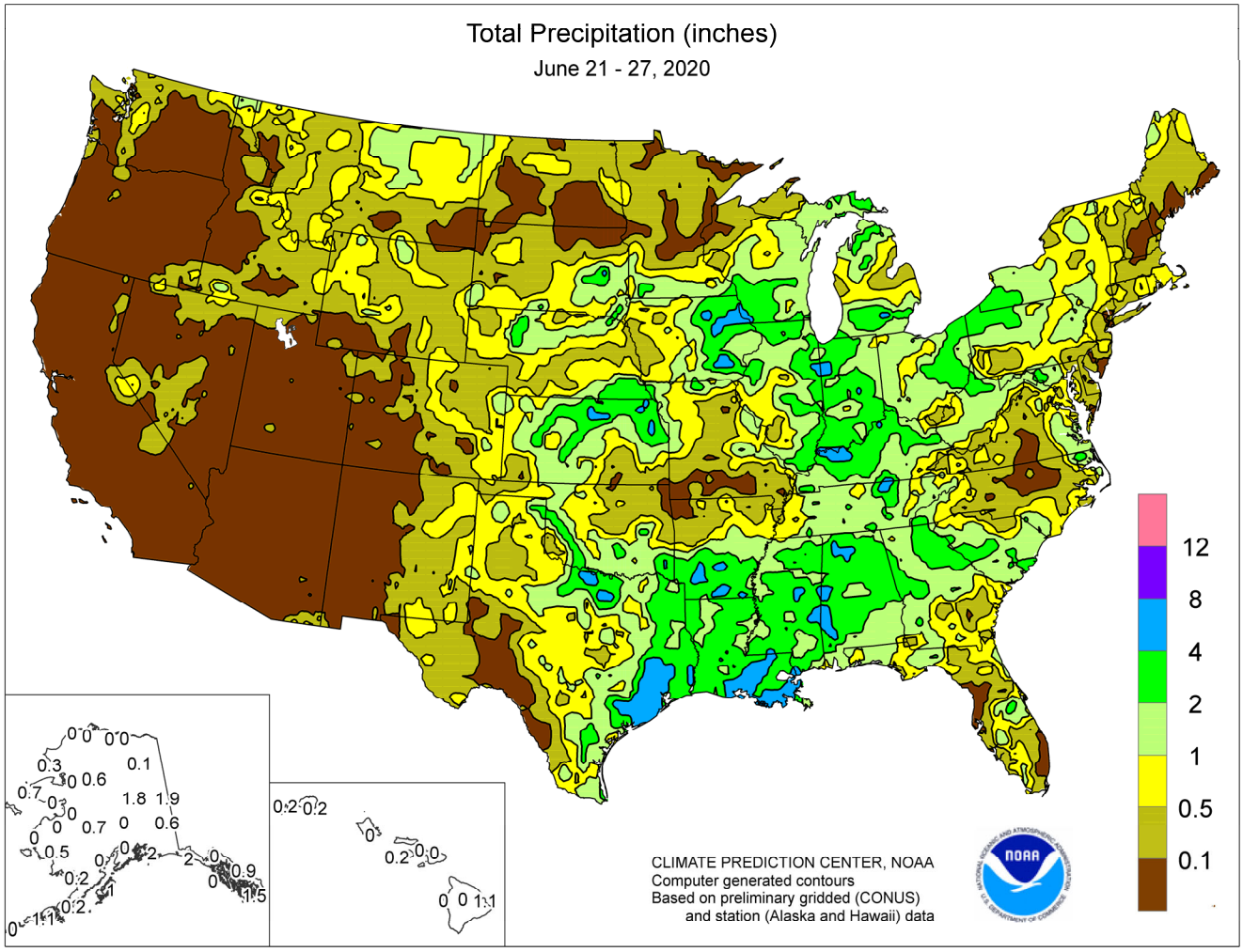
Volume 107, No. 26 http://www.usda.gov/oce/weather June 30, 2020

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
June 21 – 27, 2020

Highlights provided by USDA/WAOB

Scattered to widespread showers in most areas from the **Plains to the East Coast** contrasted with mostly dry weather in the **West**. **Midwestern** showers were heaviest across the **central and eastern Corn Belt**, benefiting summer crops that had begun to experience stress due to declining soil moisture. Showers also dotted the **nation's mid-section**, but drought-affected rangeland, pastures, and rain-fed summer crops across the **central and southern High Plains** experienced only limited and localized improvement due to uneven rainfall coverage, building

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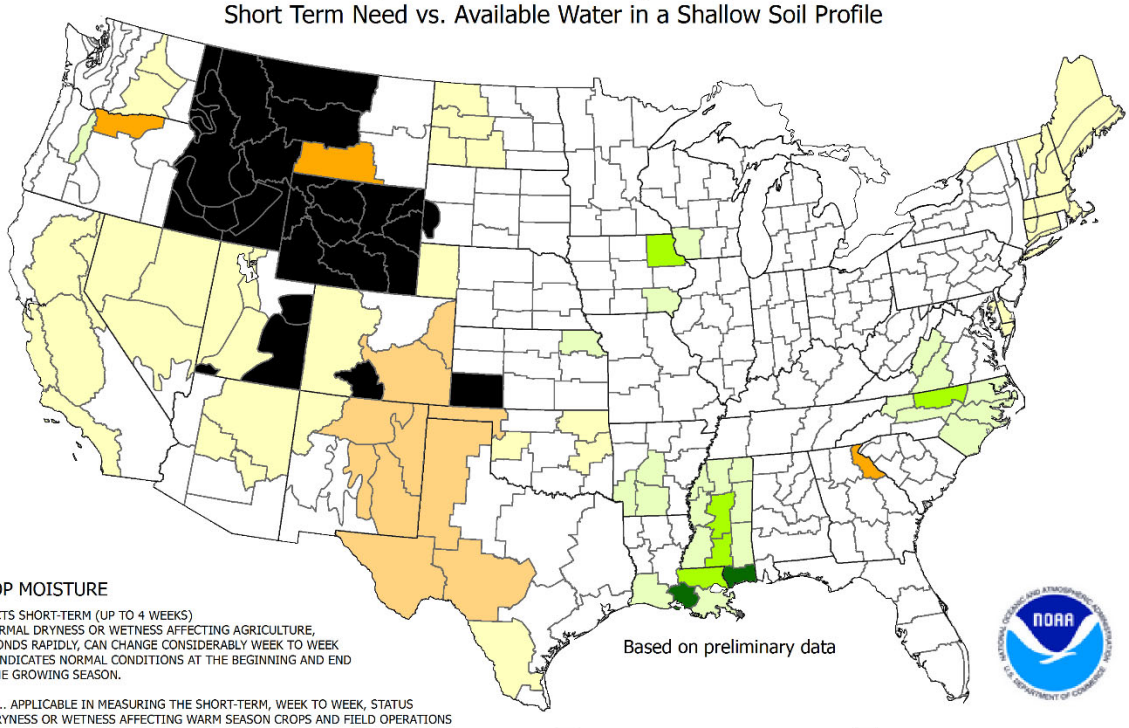
Crop Moisture Index by Division
Weekly Value for Period Ending Jun 27, 2020
Short Term Need vs. Available Water in a Shallow Soil Profile



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

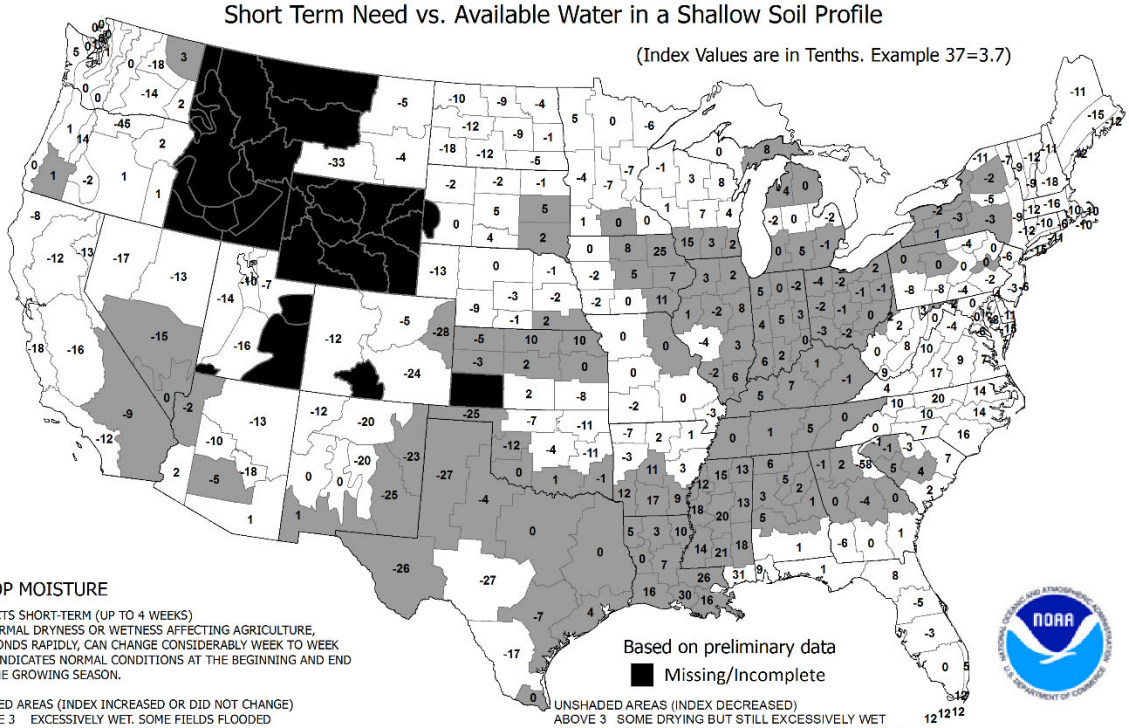
LIMITATIONS... MAY NOT BE APPLICABLE TO GERMINATING AND SHALLOW ROOTED CROPS WHICH ARE UNABLE TO EXTRACT THE DEEP OR SUBSOIL MOISTURE FROM A SHALLOW SOIL PROFILE,OR FOR COOL SEASON CROPS GROWING WHEN TEMPERATURES ARE AVERAGING BELOW ABOUT 55F.IT IS NOT GENERALLY INDICATIVE OF THE LONG-TERM (MONTHS, YEARS) 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

Crop Moisture Index by Division
Weekly Value for Period Ending Jun 27, 2020
Short Term Need vs. Available Water in a Shallow Soil Profile

(Index Values are in Tenths. Example 37=3.7)



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Based on preliminary data

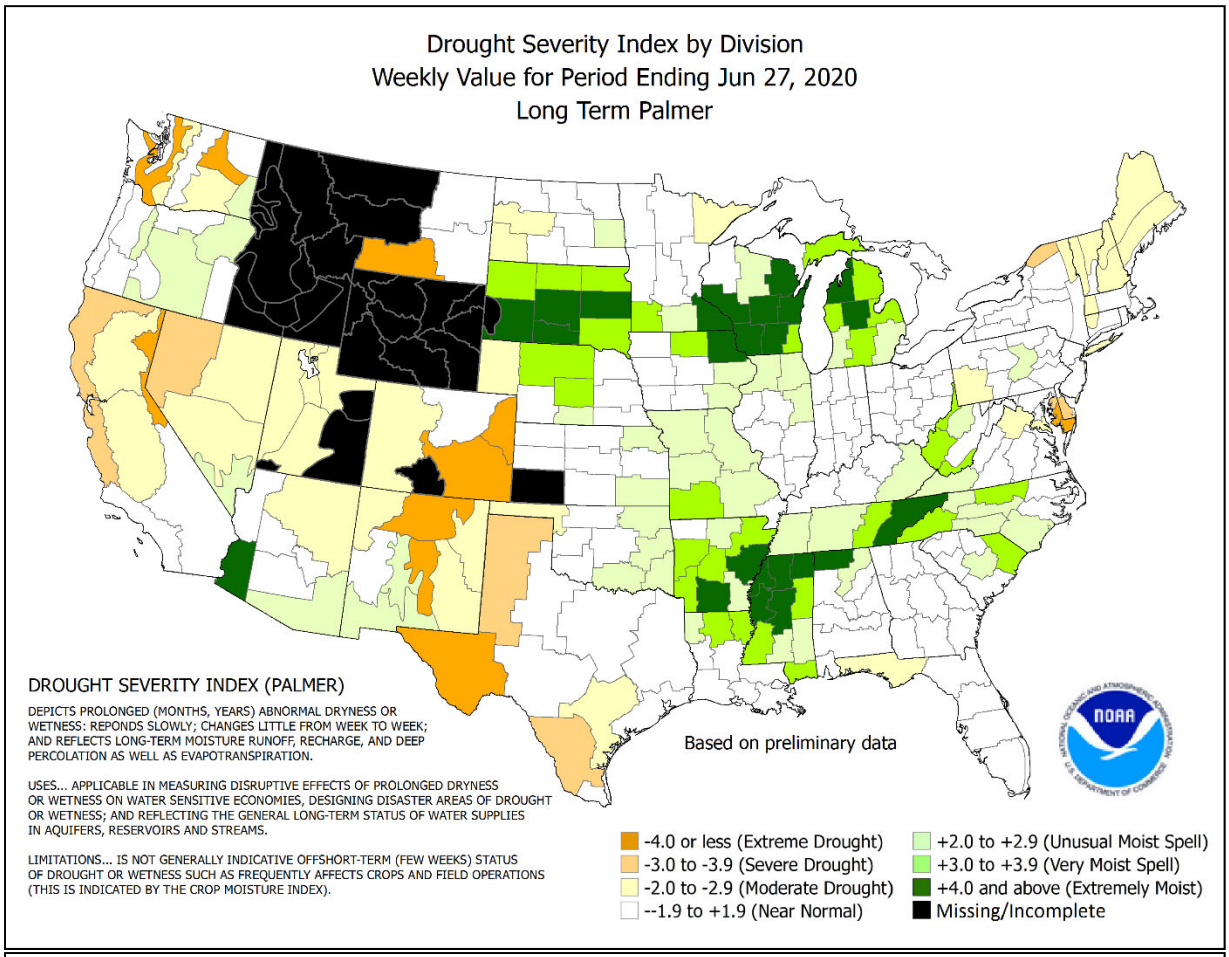
Missing/Incomplete

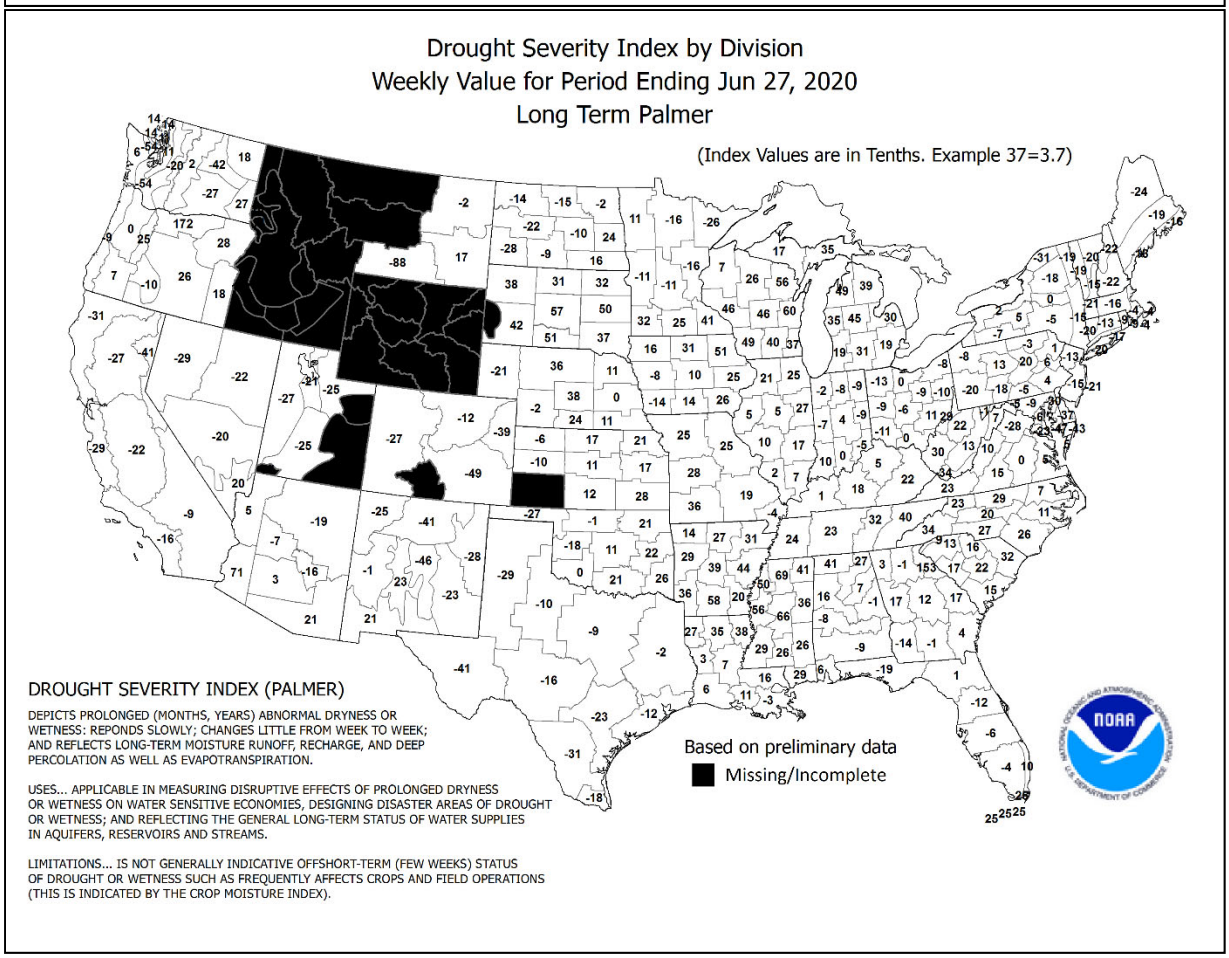
SHADED AREAS (INDEX INCREASED OR DID NOT CHANGE)

