	15.69	115	35.02	142	91	51	2	0	2	0
MS TUPELO	82	62	90	54	72	0	1.88	0.65	0.96	14.72	106	34.06	144	90	51	1	0	4	2
MO COLUMBIA	71	58	85	55	64	-1	0.09	-0.97	0.03	13.25	119	23.82	155	95	64	0	0	3	0
MO KANSAS CITY	71	57	84	54	64	-1	0.30	-0.91	0.30	9.39	94	12.81	101	92	61	0	0	1	0
MO SAINT LOUIS	73	59	89	57	66	-2	1.56	0.48	1.46	13.08	126	22.36	148	88	60	0	0	3	1
MO SPRINGFIELD	72	56	83	51	64	-2	4.38	3.28	4.29	22.04	185	30.95	182	95	63	0	0	3	1
MT BILLINGS	70	46	79	40	58	1	0.34	-0.17	0.31	2.24	51	3.13	58	83	38	0	0	3	0
MT BUTTE	60	39	71	29	49	1	0.62	0.17	0.23	2.53	76	3.11	72	85	34	0	1	4	0
MT CUT BANK	60	42	69	37	51	0	1.63	1.13	0.81	2.36	91	2.57	84	83	44	0	0	4	2
MT GLASGOW	75	51	84	47	63	7	1.70	1.24	1.70	3.52	135	4.35	130	75	34	0	0	1	1
MT GREAT FALLS	65	44	76	32	54	1	1.27	0.65	0.54	5.01	126	5.51	110	81	39	0	1	4	1
MT HAVRE	70	46	80	36	58	2	1.00	0.57	0.42	2.29	88	3.02	91	89	41	0	0	4	0
MT MISSOULA	62	44	74	37	53	-2	1.49	0.98	0.87	4.70	131	6.64	127	88	47	0	0	5	1
NE GRAND ISLAND	71	52	81	46	62	-1	4.67	3.61	2.70	9.08	120	10.40	118	90	57	0	0	2	2
NE LINCOLN	71	56	79	52	64	0	2.27	1.29	2.02	5.93	75	7.41	79	87	58	0	0	2	1
NE NORFOLK	69	56	76	51	62	0	1.70	0.77	1.42	6.78	93	7.93	91	89	62	0	0	3	1
NE NORTH PLATTE	73	47	79	37	60	1	0.50	-0.26	0.26	5.41	95	6.02	91	92	54	0	0	2	0
NE OMAHA	68	56	81	52	62	-1	0.27	-0.87	0.27	3.96	46	5.46	54	92	64	0	0	1	0
NE SCOTTSBLUFF	81	48	88	43	64	6	0.58	0.00	0.44	4.78	105	5.14	91	93	33	0	0	2	0
NE VALENTINE	75	50	82	38	63	4	0.04	-0.66	0.04	3.76	70	4.39	71	89	46	0	0	1	0
NV ELY	65	37	78	26	51	-1	0.14	-0.13	0.12	3.39	121	3.97	92	73	19	0	2	2	0
NV LAS VEGAS	84	65	94	57	75	-4	0.00	-0.04	0.00	2.04	271	2.35	111	32	10	1	0	0	0
NV RENO	64	44	73	36	54	-6	0.04	-0.07	0.03	1.32	80	1.45	38	63	21	0	0	2	0
NV WINNEMUCCA	65	40	81	28	53	-4	1.13	0.87	0.59	2.15	81	3.24	76	78	25	0	1	4	1
NH CONCORD	75	40	87	35	57	0	0.00	-0.83	0.00	8.41	90	12.59	86	84	24	0	0	0	0
NJ NEWARK	69	52	77	47	61	-3	0.83	-0.14	0.80	9.43	83	13.65	76	80	42	0	0	2	1
NM ALBUQUERQUE	85	54	92	44	69	3	0.00	-0.11	0.00	0.83	53	1.75	70	28	8	2	0	0	0
NY ALBANY	76	52	85	45	64	5	0.20	-0.65	0.20	7.08	79	11.83	85	72	28	0	0	1	0
NY BINGHAMTON	68	48	73	41	58	1	0.74	-0.11	0.46	9.42	105	21.99	159	84	43	0	0	4	0
NY BUFFALO	73	53	79	48	63	5	1.86	1.04	0.88	9.24	110	14.51	103	83	45	0	0	4	1
NY ROCHESTER	69	50	76	44	60	1	0.54	-0.15	0.29	6.11	83	11.05	94	85	42	0	0	4	0
NY SYRACUSE	75	49	83	42	62	3	0.78	0.01	0.33	8.98	106	14.51	110	87	37	0	0	4	0
NC ASHEVILLE	70	54	83	48	62	-2	5.15	4.32	2.18	15.77	161	28.14	162	98	68	0	0	5	3
NC CHARLOTTE	75	58	86	52	67	-2	4.01	3.33	1.26	15.21	164	25.89	160	91	66	0	0	5	3
NC GREENSBORO	70	56	83	47	63	-5	6.74	6.00	2.36	13.43	139	25.78	164	99	75	0	0	5	3
NC HATTERAS	77	66	84	62	72	3	4.91	4.13	1.28	17.93	162	27.06	133	93	75	0	0	7	4
NC RALEIGH	74	59	86	53	66	-3	3.18	2.42	1.60	9.67	103	19.77	122	97	74	0	0	5	3
NC WILMINGTON	80	66	89	63	73	1	2.87	1.77	0.93	13.90	136	23.11	130	99	69	0	0	7	3
ND BISMARCK	79	51	85	36	65	8	0.00	-0.56	0.00	1.11	29	1.66	34	90	34	0	0	0	0
ND DICKINSON	77	47	83	33	62	8	0.59	0.06	0.59	1.53	39	1.82	39	90	33	0	0	1	1
ND FARGO	76	53	79	43	65	6	0.00	-0.67	0.00	2.65	56	4.02	66	83	41	0	0	0	0
ND GRAND FORKS	76	50	79	37	63	7	0.00	-0.65	0.00	2.20	55	3.17	62	85	40	0	0	0	0
ND JAMESTOWN	74	51	79	37	62	6	0.04	-0.61	0.04	2.18	54	2.41	49	95	49	0	0	1	0
OH AKRON-CANTON	73	56	80	53	65	5	1.69	0.68	0.78	11.99	124	18.00	123	83	53	0	0	4	1
OH CINCINNATI	70	58	83	51	64	-1	3.89	2.80	1.89	14.81	128	22.58	130	92	66	0	0	6	2
OH CLEVELAND	71	55	75	53	63	2	2.41	1.56	1.39	15.79	174	21.16	149	89	56	0	0	4	1
OH COLUMBUS	70	55	82	47	62	-1	4.93	3.95	3.20	18.71	199	25.80	178	92	63	0	0	5	2
OH DAYTON	70	56	82	49	63	1	3.57	2.52	1.78	13.63	125	20.25	127	93	66	0	0	5	2
OH MANSFIELD	71	55	81	50	63	3	1.90	0.83	1.18	11.38	105	17.90	111	94	58	0	0	6	1
OH TOLEDO	66	54	77	51	60	-1	2.37	1.54	1.71	9.17	111	14.03	113	90	61	0	0	6	1
OH YOUNGSTOWN	73	55	80	50	64	5	0.31	-0.56	0.25	10.35	115	16.74	121	78	48	0	0	3	0
OK OKLAHOMA CITY	82	60	87	56	71	0	0.87	-0.22	0.87	9.91	104	13.76	109	92	51	0	0	1	1
OK TULSA	78	58	86	52	68	-2	0.31	-1.09	0.31	13.62	118	20.01	132	93	53	0	0	1	0

Based on 1981-2010 normals

*** Not Available

Weather Data for the Week Ending May 23, 2020

STATES AND STATIONS	TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS					
	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN. SINCE SEP 1	PCT. NORMAL SINCE SEP 1	TOTAL IN. SINCE JAN 01	PCT. NORMAL SINCE JAN 01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	TEMP. °F		PRECIP	
																		01 INCH OR MORE	50 INCH OR MORE		
OR ASTORIA	59	49	65	46	54	0	0.48	-0.19	0.19	10.49	69	35.95	109	96	67	0	0	5	0		
OR BURNS	61	35	67	29	48	-4	0.40	0.11	0.26	2.65	89	4.89	93	84	36	0	4	4	0		
OR EUGENE	62	47	68	37	54	-2	0.88	0.28	0.32	7.10	68	15.35	67	92	57	0	0	5	0		
OR MEDFORD	66	47	73	40	56	-4	0.67	0.38	0.38	2.34	57	6.47	75	85	37	0	0	3	0		
OR PENDLETON	64	47	69	44	55	-4	1.46	1.16	1.11	3.48	100	7.64	126	85	48	0	0	4	1		
OR PORTLAND	63	51	70	47	57	-2	0.52	-0.03	0.28	5.26	64	14.72	87	89	52	0	0	5	0		
OR SALEM	62	47	67	42	54	-3	0.89	0.41	0.69	7.13	84	17.25	90	90	54	0	0	4	1		
PA ALLENTOWN	70	48	74	34	59	-2	0.92	-0.06	0.73	9.57	96	15.21	97	86	43	0	0	2	1		
PA ERIE	70	54	76	50	62	3	0.52	-0.26	0.45	9.25	105	15.03	106	80	51	0	0	3	0		
PA MIDDLETOWN	71	52	79	42	62	-1	0.67	-0.17	0.41	11.06	120	16.68	114	82	48	0	0	2	0		
PA PHILADELPHIA	71	51	76	45	61	-4	1.44	0.57	1.07	9.98	99	15.24	96	85	46	0	0	2	1		
PA PITTSBURGH	74	55	81	50	65	3	0.59	-0.34	0.35	9.91	112	16.43	117	82	45	0	0	2	0		
PA WILKES-BARRE	73	49	77	36	61	1	0.40	-0.43	0.22	7.97	94	13.36	103	80	36	0	0	3	0		
PA WILLIAMSPORT	73	50	79	37	61	0	0.49	-0.36	0.28	10.67	120	15.93	114	83	45	0	0	3	0		
RI PROVIDENCE	69	46	80	40	57	-2	0.35	-0.45	0.35	13.48	113	17.81	93	86	45	0	0	1	0		
SC BEAUFORT	87	68	92	67	77	3	0.67	0.22	0.43	8.81	118	10.35	75	94	57	2	0	3	0		
SC CHARLESTON	84	68	91	67	76	3	1.39	0.72	1.12	13.50	155	20.07	130	95	61	1	0	5	1		
SC COLUMBIA	82	63	90	60	72	-1	3.30	2.65	2.55	10.62	125	20.20	128	95	54	1	0	6	1		
SC GREENVILLE	74	56	87	49	65	-5	6.20	5.36	2.53	22.06	207	38.42	207	93	68	0	0	5	3		
SD ABERDEEN	74	51	81	42	63	5	0.00	-0.70	0.00	3.74	69	4.46	69	88	49	0	0	0	0		
SD HURON	71	51	78	40	61	2	0.01	-0.72	0.01	2.66	44	3.97	55	95	59	0	0	1	0		
SD RAPID CITY	76	46	83	33	61	5	0.02	-0.74	0.02	2.75	53	4.02	67	83	40	0	0	1	0		
SD SIOUX FALLS	68	54	76	45	61	2	0.34	-0.44	0.31	5.54	76	6.54	77	92	67	0	0	2	0		
TN BRISTOL	73	53	85	49	63	-1	1.50	0.63	0.75	16.40	172	29.00	176	95	61	0	0	5	1		
TN CHATTANOOGA	78	61	84	57	69	0	2.14	1.28	1.39	18.01	148	34.92	158	99	59	0	0	5	1		
TN KNOXVILLE	76	59	88	54	67	-1	2.65	1.66	1.52	17.63	149	36.05	175	93	59	0	0	4	2		
TN MEMPHIS	81	63	88	57	72	-1	0.57	-0.53	0.41	16.65	113	29.53	127	91	52	0	0	2	0		
TN NASHVILLE	78	60	87	54	69	0	0.52	-0.63	0.28	13.33	108	24.93	123	90	57	0	0	6	0		
TX ABILENE	97	67	107	55	82	8	0.03	-0.72	0.03	5.65	101	9.54	119	81	28	7	0	1	0		
TX AMARILLO	88	58	94	50	73	6	0.05	-0.52	0.05	2.28	52	2.95	52	90	28	3	0	1	0		
TX AUSTIN	93	69	95	62	81	4	0.10	-0.94	0.04	14.52	182	19.69	160	93	46	7	0	3	0		
TX BEAUMONT	88	70	89	63	79	2	0.00	-1.15	0.00	9.21	87	16.44	84	98	59	0	0	0	0		
TX BROWNSVILLE	93	76	96	72	85	3	0.12	-0.50	0.12	2.01	42	2.66	37	90	54	7	0	1	0		
TX CORPUS CHRISTI	90	73	93	67	81	2	0.00	-0.75	0.00	4.46	75	5.64	59	96	64	3	0	0	0		
TX DEL RIO	99	72	108	69	86	6	0.44	-0.24	0.24	5.67	121	6.66	105	82	34	7	0	3	0		
TX EL PASO	94	66	100	56	80	5	0.00	-0.11	0.00	2.30	247	3.38	182	20	7	6	0	0	0		
TX FORT WORTH	88	67	94	62	78	3	1.01	-0.08	0.63	14.45	142	23.33	155	92	53	3	0	3	1		
TX GALVESTON	87	77	90	71	82	3	0.00	-0.85	0.00	3.77	42	13.20	84	89	65	1	0	0	0		
TX HOUSTON	92	72	94	65	82	4	0.01	-1.10	0.01	9.26	88	14.80	86	90	45	6	0	1	0		
TX LUBBOCK	93	62	100	54	78	6	0.52	-0.06	0.43	3.93	96	4.84	87	76	21	6	0	3	0		
TX MIDLAND	99	66	105	59	82	8	0.00	-0.46	0.00	3.62	149	5.51	147	72	12	7	0	0	0		
TX SAN ANGELO	98	66	108	56	82	6	0.72	0.01	0.71	6.82	139	9.78	135	86	27	7	0	2	1		
TX SAN ANTONIO	95	70	97	65	83	5	0.12	-0.82	0.09	6.36	88	9.30	85	85	39	7	0	2	0		
TX VICTORIA	93	73	94	66	83	5	0.00	-1.25	0.00	5.71	60	8.93	63	91	49	7	0	0	0		
TX WACO	92	68	95	61	80	5	0.06	-0.89	0.03	14.86	165	24.02	173	88	46	6	0	2	0		
TX WICHITA FALLS	87	64	92	61	75	3	1.81	0.97	1.16	10.32	138	15.22	146	92	50	2	0	2	2		
UT SALT LAKE CITY	75	52	89	37	63	2	0.44	0.02	0.24	2.28	43	5.35	68	68	20	0	0	3	0		
VT BURLINGTON	76	47	87	39	62	4	0.00	-0.82	0.00	5.49	73	10.30	90	75	21	0	0	0	0		
VA LYNCHBURG	69	55	83	47	62	-2	2.93	2.11	1.54	13.48	141	22.69	145	92	69	0	0	5	2		
VA NORFOLK	71	61	86	56	66	-2	1.41	0.64	0.86	11.87	125	20.02	124	91	69	0	0	4	1		
VA RICHMOND	72	58	85	52	65	-3	0.41	-0.49	0.29	8.46	84	15.82	99	93	58	0	0	4	0		
VA ROANOKE	69	55	83	44	62	-3	9.33	8.38	2.88	19.13	197	26.59	171	93	69	0	0	5	4		
VA WASH/DULLES	71	55	83	50	63	-1	0.63	-0.45	0.58	10.07	99	16.81	107	83	50	0	0	2	1		
WA OLYMPIA	62	47	68	44	55	0	0.11	-0.39	0.09	7.51	71	26.06	109	91	48	0	0	2	0		
WA QUILLAYUTE	57	47	63	42	52	0	0.48	-0.58	0.28	14.71	65	48.92	105	98	69	0	0	4	0		
WA SEATTLE-TACOMA	63	50	68	47	56	0	0.77	0.35	0.38	6.73	86	20.35	119	90	53	0	0	4	0		
WA SPOKANE	60	46	66	39	53	-3	1.69	1.30	1.39	3.41	84	7.61	104	92	53	0	0	5	1		
WA YAKIMA	69	46	74	33	57	-1	0.20	0.07	0.19	1.28	80	2.54	70	76	33	0	0	2	0		
WV BECKLEY	68	52	80	41	60	-1	1.55	0.46	1.16	14.38	139	22.66	141	95	64	0	0	4	1		
WV CHARLESTON	73	56	88	47	64	0	3.39	2.28	2.21	16.39	154	25.09	148	92	60	0	0	5	2		
WV ELKINS	73	53	82	45	63	3	0.55	-0.64	0.25	12.98	112	22.37	125	82	44	0	0	5	0		
WV HUNTINGTON	73	56	86	49	64	-1	2.83	1.78	1.78	14.65	136	22.94	136	96	65	0	0	5	2		
WI EAU CLAIRE	70	53	80	50	62	3	1.62	0.83	1.31	6.09	87	6.89	78	84	51	0	0	3	1		
WI GREEN BAY	65	50	75	46	58	1	2.60	1.93	1.43	8.56	131	11.07	125	91	58	0	0	3	2		
WI LA CROSSE	69	55	79	51	62	1	1.20	0.41	0.76	6.00	75	7.95	78	83	57	0	0	4	1		
WI MADISON	64	52	73	49	58	-1	2.90	2.10	2.04	9.66	119	12.47	115	97	70	0	0	4	2		
WI MILWAUKEE	60	49	68	47	55	-2	3.75	2.96	3.00	12.46	150	15.50	132	91	73	0	0	4	1		
WY CASPER	78	39	86	29	59	5	0.00	-0.48	0.00	2.65	72	4.00	84	77	16	0	1	0	0		
WY CHEYENNE	77	43	85	34	60	6	0.02	-0.53	0.02	2.87	63	3.54	65	82	19	0	0	1	0		
WY LANDER	75	44	86	38	59	5	0.00	-0.51	0.00	2.62	55	4.33	74	53	15	0	0	0	0		
WY SHERIDAN	73	42	82	37	57	4	0.17	-0.35	0.12	2.43	55	4.27	78	84	37	0	0	2	0		