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

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


Drought Severity Index by Division
Weekly Value for Period Ending Jun 27, 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
NOAA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Weekly Value for Period Ending Jun 27, 2020
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(Index Values are in Tenths. Example 37=3.7)
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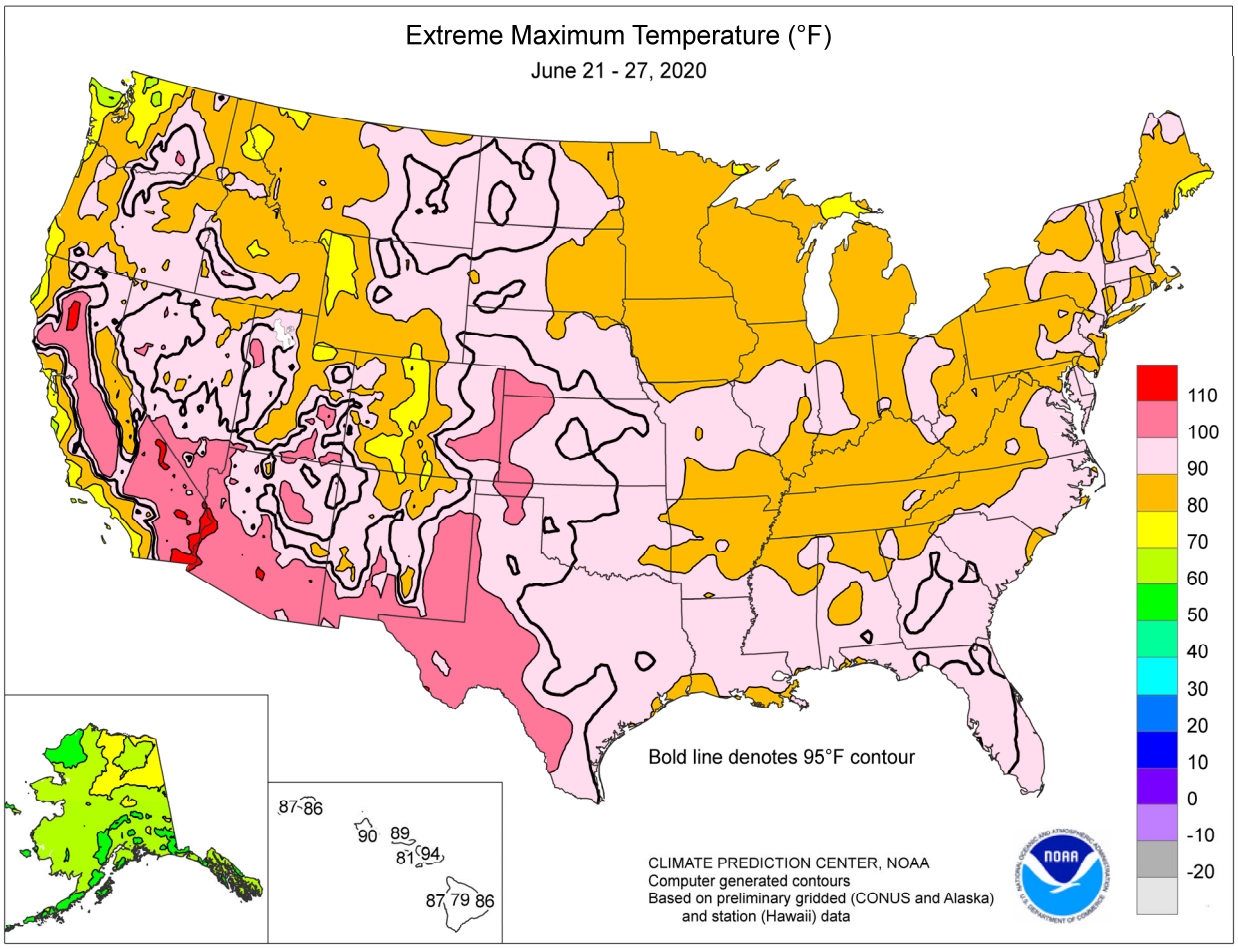
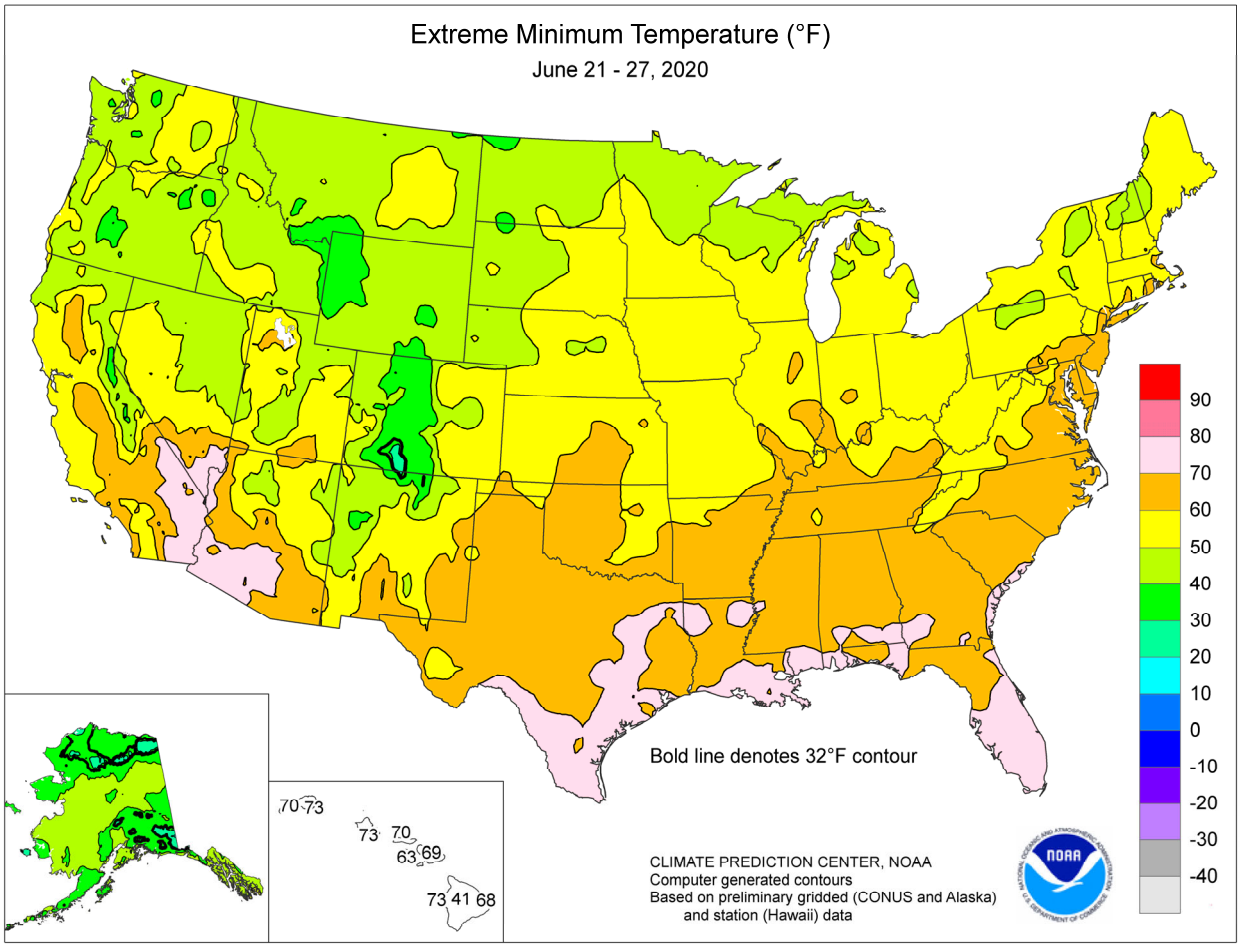
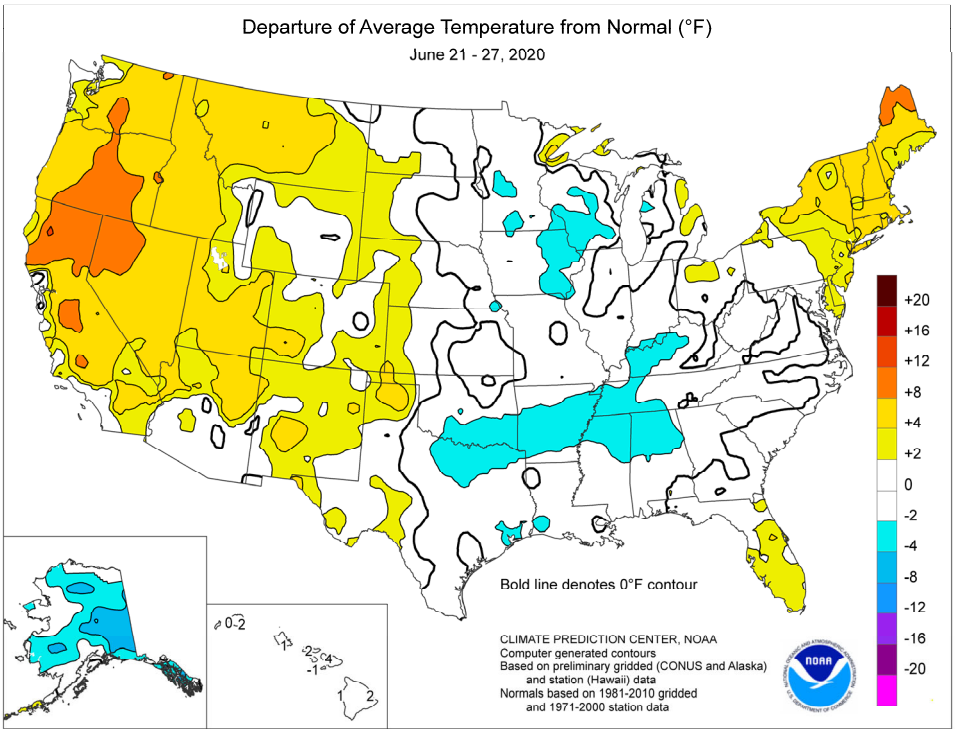

Extreme Maximum Temperature (°F)
June 21 - 27, 2020
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
87 86
90 89
81 94
87 79 86
Bold line denotes 95°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS and Alaska)
and station (Hawaii) data
NOAA


Extreme Minimum Temperature (°F)
June 21 - 27, 2020
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
70 73
73 70
63 69
73 41 68
Bold line denotes 32°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS and Alaska)
and station (Hawaii) data
NOAA

(Continued from front cover)

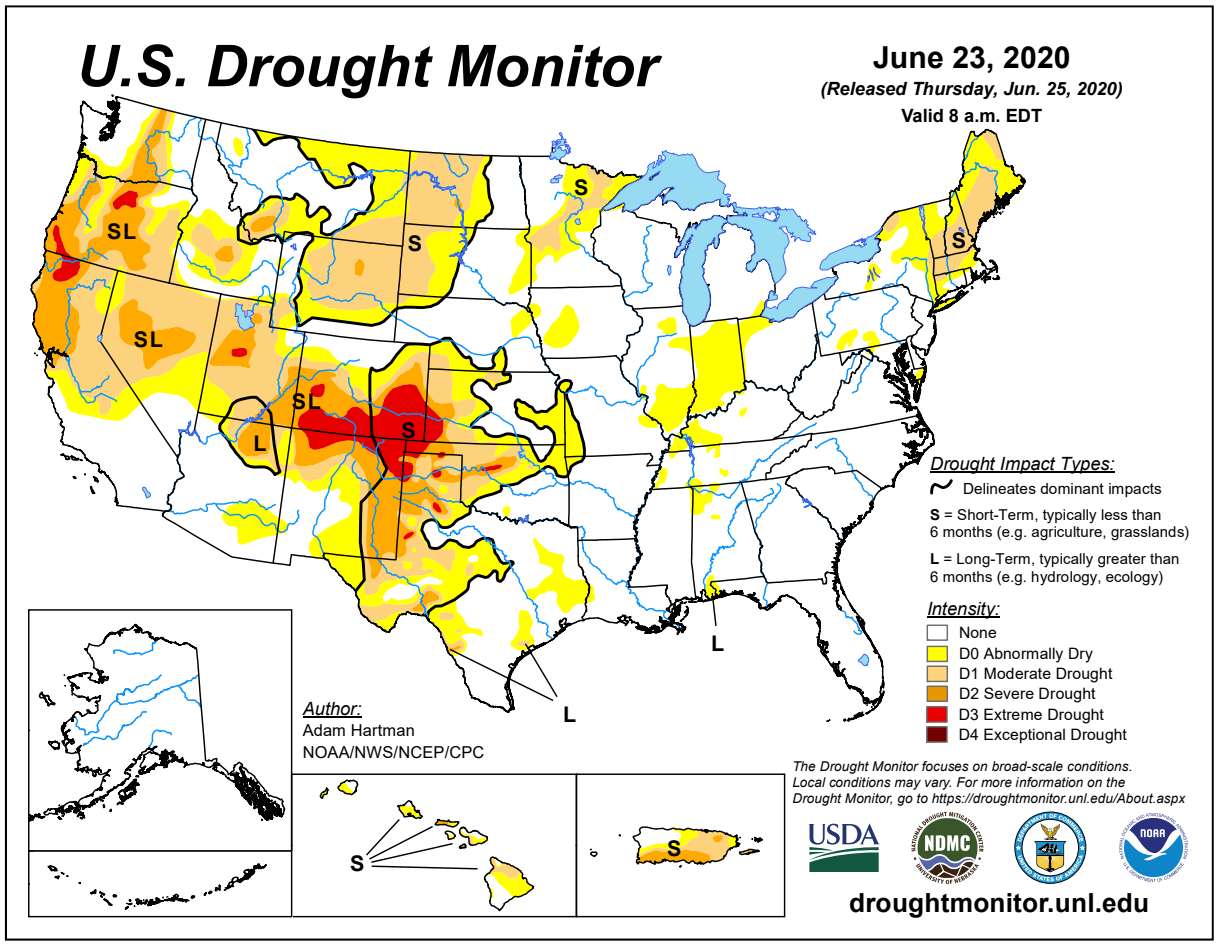
heat, and high evaporation rates. Rainfall was even more scarce in several areas, including **New England**, the **southern Atlantic region**, and the **upper Midwest**. Elsewhere, hot, dry weather in the **West** favored fieldwork and winter wheat maturation, but further reduced soil moisture reserves and increased stress on rangeland and pastures. In fact, weekly temperatures averaged at least 10°F above normal at several locations across **northern California**, the **northern Great Basin**, and the **Northwest**, while near- or slightly below-normal temperatures dominated the **eastern half of the country**. Notable exceptions included **southern Florida** and the **Northeast**. In **New England**, mostly dry weather and temperatures averaging at least 5°F above normal in many locations led to further drought development and intensification.

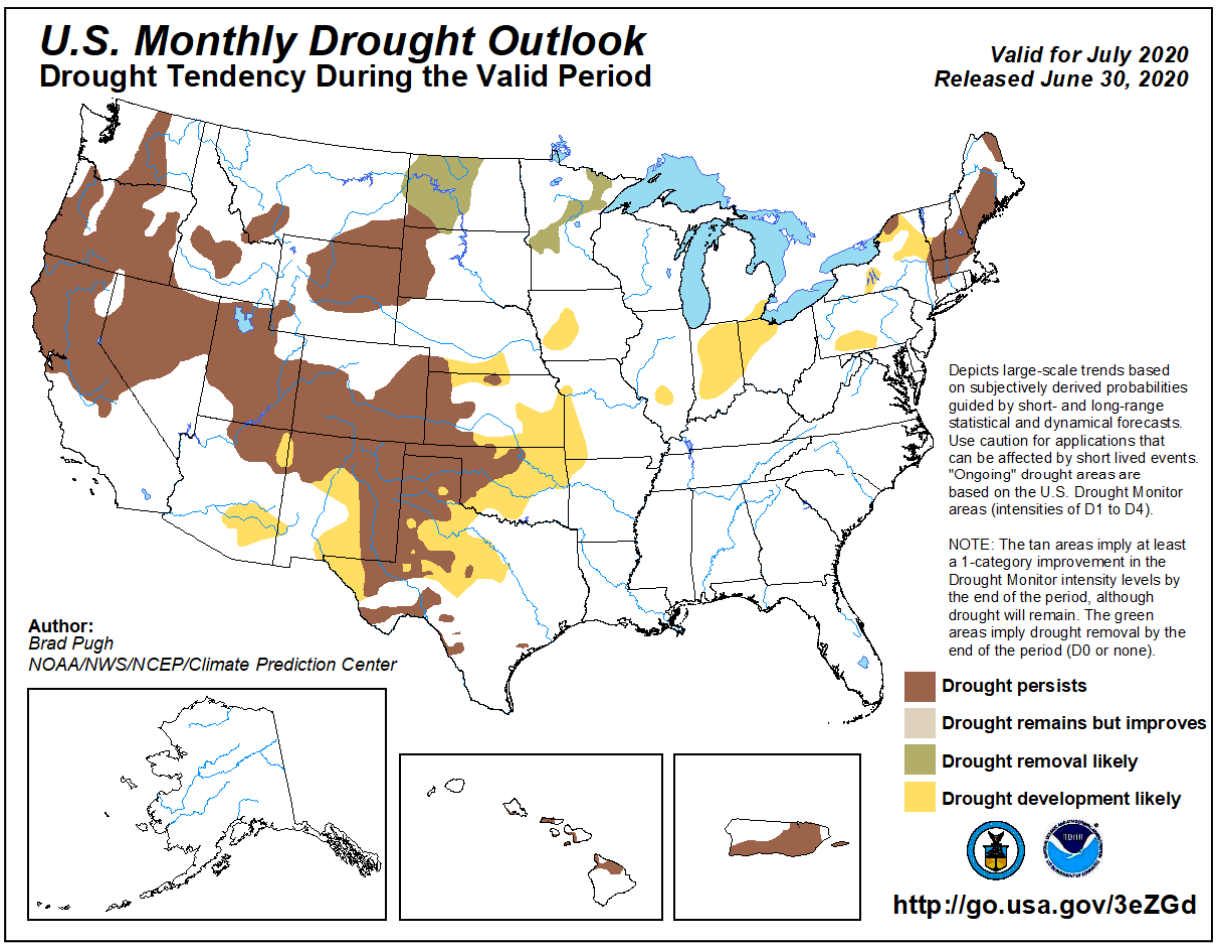


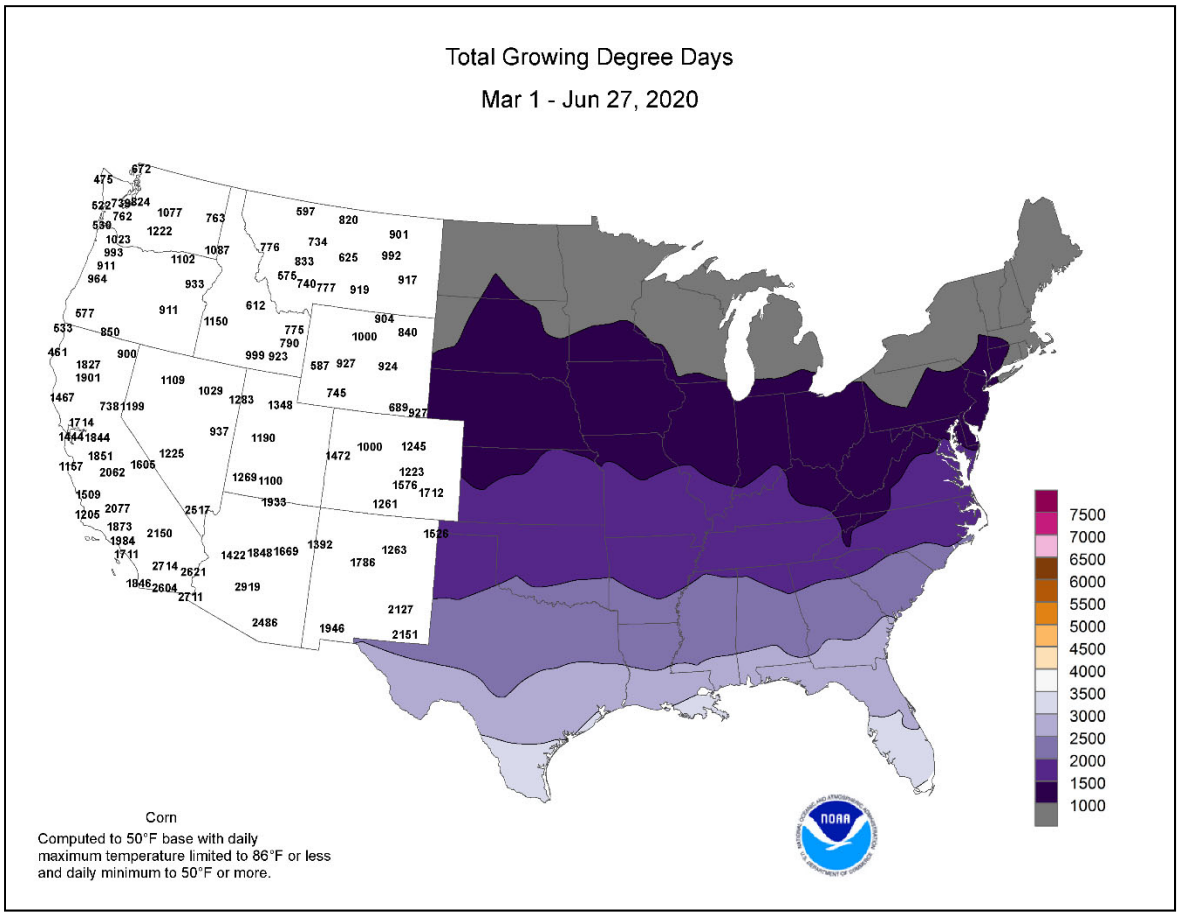
Locally heavy showers and thunderstorms lingered early in the week across the **southern Plains**, where **Wichita Falls, TX**, measured 4.13 inches from June 19-23. More than half (2.31 inches) of **Wichita Falls'** rain occurred on June 21. Farther east, rainfall was heaviest across the **western and central Gulf Coast regions**. **Dallas-Fort Worth, TX**, collected a record-setting sum (2.49 inches) for June 23. The following day, record-setting totals reached 3.34 inches in **Baton Rouge, LA**, and 2.29 inches in **Victoria, TX**. Meanwhile, a slow-moving storm system delivered heavy rain in parts of the **Great Lakes region**. In **Michigan**, daily-record totals for June 23 included 2.28 inches in **Sault Sainte Marie** and 1.49 inches in **Houghton Lake**. Late in the week, a cold front arriving in the **Midwest** produced locally heavy showers, mainly in the **central and eastern Corn Belt**. **Chicago, IL**, netted a daily-record sum (1.55 inches) for June 26. The next day, June 27 featured a record-setting total of 2.26 inches in **Evansville, IN**. Elsewhere, thunderstorms resulted in local wind damage in various parts of the country. For example, wind gusts on June 27 were clocked to 60 mph in **Grand Junction, CO**, and 56 mph in **Orangeburg, SC**.

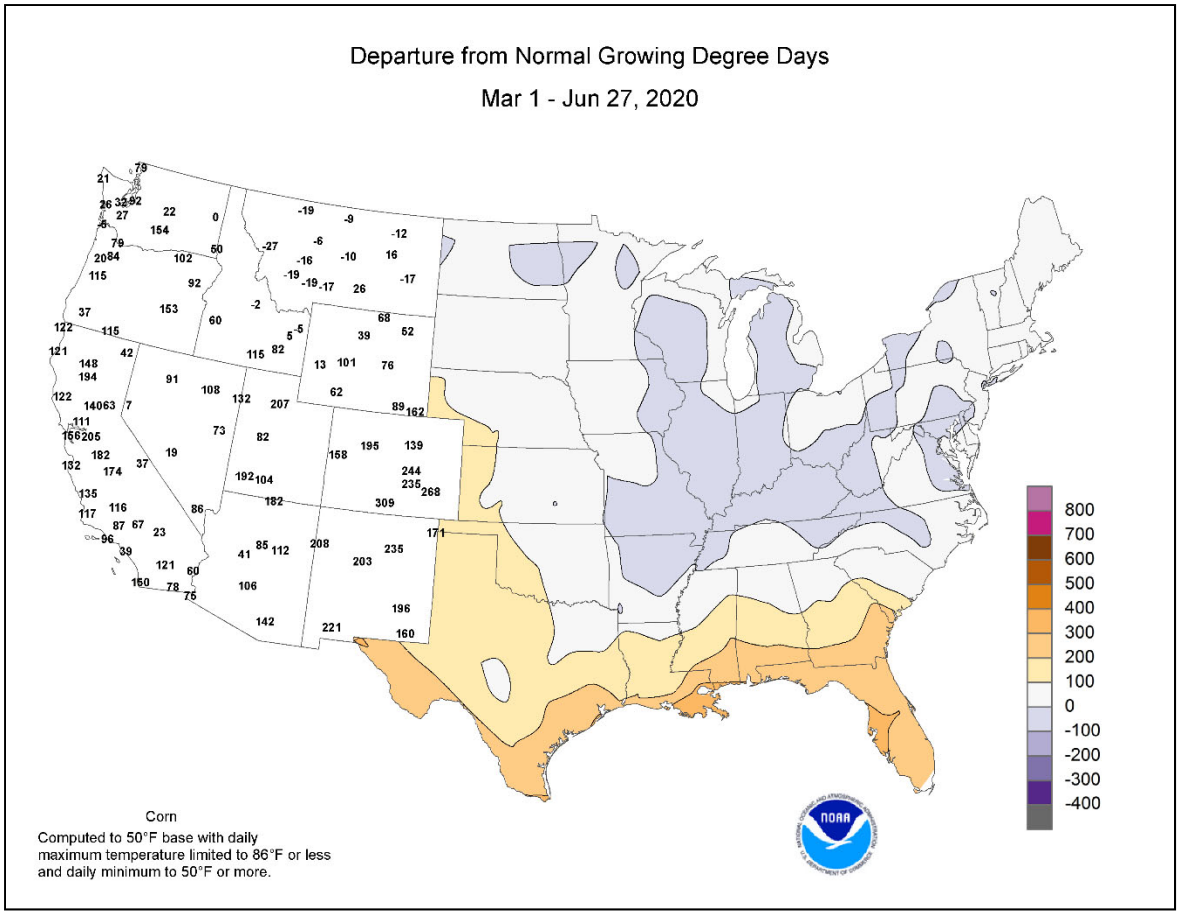
A major **Saharan** Air Layer (SAL) dust event engulfed the **Caribbean**, including **Puerto Rico** and the **U.S. Virgin Islands**, resulting in suppressed rainfall, low visibilities, and poor air quality. In **Puerto Rico** and the **U.S. Virgin Islands**, the SAL dust concentration generally peaked from June 20-24. Despite the dust and haze, **Rohlsen Airport** (on **Saint Croix, VI**) remained on track to experience its hottest June on record, with an average temperature of 85.7°F through the 29th. **Rohlsen Airport's** highest June average temperature of 85.6°F was established in 1980. **Saharan** dust reached the **Gulf Coast region of the U.S. mainland** late in the week, producing hazy conditions. Farther north, impressive heat engulfed the **Northeast**. From June 16-28, **Caribou, ME**, reported an all-time-record 13 consecutive days with a high of 80°F or greater (previously, 10 days in a row from August 14-23, 2015). **Caribou** also achieved a June record with 14 days of 80-degree warmth (previously, 13 days in 1976). Elsewhere in **northern New England**, **Burlington, VT**, posted consecutive daily-record highs of 96°F on June 22-23. On those dates, **Massena, NY**, also collected consecutive daily-record highs (93 and 92°F, respectively). Meanwhile, heat developed across much of the **West**. On June 22, **Redding, CA**, reported a daily-record high of 109°F, topping that value 4 days later with a reading of 112°F. Other **Western** daily-record highs included 104°F (on June 24) in **Winslow, AZ**; 99°F (on June 23) in **Reno, NV**; and 97°F (on June 23) in **Roseburg, OR**. **Florida's peninsula** also remained hot, with **Leesburg** notching consecutive daily-record highs (98 and 99°F, respectively) on June 26-27. **Tampa, FL**, tied a monthly and all-time-record high with a reading of 99°F on June 26—previously attained on June 5, 1985.