Based on 1981-2010 normals

*** Not Available

National Agricultural Summary

May 18 - 24, 2020

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Large parts of California, Michigan, the Ohio Valley, the Pacific Northwest, the northern Rockies, and the Southeast received above-average rainfall. Rainfall totaled 6 inches or more in parts of Virginia and North Carolina. In contrast, New England and the Southwest received little or no precipitation. The Corn Belt, the mid Atlantic,

and areas west of the Rocky Mountains experienced below-normal temperatures. Conversely, the Great Lakes region, the northern Great Plains, the Rocky Mountains, and Texas reported above-normal temperatures. Temperatures in North Dakota averaged as much as 10°F above average.

Corn: By May 24, producers had planted 88 percent of the nation's corn acreage, 33 percentage points ahead of last year and 6 points ahead of the 5-year average. Ninety-seven percent of Iowa's intended corn acreage was planted by week's end, 23 percentage points ahead of last year and 6 points ahead of average. Sixty-four percent of the nation's corn acreage had emerged by May 24, thirty-six percentage points ahead of last year and 6 points ahead of average. On May 24, seventy percent of the nation's corn acreage was rated in good to excellent condition.

Soybean: Sixty-five percent of the nation's soybean acreage was planted by May 24, thirty-nine percentage points ahead of last year and 10 points ahead of the 5-year average. Soybean planting progress was ahead of average in 12 of the 18 estimating states by the end of the week. Thirty-five percent of the nation's soybean acreage had emerged by May 24, twenty-six percentage points ahead of last year and 8 points ahead of average.

Winter Wheat: By May 24, sixty-eight percent of the nation's winter wheat acreage was headed, 5 percentage points ahead of last year but 4 points behind the 5-year average. As of May 24, fifty-four percent of the 2020 winter wheat acreage was reported in good to excellent condition, 2 percentage points above the previous week but 7 points below the same time last year. In Kansas, the largest winter wheat-producing state, 40 percent of the acreage was rated in good to excellent condition.

Cotton: Nationwide, 53 percent of the cotton acreage was planted by May 24, equal to both last year and the 5-year average. Planting progress was furthest advanced in Arizona at 97 percent planted, 4 percentage points ahead of last year and 1 point ahead of average.

Sorghum: Thirty-nine percent of the nation's sorghum acreage was planted by May 24, twelve percentage points ahead of the previous year and 1 point ahead of the 5-year average. Texas producers had planted 85 percent of the intended sorghum acreage by week's end, 5 percentage points ahead of both last year and the average.

Rice: By May 24, producers had seeded 89 percent of the 2020 rice acreage, 8 percentage points ahead of the previous year but 3 points behind the 5-year average. By May 24, seventy-one percent of the nation's rice acreage had emerged, 11 percentage points

ahead of last year but 6 points behind average. On May 24, sixty-two percent of the nation's rice acreage was rated in good to excellent condition, 1 percentage point below the previous week and 2 points below last year.

Small Grains: Nationally, oat producers had seeded 93 percent of this year's acreage by May 24, ten percentage points ahead of the previous year but 1 point behind the 5-year average. Seventy-eight percent of the nation's oat acreage had emerged by May 24, sixteen percentage points ahead of the previous year but 3 points behind average. On May 24, seventy-four percent of the nation's oat acreage was rated in good to excellent condition., sixteen percentage points above the same time last year.

Eighty-six percent of the nation's barley acreage was planted by May 24, two percentage points ahead of last year but 5 points behind the 5-year average. Sixty-two percent of the nation's barley acreage had emerged by May 24, twelve percentage points ahead of the previous year but 6 points behind average. On May 24, sixty-seven percent of the nation's barley acreage was rated in good to excellent condition.

As of May 24, eighty-one percent of the spring wheat acreage was seeded, 1 percentage point ahead of last year but 9 points behind the 5-year average. As of May 24, fifty-one percent of the nation's spring wheat acreage had emerged, 10 percentage points ahead of last year but 14 points behind average.

Other Acreages: Nationally, peanut producers had planted 64 percent of the 2020 peanut acreage by May 24, ten percentage points behind last year and 6 points behind the 5-year average. Producers in Georgia, the largest peanut-producing state, had planted 65 percent of the 2020 intended acreage by week's end, 14 percentage points behind last year and 10 points behind average.

By May 24, ninety-three percent of the nation's sugarbeet acreage had been planted, equal to last year but 5 percentage points behind the 5-year average.

Fourteen percent of the nation's intended 2020 sunflower acreage was planted by May 24, seven percentage points ahead of last year but 7 points behind the 5-year average.

Crop Progress and Condition

Week Ending May 24, 2020

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

Corn Percent Planted				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
CO	69	79	91	75
IL	32	83	89	82
IN	20	72	80	69
IA	74	96	97	91
KS	67	74	87	81
KY	79	74	79	85
MI	29	59	70	65
MN	63	95	98	88
MO	64	83	90	88
NE	78	91	97	89
NC	94	95	98	96
ND	57	20	54	79
OH	18	57	66	64
PA	59	15	47	65
SD	23	67	86	74
TN	91	79	86	95
TX	93	93	94	87
WI	43	81	90	74
18 Sts	55	80	88	82
These 18 States planted 91% of last year's corn acreage.				

Corn Percent Emerged				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
CO	21	30	61	42
IL	17	43	66	69
IN	8	31	55	48
IA	36	62	82	66
KS	46	45	60	60
KY	61	56	64	66
MI	5	11	28	32
MN	17	57	80	61
MO	49	58	76	78
NE	43	54	77	61
NC	86	87	91	90
ND	6	1	12	35
OH	7	11	32	43
PA	35	1	10	41
SD	1	20	44	41
TN	78	60	71	85
TX	79	81	88	77
WI	9	15	45	40
18 Sts	28	43	64	58
These 18 States planted 92% of last year's corn acreage.				

Corn Condition by Percent					
	VP	P	F	G	EX
CO	1	5	33	54	7
IL	2	5	38	46	9
IN	2	6	28	57	7
IA	0	2	17	67	14
KS	2	5	30	55	8
KY	1	3	13	72	11
MI	3	6	42	46	3
MN	0	1	18	63	18
MO	1	5	27	61	6
NE	0	1	17	65	17
NC	0	8	22	61	9
ND	1	10	22	60	7
OH	1	13	32	47	7
PA	0	0	8	82	10
SD	0	0	26	68	6
TN	1	4	28	57	10
TX	1	4	28	52	15
WI	0	2	19	56	23
18 Sts	1	4	25	58	12
Prev Wk	NA	NA	NA	NA	NA
Prev Yr	NA	NA	NA	NA	NA

Soybeans Percent Planted				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
AR	39	47	58	67
IL	13	59	65	56
IN	10	56	66	48
IA	31	86	92	64
KS	21	37	52	31
KY	33	39	46	37
LA	78	75	83	86
MI	19	56	65	45
MN	31	74	88	70
MS	59	66	78	80
MO	11	27	39	40
NE	51	78	89	62
NC	47	33	47	43
ND	40	9	29	60
OH	9	43	53	44
SD	5	40	62	47
TN	44	29	39	48
WI	18	61	79	50
18 Sts	26	53	65	55
These 18 States planted 96% of last year's soybean acreage.				

Soybeans Percent Emerged				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
AR	27	30	43	55
IL	6	21	37	33
IN	2	18	38	24
IA	7	25	52	25
KS	10	15	29	16
KY	14	24	33	18
LA	59	55	70	77
MI	4	11	25	17
MN	2	18	46	28
MS	41	41	58	67
MO	6	10	20	23
NE	18	29	56	25
NC	29	16	32	24
ND	3	0	4	16
OH	3	6	20	23
SD	0	8	19	15
TN	24	14	21	26
WI	1	6	25	17
18 Sts	9	18	35	27
These 18 States planted 95% of last year's soybean acreage.				

Cotton Percent Planted				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
AL	83	63	79	74
AZ	93	92	97	96
AR	72	47	72	88
CA	98	85	90	89
GA	72	41	57	65
KS	22	29	53	21
LA	79	75	83	88
MS	54	52	72	74
MO	46	15	30	78
NC	68	34	46	66
OK	20	8	11	32
SC	83	45	56	70
TN	68	23	47	74
TX	45	46	50	41
VA	76	34	57	71
15 Sts	53	44	53	53
These 15 States planted 99% of last year's cotton acreage.				

Crop Progress and Condition

Week Ending May 24, 2020

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

Rice Percent Planted				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
AR	76	76	85	93
CA	86	88	98	84
LA	95	91	96	98
MS	75	76	84	91
MO	74	60	71	89
TX	84	97	98	91
6 Sts	81	81	89	92
These 6 States planted 100% of last year's rice acreage.				

Rice Percent Emerged				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
AR	62	58	73	85
CA	21	25	50	35
LA	91	86	90	96
MS	55	49	62	79
MO	57	46	55	78
TX	81	92	94	86
6 Sts	60	57	71	77
These 6 States planted 100% of last year's rice acreage.				

Rice Condition by Percent					
	VP	P	F	G	EX
AR	1	3	37	46	13
CA	0	0	45	45	10
LA	1	1	15	74	9
MS	0	2	28	48	22
MO	1	7	42	47	3
TX	0	0	35	53	12
6 Sts	1	2	35	51	11
Prev Wk	1	2	34	53	10
Prev Yr	1	5	30	54	10

Sorghum Percent Planted				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
CO	9	20	28	15
KS	4	9	15	9
NE	22	28	56	37
OK	14	14	15	36
SD	2	17	29	27
TX	80	80	85	80
6 Sts	27	32	39	38
These 6 States planted 100% of last year's sorghum acreage.				

Spring Wheat Percent Planted				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
ID	92	96	98	94
MN	84	70	86	94
MT	79	75	92	87
ND	77	41	70	88
SD	76	91	97	94
WA	93	98	99	97
6 Sts	80	60	81	90
These 6 States planted 100% of last year's spring wheat acreage.				

Spring Wheat Percent Emerged				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
ID	64	72	86	79
MN	41	29	51	74
MT	38	45	72	58
ND	37	13	32	59
SD	39	57	76	79
WA	75	82	87	86
6 Sts	41	30	51	65
These 6 States planted 99% of last year's spring wheat acreage.				