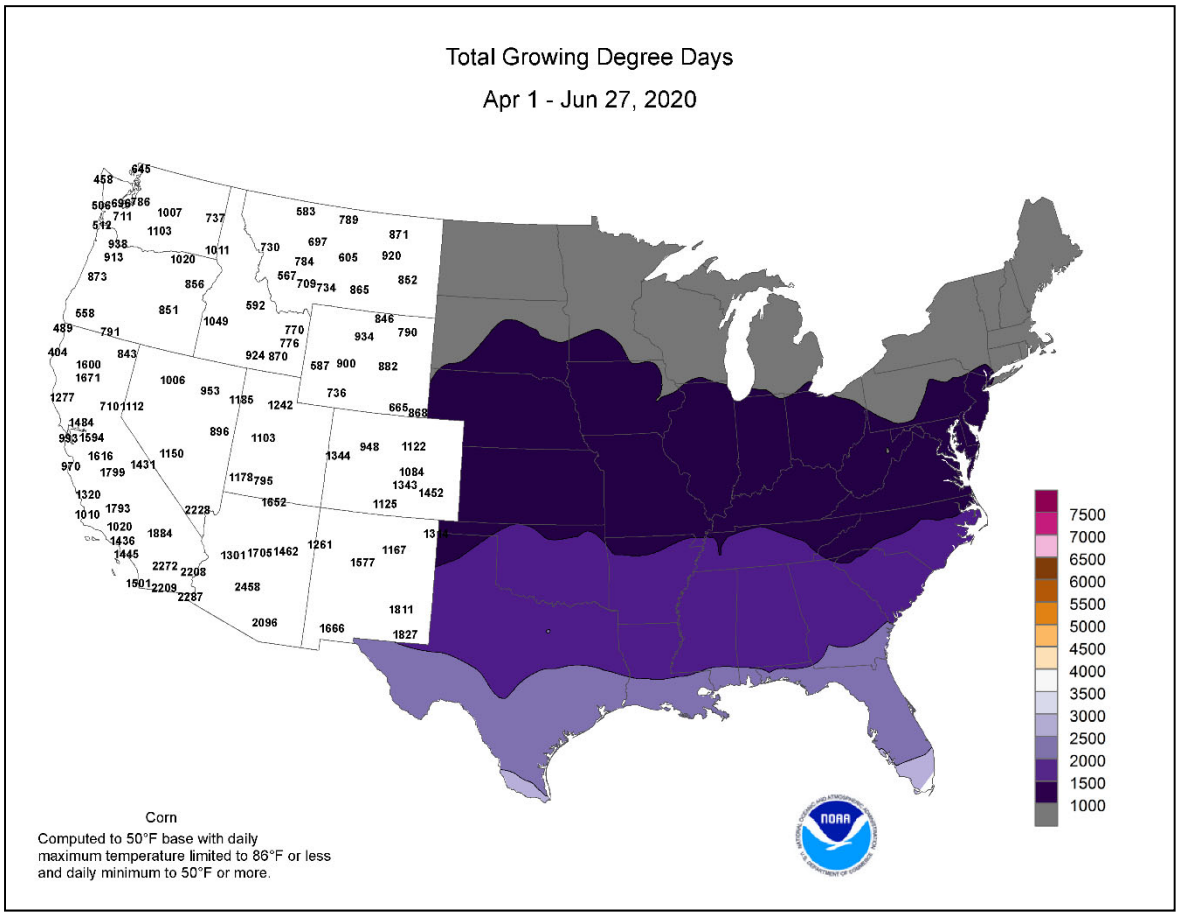
Unusually heavy precipitation fell in parts of **Alaska**, while near- or below-normal temperatures dominated the state. **Fairbanks** netted a daily-record rainfall total of 1.13 inches on June 21—the wettest day in that location since August 2, 2019, when 1.27 inches fell. It was also **Fairbanks'** wettest June day since June 27, 1981, when rainfall also totaled 1.27 inches. Late in the week, another round of precipitation delivered daily-record amounts for June 27 in **western Alaska** locations such as **Nome** (0.55 inch) and **Kotzebue** (0.34 inch). In **McGrath**, measurable rain fell each day from June 19-28, totaling 1.63 inches during the 10-day period. At week's end, warmth developed along the **Arctic Coast**, where **Utqiaġvik**—formerly known as **Barrow**—notched a daily-record high of 63°F on June 27. Farther south, **Hawaii's** leeward areas remained very warm and mostly dry. On **Maui**, **Kahului's** streak without measurable rain stretched to 50 days (May 9 – June 27). **Kahului** also posted a daily-record high of 94°F on June 25. Meanwhile on the **Big Island**, **Hilo** reported measurable rain on each of the first 26 days of the month, followed by a dry day on June 27. Despite the frequent showers, **Hilo's** June 1-27 rainfall totaled just 4.43 inches (68 percent of normal).

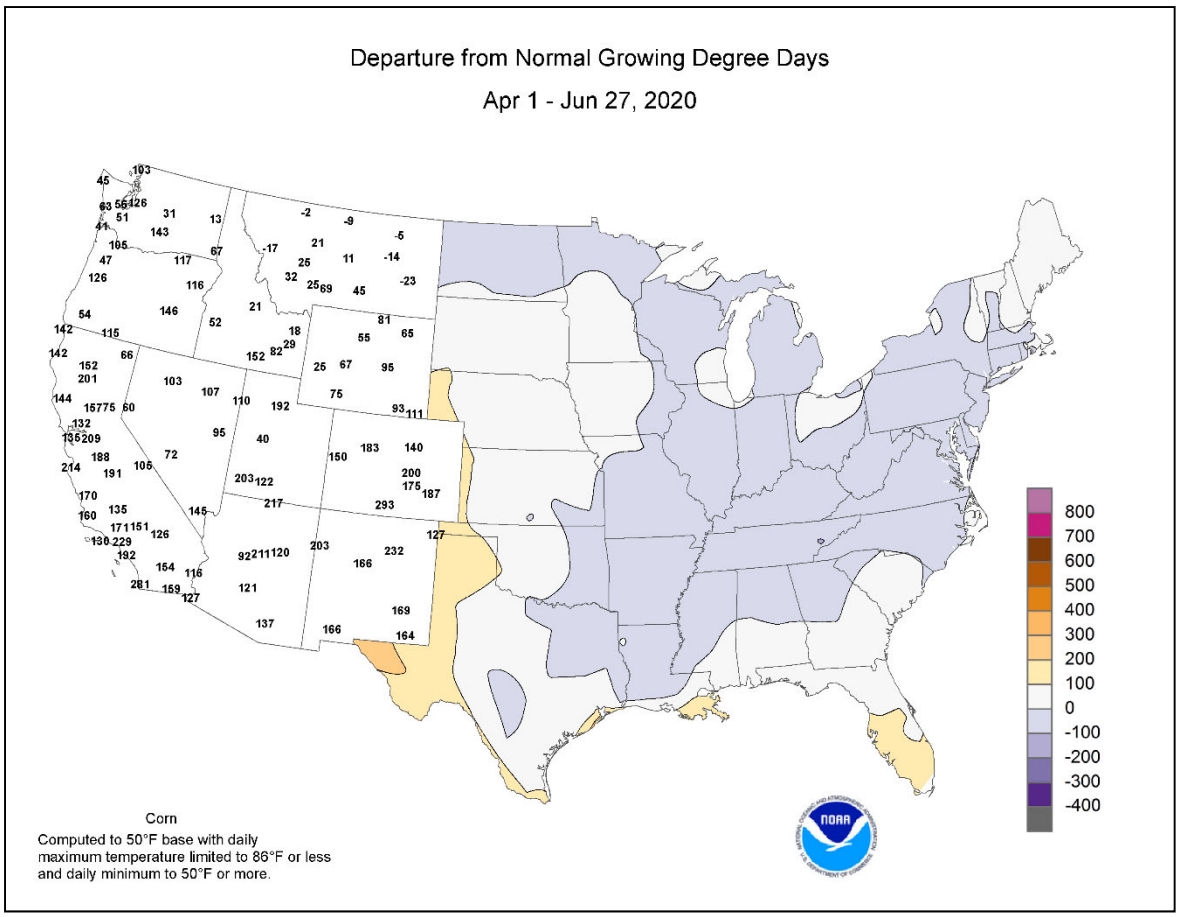

U.S. Drought Monitor
June 23, 2020
(Released Thursday, Jun. 25, 2020)
Valid 8 a.m. EDT
SL
S
L
Drought Impact Types:
Delineates dominant impacts
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)
Intensity:
None
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought
Author:
Adam Hartman
NOAA/NWS/NCEP/CPC
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
USDA
NDMC
NOAA
droughtmonitor.unl.edu


U.S. Monthly Drought Outlook
Drought Tendency During the Valid Period
Valid for July 2020
Released June 30, 2020
Author:
Brad Pugh
NOAA/NWS/NCEP/Climate Prediction Center
Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).
Drought persists
Drought remains but improves
Drought removal likely
Drought development likely
http://go.usa.gov/3eZGd


Total Growing Degree Days
Mar 1 - Jun 27, 2020
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
Corn
Computed to 50°F base with daily maximum temperature limited to 86°F or less and daily minimum to 50°F or more.


Departure from Normal Growing Degree Days
Mar 1 - Jun 27, 2020
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400
Corn
Computed to 50°F base with daily maximum temperature limited to 86°F or less and daily minimum to 50°F or more.


Total Growing Degree Days
Apr 1 - Jun 27, 2020
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000
Corn
Computed to 50°F base with daily maximum temperature limited to 86°F or less and daily minimum to 50°F or more.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Apr 1 - Jun 27, 2020
800
700
600
500
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100
0
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-300
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Computed to 50°F base with daily maximum temperature limited to 86°F or less and daily minimum to 50°F or more.

National Weather Data for Selected Cities

Weather Data for the Week Ending June 27, 2020

Data Provided by Climate Prediction Center

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 JUN 1	PCT. NORMAL SINCE JUN 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	86	69	91	67	78	-2	3.00	1.95	0.92	4.04	103	28.10	151	92	60	2	0	5	3
	HUNTSVILLE	83	69	88	68	76	-4	1.79	0.77	0.70	2.75	71	25.20	136	95	64	0	0	6	1
	MOBILE	88	73	90	70	80	-1	1.04	-0.52	0.47	9.78	180	19.92	92	98	59	3	0	3	0
	MONTGOMERY	89	71	93	70	80	-1	2.01	0.90	1.15	5.70	160	20.43	120	93	59	3	0	4	2
AK	ANCHORAGE	63	51	66	50	57	0	0.07	-0.18	0.04	0.55	61	4.03	148	75	46	0	0	3	0
	BARROW	44	33	63	30	39	0	0.17	0.07	0.11	0.19	62	1.96	240	93	71	0	2	3	0
	FAIRBANKS	64	50	71	47	57	-6	1.42	1.04	0.99	2.92	243	4.67	190	89	53	0	0	4	1
	JUNEAU	57	49	67	47	53	-3	1.54	0.78	0.71	7.05	245	17.20	133	94	69	0	0	6	1
	KODIAK	56	47	62	41	52	0	0.97	-0.31	0.58	5.37	99	12.57	56	88	67	0	0	5	1
	NOME	55	44	70	35	49	-1	0.61	0.35	0.43	0.67	75	5.91	184	87	57	0	0	5	0
AZ	FLAGSTAFF	85	50	88	45	67	5	0.00	-0.11	0.00	0.00	0	5.51	129	36	10	0	0	0	0
	PHOENIX	109	82	111	81	96	3	0.00	0.00	0.00	0.00	0	2.06	142	22	6	7	0	0	0
	PRESCOTT	92	59	95	57	76	3	0.00	-0.12	0.00	0.00	0	4.03	165	35	7	5	0	0	0
	TUCSON	106	74	109	70	90	3	0.00	-0.08	0.00	0.05	29	0.84	55	22	6	7	0	0	0
AR	FORT SMITH	89	69	92	65	79	-1	0.07	-0.87	0.03	0.67	17	19.51	111	93	46	5	0	3	0
	LITTLE ROCK	87	68	90	64	77	-4	2.54	1.74	1.49	4.75	144	22.27	123	96	56	1	0	4	2
CA	BAKERSFIELD	102	75	105	69	88	8	0.00	-0.01	0.00	0.02	20	4.48	217	45	19	7	0	0	0
	EUREKA	63	53	67	50	58	1	0.00	-0.11	0.00	0.47	64	8.28	74	93	83	0	0	0	0
	FRESNO	102	74	107	68	88	9	0.00	-0.02	0.00	0.00	0	4.00	107	55	18	7	0	0	0
	LOS ANGELES	71	62	72	61	66	0	0.00	-0.01	0.00	0.00	0	6.98	240	87	66	0	0	0	0
	REDDING	106	73	112	69	89	11	0.00	-0.07	0.00	0.00	0	11.20	119	63	15	7	0	0	0
	SACRAMENTO	96	61	99	59	79	6	0.00	-0.02	0.00	0.00	0	3.58	74	81	28	6	0	0	0
	SAN DIEGO	71	64	73	63	67	0	0.00	-0.01	0.00	0.06	76	6.04	213	81	65	0	0	0	0
	SAN FRANCISCO	72	57	76	55	64	1	0.00	-0.01	0.00	0.00	0	3.02	61	89	56	0	0	0	0
	STOCKTON	100	64	102	60	82	8	0.00	-0.01	0.00	0.00	0	3.18	83	74	25	7	0	0	0
CO	ALAMOSA	84	42	86	37	63	1	0.00	-0.14	0.00	0.17	38	0.71	33	73	11	0	0	0	0
	CO SPRINGS	87	55	95	52	71	3	0.08	-0.44	0.04	0.79	34	3.80	56	66	22	1	0	4	0
	DENVER INTL	89	56	96	52	72	2	0.10	-0.33	0.08	0.75	41	4.23	64	74	20	3	0	2	0
	GRAND JUNCTION	95	60	98	52	78	3	0.08	-0.02	0.08	0.48	109	2.33	72	41	10	7	0	1	0
	PUEBLO	94	57	101	55	76	3	0.09	-0.21	0.06	0.69	57	1.43	27	71	17	7	0	3	0
CT	BRIDGEPORT	86	68	91	64	77	6	0.88	0.21	0.88	1.53	46	11.99	78	88	42	1	0	1	1
	HARTFORD	89	63	94	57	76	5	0.40	-0.43	0.40	0.83	20	12.42	79	91	34	4	0	1	0
DC	WASHINGTON	89	71	93	66	80	2	0.02	-0.85	0.02	3.53	104	14.85	107	87	45	3	0	1	0
DE	WILMINGTON	86	67	88	64	77	2	0.90	-0.03	0.66	3.30	94	13.46	90	90	49	0	0	3	1
FL	DAYTONA BEACH	92	72	94	70	82	2	0.29	-1.11	0.16	4.36	82	11.44	77	100	56	6	0	3	0
	JACKSONVILLE	94	71	94	67	82	1	0.26	-1.36	0.26	9.37	163	18.74	126	95	48	7	0	1	0
	KEY WEST	91	84	92	82	87	4	0.00	-0.96	0.00	7.58	203	12.60	116	78	65	6	0	0	0
	MIAMI	93	82	95	79	88	5	0.01	-2.31	0.01	6.35	73	28.17	139	82	54	7	0	1	0
	ORLANDO	95	75	97	71	85	3	3.04	1.26	3.03	10.32	150	16.66	99	93	47	7	0	2	1
	PENSACOLA	89	75	90	72	82	0	1.29	-0.47	0.67	7.14	121	13.38	66	90	66	3	0	3	1
	TALLAHASSEE	93	71	96	67	82	1	0.62	-1.31	0.52	8.91	128	19.40	100	92	47	6	0	3	1
	TAMPA	94	79	99	76	86	4	0.00	-1.89	0.00	6.35	108	12.81	98	74	45	7	0	0	0
	WEST PALM BEACH	91	79	92	77	85	3	0.05	-1.85	0.05	4.84	64	17.17	84	88	61	6	0	1	0
GA	ATHENS	90	68	96	65	79	0	1.85	0.81	0.66	2.70	72	16.56	116	90	48	4	0	6	2
	ATLANTA	86	69	90	68	78	-1	0.78	-0.29	0.26	2.60	75	19.78	129	89	55	1	0	6	0
	AUGUSTA	92	70	95	66	81	1	1.69	0.61	0.85	2.37	55	19.72	141	94	45	6	0	5	2
	COLUMBUS	89	71	93	69	80	-1	1.29	0.35	0.52	4.48	135	21.15	136	91	54	2	0	6	1
	MACON	92	69	97	65	80	0	1.45	0.42	0.60	2.12	58	21.45	155	93	48	6	0	5	1
	SAVANNAH	93	74	95	71	83	2	2.58	1.14	2.33	4.67	87	21.01	139	92	48	6	0	2	1
HI	HILO	85	71	86	68	78	2	1.06	-0.86	0.63	4.56	69	44.27	111	85	55	0	0	5	1
	HONOLULU	88	75	90	73	81	1	0.00	-0.06	0.00	0.10	36	7.11	199	74	45	1	0	0	0
	KAHULUI	91	73	94	69	82	4	0.00	-0.06	0.00	0.00	0	5.18	104	75	41	6	0	0	0
	LIHUE	85	76	86	73	80	2	0.23	-0.16	0.16	1.04	71	20.67	199	86	63	0	0	3	0
ID	BOISE	89	61	96	55	75	5	0.00	-0.12	0.00	2.61	394	6.74	144	68	21	3	0	0	0
	LEWISTON	89	61	95	54	75	6	0.00	-0.24	0.00	1.25	108	5.84	111	75	25	3	0	0	0
	POCATELLO	86	52	93	48	69	5	0.00	-0.15	0.00	1.06	113	5.59	116	78	24	2	0	0	0
IL	CHICAGO/O_HARE	84	66	88	61	75	3	2.26	1.49	1.56	3.23	103	19.92	158	87	42	0	0	3	2
	MOLINE	84	64	88	56	74	0	1.01	-0.07	0.86	4.30	106	14.13	95	92	52	0	0	4	1
	PEORIA	85	64	93	57	74	0	0.35	-0.48	0.29	1.10	35	14.47	104	90	48	1	0	3	0
	ROCKFORD	83	62	89	56	73	0	1.48	0.44	1.16	3.66	85	14.90	106	89	48	0	0	2	1
	SPRINGFIELD	86	65	93	58	76	1	1.24	0.25	0.78	1.72	42	15.94	110	90	48	1	0	2	1
IN	EVANSVILLE	86	67	90	61	76	-1	2.48	1.69	2.26	3.73	108	20.87	119	88	47	1	0	3	1
	FORT WAYNE	82	61	89	56	71	-1	1.26	0.35	0.37	1.91	49	11.29	79	95	51	0	0	6	0
	INDIANAPOLIS	82	64	90	60	73	-1	2.14	1.12	1.32	3.22	83	16.94	104	91	53	1	0	5	2
	SOUTH BEND	82	62	88	57	72	0	1.14	0.29	0.80	7.91	229	19.00	147	95	54	0	0	4	1
IA	BURLINGTON	83	63	89	57	73	-3	3.03	1.99	1.57	5.92	145	14.23	92	97	53	0	0	4	2
	CEDAR RAPIDS	80	60	85	53	70	-2	2.22	0.98	1.55	6.04	136	12.69	92	100	60	0	0	4	1
	DES MOINES	83	64	89	57	73	-1	2.13	0.96	1.82	5.19	116	16.20	105	89	51	0	0	3	1
	DUBUQUE	78	60	86	54	69	-1	1.53	0.50	1.27	4.34	108	14.53	101	94	60	0	0	4	1
	SIOUX CITY	85	59	91	50	72	-1	0.26	-0.64	0.20	1.54	43	7.88	64	94	45	1	0	3	0
	WATERLOO	83	61	89	55	72	0	3.93	2.73	1.79	9.41	210	19.28	130	90	50	0	0	4	3
KS	CONCORDIA	90	64	98	59	77	1	1.60	0.61	0.99	3.18	86	8.71	70	87	39	5	0	4	1
	DODGE CITY	92	64	98	59	78	2	0.60	-0.13	0.52	4.17	141	8.08	88	86	35	5	0	3	1
	GOODLAND	92	60	101	58	76	3	0.40	-0.35	0.20	1.73	59	6.00	70	82	23	5	0	2	0
	TOPEKA	89	66	96	62	77	1	2.53	1.28	2.37	3.45	70	16.35	103	86	44	2	0	3	1