Peanuts Percent Planted				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
AL	78	55	72	66
FL	83	68	85	77
GA	79	48	65	75
NC	60	31	45	60
OK	31	10	20	64
SC	86	50	65	74
TX	58	27	53	56
VA	69	39	76	63
8 Sts	74	46	64	70
These 8 States planted 96% of last year's peanut acreage.				

Winter Wheat Percent Headed				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
AR	98	89	95	99
CA	100	95	96	99
CO	39	22	46	52
ID	9	11	14	19
IL	74	67	82	87
IN	51	36	51	67
KS	77	61	84	89
MI	1	1	4	7
MO	79	80	90	91
MT	0	0	0	1
NE	16	5	22	40
NC	91	96	96	96
OH	32	11	42	53
OK	96	93	95	98
OR	21	25	50	47
SD	0	0	8	15
TX	96	96	100	97
WA	19	20	28	38
18 Sts	63	56	68	72
These 18 States planted 91% of last year's winter wheat acreage.				

Winter Wheat Condition by Percent					
	VP	P	F	G	EX
AR	0	4	58	29	9
CA	0	10	25	45	20
CO	20	19	29	29	3
ID	0	3	24	46	27
IL	4	8	33	43	12
IN	1	6	31	52	10
KS	7	17	36	34	6
MI	3	8	29	51	9
MO	2	6	45	44	3
MT	3	4	13	47	33
NE	1	7	22	64	6
NC	1	6	22	61	10
OH	1	4	26	59	10
OK	1	7	32	58	2
OR	4	21	35	32	8
SD	0	1	23	66	10
TX	6	15	37	36	6
WA	0	1	12	76	11
18 Sts	5	11	30	46	8
Prev Wk	5	11	32	44	8
Prev Yr	2	7	30	48	13

Crop Progress and Condition

Week Ending May 24, 2020

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

Barley Percent Planted				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
ID	95	95	97	95
MN	88	69	93	94
MT	81	79	90	89
ND	78	33	65	90
WA	81	95	98	92
5 Sts	84	72	86	91
These 5 States planted 81% of last year's barley acreage.				

Barley Percent Emerged				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
ID	69	63	82	82
MN	44	41	53	71
MT	49	49	69	66
ND	31	11	27	60
WA	60	71	82	78
5 Sts	50	44	62	68
These 5 States planted 81% of last year's barley acreage.				

Barley Condition by Percent					
	VP	P	F	G	EX
ID	0	1	46	50	3
MN	0	1	17	75	7
MT	0	2	32	58	8
ND	0	3	22	70	5
WA	0	6	6	86	2
5 Sts	0	2	31	61	6
Prev Wk	NA	NA	NA	NA	NA
Prev Yr	NA	NA	NA	NA	NA

Oats Percent Planted				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
IA	97	99	99	99
MN	78	91	96	92
NE	93	92	96	97
ND	69	47	72	84
OH	79	88	93	91
PA	92	72	89	93
SD	67	96	99	92
TX	100	100	100	100
WI	70	88	93	87
9 Sts	83	86	93	94
These 9 States planted 71% of last year's oat acreage.				

Oats Percent Emerged				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
IA	84	91	95	92
MN	49	69	79	77
NE	75	82	91	90
ND	22	18	29	52
OH	67	64	80	80
PA	83	50	72	86
SD	41	75	90	81
TX	100	100	100	100
WI	37	56	75	67
9 Sts	62	69	78	81
These 9 States planted 71% of last year's oat acreage.				

Oat Condition by Percent					
	VP	P	F	G	EX
IA	0	1	18	69	12
MN	0	0	23	63	14
NE	0	7	31	58	4
ND	0	2	20	69	9
OH	0	2	26	63	9
PA	0	0	24	74	2
SD	0	0	21	72	7
TX	1	7	27	48	17
WI	0	2	19	57	22
9 Sts	0	3	23	62	12
Prev Wk	1	2	22	65	10
Prev Yr	3	5	34	51	7

Sugarbeets Percent Planted				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
ID	99	90	93	97
MI	85	94	97	97
MN	91	73	90	97
ND	96	66	94	99
4 Sts	93	78	93	98
These 4 States planted 84% of last year's sugarbeet acreage.				

Sunflowers Percent Planted				
	Prev Year	Prev Week	May 24 2020	5-Yr Avg
CO	0	18	27	5
KS	2	16	28	4
ND	17	2	17	33
SD	0	3	8	13
4 Sts	7	4	14	21
These 4 States planted 87% of last year's sunflower acreage.				

Crop Progress and Condition

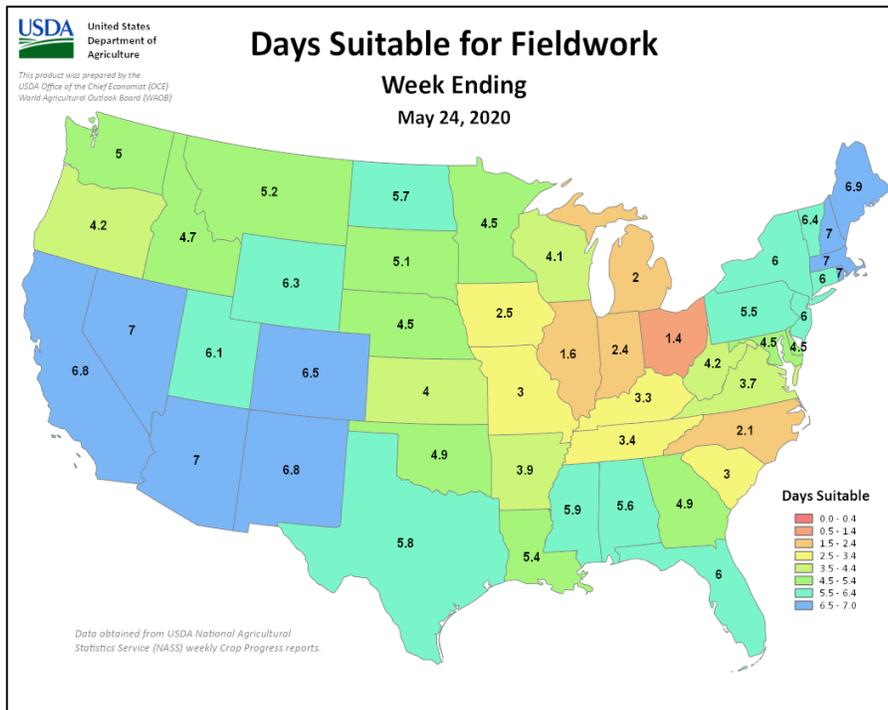
Week Ending May 24, 2020

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

Pasture and Range Condition by Percent											
Week Ending May 24, 2020											
	VP	P	F	G	EX		VP	P	F	G	EX
AL	1	12	30	50	7	NH	4	10	24	31	31
AZ	1	15	39	41	4	NJ	0	0	0	82	18
AR	1	5	32	48	14	NM	6	32	46	16	0
CA	15	10	35	15	25	NY	0	1	27	48	24
CO	22	13	29	36	0	NC	1	6	20	66	7
CT	3	9	28	30	30	ND	1	4	23	64	8
DE	2	3	36	41	18	OH	3	5	33	51	8
FL	2	8	36	48	6	OK	0	9	35	49	7
GA	2	9	27	53	9	OR	2	30	43	23	2
ID	0	3	10	69	18	PA	0	4	20	56	20
IL	1	3	29	51	16	RI	0	0	0	100	0
IN	1	5	27	54	13	SC	0	1	38	45	16
IA	0	6	28	52	14	SD	0	0	30	60	10
KS	2	9	33	49	7	TN	0	5	27	54	14
KY	2	7	19	60	12	TX	7	18	40	30	5
LA	0	6	32	55	7	UT	4	11	47	37	1
ME	0	0	13	87	0	VT	0	0	0	41	59
MD	1	1	28	66	4	VA	0	3	28	55	14
MA	0	20	60	20	0	WA	6	5	30	55	4
MI	2	6	35	46	11	WV	0	27	23	46	4
MN	1	10	23	58	8	WI	1	6	20	48	25
MS	1	9	27	56	7	WY	0	3	23	70	4
MO	1	2	33	52	12	48 Sts	4	12	34	43	7
MT	1	2	35	45	17						
NE	1	1	16	75	7	Prev Wk	5	11	37	41	6
NV	5	10	40	40	5	Prev Yr	1	5	27	55	12

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

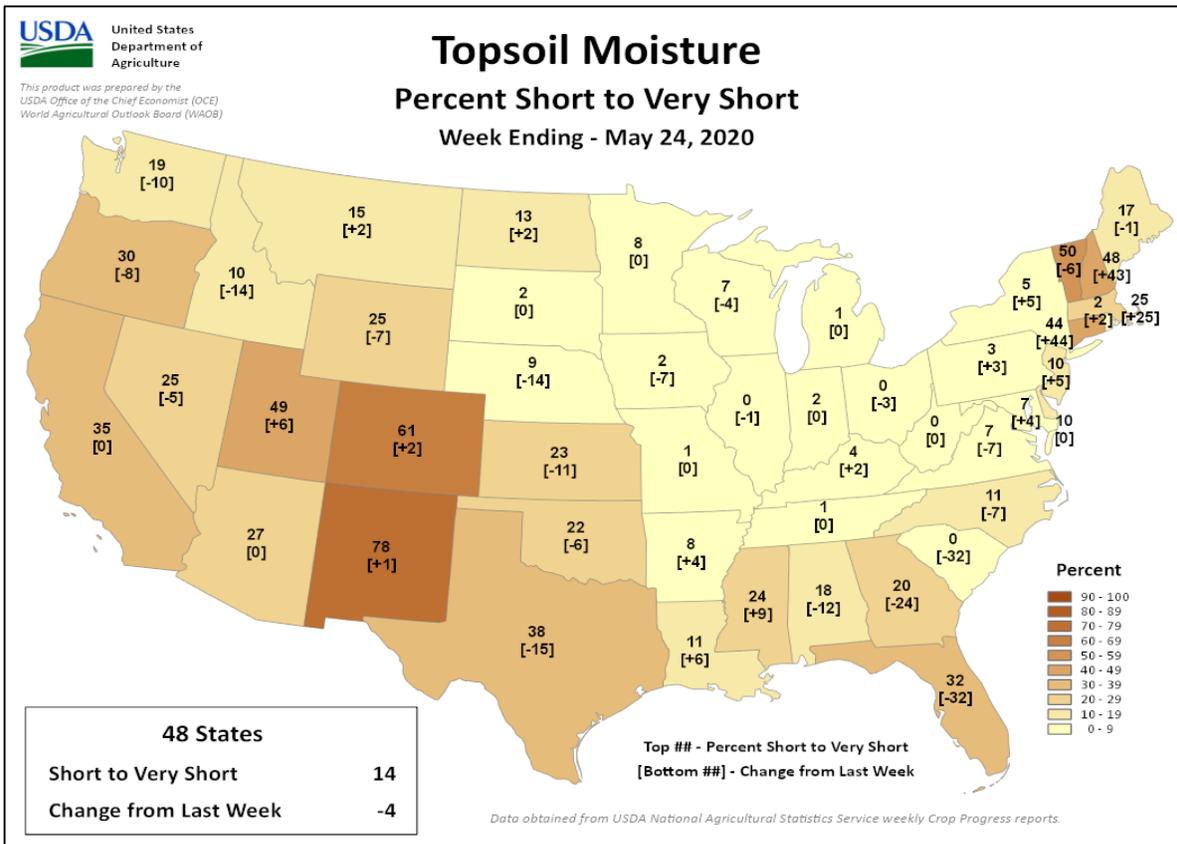
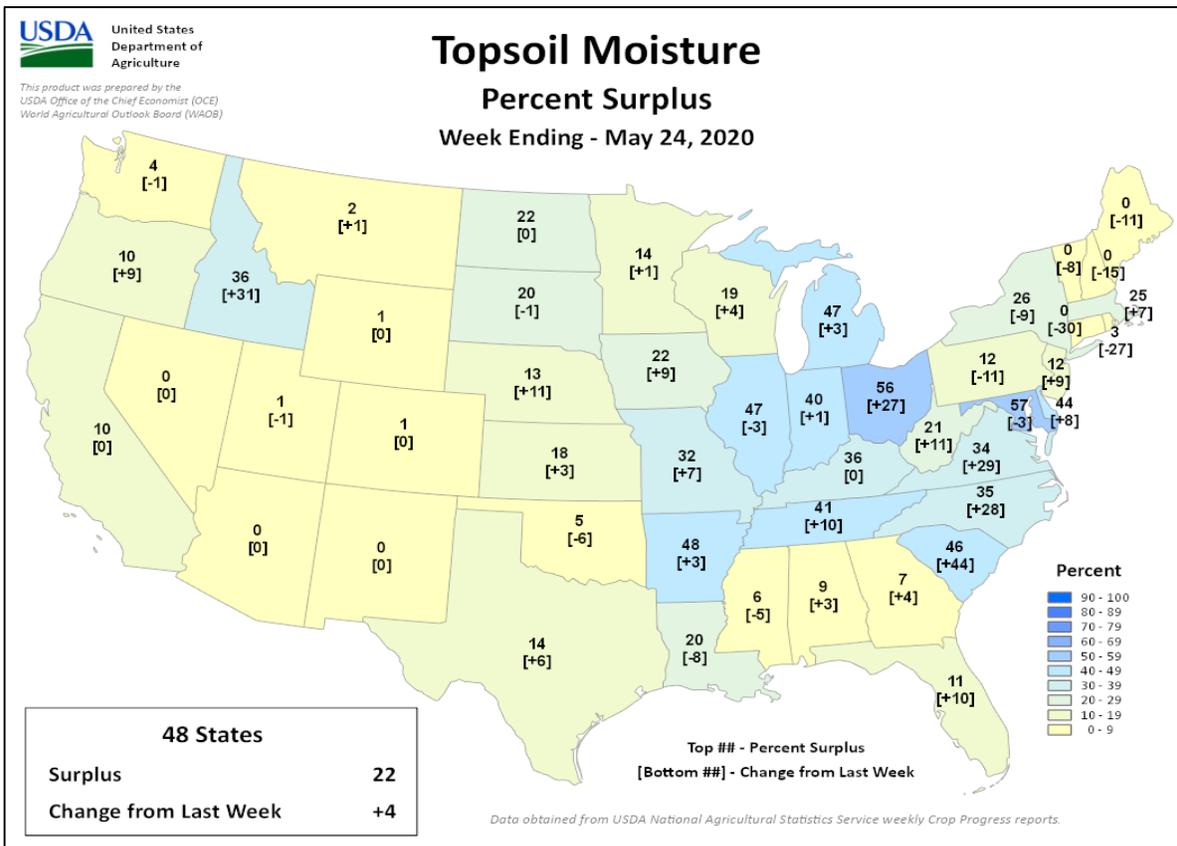
NA - Not Available
* Revised



Crop Progress and Condition

Week Ending May 24, 2020

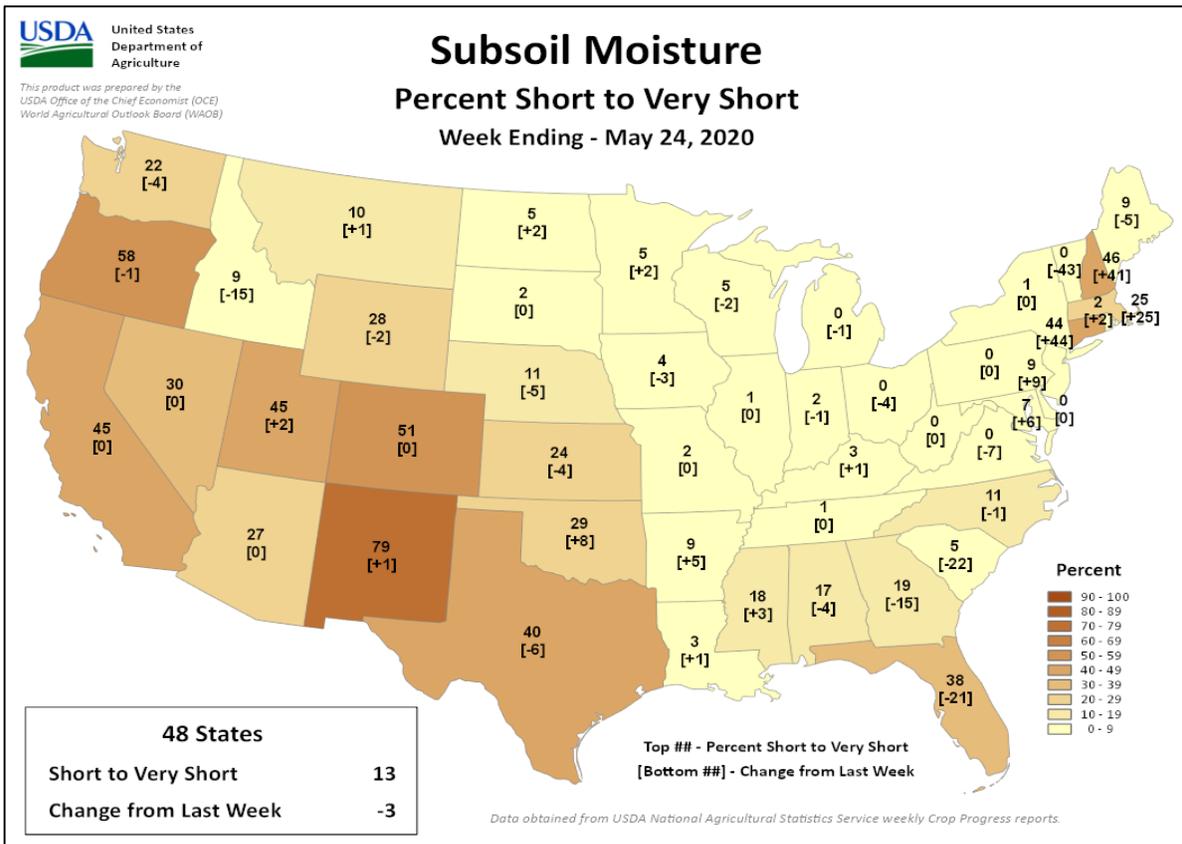
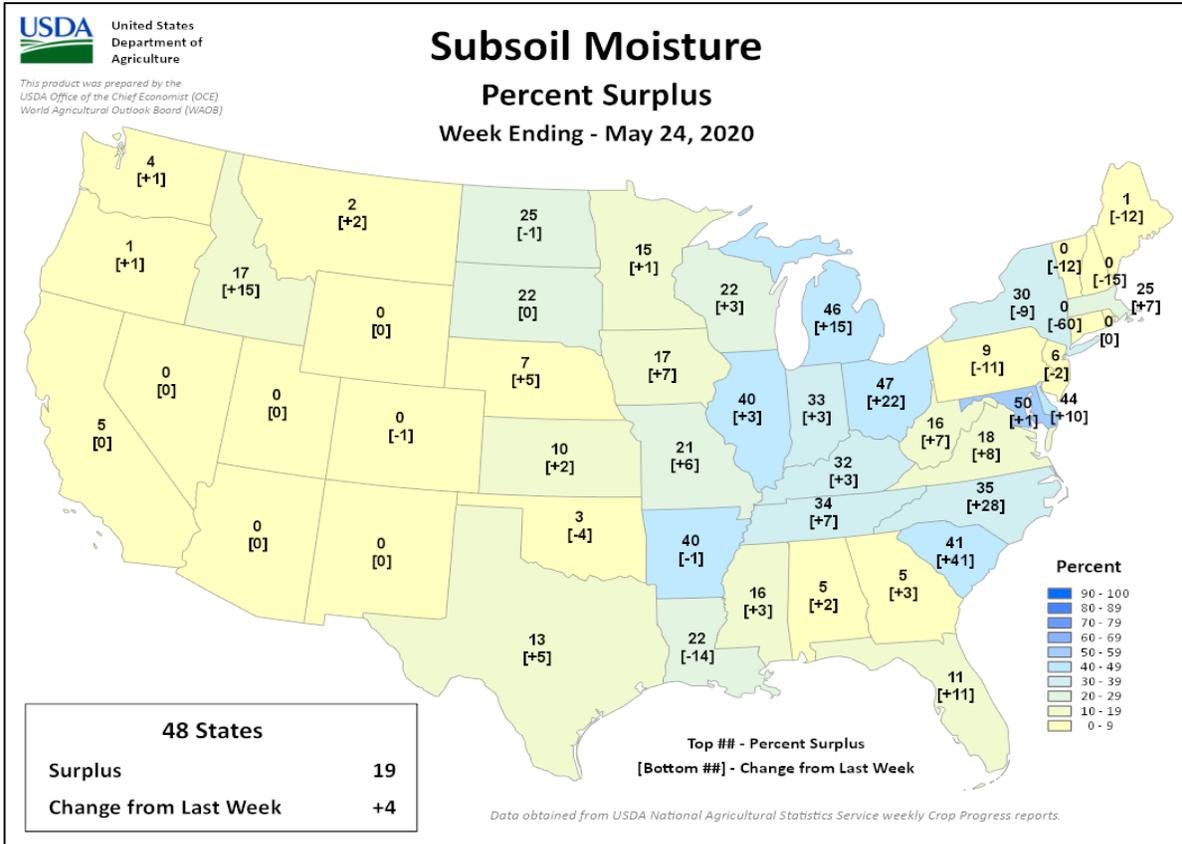
Weekly U.S. Progress and Condition Data provided by USDA/NASS



Crop Progress and Condition

Week Ending May 24, 2020

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



International Weather and Crop Summary

May 17-23, 2020

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

HIGHLIGHTS

EUROPE: Additional timely showers from France into Poland contrasted with intensifying drought in parts of northern Europe.

WESTERN FSU: Intensifying showers further stabilized or improved winter crop conditions, particularly in southern Russia.

EASTERN FSU: Showers slowed fieldwork in western portions of the region, while generally dry, very warm weather in the east accelerated spring wheat planting and emergence.

MIDDLE EAST: Early week excessive heat stressed late-reproductive winter grains in central Turkey and likely caused some minor damage to newly emerged summer crops in western and southern portions of the country.

SOUTH ASIA: Tropical Cyclone Amphan weakened substantially prior to making landfall in northeastern India.

EASTERN ASIA: Wet weather promoted corn and soybean establishment in parts of northeastern China.

SOUTHEAST ASIA: Unseasonably spotty rainfall continued in northern portions of the region, while southern areas continued to benefit from late-season showers.

AUSTRALIA: Showers maintained good early season winter crop prospects in the southeast.

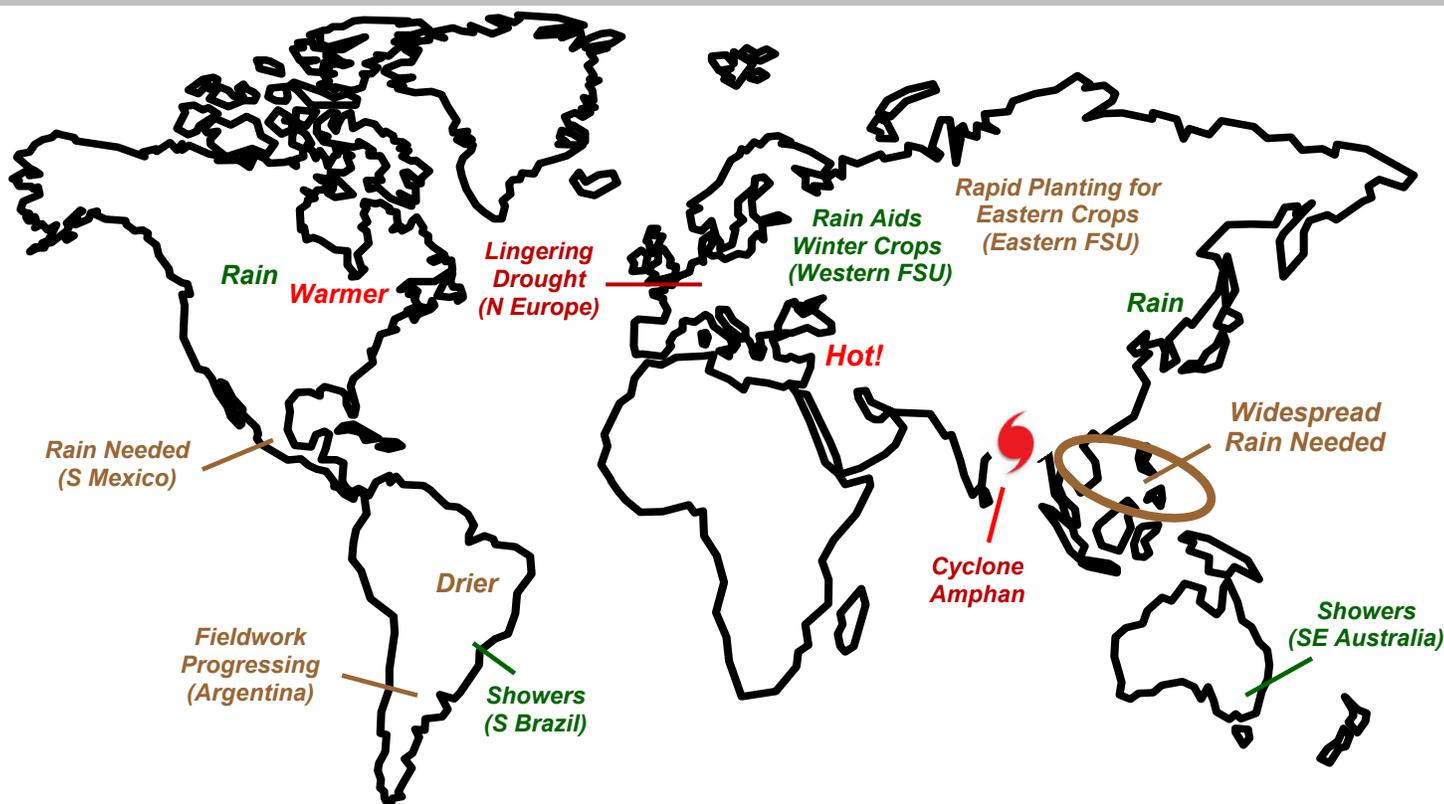
ARGENTINA: As summer crop harvesting advanced toward completion, winter grain planting was underway in many parts of the region.

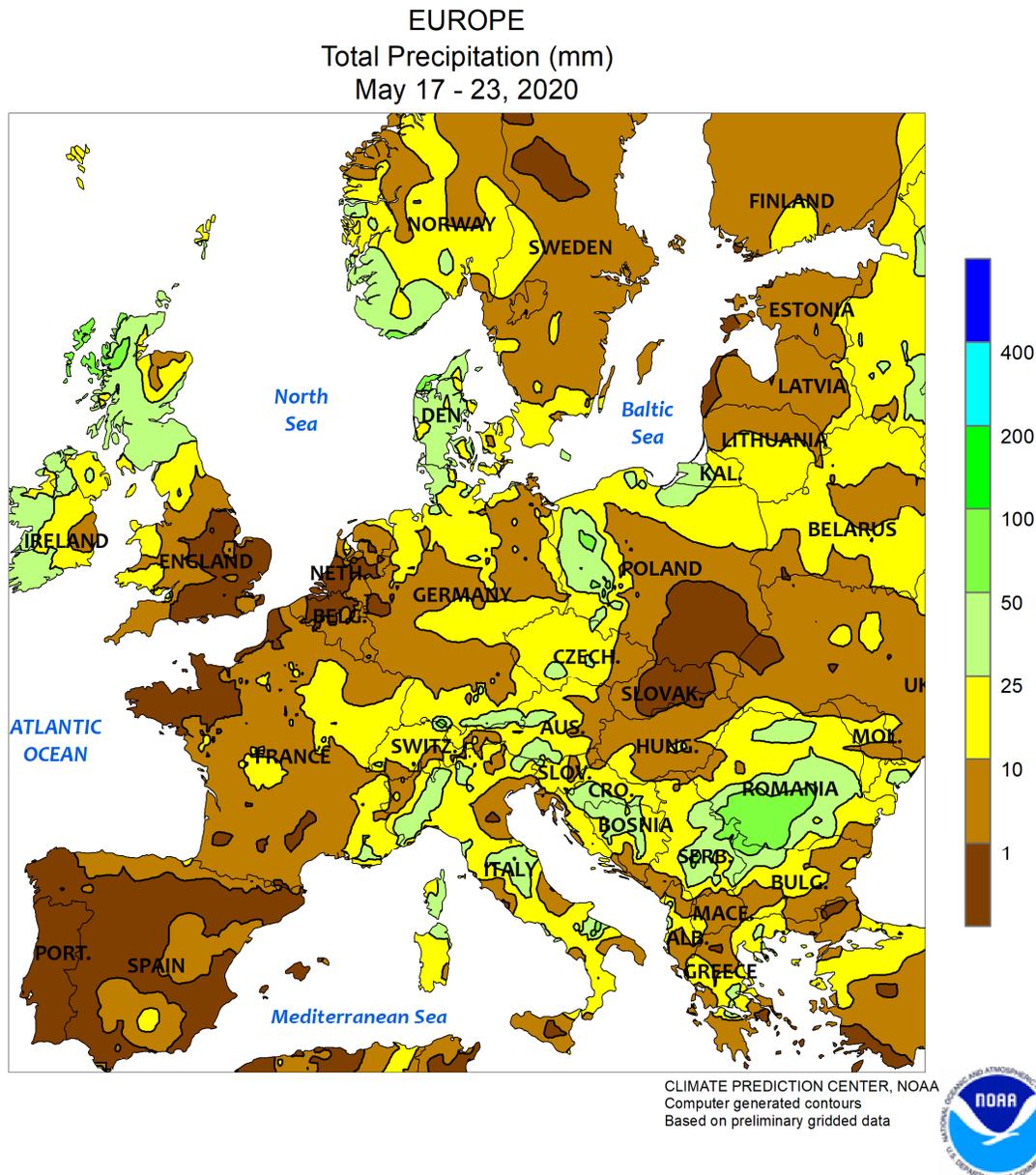
BRAZIL: Much-needed rain benefited corn and wheat in key southern production areas.