Based on 1981-2010 normals

***** Not Available**

Weather Data for the Week Ending June 27, 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 SEP 1	PCT. NORMAL SINCE SEP 1	TOTAL, IN., SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	92	67	96	62	80	1	0.27	-0.92	0.24	1.72	35	12.06	82	84	38	6	0	2	0
KY	LEXINGTON	82	63	86	58	73	-2	1.10	0.15	0.63	2.80	68	17.98	105	96	54	0	0	5	1
	LOUISVILLE	86	68	91	64	77	-1	3.27	2.45	1.56	5.57	161	20.44	120	91	50	1	0	4	2
	PADUCAH	86	67	89	61	76	-1	1.48	0.50	0.87	2.24	61	16.68	96	90	51	0	0	3	2
LA	BATON ROUGE	89	73	93	70	81	-1	5.58	3.92	3.34	8.74	169	23.07	144	96	63	4	0	4	3
	LAKE CHARLES	86	74	89	69	80	-2	1.15	-0.56	0.83	5.45	88	17.49	95	100	75	0	0	4	1
	NEW ORLEANS	90	77	93	73	83	1	3.81	1.88	2.01	9.37	128	24.36	115	87	62	5	0	4	3
	SHREVEPORT	89	74	91	71	82	0	3.05	1.82	1.34	3.43	69	23.43	128	95	62	4	0	5	2
ME	CARIBOU	85	60	92	55	73	10	0.29	-0.56	0.21	0.91	29	9.05	78	87	43	1	0	3	0
	PORTLAND	79	61	85	59	70	4	0.00	-0.78	0.00	0.38	11	11.30	70	90	54	0	0	0	0
MD	BALTIMORE	88	67	91	62	77	3	0.54	-0.21	0.21	5.72	184	16.35	115	89	47	1	0	3	0
MA	BOSTON	84	66	88	62	75	4	0.03	-0.65	0.02	1.11	32	11.30	75	88	46	0	0	2	0
	WORCESTER	83	64	88	62	74	6	0.41	-0.45	0.23	1.11	29	13.20	80	88	44	0	0	2	0
MI	ALPENA	81	55	86	50	67	3	1.33	0.68	1.07	2.41	102	10.90	118	96	48	0	0	4	1
	GRAND RAPIDS	81	59	87	56	70	-1	0.91	0.05	0.81	2.55	75	14.22	108	94	43	0	0	2	1
	HOUGHTON LAKE	79	54	84	50	66	1	0.82	0.14	0.43	1.63	63	11.43	129	93	46	0	0	4	0
	LANSING	82	61	86	57	71	1	0.88	0.09	0.68	1.93	62	13.67	118	90	43	0	0	4	1
	MUSKEGON	78	60	84	53	69	0	0.40	-0.15	0.37	2.47	107	17.35	162	90	51	0	0	3	0
	TRAVERSE CITY	78	58	86	54	68	1	1.79	0.97	1.44	3.54	126	12.74	127	92	52	0	0	3	1
MN	DULUTH	80	54	85	48	67	4	0.16	-0.93	0.08	0.51	13	4.61	42	86	35	0	0	2	0
	INT_L FALLS	77	48	85	41	63	0	0.20	-0.82	0.12	2.99	85	5.79	65	94	42	0	0	4	0
	MINNEAPOLIS	82	62	87	58	72	0	0.36	-0.67	0.33	3.47	90	12.28	104	91	41	0	0	2	0
	ROCHESTER	79	57	84	52	68	0	0.77	-0.33	0.42	4.10	97	13.63	105	91	51	0	0	3	0
	ST. CLOUD	83	54	88	47	68	0	0.04	-0.95	0.04	1.24	32	5.60	51	95	33	0	0	1	0
MS	JACKSON	88	71	93	69	80	-1	1.03	0.01	0.53	5.32	144	20.22	111	95	61	3	0	6	1
	MERIDIAN	88	70	93	67	79	0	3.40	2.32	2.20	7.04	178	25.24	135	92	62	3	0	5	2
	TUPELO	86	71	92	70	79	-1	4.37	3.32	1.57	6.69	164	23.82	123	93	62	2	0	6	4
MO	COLUMBIA	85	66	91	60	75	0	0.14	-0.89	0.14	5.94	147	19.83	120	88	50	1	0	1	0
	KANSAS CITY	86	64	92	57	75	-1	1.27	0.06	1.02	2.01	42	13.04	81	93	49	2	0	3	1
	SAINT LOUIS	88	69	95	63	79	0	1.19	0.24	0.79	1.56	39	16.16	103	82	44	3	0	3	1
	SPRINGFIELD	86	64	89	55	75	-1	0.00	-1.13	0.00	3.35	76	27.31	156	93	52	0	0	0	0
MT	BILLINGS	86	58	93	53	72	5	0.00	-0.44	0.00	2.54	131	5.09	74	79	26	2	0	0	0
	BUTTE	80	46	87	40	63	5	0.29	-0.13	0.23	3.23	154	5.79	94	90	25	0	0	2	0
	CUT BANK	80	51	86	47	65	6	0.05	-0.45	0.05	1.39	59	3.78	67	81	28	0	0	1	0
	GLASGOW	86	57	93	53	72	5	0.08	-0.44	0.08	1.47	68	5.02	93	79	28	4	0	1	0
	GREAT FALLS	82	53	87	49	67	6	0.15	-0.35	0.09	2.02	86	7.04	98	82	30	0	0	3	0
	HAVRE	86	54	92	49	70	6	0.69	0.19	0.37	1.86	93	4.24	82	92	29	2	0	3	0
	MISSOULA	86	51	91	45	69	6	0.01	-0.38	0.01	0.53	27	5.30	85	86	25	2	0	1	0
NE	GRAND ISLAND	89	63	96	57	76	2	0.03	-0.94	0.02	0.58	14	11.83	93	84	36	2	0	2	0
	LINCOLN	87	64	92	54	76	0	0.82	-0.21	0.41	2.87	72	10.01	77	85	42	2	0	3	0
	NORFOLK	84	59	91	50	71	-1	0.23	-0.78	0.22	0.46	12	8.41	68	90	46	2	0	2	0
	NORTH PLATTE	89	59	95	50	74	3	0.69	-0.03	0.63	1.72	55	7.61	78	89	37	3	0	4	1
	OMAHA	85	65	91	56	75	0	0.03	-0.90	0.02	2.50	65	8.34	61	88	47	1	0	2	0
	SCOTTSBLUFF	91	57	97	51	74	4	0.35	-0.21	0.33	1.17	44	6.04	75	91	22	4	0	2	0
	VALENTINE	86	60	93	54	73	3	1.00	0.19	0.90	4.77	148	9.12	97	87	40	2	0	4	1
NV	ELY	88	49	91	45	69	6	0.12	0.01	0.12	0.13	20	3.52	94	54	14	3	0	1	0
	LAS VEGAS	107	83	109	80	95	5	0.00	-0.01	0.00	0.00	0	2.04	237	19	7	7	0	0	0
	RENO	95	63	98	59	79	9	0.02	-0.08	0.02	0.06	13	1.38	61	48	11	7	0	1	0
	WINNEMUCCA	97	58	100	48	78	10	0.06	0.00	0.06	0.88	177	3.06	89	54	9	5	0	1	0
NH	CONCORD	88	58	94	53	73	6	0.03	-0.76	0.03	0.20	6	8.61	63	96	39	2	0	1	0
NJ	ATLANTIC_CITY	88	69	91	65	78	5	0.01	-0.66	0.01	2.56	91	10.32	73	87	43	2	0	1	0
	NEWARK	88	69	92	66	78	4	0.10	-0.78	0.10	1.48	40	10.94	67	87	39	1	0	1	0
NM	ALBUQUERQUE	94	64	97	60	79	2	0.17	-0.05	0.17	1.08	186	2.00	87	40	10	7	0	1	0
NY	ALBANY	87	65	95	57	76	7	0.53	-0.31	0.37	1.13	33	8.62	64	81	37	3	0	2	0
	BINGHAMTON	78	59	84	55	69	2	0.83	-0.18	0.67	3.69	94	13.74	99	91	50	0	0	3	1
	BUFFALO	78	61	89	55	70	1	0.96	0.16	0.43	3.37	101	13.96	110	91	50	0	0	3	0
	ROCHESTER	83	62	89	54	72	4	0.68	-0.13	0.24	1.24	41	8.21	74	91	42	0	0	3	0
	SYRACUSE	87	63	92	56	75	6	0.32	-0.46	0.29	0.78	26	11.12	90	81	38	3	0	3	0
NC	ASHEVILLE	83	62	86	58	73	0	0.33	-0.78	0.30	2.39	57	18.55	124	95	48	0	0	3	0
	CHARLOTTE	88	68	91	65	78	1	0.44	-0.37	0.39	1.85	54	19.25	141	90	46	2	0	3	0
	GREENSBORO	86	67	88	62	76	-1	0.00	-0.84	0.00	2.36	70	18.43	132	95	49	0	0	0	0
	HATTERAS	87	77	89	71	82	5	0.21	-0.78	0.21	9.02	251	29.72	191	87	64	0	0	1	0
	RALEIGH	89	67	91	62	78	0	0.00	-0.80	0.00	2.40	76	14.10	105	94	49	2	0	0	0
	WILMINGTON	89	72	93	65	80	0	0.61	-0.65	0.32	9.13	198	24.92	154	96	49	5	0	2	0
ND	BISMARCK	86	57	97	50	72	5	0.13	-0.62	0.12	0.51	17	1.92	26	83	29	2	0	2	0
	DICKINSON	84	53	97	46	69	4	0.21	-0.54	0.21	0.84	29	2.52	34	88	31	2	0	1	0
	FARGO	82	58	92	53	70	1	0.76	-0.18	0.65	2.63	74	5.40	60	93	38	2	0	3	1
	GRAND FORKS	79	53	90	47	66	0	0.14	-0.74	0.12	1.64	53	3.89	49	95	40	1	0	2	0
	JAMESTOWN	82	54	93	48	68	1	0.00	-0.78	0.00	0.70	24	3.32	43	88	37	1	0	0	0
OH	AKRON-CANTON	81	64	90	58	73	2	1.30	0.40	0.73	3.05	88	16.03	112	88	53	1	0	6	1
	CINCINNATI	84	64	90	59	74	0	1.06	0.23	0.56	1.35	36	16.72	101	91	48	1	0	5	1
	CLEVELAND	82	63	90	57	73	1	1.43	0.64	0.68	2.40	77	18.71	142	89	51	1	0	4	1
	COLUMBUS	85	64	93	59	74	1	1.26	0.35	0.83	2.48	68	21.39	150	94	46	1	0	5	1
	DAYTON	83	65	90	59	74	1	1.79	0.83	1.27	2.61	68	17.24	108	88	51	1	0	4	1
	MANSFIELD	84	65	93	60	74	4	0.92	-0.13	0.49	2.97	68	15.09	91	90	49	1	0	6	0

Based on 1981-2010 normals ***** Not Available**

Weather Data for the Week Ending June 27, 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 SEP 1	PCT. NORMAL SINCE SEP 1	TOTAL, IN., SINCE JAN01	PCT. NORMAL SINCE JAN01	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	83	63	87	57	73	1	0.63	-0.14	0.41	1.41	43	11.43	92	88	45	0	0	3	0
	YOUNGSTOWN	81	60	88	56	70	2	2.55	1.63	0.98	3.39	97	14.94	110	89	51	0	0	6	2
OK	OKLAHOMA CITY	88	65	92	60	76	-4	1.36	0.33	1.24	3.42	75	14.11	91	90	45	1	0	2	1
	TULSA	92	70	94	61	81	1	0.13	-0.83	0.08	0.13	3	15.72	90	89	40	6	0	2	0
OR	ASTORIA	68	53	75	48	60	3	0.13	-0.33	0.05	2.11	88	13.00	71	96	64	0	0	3	0
	BURNS	89	51	94	46	70	10	0.00	-0.12	0.00	0.66	90	3.33	82	68	15	4	0	0	0
	EUGENE	83	56	92	51	70	7	0.00	-0.24	0.00	1.74	120	9.35	74	90	40	2	0	0	0
	MEDFORD	93	62	101	56	77	8	0.00	-0.11	0.00	1.22	201	5.05	100	76	23	4	0	0	0
	PENDLETON	89	57	97	50	73	6	0.00	-0.15	0.00	0.73	77	4.60	95	73	17	3	0	0	0
	PORTLAND	82	60	92	55	71	6	0.00	-0.28	0.00	3.60	225	9.24	88	80	39	1	0	0	0
	SALEM	82	56	90	53	69	6	0.00	-0.26	0.00	1.46	99	8.93	85	85	38	1	0	0	0
PA	ALLENTOWN	86	62	91	58	74	3	0.80	-0.21	0.64	2.20	56	12.57	84	92	42	2	0	2	1
	ERIE	80	65	91	60	73	3	2.12	1.26	1.01	3.08	91	13.94	106	83	49	1	0	5	2
	MIDDLETOWN	87	67	91	64	77	3	0.84	0.00	0.44	3.82	119	15.19	113	88	45	1	0	4	0
	PHILADELPHIA	87	70	90	67	79	3	0.03	-0.74	0.03	3.23	105	13.28	94	84	42	1	0	1	0
	PITTSBURGH	82	62	88	56	72	1	0.65	-0.38	0.47	2.18	55	12.84	92	91	48	0	0	4	0
	WILKES-BARRE	85	61	90	57	73	4	1.82	0.94	1.22	3.47	94	12.20	93	90	44	1	0	4	1
	WILLIAMSPORT	85	60	90	54	73	2	0.93	0.02	0.88	2.97	84	15.95	119	90	42	1	0	3	1
RI	PROVIDENCE	84	65	88	62	74	4	1.23	0.54	0.72	2.57	76	16.13	99	96	56	0	0	3	1
SC	CHARLESTON	91	72	93	70	81	1	1.30	-0.15	0.75	4.74	94	19.85	136	92	53	6	0	3	1
	COLUMBIA	91	70	94	67	80	0	2.91	1.77	1.35	4.82	113	21.43	158	91	44	6	0	4	3
	FLORENCE	90	72	94	68	81	1	1.16	0.13	0.70	3.62	86	20.51	153	89	47	6	0	3	1
	GREENVILLE	88	66	93	64	77	-2	1.50	0.62	0.91	2.84	84	26.71	178	91	50	1	0	2	2
SD	ABERDEEN	83	57	90	52	70	2	0.00	-0.87	0.00	3.59	108	7.48	79	92	38	1	0	0	0
	HURON	81	59	87	53	70	0	1.36	0.51	0.91	4.90	134	8.19	78	97	45	0	0	3	1
	RAPID CITY	84	57	91	49	70	3	0.06	-0.41	0.02	2.15	91	5.87	70	82	33	2	0	3	0
	SIOUX FALLS	83	59	88	54	71	1	0.52	-0.39	0.35	3.49	97	9.92	84	91	47	0	0	3	0
TN	BRISTOL	84	61	88	56	73	-1	0.46	-0.49	0.39	1.86	53	19.54	139	95	47	0	0	3	0
	CHATTANOOGA	86	70	90	68	78	0	1.60	0.61	0.54	2.49	69	21.48	128	92	55	1	0	6	2
	KNOXVILLE	87	67	92	65	77	0	0.25	-0.65	0.16	1.21	36	19.06	117	91	46	1	0	3	0
	MEMPHIS	85	71	89	69	78	-4	2.12	1.36	1.02	3.24	99	20.13	104	96	60	0	0	5	2
	NASHVILLE	87	68	88	66	77	0	1.23	0.33	0.65	1.92	50	16.25	93	90	48	0	0	4	2
TX	ABILENE	91	70	93	65	81	0	0.91	0.24	0.91	2.60	78	9.54	96	88	42	6	0	1	1
	AMARILLO	92	65	96	61	79	2	0.21	-0.46	0.21	2.81	98	5.22	65	79	28	6	0	1	0
	AUSTIN	92	74	96	71	83	0	1.22	0.36	0.61	2.49	61	17.40	130	87	50	5	0	3	2
	BEAUMONT	86	74	89	68	80	-2	1.50	-0.36	0.77	2.15	33	15.60	85	100	77	0	0	6	1
	BROWNSVILLE	91	78	95	75	84	0	0.00	-0.69	0.00	1.56	68	4.44	57	91	63	5	0	0	0
	CORPUS CHRISTI	88	75	91	71	82	-2	1.13	0.29	1.01	3.88	129	10.51	107	99	69	2	0	2	1
	DEL RIO	101	77	105	74	89	4	0.00	-0.50	0.00	0.40	18	6.16	80	77	32	7	0	0	0
	EL PASO	102	74	106	69	88	5	0.00	-0.29	0.00	0.25	31	2.55	135	39	11	7	0	0	0
	FORT WORTH	89	70	93	66	80	-3	2.90	2.10	2.50	4.76	134	21.06	141	97	56	4	0	3	1
	GALVESTON	88	78	90	71	83	-1	3.42	0.00	1.55	3.83	0	10.06	0	89	71	1	0	4	2
	HOUSTON	88	74	93	70	81	-3	3.17	1.75	1.31	4.53	84	16.60	97	93	61	3	0	3	3
	LUBBOCK	93	68	98	65	80	1	0.17	-0.48	0.16	1.76	63	5.69	75	81	30	5	0	2	0
	MIDLAND	97	70	106	66	84	2	0.39	0.00	0.39	0.39	24	4.01	86	73	21	7	0	1	0
	SAN ANGELO	97	71	106	66	84	3	0.83	0.35	0.83	0.87	35	7.98	97	82	30	7	0	1	1
	SAN ANTONIO	93	74	98	70	83	0	0.47	-0.50	0.39	0.81	21	11.20	91	86	45	6	0	2	0
	VICTORIA	91	77	94	74	84	1	3.43	2.38	2.28	4.09	100	11.89	80	90	57	6	0	5	3
	WACO	90	73	94	70	81	-2	0.48	-0.14	0.26	1.58	49	18.61	139	90	52	4	0	3	0
	WICHITA FALLS	90	67	93	63	78	-3	3.22	2.47	2.31	4.17	107	14.58	116	96	47	4	0	3	2
UT	SALT LAKE CITY	91	65	97	61	78	5	0.00	-0.14	0.00	1.47	155	3.75	56	50	16	4	0	0	0
VT	BURLINGTON	88	65	96	59	77	9	0.37	-0.50	0.35	0.76	23	6.89	58	80	31	3	0	2	0
VA	LYNCHBURG	88	64	91	59	76	2	0.33	-0.46	0.26	4.94	152	18.93	137	93	46	2	0	2	0
	NORFOLK	88	70	93	67	79	2	0.68	-0.30	0.59	3.55	92	16.12	113	89	49	4	0	2	1
	RICHMOND	89	66	92	63	78	0	1.40	0.54	1.15	4.86	137	14.37	98	93	47	3	0	2	1
	ROANOKE	87	65	89	63	76	1	0.16	-0.67	0.13	7.78	224	28.53	199	85	43	0	0	2	0
	WASH/DULLES	87	65	90	58	76	1	1.02	0.14	0.75	5.25	145	15.47	103	92	48	1	0	2	1
WA	OLYMPIA	77	52	85	45	64	4	0.00	-0.32	0.00	1.87	113	9.73	76	91	42	0	0	0	0
	QUILLAYUTE	65	50	72	45	58	1	0.11	-0.57	0.08	3.56	110	18.78	69	97	66	0	0	3	0
	SEATTLE-TACOMA	77	57	83	53	67	5	0.44	0.15	0.44	1.75	119	9.94	101	86	43	0	0	1	0
	SPOKANE	83	59	88	54	71	7	0.02	-0.22	0.02	0.75	63	5.00	87	73	26	0	0	1	0
	YAKIMA	90	59	97	51	74	9	0.00	-0.12	0.00	0.16	26	1.45	61	66	21	4	0	0	0
WV	BECKLEY	79	60	81	57	69	0	0.76	-0.20	0.45	5.47	151	21.62	142	96	55	0	0	5	0
	CHARLESTON	83	63	91	57	73	-1	1.01	0.03	0.63	3.06	78	22.44	141	94	49	1	0	3	1
	ELKINS	81	58	86	54	69	1	0.67	-0.40	0.24	5.35	136	19.09	113	92	49	0	0	4	0
	HUNTINGTON	85	64	91	59	74	0	0.50	-0.32	0.47	1.89	53	17.00	109	95	50	1	0	3	0
WI	EAU CLAIRE	80	55	86	50	68	-2	0.51	-0.46	0.51	3.62	96	12.09	103	92	44	0	0	1	1
	GREEN BAY	80	59	87	54	69	2	1.19	0.29	0.56	3.79	108	15.30	140	93	51	0	0	4	2
	LA CROSSE	81	60	87	55	71	-1	2.07	1.03	0.93	6.54	166	14.34	112	94	52	0	0	3	2
	MADISON	78	60	85	54	69	-1	2.03	0.96	1.06	4.71	114	15.83	119	97	54	0	0	4	2
	MILWAUKEE	80	63	84	59	71	2	1.44	0.54	0.87	2.43	69	15.37	121	87	48	0	0	4	1
WY	CASPER	85	47	93	41	66	1	0.02	-0.32	0.01	0.28	19	2.94	52	83	21	2	0	2	0
	CHEYENNE	83	53	90	49	68	3	0.19	-0.25	0.15	2.06	96	5.10	69	79	22	1	0	3	0
	LANDER	84	52	92	46	68	2	0.06	-0.13	0.05	0.31	25	2.93	45	72	24	2	0	2	0
	SHERIDAN	86	51	97	47	69	4	0.46	0.06	0.22	0.95	48	3.45	49	83	27	2	0	3	0

Based on 1981-2010 normals

***** Not Available**

National Agricultural Summary

June 22 - 28, 2020

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Warmer-than-normal weather prevailed across most of Florida, the mid Atlantic, Northeast, and much of the western half of the nation. Parts of California, northern New England, western Nevada, and the Pacific Northwest saw temperatures 6°F or more above normal. In contrast, below-average temperatures occurred in much of the Corn Belt, the southern Great Plains, and the Mississippi Valley. Parts of Alabama, Arkansas, and Kentucky saw temperatures 3°F or more below normal. Most of the western half of the nation remained drier than normal, while above-normal precipitation fell in large parts of the Corn Belt, the Deep South, and the Great Lakes region. Pockets of southern Louisiana and eastern Texas received more than 4 inches of rain.

Corn: By June 28, four percent of the nation's corn acreage had reached the silking stage, two percentage points ahead of last year but 3 points behind the 5-year average. As of June 28, seventy-three percent of the nation's corn acreage was rated in good to excellent condition, 1 percentage point above the previous week and 17 points above the same time last year. In Iowa, 85 percent of the 2020 corn acreage was rated in good to excellent condition on June 28.

Soybean: Ninety-five percent of the nation's soybean acreage had emerged by June 28, fifteen percentage points ahead of last year and 4 points ahead of the 5-year average. By June 28, fourteen percent of the nation's soybean acreage had reached the blooming stage, 12 percentage points ahead of last year and 3 points ahead of average. On June 28, seventy-one percent of the nation's soybean acreage was rated in good to excellent condition, 1 percentage point above the previous week and 17 points above the same time last year.