MEXICO: Moisture remained limited for rain-fed summer crops across the southern plateau corn belt.

CANADIAN PRAIRIES: Locally heavy showers disrupted spring grain and oilseed planting.

SOUTHEASTERN CANADA: Warm, showery weather benefited emerging corn and soybeans.



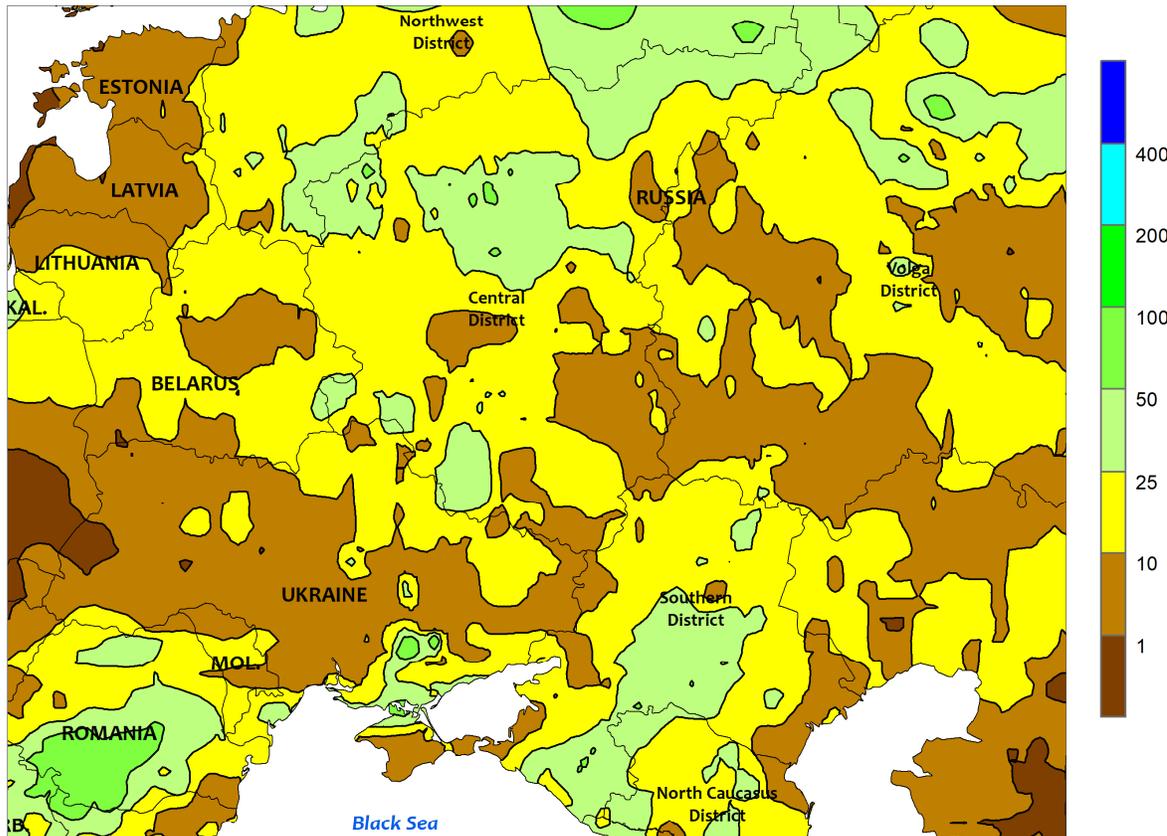


EUROPE

Additional showers further eased spring drought and provided timely moisture for reproductive to filling winter crops across portions of northern Europe. A cold front produced 2 to 20 mm of rainfall (locally more) from central France into Poland and the Baltic States. The moisture — on top of recent May rain — eased or alleviated spring drought and boosted yield prospects for reproductive to filling winter wheat, barley, and rapeseed. Despite the overall favorable recent rainfall, dry weather sustained drought impacts on reproductive winter crops from England into northwestern Germany and the Low Countries; satellite-derived vegetation health data indicated locally severe crop stress in England,

where 60-day rainfall has totaled a meager 10 to 25 percent of normal. Meanwhile, moderate to heavy rain in the Balkans (10-70 mm) alleviated recent heat and provided a boost to late-reproductive winter barley, wheat, and rapeseed. Conversely, dry weather in Spain was welcome for filling to maturing wheat and barley following a very wet spring to date. Above-normal temperatures across much of central and western Europe (up to 5°C above normal) contrasted with chilly conditions in eastern growing areas (1-4°C below normal). By week’s end, an expansive area of high pressure settled over northern Europe, bringing sunny skies back to central and northern portions of the continent.

WESTERN FSU
Total Precipitation (mm)
May 17 - 23, 2020



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

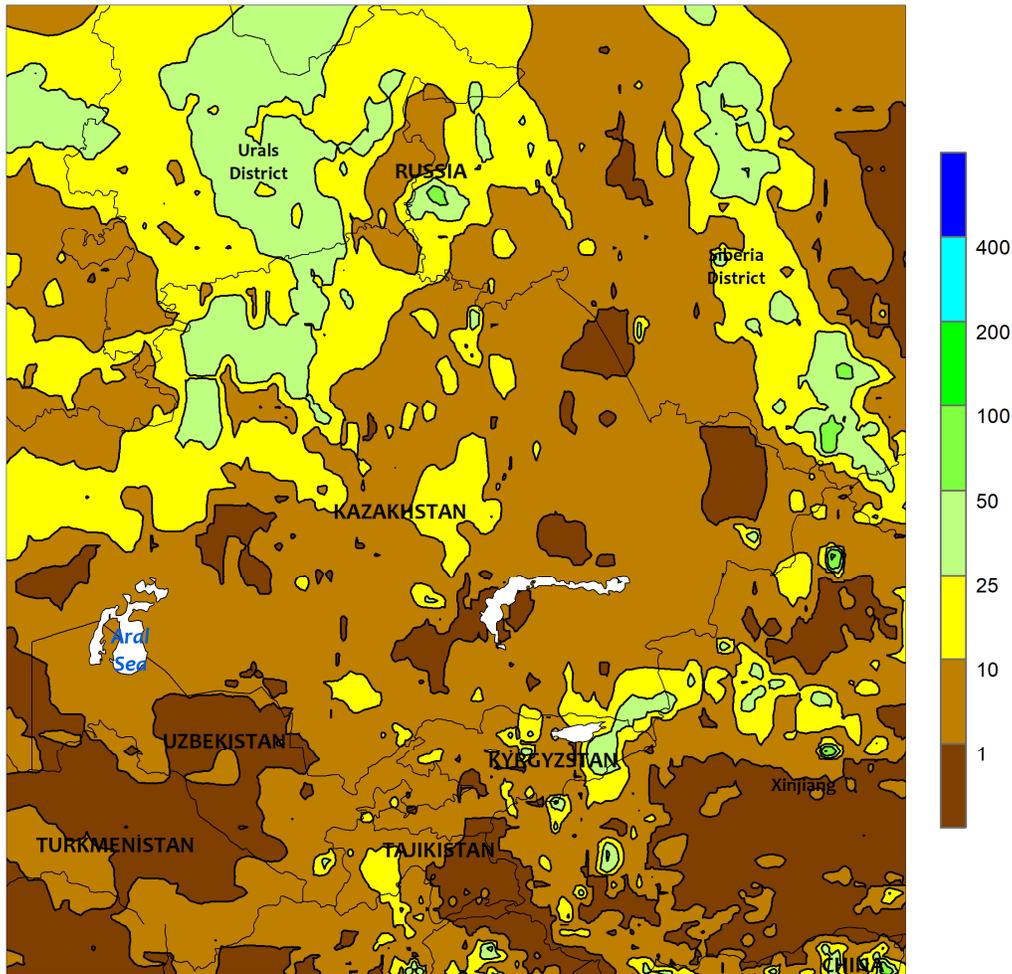


WESTERN FSU

Rain expanded eastward, providing beneficial moisture to previously dry portions of southern Russia. Much-needed showers and thunderstorms (10-60 mm) spread into key winter wheat areas of southern Russia, boosting moisture supplies for crops approaching (north) or progressing through (south) reproduction. While much of the region experienced beneficial rain during May, southern portions of Russia's Southern District largely missed out on the

recent rainfall until this past week. Widespread albeit variable showers (5-45 mm, locally more) elsewhere maintained favorable moisture supplies for winter crops ranging from vegetative in northern Ukraine and western Russia to filling in Moldova. Temperatures averaged 2 to 6°C below normal over much of the region save for near-to above-normal readings (up to 2°C above normal) along the Black Sea Coast.

EASTERN FSU
 Total Precipitation (mm)
 May 17 - 23, 2020



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

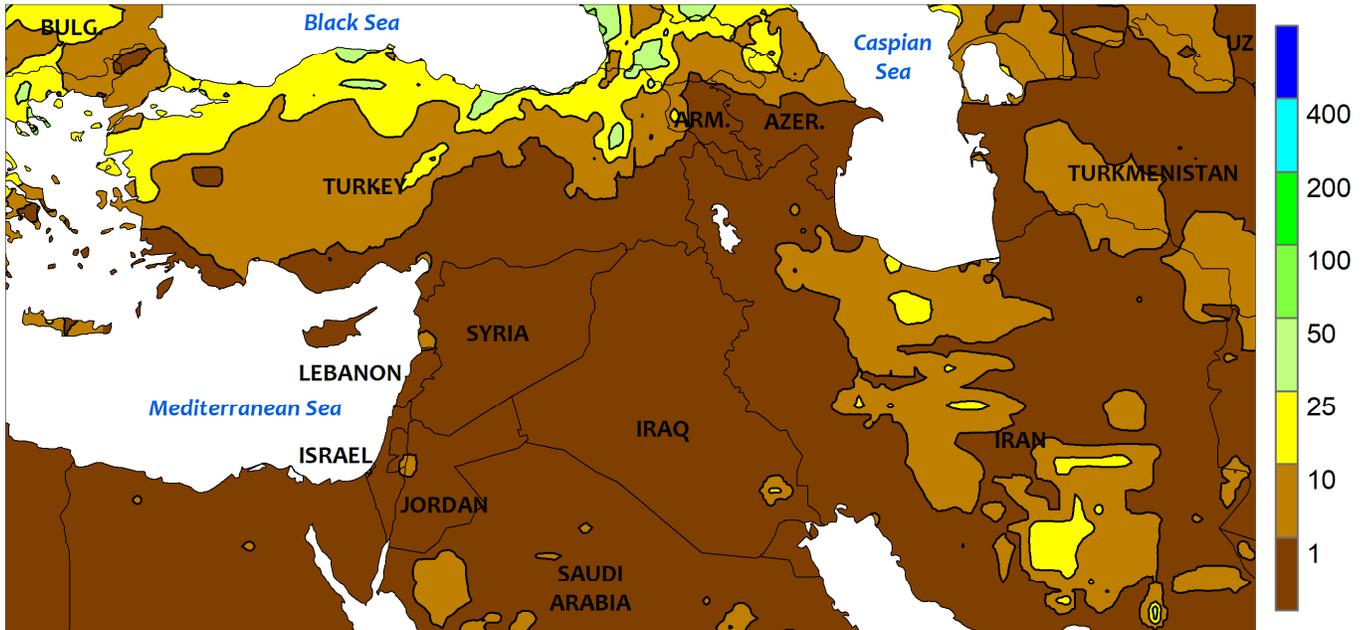


EASTERN FSU

A strong area of high pressure responsible for recent summer-like warmth in eastern growing areas shifted east and weakened. However, temperatures still averaged 4 to 8°C above normal across central and eastern portions of the region, with early week daytime highs reaching the lower 30s (degrees C) in Russia’s Siberia District. While mostly dry conditions prevailed in many of these locales, locally heavy showers and thunderstorms (10-55 mm) overspread the central and eastern Siberia District, improving moisture supplies for spring grain establishment. Conversely, mostly dry weather across the

western Siberia District favored spring wheat sowing and other seasonal fieldwork but left soils in need of moisture for crop emergence and establishment. Meanwhile, another slow-moving cold front produced additional moderate to heavy rain (10-65 mm) from northwestern Kazakhstan into central portions of Russia, boosting moisture supplies for emerging spring wheat and barley but impeding planting activities. Farther south, seasonal heat (30-37°C) and scattered showers (1-30 mm) promoted the development of recently sown cotton across Uzbekistan, Turkmenistan, and southern Kazakhstan.

MIDDLE EAST
Total Precipitation (mm)
May 17 - 23, 2020



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

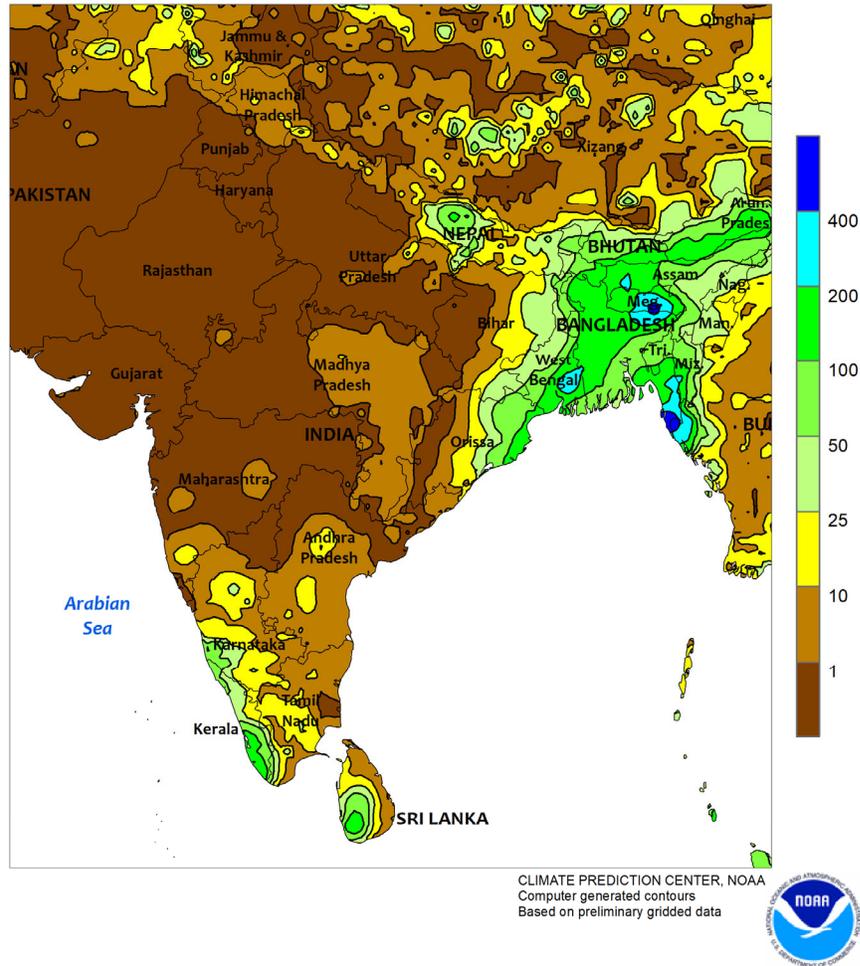


MIDDLE EAST

Early week excessive heat gave way to cooler, showery weather by the end of the period. Daytime highs in central Turkey (Anatolian Plateau) reached into the lower and middle 30s (degrees C) through mid-week, marking seven consecutive days with temperatures at or above 32°C. The heat likely caused some stress to reproductive to filling wheat and barley, though readings stayed below the critical threshold of 35°C for crop damage. However, temperatures soared into the lower 40s from western Turkey (as high as 43°C) into southern Iraq (45°C) and southwestern Iran, with

readings reaching 47°C in Jordan. Weekly average temperatures were up to 9°C above normal in these locales, though cooler air overspread the region during the latter half of the monitoring period. The extreme heat likely caused some stress or damage to recently emerged cotton, particularly in the Aegean region of western Turkey, as well as corn in the west and southeast (Adana). Scattered showers and thunderstorms in Turkey (2-30 mm) signaled the arrival of cooler weather, while similar unseasonable showers dotted much of central and northern Iran.

SOUTH ASIA
Total Precipitation (mm)
May 17 - 23, 2020

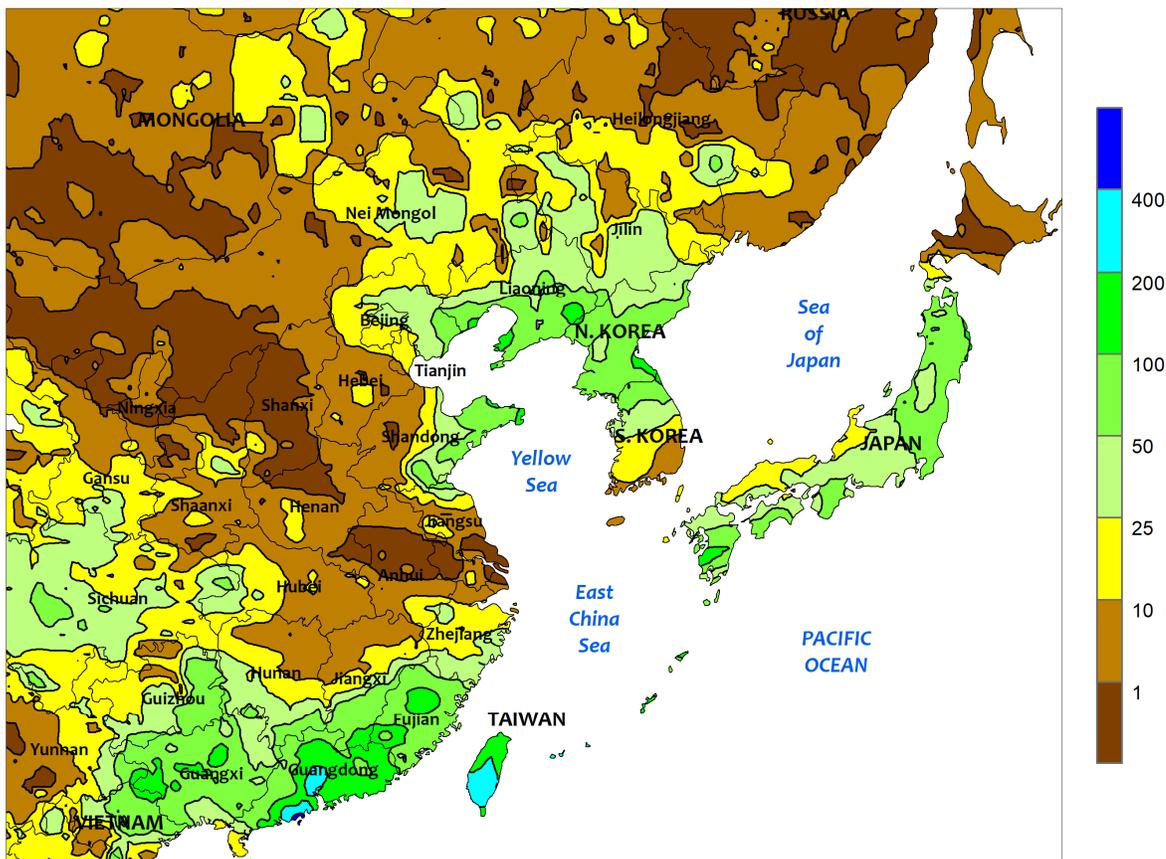


SOUTH ASIA

Tropical Cyclone Amphan made landfall in northeastern India during mid-week with wind speeds in excess of 75 knots. The storm reached peak intensity two days earlier with winds estimated at 145 knots (reportedly the strongest winds for a Bay of Bengal storm in modern history). Rainfall from the storm was moderate to locally torrential

(25-200 mm or more) across northeastern India and Bangladesh. Overall, the storm appeared to do little widespread damage to rice and other agriculture in the affected areas. Elsewhere, pre-monsoon heat (40-45°C or higher) continued throughout the remainder of India and into Pakistan as growers await the onset of seasonal rain.

EASTERN ASIA
Total Precipitation (mm)
May 17 - 23, 2020



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

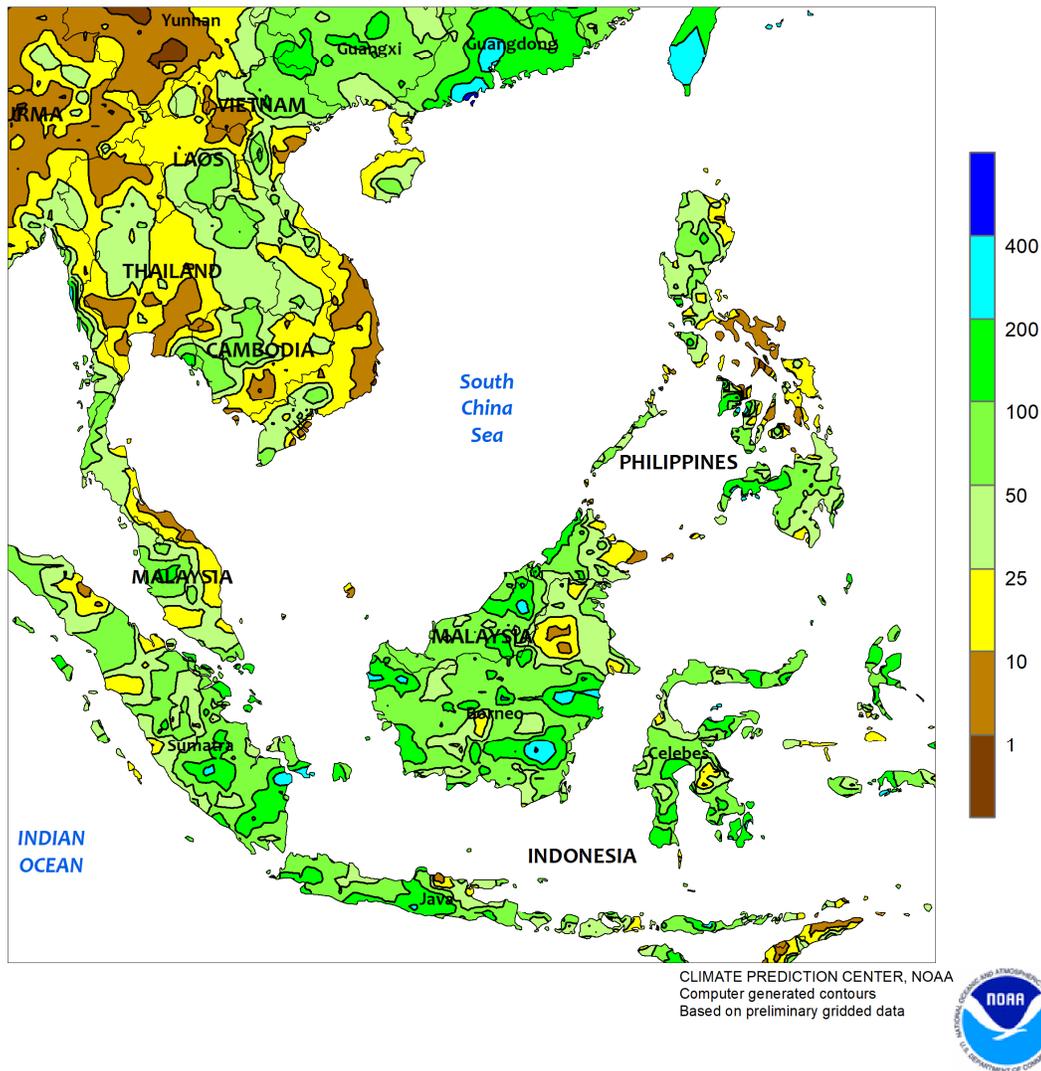


EASTERN ASIA

Showers (10-50 mm or more) extended from southern Heilongjiang to eastern Shandong and encompassed much of the Korean Peninsula. The moisture aided corn and soybean establishment in northeastern China and boosted moisture supplies for rice in the Koreas. Rainfall (25-100 mm) was also reported in China's southern provinces, slowing maturation of spring (early-crop) rice but benefiting summer (single-crop) rice establishment. In

contrast, dry, warmer-than-normal weather prevailed throughout the Yangtze Valley and on the North China Plain, promoting maturation of rapeseed and wheat. Meanwhile, above-normal temperatures in western China promoted cotton development. Elsewhere, showers (25-100 mm) were reported across most of Japan, improving moisture supplies for rice, but dry weather continued in key growing areas of Hokkaido.

SOUTHEAST ASIA
Total Precipitation (mm)
May 17 - 23, 2020

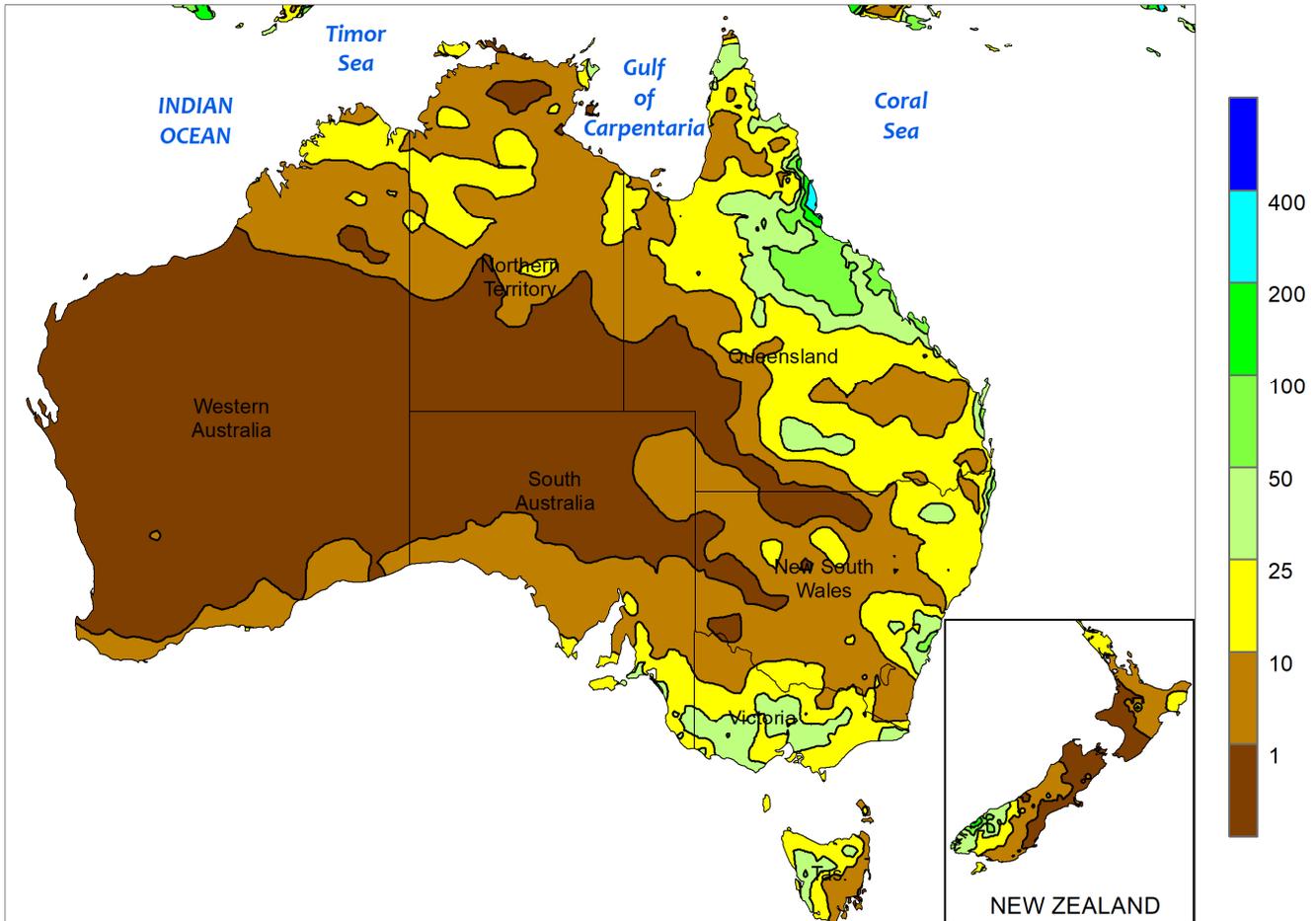


SOUTHEAST ASIA

Rainfall (25-100 mm) remained unseasonably focused in southern portions of the region (Malaysia and Indonesia). Typically, showers migrate northward in late spring and become established in Thailand and environs as well as the Philippines by the end of May. While the rainfall in the south has boosted

soil moisture for oil palm and water supplies for summer rice, the absence of established monsoon showers in the north was discouraging rice sowing. Thus far, appreciable showers (over 25 mm) in the north have been spotty, with totals for the month less than 75 percent of normal in many areas.