Winter Wheat: Forty-one percent of the 2020 winter wheat acreage had been harvested by June 28, fifteen percentage points ahead of last year but equal to the 5-year average. As of June 28, fifth-two percent of the 2020 winter wheat acreage was reported in good to excellent condition, unchanged from the previous week but 11 percentage points below the same time last year. In Kansas, the largest winter wheat-producing state, 46 percent of the winter wheat acreage was rated in good to excellent condition.

Cotton: Thirty-five percent of the nation's cotton acreage had reached the squaring stage by June 28, equal to last year but 1 percentage point behind the 5-year average. By June 28, nine percent of the nation's cotton acreage had begun setting bolls, 3 percentage points ahead of last year and 2 points ahead of average. As of June 28, forty-one percent of the 2020 cotton acreage was rated in good to excellent condition, 1 percentage point above the previous week but 11 points below the same time last year.

Sorghum: Ninety-six percent of the nation's sorghum acreage was planted by June 28, five percentage points ahead of the previous year and 1 point ahead of the 5-year average. By June 28, twenty-one percent of the nation's sorghum acreage had reached the headed stage, 2 percentage points ahead of last year but 1 point behind average. Sixty-four percent of Texas' sorghum acreage had reached the headed stage by June 28, six percentage points ahead of both last year and the average. Forty-five percent of the nation's sorghum acreage was rated in good to excellent condition on June 28, two percentage points below the previous week and 28 points below the same time last year.

Rice: By June 28, fourteen percent of the nation's rice acreage had reached the headed stage, 5 percentage points ahead of the previous year and 1 point ahead of the 5-year average. On June 28, seventy-four percent of the nation's rice acreage was rated in good to excellent condition, 1 percentage point above the previous week and 6 points above the same time last year.

Small Grains: Seventy-four percent of the nation's oat acreage was headed by June 28, twenty percentage points ahead of last year but 1 point behind the 5-year average. On June 28, sixty-one percent of the nation's oat acreage was rated in good to excellent condition, 4 percentage points below both the previous week and the same time last year.

Thirty-nine percent of the nation's barley acreage had reached the headed stage by June 28, fourteen percentage points ahead of last year but 6 points behind the 5-year average. On June 28, seventy-five percent of the nation's barley acreage was rated in good to excellent condition, unchanged from the previous week but 3 percentage points above the same time last year,

By June 28, thirty-six percent of the nation's spring wheat crop had reached the headed stage, 16 percentage points ahead of the previous year but 9 points behind the 5-year average. Sixty-nine percent of the nation's spring wheat was rated in good to excellent condition, 6 percentage points below both the previous week and the same time last year.

Other Acreages: By June 28, thirty-nine percent of the nation's peanut crop had reached the pegging stage, 4 percentage points behind the previous year but 1 point ahead of the 5-year average. On June 28, sixty-six percent of the nation's peanut acreage was rated in good to excellent condition, 2 percentage points above the previous week, but 2 points below the same time last year.

Ninety-five percent of the nation's intended 2020 sunflower acreage had been planted by June 28, three percentage points ahead of last year and 1 point ahead of the 5-year average. By week's end, ninety-eight percent of South Dakota's sunflower acreage had been planted, 8 percentage points ahead of last year and 7 points ahead of average.

Crop Progress and Condition

Week Ending June 28, 2020

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

Soybeans Percent Emerged

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
AR	84	85	92	92
IL	75	92	96	91
IN	68	92	97	90
IA	87	96	98	96
KS	78	86	93	84
KY	71	73	82	80
LA	99	97	100	99
MI	62	92	97	88
MN	93	99	99	98
MS	92	94	96	95
MO	60	74	87	77
NE	93	96	100	97
NC	78	75	78	80
ND	95	79	89	97
OH	57	85	95	88
SD	75	94	99	94
TN	83	70	82	82
WI	77	93	97	93
18 Sts	80	89	95	91

These 18 States planted 96% of last year's soybean acreage.

Soybeans Percent Blooming

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
AR	32	24	41	51
IL	0	2	10	12
IN	0	1	10	8
IA	1	1	16	7
KS	1	1	8	5
KY	5	7	9	5
LA	50	55	72	69
MI	0	0	0	4
MN	0	1	7	4
MS	42	40	47	52
MO	0	1	6	7
NE	0	16	27	12
NC	2	1	8	6
ND	0	0	1	9
OH	0	1	11	5
SD	0	2	21	5
TN	14	2	8	12
WI	0	0	8	5
18 Sts	2	5	14	11

These 18 States planted 96% of last year's soybean acreage.

Soybean Condition by Percent

	VP	P	F	G	EX
AR	1	3	28	51	17
IL	1	4	27	56	12
IN	3	6	27	53	11
IA	0	2	15	67	16
KS	1	6	31	56	6
KY	1	2	11	68	18
LA	0	0	18	73	9
MI	2	5	29	51	13
MN	1	2	16	61	20
MS	0	6	40	44	10
MO	1	4	32	56	7
NE	1	4	20	58	17
NC	2	5	29	53	11
ND	1	3	26	63	7
OH	2	6	28	54	10
SD	1	2	17	66	14
TN	1	3	20	60	16
WI	1	3	17	48	31
18 Sts	1	4	24	58	13
Prev Wk	1	4	25	58	12
Prev Yr	2	9	35	47	7

Corn Percent Silking

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
CO	0	0	0	0
IL	0	0	1	8
IN	0	0	2	5
IA	0	0	1	1
KS	7	3	9	16
KY	19	2	9	23
MI	0	0	0	0
MN	0	0	0	0
MO	4	4	7	17
NE	0	0	1	3
NC	49	26	45	60
ND	0	0	0	3
OH	0	0	1	1
PA	0	0	0	1
SD	0	0	0	0
TN	45	5	17	40
TX	66	55	62	56
WI	0	0	0	0
18 Sts	2	2	4	7

These 18 States planted 91% of last year's corn acreage.

Corn Condition by Percent

	VP	P	F	G	EX
CO	4	14	39	40	3
IL	1	5	27	55	12
IN	3	7	27	54	9
IA	0	2	13	66	19
KS	3	9	35	45	8
KY	1	2	11	72	14
MI	2	6	27	53	12
MN	1	2	13	59	25
MO	1	5	26	56	12
NE	1	4	19	55	21
NC	3	9	22	44	22
ND	1	5	27	58	9
OH	2	6	29	55	8
PA	0	0	15	71	14
SD	1	2	17	65	15
TN	1	5	22	55	17
TX	2	7	36	45	10
WI	1	3	18	51	27
18 Sts	1	4	22	57	16
Prev Wk	1	4	23	57	15
Prev Yr	3	9	32	47	9

Rice Percent Headed

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
AR	0	0	0	3
CA	4	10	15	9
LA	42	33	48	44
MS	12	3	11	17
MO	0	0	0	4
TX	21	23	54	34
6 Sts	9	9	14	13

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

Rice Condition by Percent

	VP	P	F	G	EX
AR	1	3	32	48	16
CA	0	0	0	80	20
LA	1	1	11	79	8
MS	0	6	37	52	5
MO	1	7	34	36	22
TX	0	0	28	52	20
6 Sts	1	2	23	58	16
Prev Wk	0	3	24	57	16
Prev Yr	1	4	27	54	14

Crop Progress and Condition

Week Ending June 28, 2020

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

Cotton Percent Squaring

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
AL	59	30	47	53
AZ	53	75	88	63
AR	75	49	68	83
CA	42	35	45	54
GA	54	39	55	52
KS	14	12	27	15
LA	53	45	65	69
MS	26	17	28	47
MO	11	4	12	38
NC	50	17	33	45
OK	23	5	10	18
SC	50	20	33	36
TN	42	17	29	45
TX	28	27	30	26
VA	38	28	39	47
15 Sts	35	27	35	36

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

Cotton Percent Setting Bolls

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
AL	4	0	2	6
AZ	16	15	29	19
AR	7	0	0	13
CA	4	0	3	3
GA	9	1	9	6
KS	0	0	3	0
LA	8	6	22	16
MS	3	1	2	6
MO	0	0	0	1
NC	2	0	0	1
OK	0	0	0	1
SC	7	0	2	2
TN	1	0	3	3
TX	6	10	13	9
VA	0	0	1	0
15 Sts	6	6	9	7

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

Cotton Condition by Percent

	VP	P	F	G	EX
AL	0	2	20	70	8
AZ	0	1	6	60	33
AR	0	1	18	54	27
CA	0	0	25	50	25
GA	1	4	23	63	9
KS	2	11	44	40	3
LA	0	1	18	78	3
MS	0	1	37	55	7
MO	19	19	28	34	0
NC	3	12	29	52	4
OK	1	1	23	70	5
SC	19	15	28	37	1
TN	5	11	22	53	9
TX	8	28	43	17	4
VA	0	1	5	94	0
15 Sts	6	18	35	35	6
Prev Wk	7	18	35	33	7
Prev Yr	5	13	30	45	7

Sorghum Percent Planted

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
CO	93	87	96	96
KS	87	88	95	93
NE	95	100	100	98
OK	78	77	86	86
SD	97	98	100	94
TX	99	96	98	98
6 Sts	91	91	96	95

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

Sorghum Percent Headed

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
CO	0	0	0	0
KS	3	4	4	4
NE	8	2	6	3
OK	8	0	1	7
SD	0	0	2	2
TX	58	54	64	58
6 Sts	19	18	21	22

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

Sorghum Condition by Percent

	VP	P	F	G	EX
CO	3	5	53	36	3
KS	2	7	44	43	4
NE	0	2	27	62	9
OK	14	10	38	38	0
SD	0	1	29	61	9
TX	2	23	37	33	5
6 Sts	3	11	41	41	4
Prev Wk	2	11	40	42	5
Prev Yr	0	2	25	63	10

Peanuts Percent Pegging

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
AL	51	12	31	41
FL	51	32	49	41
GA	56	40	56	46
NC	21	5	13	21
OK	4	6	21	13
SC	56	27	47	48
TX	0	0	1	11
VA	23	6	9	13
8 Sts	43	26	39	38

These 8 States planted 96% of last year's peanut acreage.

Peanut Condition by Percent

	VP	P	F	G	EX
AL	0	1	16	69	14
FL	2	3	33	61	1
GA	1	7	28	58	6
NC	2	5	28	51	14
OK	0	0	23	66	11
SC	5	3	18	64	10
TX	1	12	33	52	2
VA	0	0	2	98	0
8 Sts	1	6	27	59	7
Prev Wk	2	8	26	59	5
Prev Yr	1	5	26	60	8

Sunflowers Percent Planted

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
CO	82	86	94	86
KS	81	78	88	84
ND	97	89	93	99
SD	90	90	98	91
4 Sts	92	89	95	94

These 4 States planted 87% of last year's sunflower acreage.

Crop Progress and Condition

Week Ending June 28, 2020

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

Winter Wheat Percent Harvested

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
AR	87	79	89	95
CA	62	55	65	65
CO	1	7	15	5
ID	0	0	0	0
IL	38	26	63	63
IN	23	13	22	34
KS	21	25	47	51
MI	0	0	0	0
MO	42	41	66	67
MT	0	0	0	0
NE	0	0	1	4
NC	70	52	73	83
OH	5	0	1	13
OK	64	85	95	85
OR	0	0	1	1
SD	0	0	0	1
TX	74	85	96	79
WA	0	0	0	1
18 Sts	26	29	41	41

These 18 States harvested 92% of last year's winter wheat acreage.

Winter Wheat Condition by Percent

	VP	P	F	G	EX
AR	1	5	48	38	8
CA	0	10	25	45	20
CO	18	21	31	27	3
ID	0	3	20	52	25
IL	1	6	19	57	17
IN	1	6	28	55	10
KS	7	13	34	39	7
MI	3	8	27	50	12
MO	1	10	39	44	6
MT	1	2	10	40	47
NE	3	12	29	52	4
NC	1	6	20	54	19
OH	1	4	28	58	9
OK	4	3	43	48	2
OR	2	17	30	39	12
SD	1	3	28	64	4
TX	7	21	38	31	3
WA	0	2	14	61	23
18 Sts	5	11	32	42	10
Prev Wk	5	12	31	43	9
Prev Yr	3	7	27	48	15

Oats Percent Headed

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
IA	73	71	86	86
MN	47	49	75	66
NE	69	84	90	90
ND	9	6	24	42
OH	54	75	91	79
PA	63	34	51	69
SD	32	53	86	75
TX	99	100	100	100
WI	31	40	63	60
9 Sts	54	58	74	75

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

Oat Condition by Percent

	VP	P	F	G	EX
IA	0	1	17	69	13
MN	2	5	21	55	17
NE	1	7	35	49	8
ND	3	11	32	49	5
OH	0	1	15	68	16
PA	0	4	34	57	5
SD	1	4	29	60	6
TX	5	17	40	35	3
WI	1	2	18	54	25
9 Sts	2	8	29	51	10
Prev Wk	2	6	27	55	10
Prev Yr	2	5	28	56	9

Barley Percent Headed

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
ID	40	43	56	56
MN	31	20	55	57
MT	15	6	30	34
ND	17	4	27	44
WA	66	75	81	73
5 Sts	25	19	39	45

These 5 States planted 81% of last year's barley acreage.

Spring Wheat Percent Headed

	Prev Year	Prev Week	Jun 28 2020	5-Yr Avg
ID	32	30	41	51
MN	30	12	45	59
MT	12	5	24	25
ND	14	6	30	43
SD	29	45	77	66
WA	75	59	73	80
6 Sts	20	12	36	45

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

Spring Wheat Condition by Percent

	VP	P	F	G	EX
ID	0	2	22	47	29
MN	2	3	15	71	9
MT	0	3	16	68	13
ND	2	7	32	53	6
SD	1	5	27	63	4
WA	0	6	9	64	21
6 Sts	1	5	25	60	9
Prev Wk	1	3	21	68	7
Prev Yr	1	3	21	67	8

Barley Condition by Percent

	VP	P	F	G	EX
ID	0	2	32	42	24
MN	2	4	18	66	10
MT	0	2	11	60	27
ND	2	6	27	59	6
WA	0	6	7	64	23
5 Sts	1	3	21	55	20
Prev Wk	0	3	22	65	10
Prev Yr	1	4	23	64	8

Crop Progress and Condition

Week Ending June 28, 2020

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

Pasture and Range Condition by Percent
Week Ending Jun 28, 2020

	VP	P	F	G	EX			VP	P	F	G	EX
AL	0	3	18	69	10		NH	3	28	43	26	0
AZ	3	24	41	32	0		NJ	3	9	6	82	0
AR	1	4	30	49	16		NM	32	36	27	5	0
CA	30	25	20	25	0		NY	0	5	20	56	19
CO	21	18	33	28	0		NC	1	5	22	66	6
CT	5	2	58	22	13		ND	5	11	38	42	4
DE	2	3	42	40	13		OH	0	4	22	64	10
FL	2	3	22	52	21		OK	3	14	43	38	2
GA	2	6	30	56	6		OR	4	34	37	23	2
ID	0	1	15	62	22		PA	5	12	34	46	3
IL	1	4	29	57	9		RI	5	2	58	22	13
IN	4	10	35	44	7		SC	1	2	19	71	7
IA	1	5	25	53	16		SD	1	13	37	41	8
KS	4	15	36	42	3		TN	1	6	29	54	10
KY	1	3	20	62	14		TX	10	21	38	26	5
LA	0	2	35	60	3		UT	4	12	43	41	0
ME	5	37	40	18	0		VT	0	0	10	42	48
MD	3	6	29	54	8		VA	0	5	23	57	15
MA	5	2	58	22	13		WA	15	5	17	53	10
MI	2	7	33	49	9		WV	0	12	33	50	5
MN	2	11	24	49	14		WI	1	3	17	48	31
MS	0	5	29	57	9		WY	9	16	34	39	2
MO	1	2	31	55	11		48 Sts	9	17	32	36	6
MT	4	12	21	39	24							
NE	4	8	22	62	4		Prev Wk	9	16	32	38	5
NV	5	15	40	40	0		Prev Yr	2	5	24	55	14

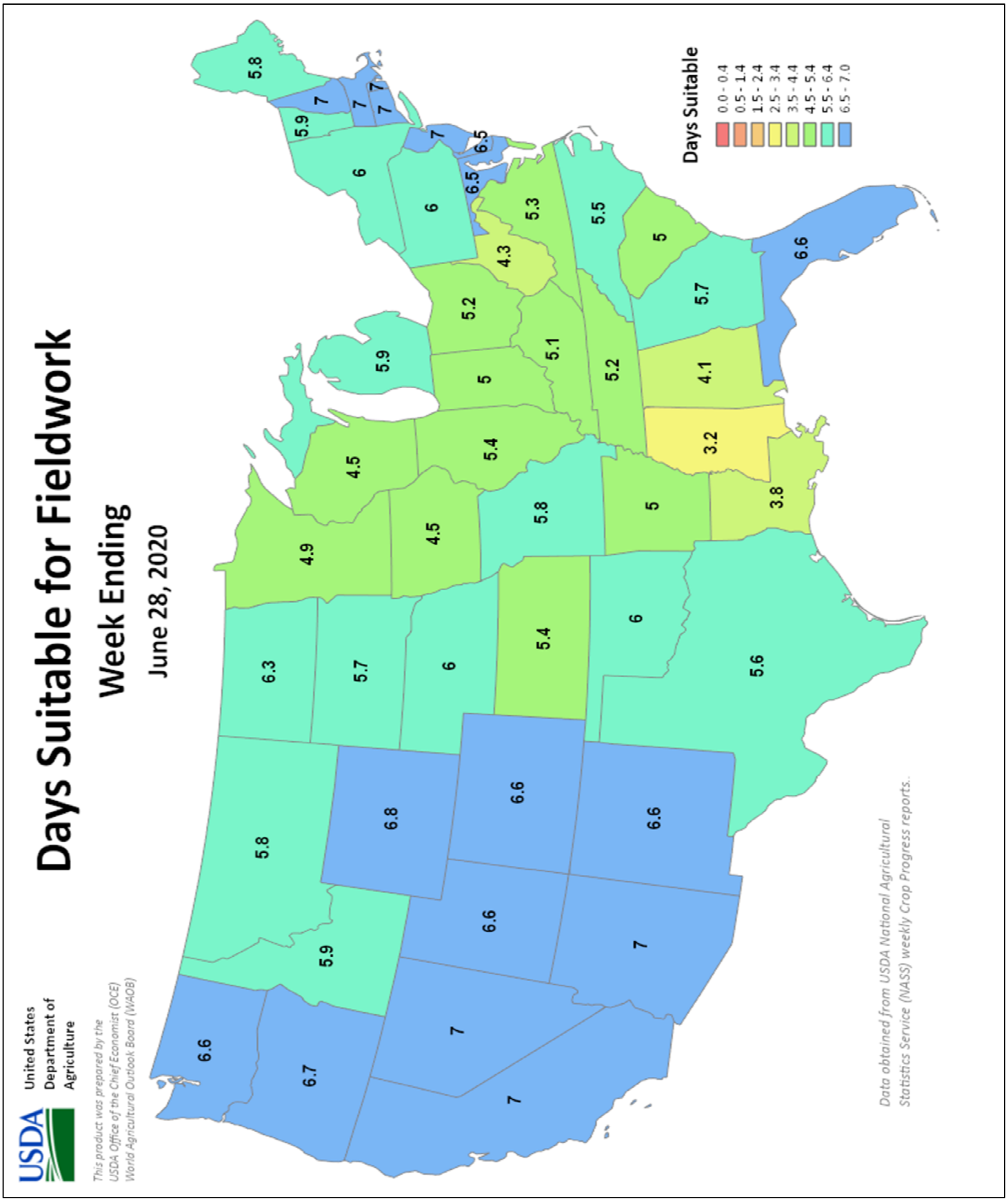
VP - Very Poor; P - Poor;
F - Fair;
G - Good; EX - Excellent

NA - Not Available
*** Revised**

Crop Progress and Condition

Week Ending June 28, 2020

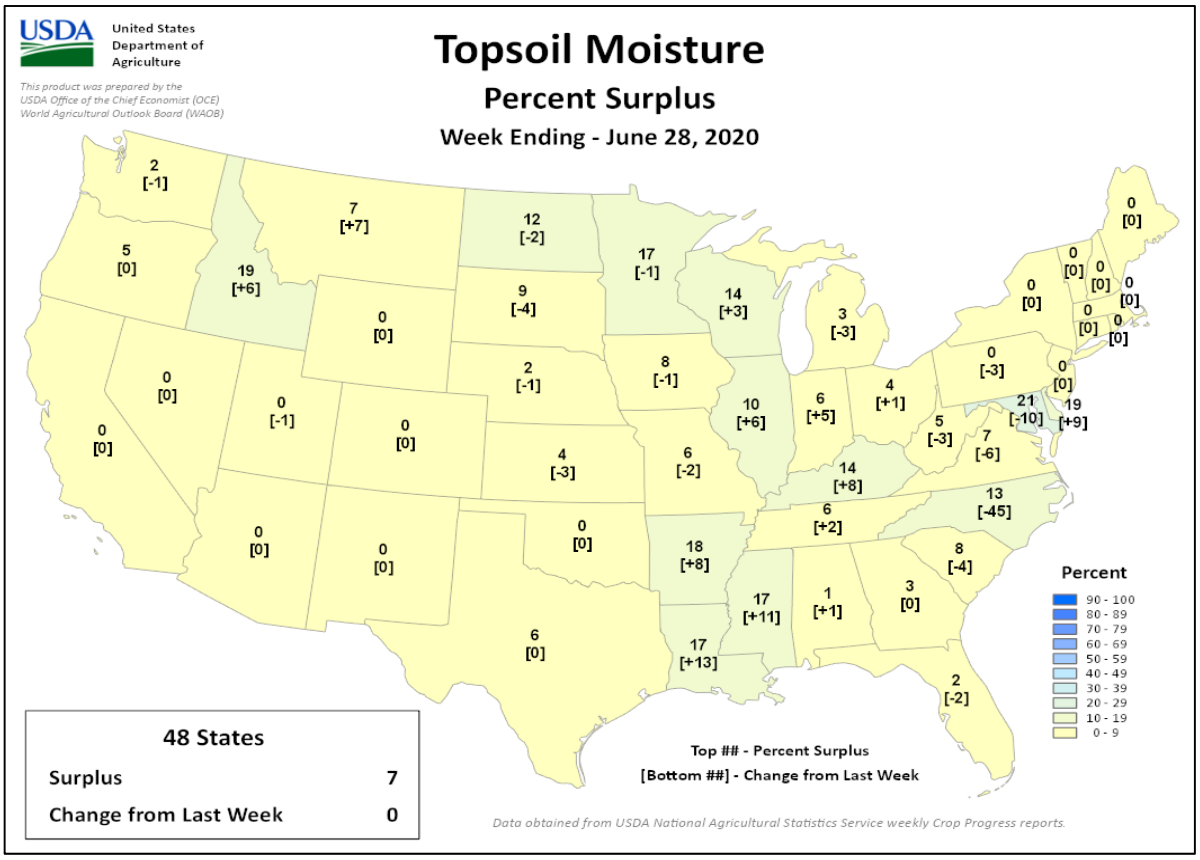
Weekly U.S. Progress and Condition Data provided by USDA/NASS