AUSTRALIA
Total Precipitation (mm)
May 17 - 23, 2020



Gridded data from the Australian Bureau of Meteorology: www.bom.gov.au/
Creative Commons License found at:
<https://creativecommons.org/licenses/by/3.0/au/legalcode>

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

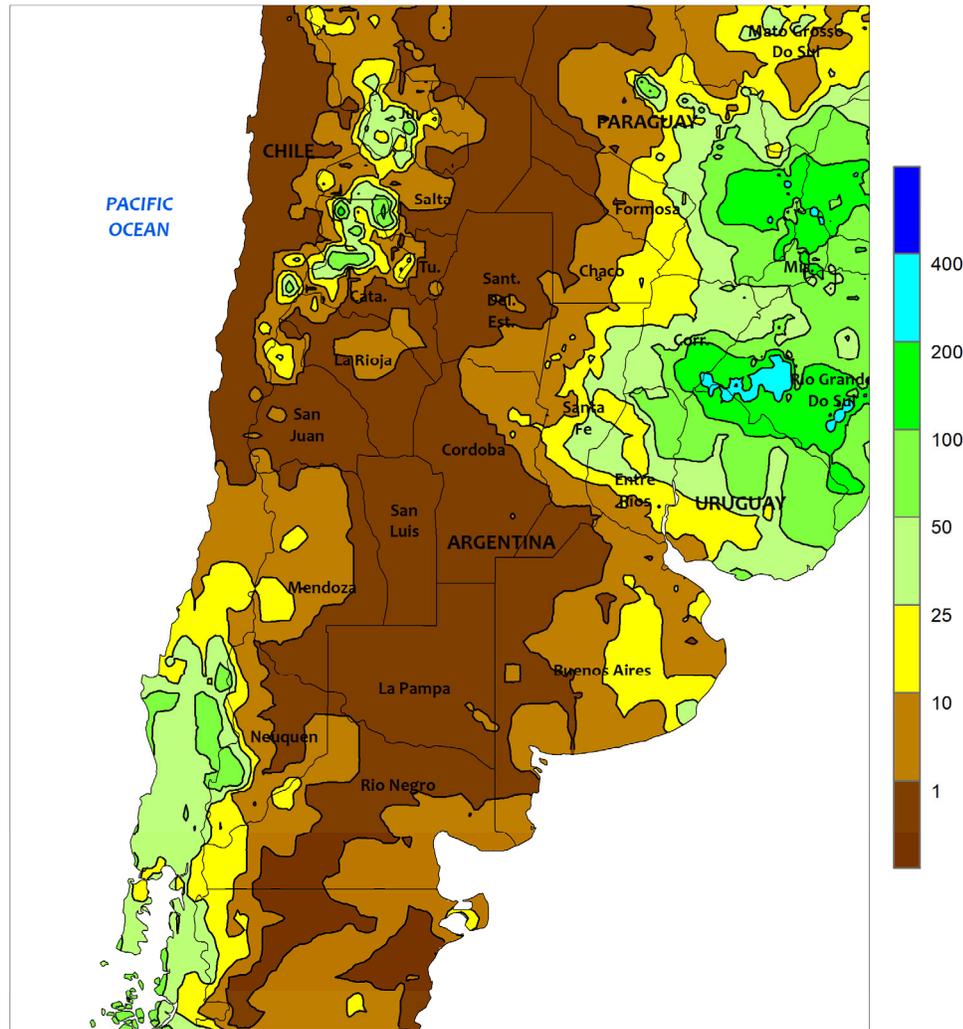


AUSTRALIA

Following three weeks of mostly dry weather, scattered showers (5-25 mm, locally more) overspread southern Queensland, providing a needed boost in topsoil moisture for germinating to emerging wheat and other winter crops. Farther south, scattered showers (5-25 mm, locally more) kept recently sown winter grains and oilseeds generally well watered, maintaining good early season yield prospects in

South Australia, Victoria, and New South Wales. The showers likely had little impact on cotton and sorghum, however, with harvesting well advanced in many areas. Elsewhere in the wheat belt, generally dry weather persisted in Western Australia, slowing wheat, barley, and canola germination and emergence. Temperatures averaged within 1°C of normal throughout the wheat belt.

ARGENTINA
Total Precipitation (mm)
May 17 - 23, 2020



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

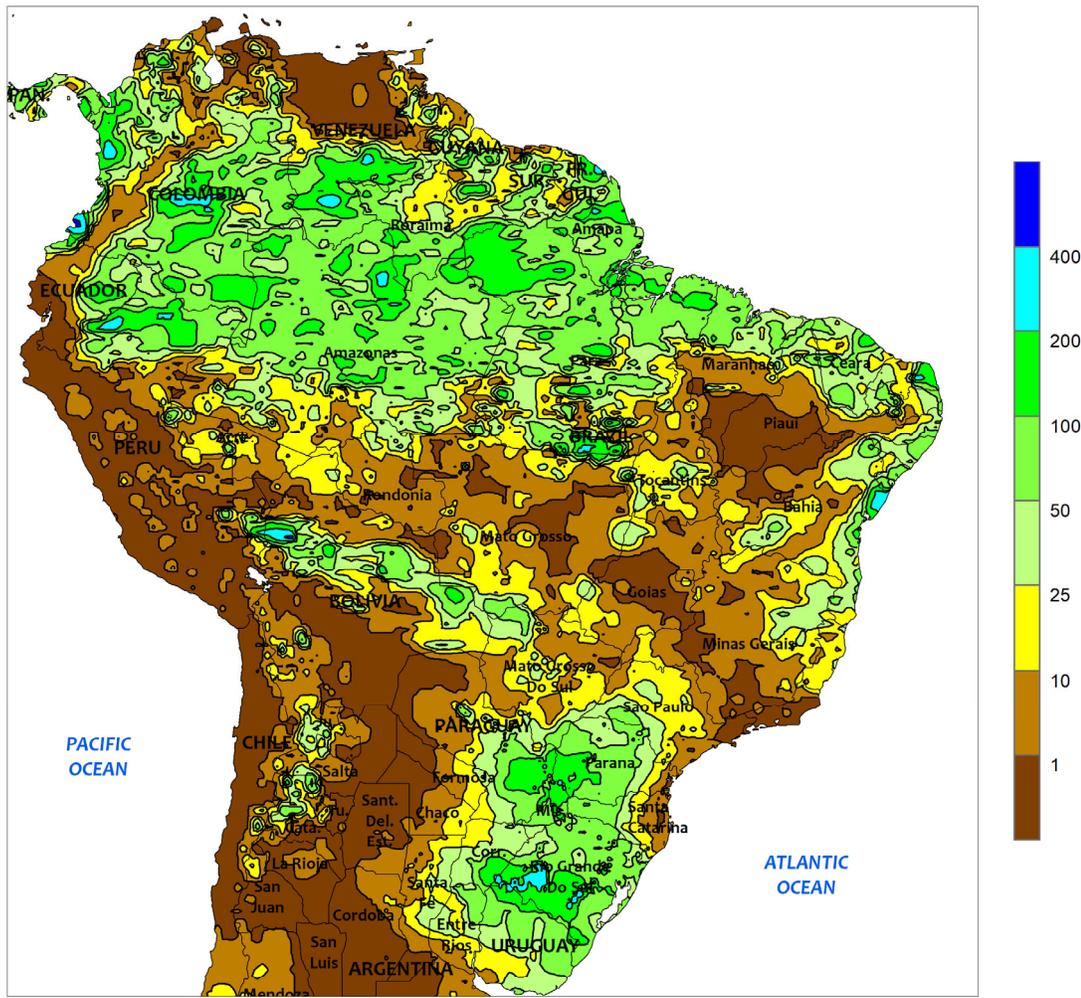


ARGENTINA

Showers returned to eastern parts of the region, slowing local summer crop harvesting but increasing moisture for winter grain germination. Rainfall totaled more than 10 mm in southeastern Buenos Aires, stretching westward into some of the more high-yielding wheat producing districts. Heavier rain (25-50 mm or more) fell from Entre Rios and Santa Fe to Paraguay, increasing moisture for winter grains as well but likely slowing cotton harvesting and other field activities. Meanwhile, dry weather favored the continuation of fieldwork in western farming areas stretching from La Pampa and

western Buenos Aires northward to Salta, including most of Cordoba. Weekly temperatures averaged 1 to 2°C above normal nationwide, with daytime highs reaching the lower and middle 20s (degrees C) in southern Buenos Aires and the lower 30s in many agricultural areas lying north of Cordoba. According to the government of Argentina, corn was 53 percent harvested, on par with last year's pace (52 percent) as of May 21, while soybeans were 10 points ahead of last year's pace at 91 percent harvested. Cotton was 72 percent harvested compared with 48 percent last year.

BRAZIL
Total Precipitation (mm)
May 17 - 23, 2020



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

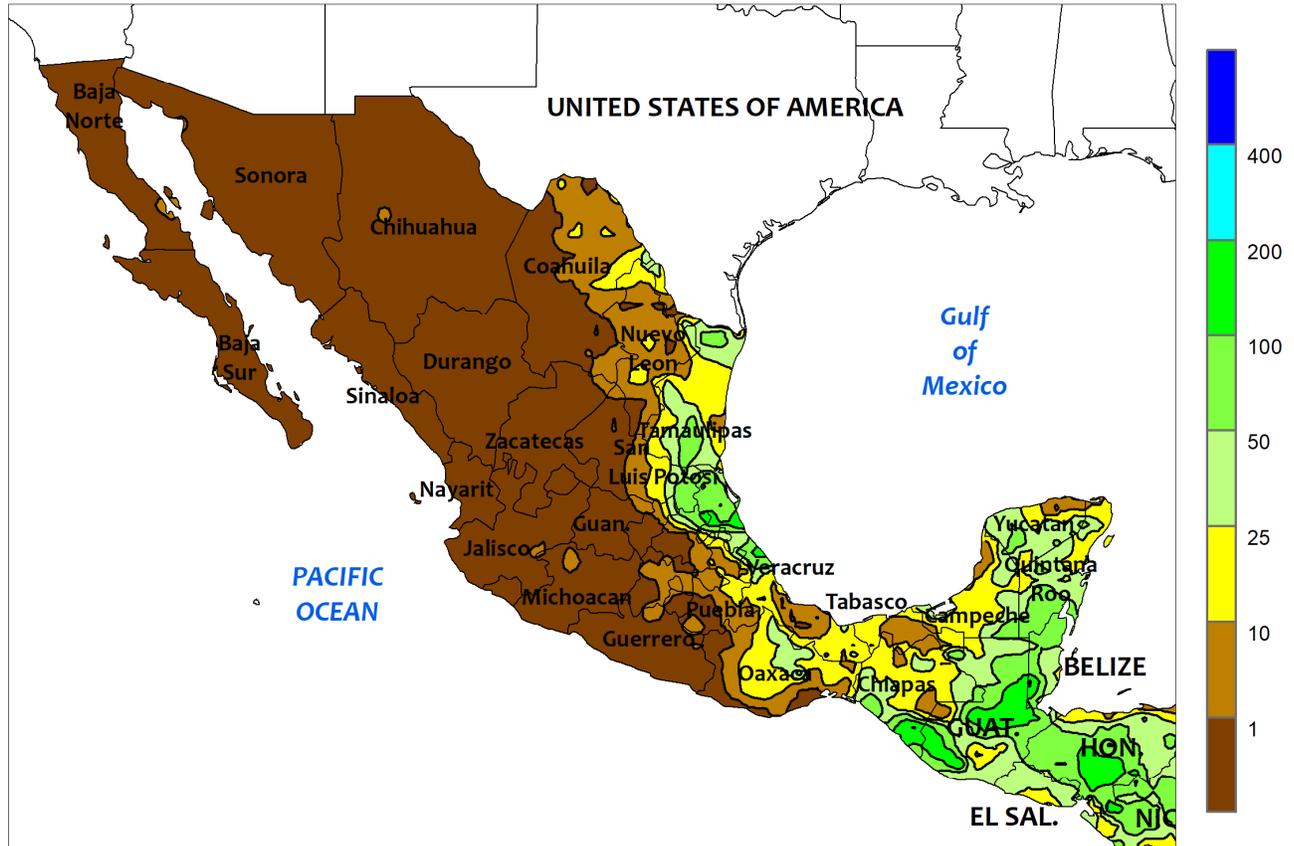


BRAZIL

Beneficial rain continued for a second week in previously dry sections of southern Brazil, providing much-needed moisture for immature corn and emerging wheat. Rainfall totaling 10 to 25 mm covered a large area stretching from southern Sao Paulo southward through Rio Grande do Sul into Uruguay. Generally warm conditions (daytime highs reaching the upper 20s and lower 30s degrees C) accompanied the moisture, though many locations reported nighttime temperatures dropping below 10°C. According to the government of Parana, second-crop corn was 72 percent reproductive to

filling as of May 18, with an additional 8 percent having reached maturity; wheat was 47 percent planted and also benefited from the moisture. Aside from some widely scattered showers (locally totaling more than 10 mm), mostly dry weather prevailed elsewhere, including major corn- and cotton-producing farmlands in the Center-West and northeastern interior regions (Mato Grosso and Mato Grosso do Sul northeastward to western Bahia and environs). Seasonable warmth (daytime highs reaching the middle 30s) fostered rapid development of crops in those regions as well.