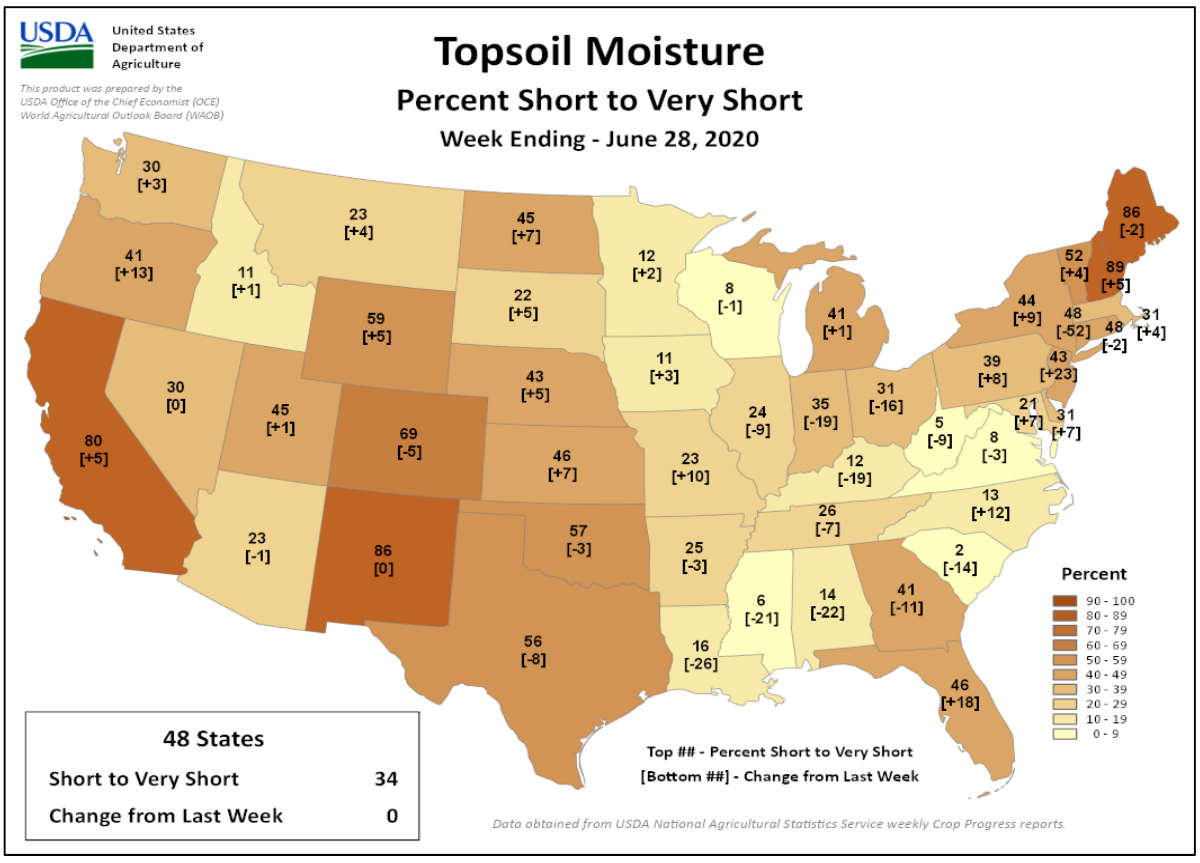


Crop Progress and Condition

Week Ending June 28, 2020

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

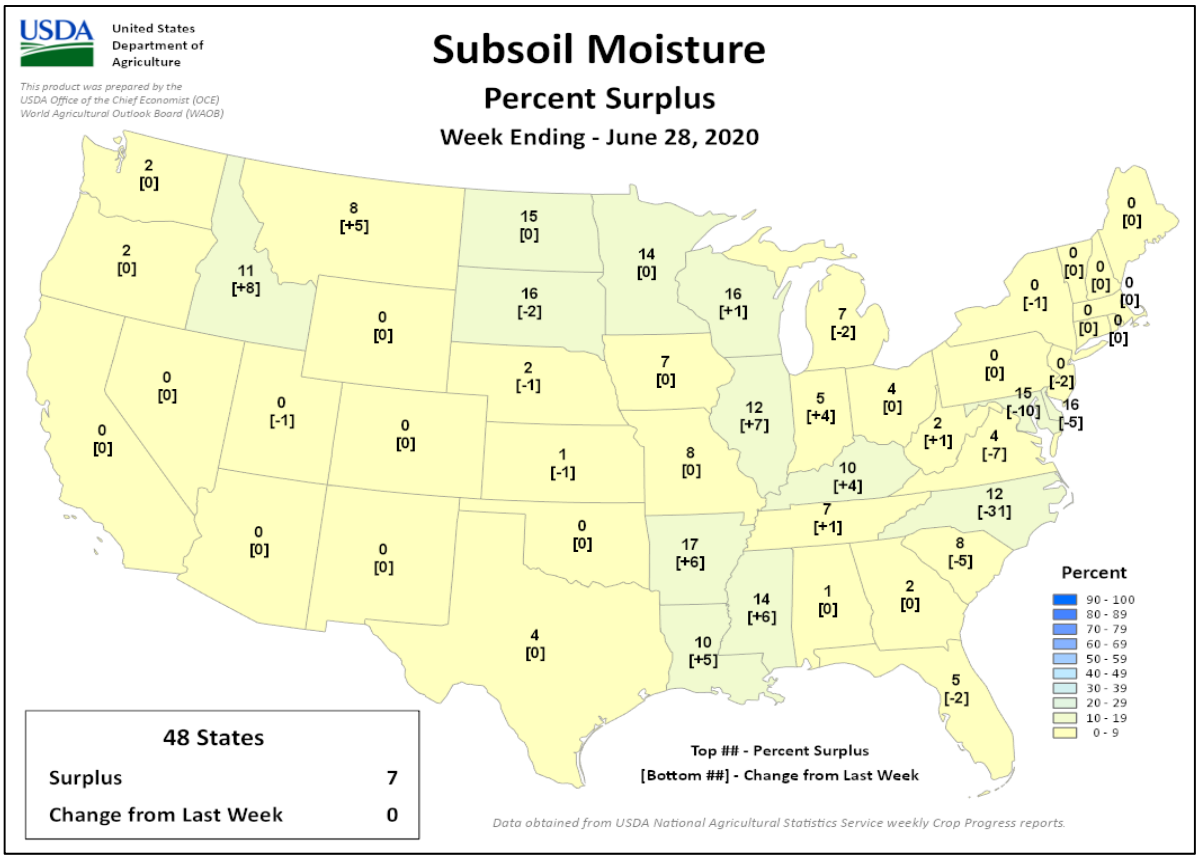


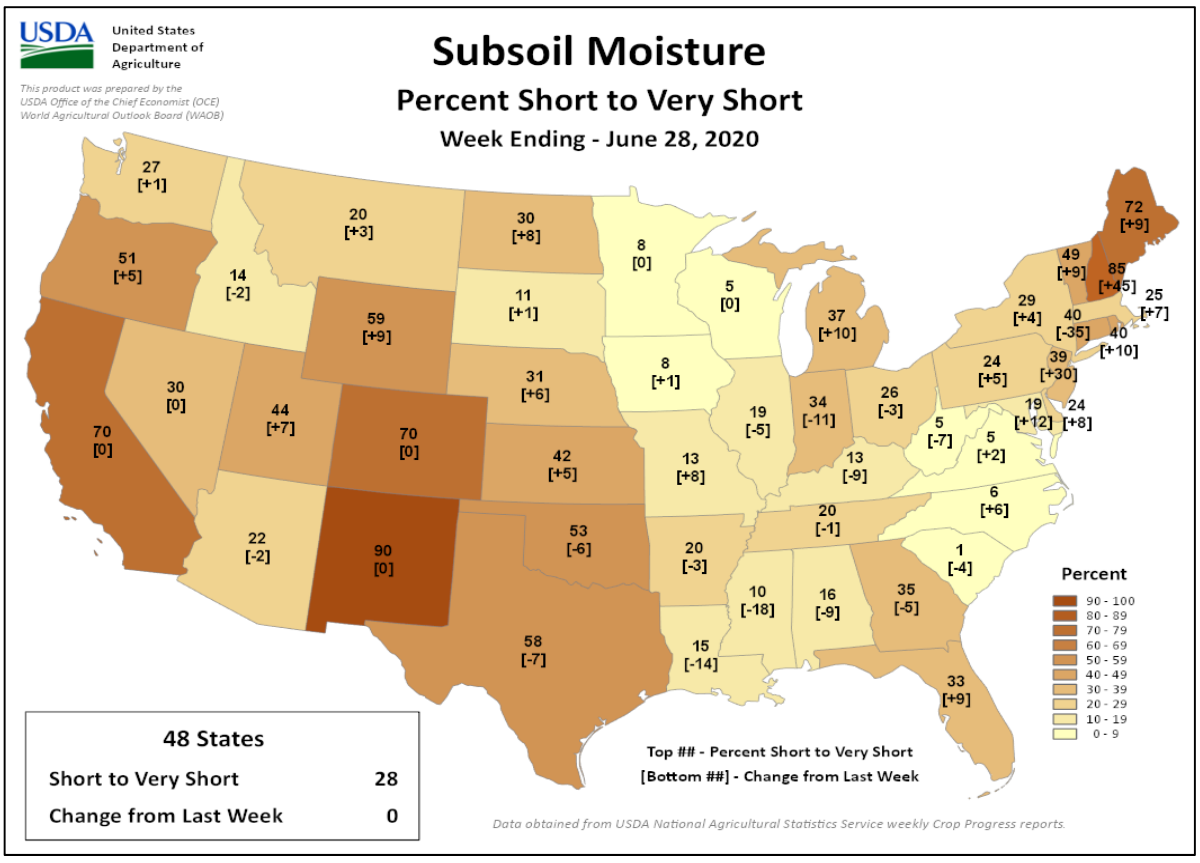


Crop Progress and Condition

Week Ending June 28, 2020

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





International Weather and Crop Summary

June 21-27, 2020

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

HIGHLIGHTS

EUROPE: Widespread showers continued, maintaining good to excellent moisture supplies for later-developing winter crops as well as vegetative spring grains and summer crops.

WESTERN FSU: Warm, unsettled weather maintained mostly favorable conditions for vegetative summer crops but slowed winter crop drydown and harvesting.

EASTERN FSU: Cool, showery weather favored spring grain development and eased pockets of short-term dryness and drought, while seasonably hot, sunny weather promoted cotton development in the south.

MIDDLE EAST: Scattered showers in central and northern Turkey maintained good early season prospects for vegetative to reproductive summer crops.

SOUTH ASIA: Monsoon showers overspread all of India earlier than usual, encouraging rapid planting of summer (kharif) crops.

EASTERN ASIA: Consistent rainfall across eastern China maintained or boosted moisture supplies for summer crops.

SOUTHEAST ASIA: Drier-than-normal weather returned to much of Thailand and Indochina, limiting rice sowing and establishment.

AUSTRALIA: Showers benefited vegetative winter crops in some areas, while drier weather slowed crop development elsewhere.

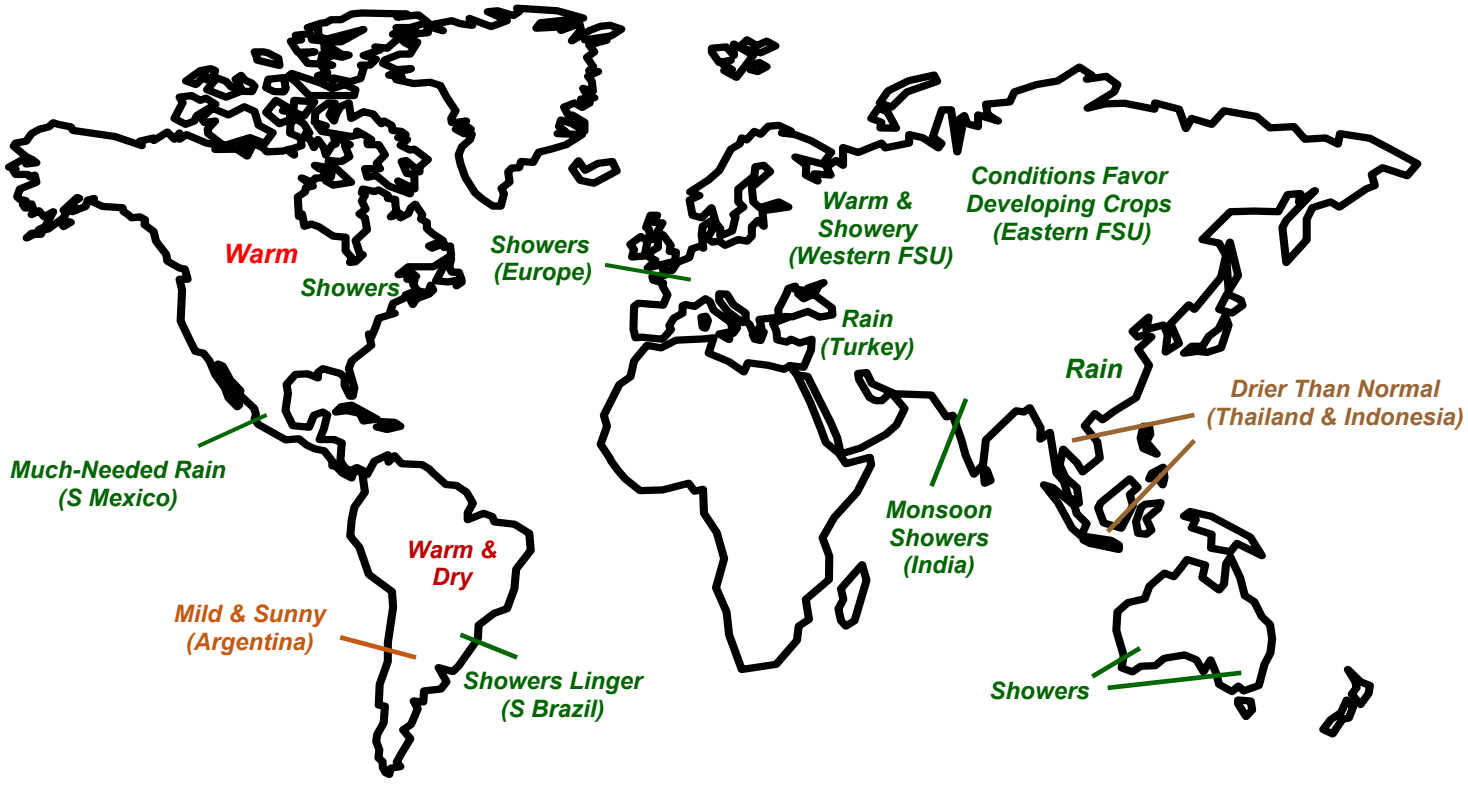
ARGENTINA: Mild weather and sunshine favored emerging winter grains.

BRAZIL: Lingering showers benefited wheat and immature summer crops in the south.

MEXICO: Much-needed rain fell across the southern plateau corn belt.

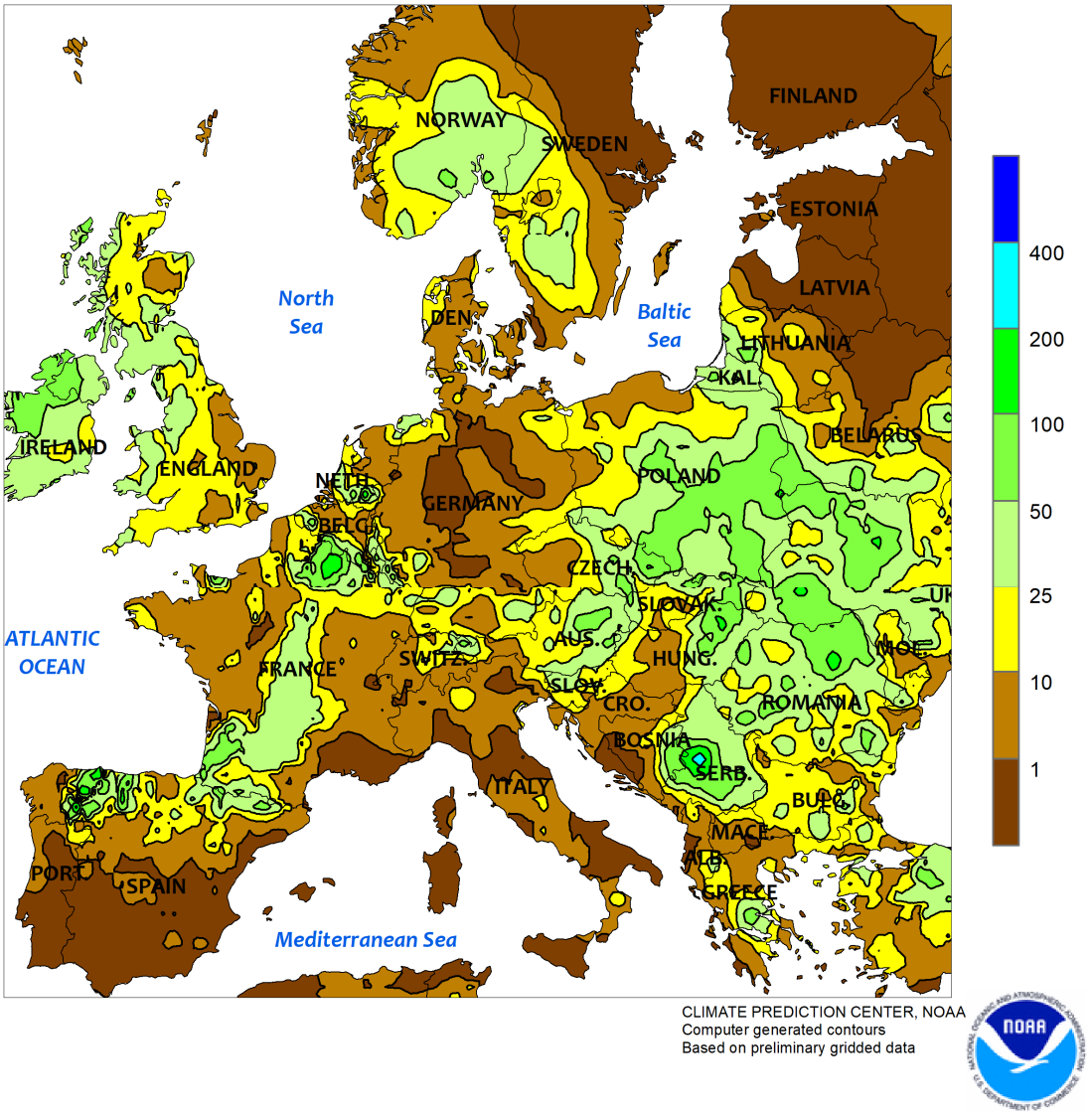
CANADIAN PRAIRIES: Warm weather promoted spring crop growth, but additional moisture would be welcome in spots.

SOUTHEASTERN CANADA: Warm weather, accompanied by scattered light showers, maintained mostly favorable conditions for summer crops and winter wheat.



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

EUROPE
Total Precipitation (mm)
June 21 - 27, 2020

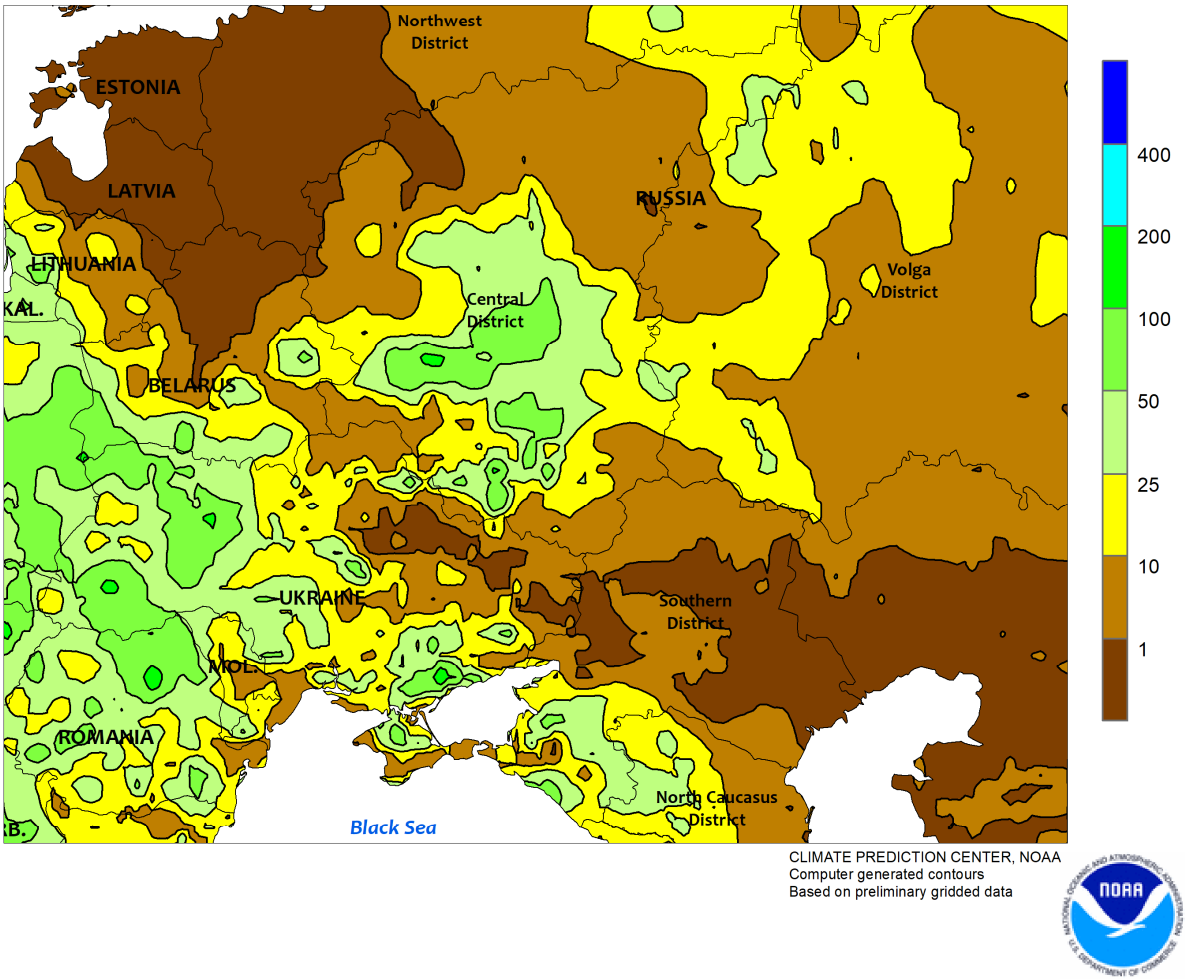


EUROPE

Unsettled, increasingly warm weather prevailed over most growing areas. A stationary area of high pressure well east of Europe lingered through most of the week, continuing to prevent storms from exiting the region. Showers were again widespread, though rain was lighter than previous weeks over western and central Europe (2-20 mm), with some locales in Germany missing out entirely; the somewhat drier weather was favorable for winter crop drydown and harvesting. Farther east, moderate to heavy rainfall (10-100 mm, locally more) was reported from Poland into Greece and the Balkans, maintaining adequate to abundant moisture supplies for vegetative spring grains and summer crops but slowing winter crop maturation and drydown. After a recent cool spell, temperatures averaged 2 to 5°C above normal over much of western and northern Europe (as much as 9°C above normal in Scandinavia), with near-normal temperatures confined to Greece and immediate environs.