MEXICO
Total Precipitation (mm)
May 17 - 23, 2020



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

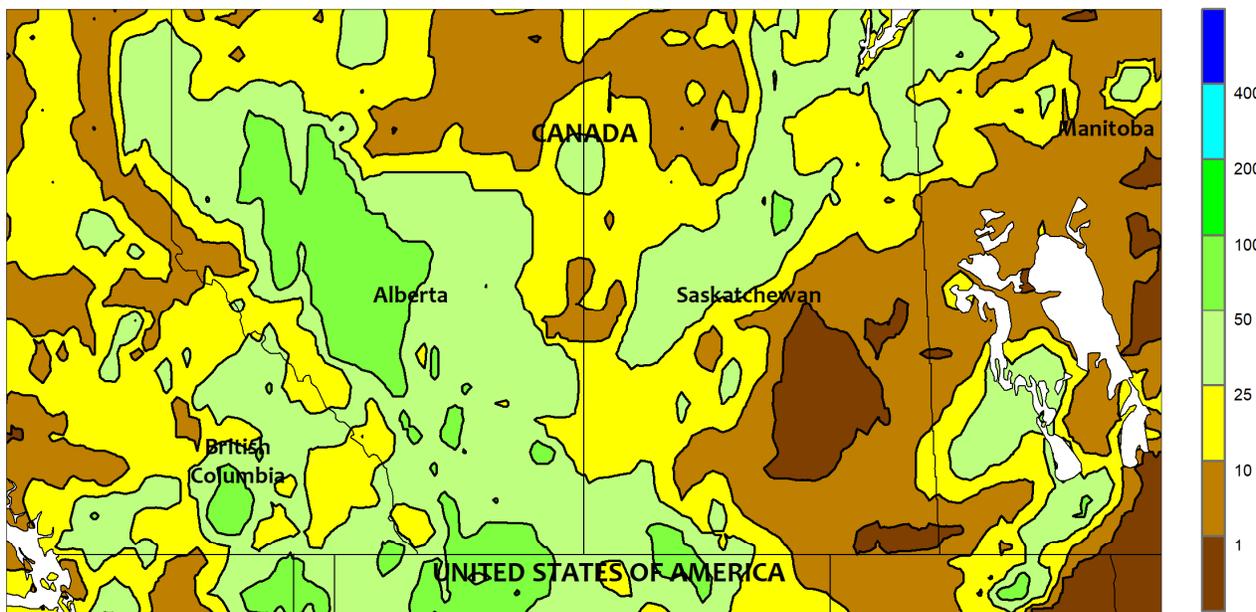


MEXICO

For a second week, drier-than-normal weather dominated key southern production areas, limiting moisture for rain-fed summer crops. Little to no rain fell across the southern plateau (Jalisco to Puebla), where many farmers were awaiting the start of seasonal rainfall to begin planting corn. Showers were also scattered and generally light (only locally exceeding 25 mm) in the southeast, including Tabasco and Campeche. In contrast to the southern dryness, locally heavy rain (10-50 mm, locally

approaching 100 mm) developed from northern Veracruz to northern Tamaulipas, increasing moisture for sugarcane, soybeans, and other summer crops needing moisture for early season growth. Meanwhile, warm, sunny weather promoted rapid drydown and harvesting of maturing wheat and corn in the northwest, though periodic heat (temperatures reaching 40°C in spots) maintained generally high water requirements for livestock across most of northern Mexico.

CANADIAN PRAIRIES
Total Precipitation (mm)
May 17 - 23, 2020



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

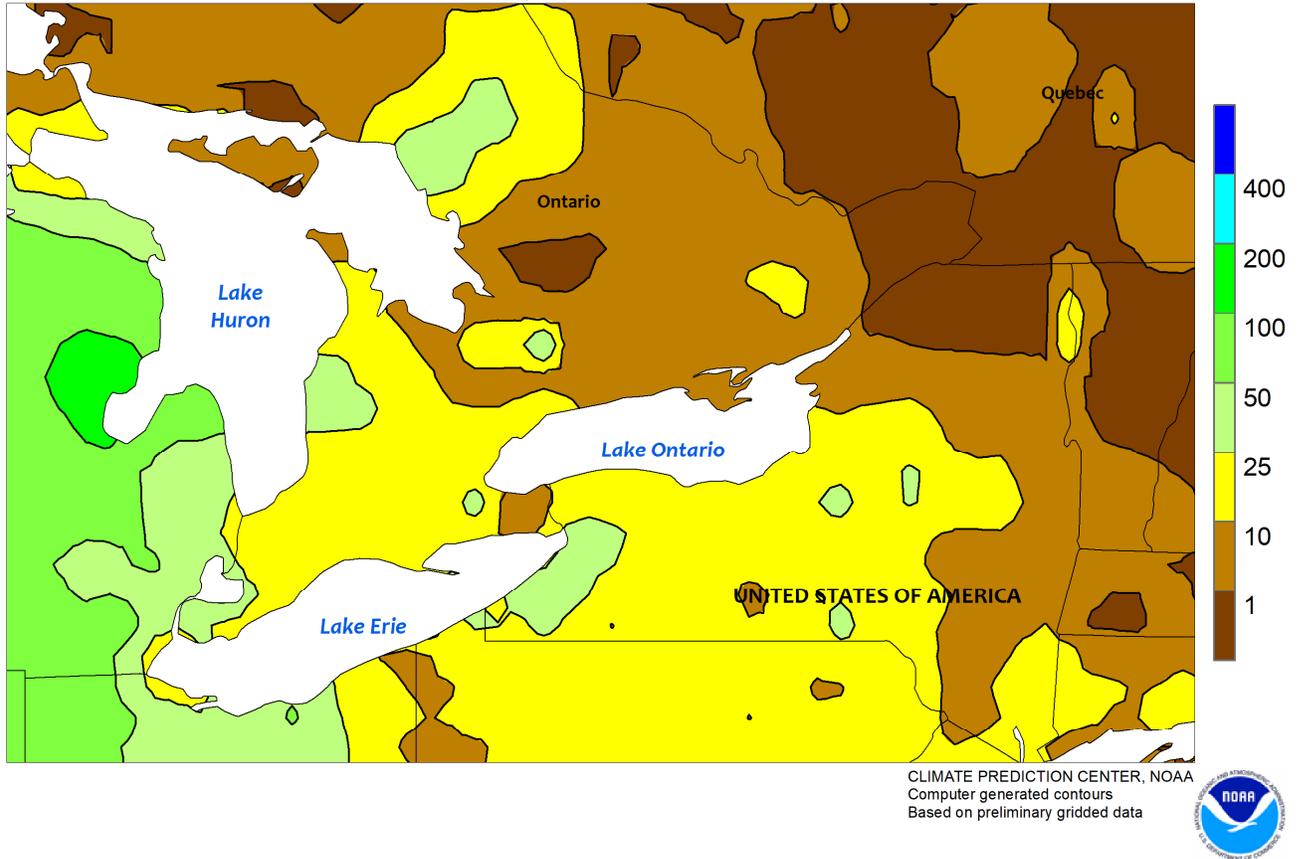


CANADIAN PRAIRIES

Wet weather disrupted fieldwork in western growing areas but generally drier and warm conditions spurred activities in the east. Rainfall totaling 10 to 80 mm covered a broad area spanning most of Alberta and western Saskatchewan. According to the government of Alberta, some eastern locations were in need of the rain, but the moisture added to already excessive levels farther north; as of May 19, Albertan crops were 62 percent planted, slightly ahead of the 5-year average pace (59 percent). Farmers in Saskatchewan also made good progress the prior week, equaling their 5-year average pace of 51 percent on May

18. Aside from a few pockets of rain in Manitoba, lighter amounts (mostly below 5 mm) were recorded in the eastern production districts. Unseasonable warmth (daytime highs reaching 30°C locally) accompanied the drier eastern conditions, helping to warm topsoils for more rapid germination of spring grains and oilseeds. Prairie-wide, nighttime lows continued to fall below 5°C but no widespread freeze was recorded. The government of Manitoba reported a planting completion rate of 42 percent as of May 19, still lagging last year (50 percent) and the 3-year average (55 percent).

SOUTHEASTERN CANADA
Total Precipitation (mm)
May 17 - 23, 2020



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

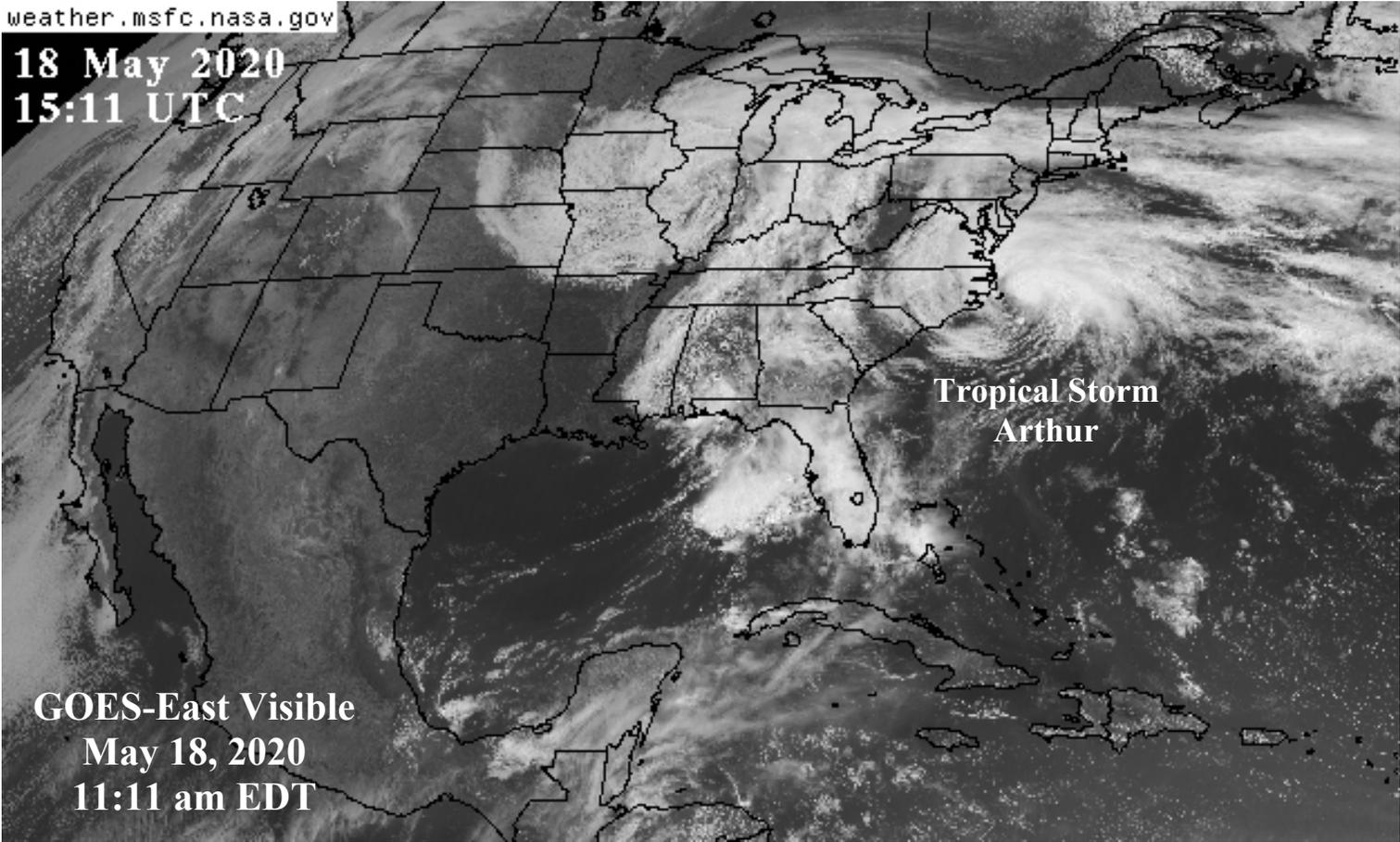


SOUTHEASTERN CANADA

Warmer weather spurred growth of emerging summer crops, winter wheat, and pastures across much of the region. Weekly temperatures averaged up to 2°C above normal in Quebec and large portions of Ontario, with daytime highs reaching the upper 20s and lower 30s (degrees C) in most farming areas not bordering the Great Lakes. Many of these areas recorded little to no rain, likely encouraging planting in some of the heavier soils. Somewhat milder (highs reaching the middle 20s), showery weather prevailed in

Ontario's southwestern farming areas, where rainfall totaled 10 to 25 mm. Frost was possible in some of the cooler locations (nighttime lows dropping into the low single digits) but no widespread freeze was reported. According to the government of Ontario, wheat had reached the flag leaf stage in southwestern farming areas and was mostly in or nearing stem elongation elsewhere as of May 18; additionally, crop damage from last week's freeze was reportedly less than expected.

18 May 2020
15:11 UTC



GOES-East Visible
May 18, 2020
11:11 am EDT

This visible satellite image from May 18 showcased a complex weather pattern across the central and eastern U.S., featuring a slow-moving storm system in the Midwest; Tropical Storm Arthur near North Carolina’s Outer Banks; and a strong high-pressure system (highlighted by mostly clear skies) over southeastern Canada. While Arthur merely grazed the North Carolina coastline, the Midwestern storm induced record flooding in parts of Michigan and northern Illinois before contributing to heavy showers and flooding in parts of Virginia and the Carolinas.

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: bripppey@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 Luebehusen

National Agricultural Statistics Service

Agricultural Statistician and State Summaries Editor.....

Irwin Anolik (202) 720-7621

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).