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

WESTERN FSU
Total Precipitation (mm)
June 21 - 27, 2020

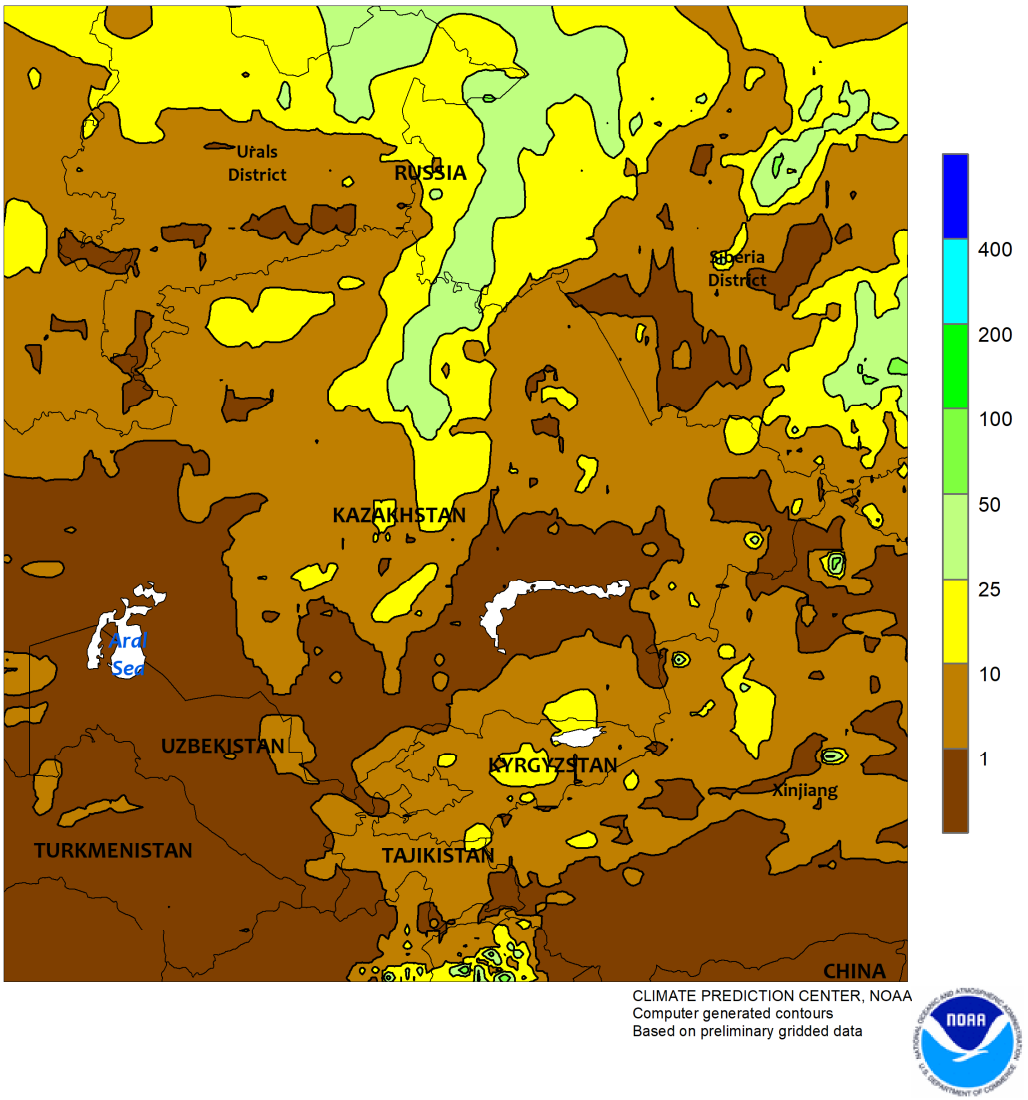


WESTERN FSU

Lingering heat was again accompanied by widespread showers and thunderstorms, although dry weather persisted in parts of west-central Russia. An area of high pressure lingered over western Russia for much of the week, sustaining the recent spell of 30-degree heat; however, daytime peak readings (30-35°C) were not as extreme as earlier in June, and this past week's average temperature anomaly (1-4°C above normal) abated somewhat as well. Showers and thunderstorms continued to rotate clockwise around the perimeter of the high, with weekly totals ranging from 10 to 50 mm in southwestern Russia to locally more than 75 mm from western Ukraine northeastward into southern Belarus and northwestern Russia. The rain maintained good to excellent early season prospects for vegetative summer crops, although the wet weather was not ideal for winter crop drydown and harvesting. Despite the widespread showers, drier weather (5 mm or less) prevailed from northeastern Ukraine eastward into the southern Volga District; eastern-most portions of the Volga District have been very dry over the past 60 days (25-50 percent of normal) and will need moisture soon as spring grains approach reproduction. By week's end, corn was approaching reproduction in the climatologically warmer growing areas of southern Russia, while the Black Sea region's sunflowers and soybeans were on pace to reach reproduction in mid-July.

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

EASTERN FSU
Total Precipitation (mm)
June 21 - 27, 2020



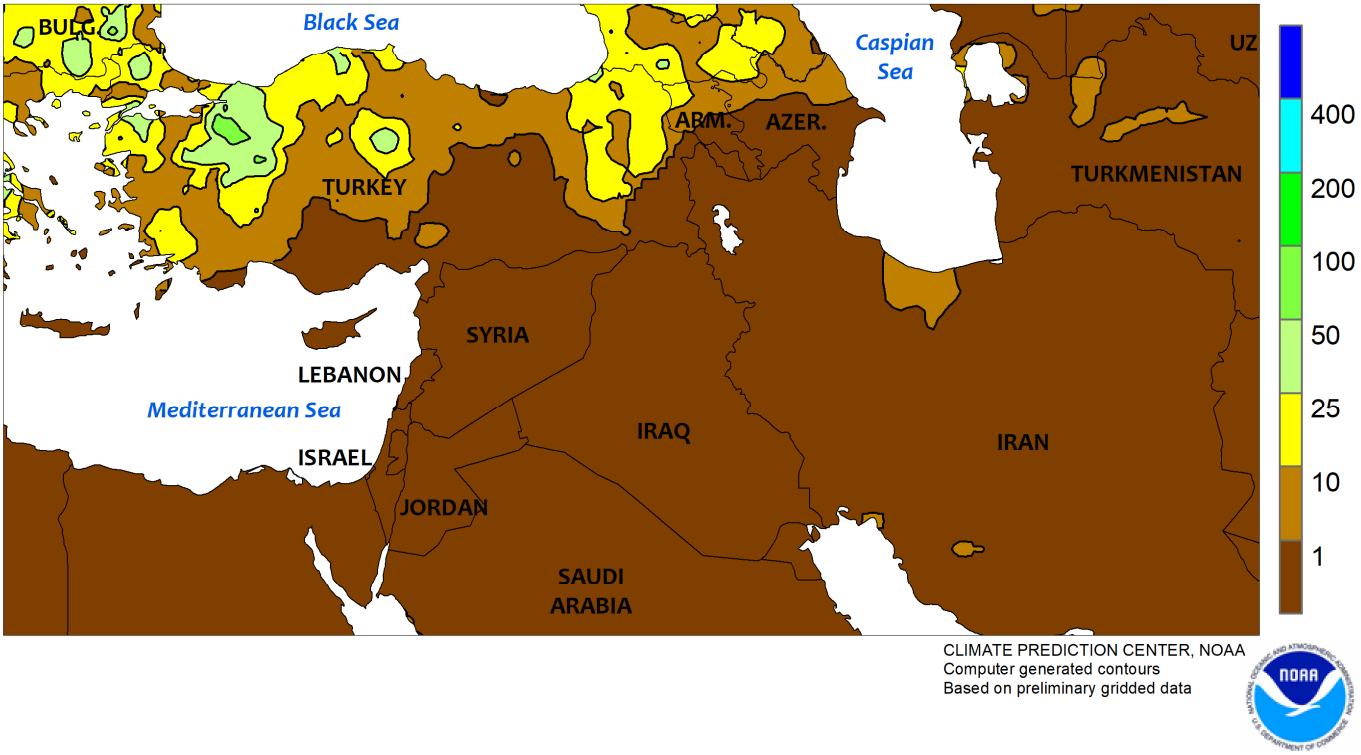
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded data

EASTERN FSU

Cool but showery weather expanded over the spring wheat belt, while sunny, seasonably hot conditions prevailed in cotton areas to the south. A cold front produced 5 to 50 mm of rain (locally more) across north-central Kazakhstan and central Russia, easing short-term dryness and improving prospects for vegetative spring wheat and barley. Furthermore, temperatures averaged up to 6°C below normal, alleviating any lingering concerns from a hot, dry start to June. Similar showers were also observed in southern portions of Russia's Siberia District, which on top of last week's rain helped ease the lingering impacts of spring drought and improved moisture for vegetative wheat. Despite the unsettled weather pattern, mostly dry weather exacerbated soil moisture losses in west-central portions of the Siberia District (Novosibirsk), where 30-day rainfall has tallied locally less than 50 percent of normal. Farther south, sunny skies and near-normal temperatures favored the development of squaring to flowering cotton in Uzbekistan and environs. Satellite-derived vegetation health data depicted conditions on par or slightly better than last year over central and eastern Uzbekistan but worse than last year in Turkmenistan and western Uzbekistan.

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

MIDDLE EAST
Total Precipitation (mm)
June 21 - 27, 2020



MIDDLE EAST

Showers over Turkey contrasted with seasonal dryness elsewhere. Another in a series of slow-moving disturbances produced scattered showers and thunderstorms over central and northern Turkey, with amounts varying widely from 2 to 60 mm. Moisture supplies and irrigation reserves remained good to excellent for summer crops, which were approaching reproduction in climatologically warmer southern growing areas (Adana and the GAP region) but still largely vegetative in the north (Black Sea Coast), west (Aegean), and northwest (Thrace). Sunny skies and seasonal heat across the rest of the region promoted winter grain harvesting and other fieldwork.

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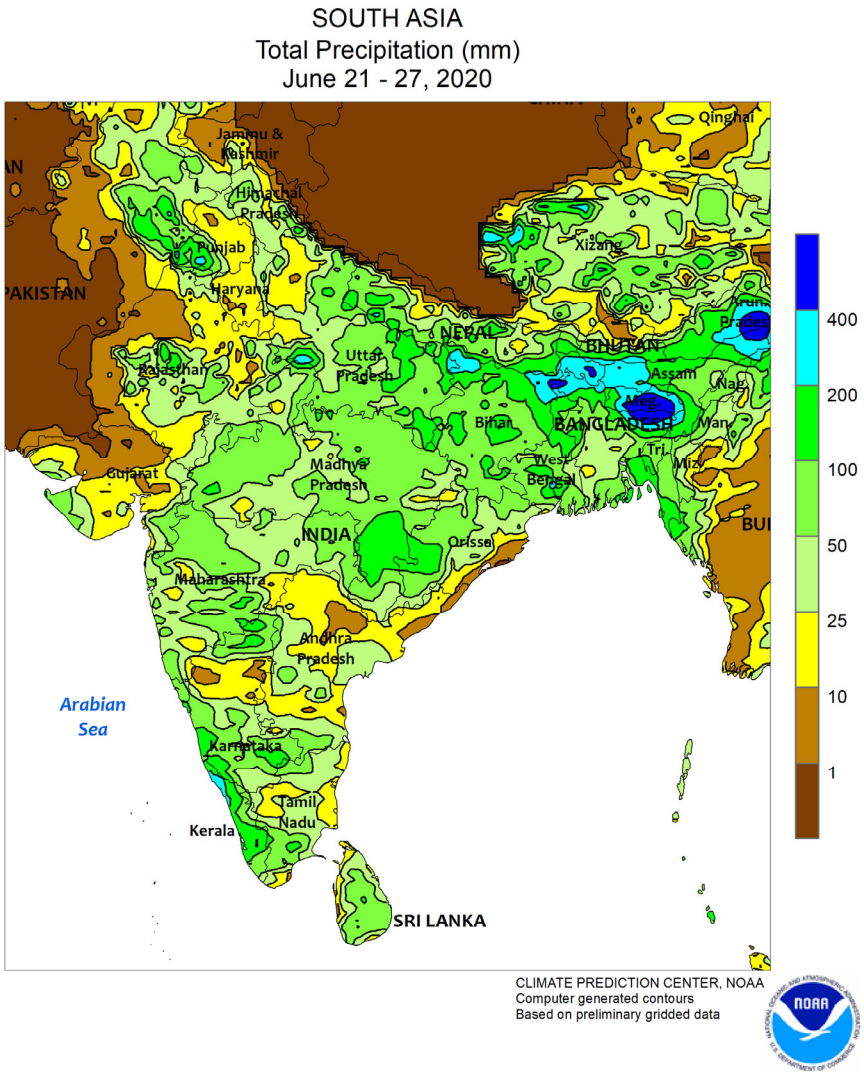
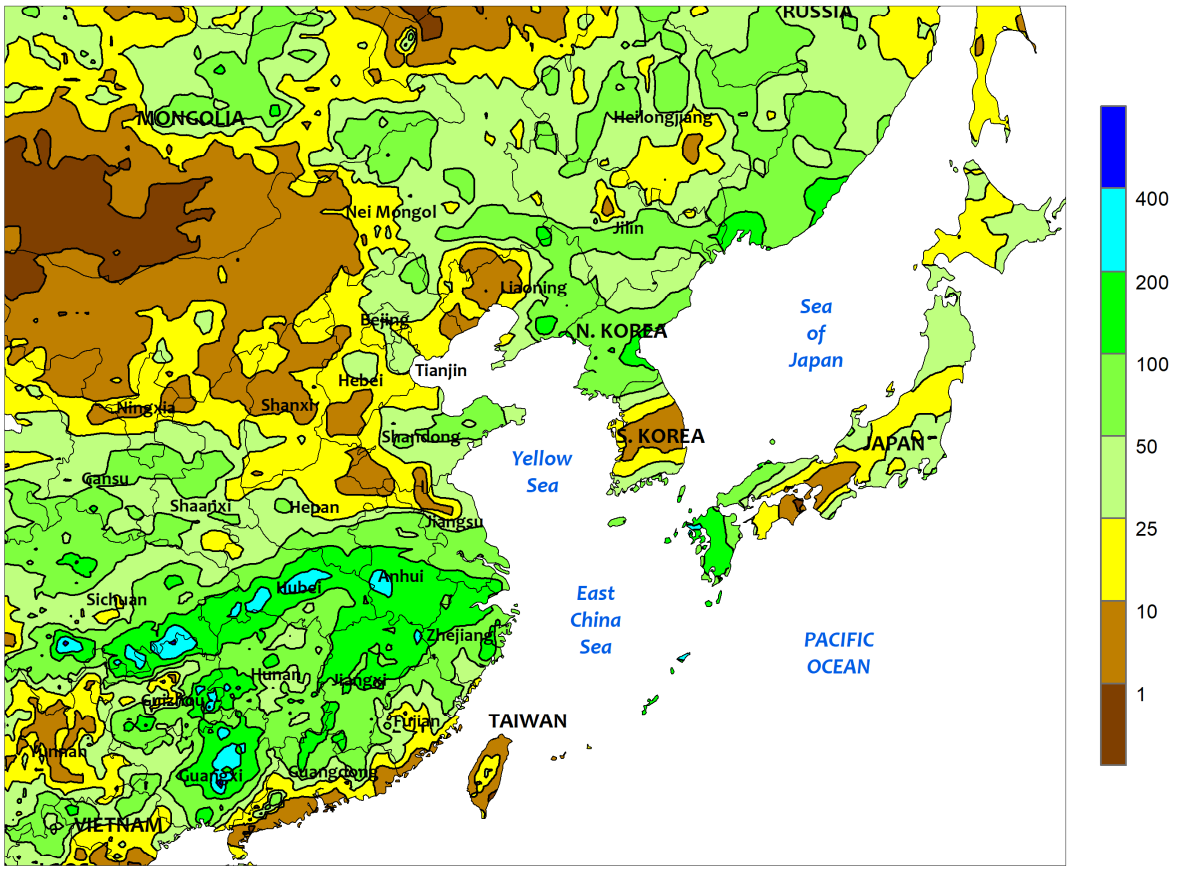


SOUTH ASIA

The summer monsoon continued progressing northward, overspreading all of India earlier than usual and encouraging widespread sowing. Light monsoon showers (10-25 mm) reached northern-most portions of India and Pakistan by the end of the period, nearly two weeks ahead of average. Meanwhile, widespread, seasonably heavy rainfall (50-100 mm or more) in eastern India and Bangladesh continued to boost moisture supplies for rice, although some localized flooding was reported in far northeastern India where totals surpassed 400 mm. In contrast, showers were unseasonably light (less than 50 mm) across large portions of the center-west and south, limiting soil moisture replenishment for cotton and oilseed sowing.

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

EASTERN ASIA
Total Precipitation (mm)
June 21 - 27, 2020



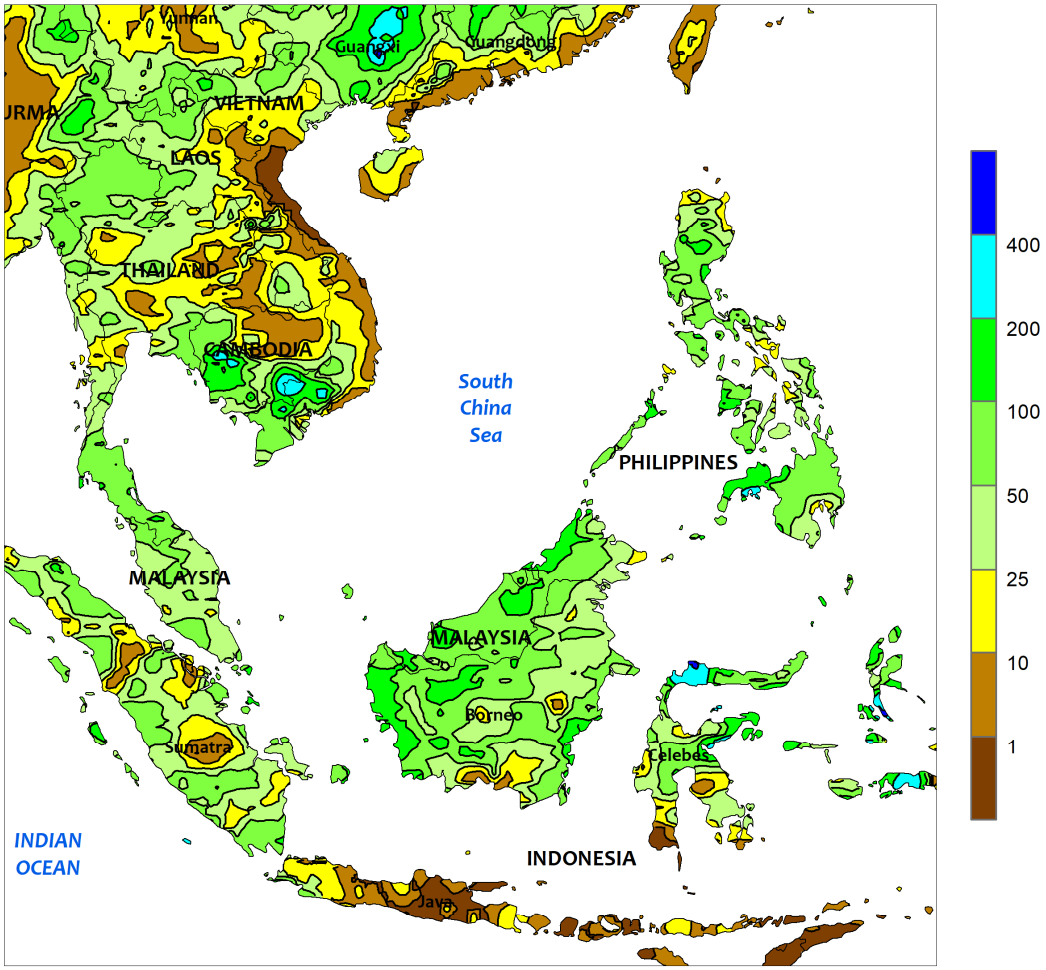
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded data

EASTERN ASIA

Near-daily rainfall across eastern China maintained or boosted moisture supplies for vegetative summer crops. In the northeast, Heilongjiang and the surrounding areas received over 25 mm of rain, including previously dry portions of eastern Liaoning, benefiting corn, soybeans, and rice. Showers also benefited summer crops on the North China Plain (central and western prefectures remained dry, however) and across the south, with the highest totals (over 100 mm) in the Yangtze Valley. Meanwhile, seasonable warmth (over 30°C) and the lack of stressful heat in western China maintained good to excellent crop conditions for irrigated cotton. Elsewhere, crops in North Korea benefited from increased rainfall (50-100 mm or more) following prolonged June dryness, while drier weather prevailed in South Korea and Japan.

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

SOUTHEAST ASIA
Total Precipitation (mm)
June 21 - 27, 2020

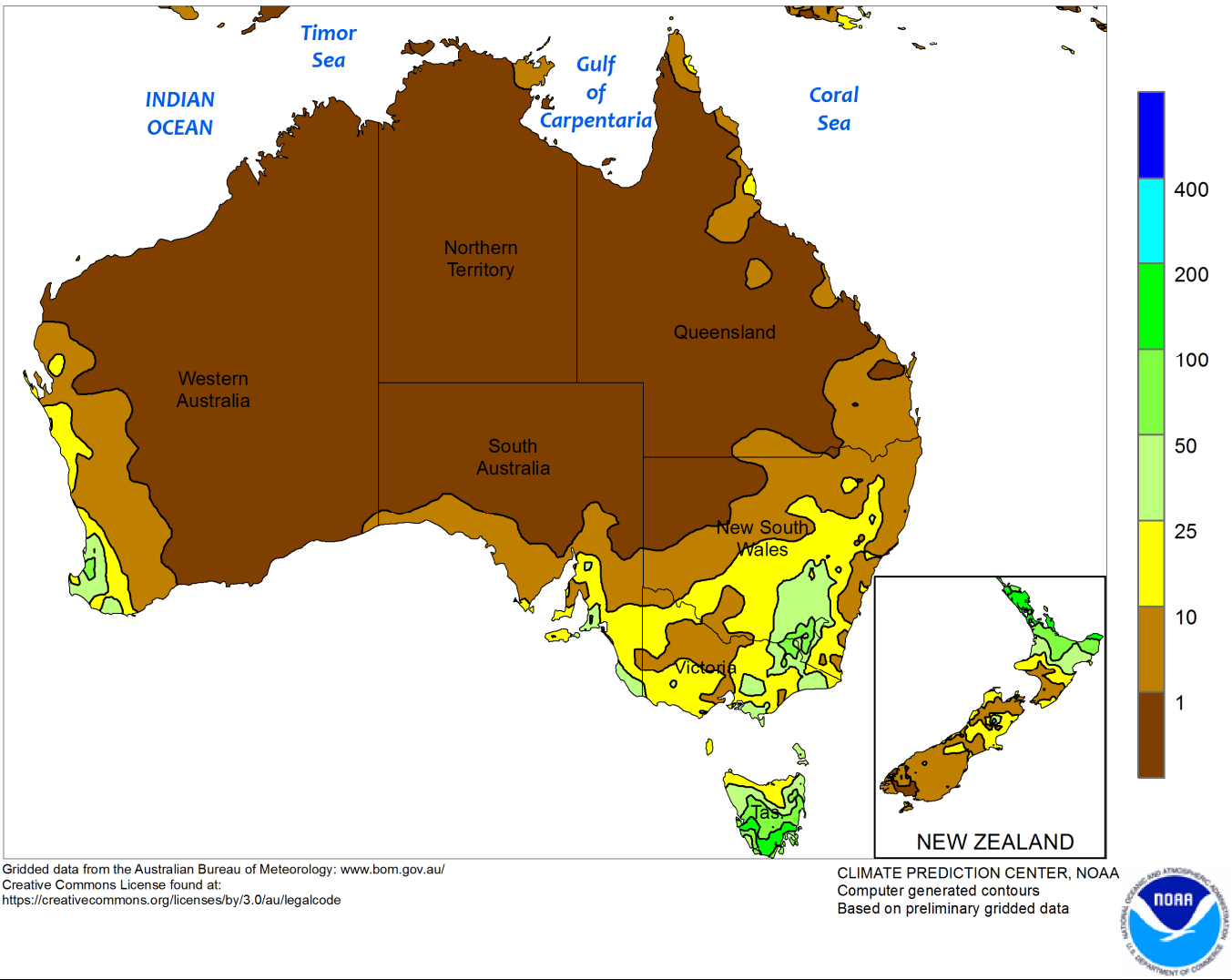


CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded data

SOUTHEAST ASIA

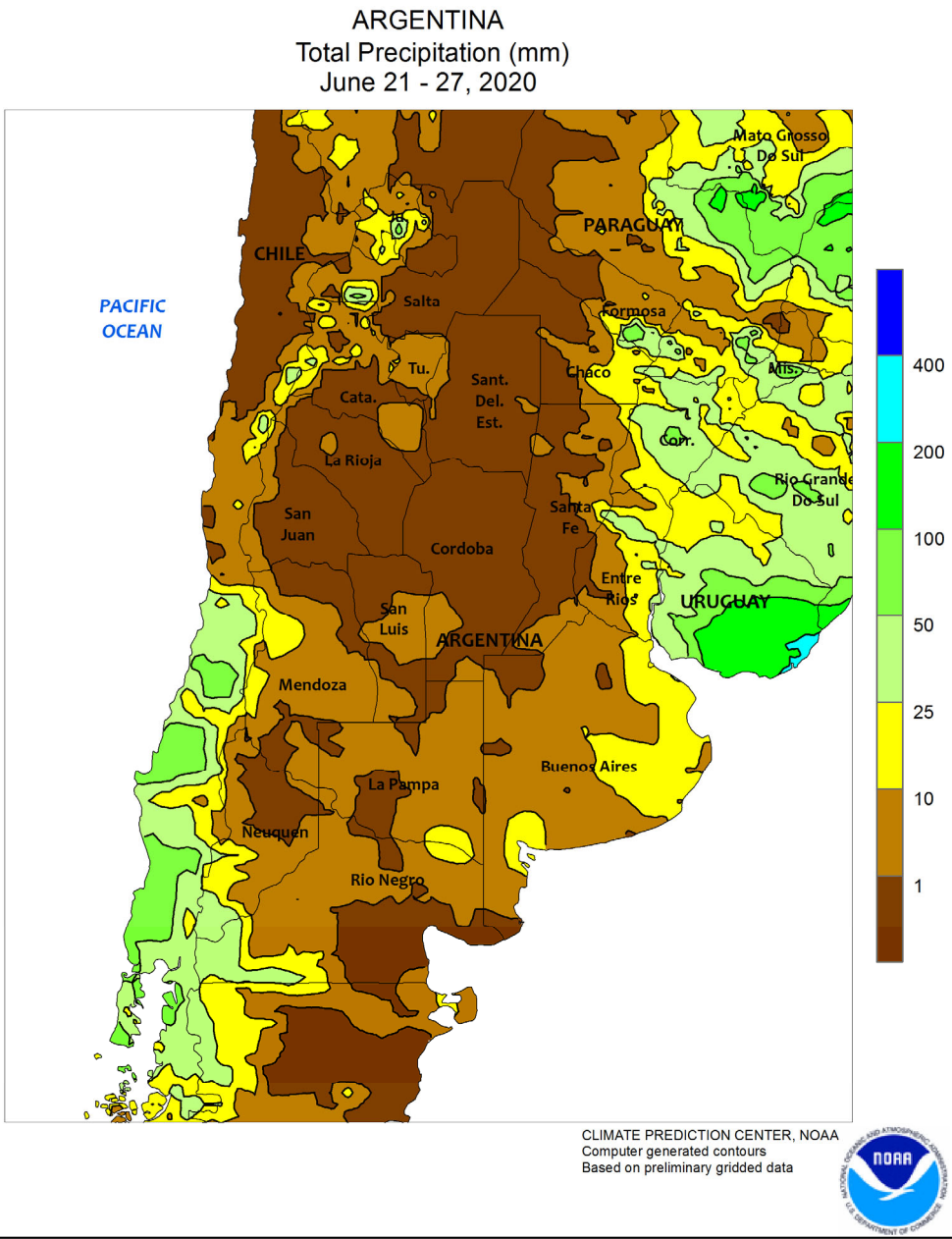
Monsoon showers were less widespread across Thailand and Indochina after most areas received above-average amounts last week. Most locales received less than 25 mm of rain for the week, with higher amounts limited to northern portions of Thailand and environs. Despite the long growing season, more moisture is needed now to encourage rice sowing and aid establishment. Meanwhile in the Philippines, widespread showers (24-100 mm or more) prevailed in all but the northern-most districts, benefiting rice and corn. Farther south, soil moisture remained adequate to abundant for oil palm in Malaysia and Indonesia following another round of widespread precipitation (25-100 mm, locally more).

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



AUSTRALIA

Scattered showers benefited vegetative winter grains and oilseeds in parts of the wheat belt, while pockets of drier weather slowed crop development elsewhere. The heaviest rain (15-50 mm) fell across western portions of the Western Australia wheat belt, southeastern South Australia, and central and southern New South Wales, helping to maintain good early season crop prospects. In contrast, mostly dry weather covered parts of northern Victoria, extreme northern New South Wales, and southern Queensland, reducing the soil moisture available to vegetative wheat, barley, and canola. More rain would be welcome in the southern areas to help sustain good early season yield prospects, while in the north more consistent rainfall is needed to aid winter crop establishment and to help the region further recover from severe, long-term drought. Temperatures averaged 1 to 2°C above normal in the west and near normal in the south and east.

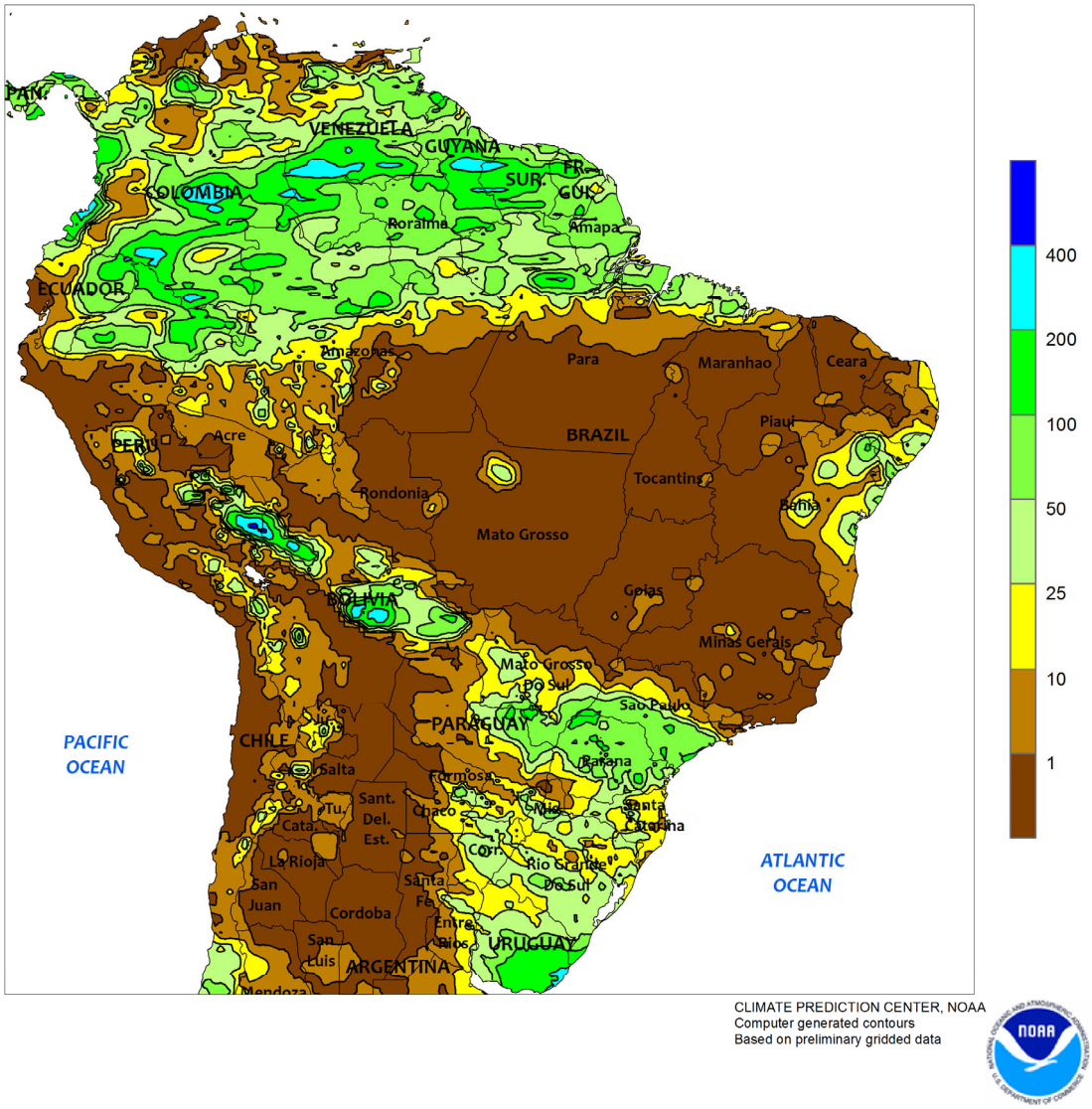


ARGENTINA

Drier conditions prevailed over central Argentina, following last week's beneficial showers. Aside from a few lingering patches of light to moderate rain (accumulations greater than 10 mm) in Buenos Aires, nearly all high-yielding farming areas were dry; seasonably mild weather accompanied the week-to-week drop in rainfall, with daytime highs peaking from the lower 10s to lower 20s (degrees C). Farther north, showers (greater than 10 mm) returned to cotton areas in and around eastern Chaco but seasonable dryness continued in the northwest. According to the government of Argentina, corn and cotton were 82 and 95 percent harvested, respectively, as of June 25. At 64 percent complete, wheat planting was well ahead of last year's pace (51 percent last year); similarly, barley was 53 percent planted, 20 points ahead of last year's pace.

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

BRAZIL
Total Precipitation (mm)
June 21 - 27, 2020

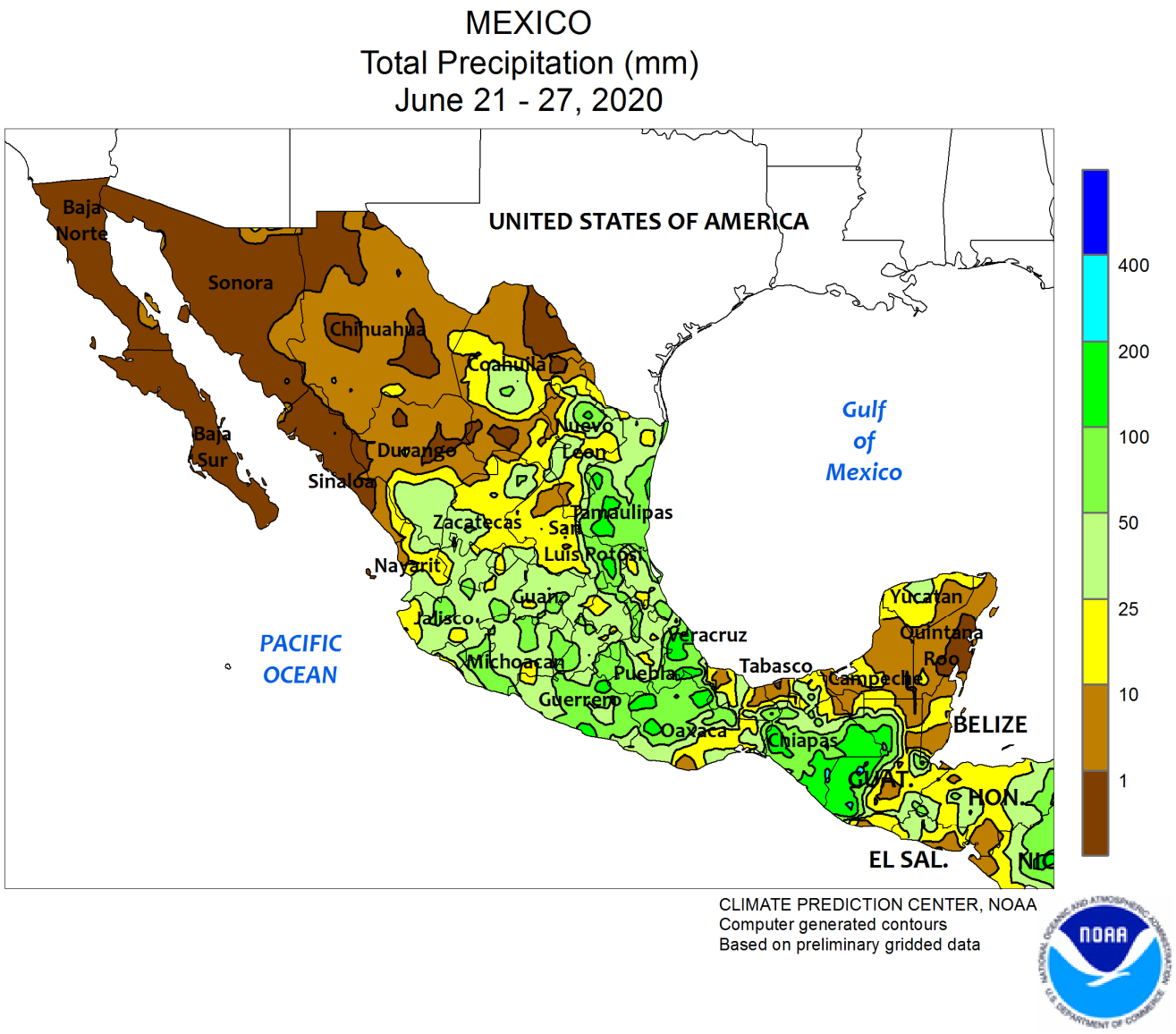


CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded data

BRAZIL

Lingering showers maintained generally favorable prospects for emerging wheat while providing an additional late-season boost in moisture for immature corn. Rainfall totaled 10 to 25 mm locally from southern Mato Grosso do Sul and Sao Paulo southward through Rio Grande do Sul, with a few prevailing pockets of dryness. Warm weather (highest daytime temperatures ranging from the middle 20s to lower 30s degrees C) favored crop development as well, with just a low potential for frost outside of the major corn areas. According to the government of Parana, second-crop corn was 4 percent harvested as of June 22, with 96 percent of the remaining crop ranging from filling to mature in development; wheat was 89 percent planted. As of June 25, wheat was 74 percent planted in Rio Grande do Sul. Elsewhere, warm, sunny weather promoted growth of corn and cotton in the main northern production areas, as seasonal showers (locally greater than 10 mm) were confined to the northeastern coast. Second crop corn was reportedly 32 percent harvested in Mato Grosso as of June 26, lagging last year's pace by 8 points; cotton was 2 percent harvested, on par with the average pace for this time of year.

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

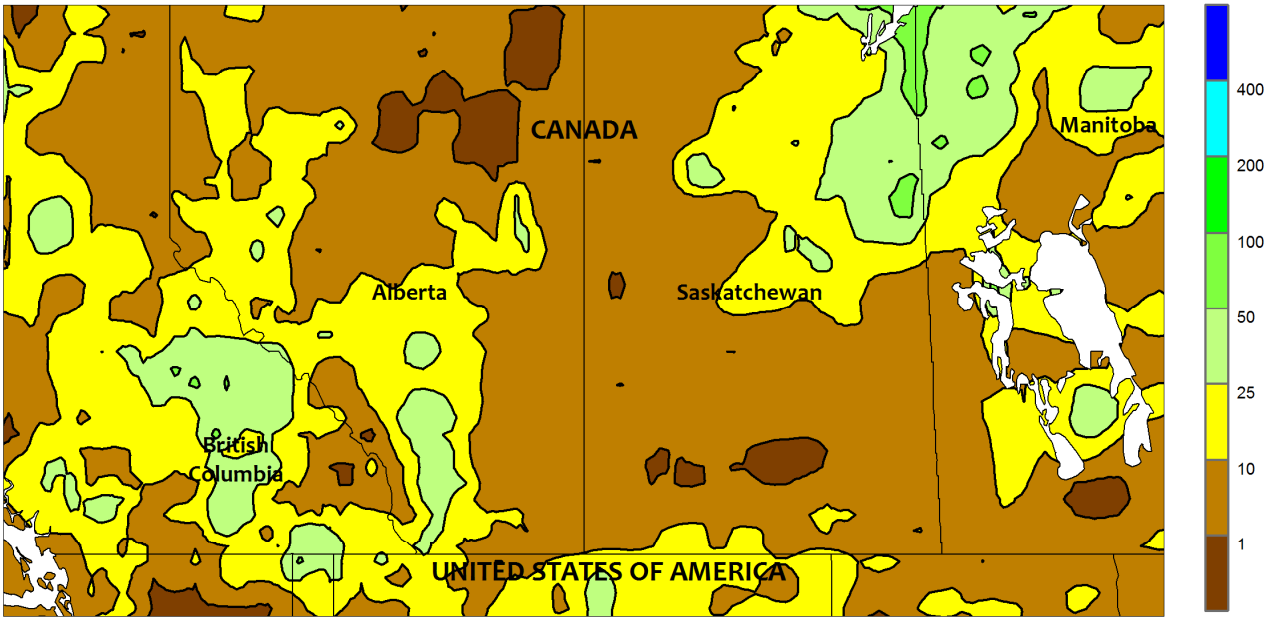


MEXICO

Rainfall intensified and spread westward across the southern plateau, delivering much-needed moisture for establishment of corn and other rain-fed summer crops. Following weeks of sporadic and unseasonably light showers, farming areas in and around Jalisco — Mexico's leading producer of summer corn — recorded the most widespread rainfall of the season, with numerous locations recording more than 50 mm. The timely rainfall also reached previously dry locations along the southern Pacific Coast (notably in Michoacan and Guerrero) and extended northward to Zacatecas and southern Durango. Elsewhere, heavy rain (25-50 mm, locally exceeding 100 mm) fell from Nuevo Leon and Tamaulipas southward to Oaxaca, and in Chiapas, maintaining generally favorable soil moisture for corn, soybeans, sugarcane, and other regionally important crops. In contrast, dryness and summer heat (daytime highs topping 40°C) continued throughout the northwest, maintaining high moisture requirements for livestock as producers await the onset of seasonal rainfall.

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

CANADIAN PRAIRIES
Total Precipitation (mm)
June 21 - 27, 2020



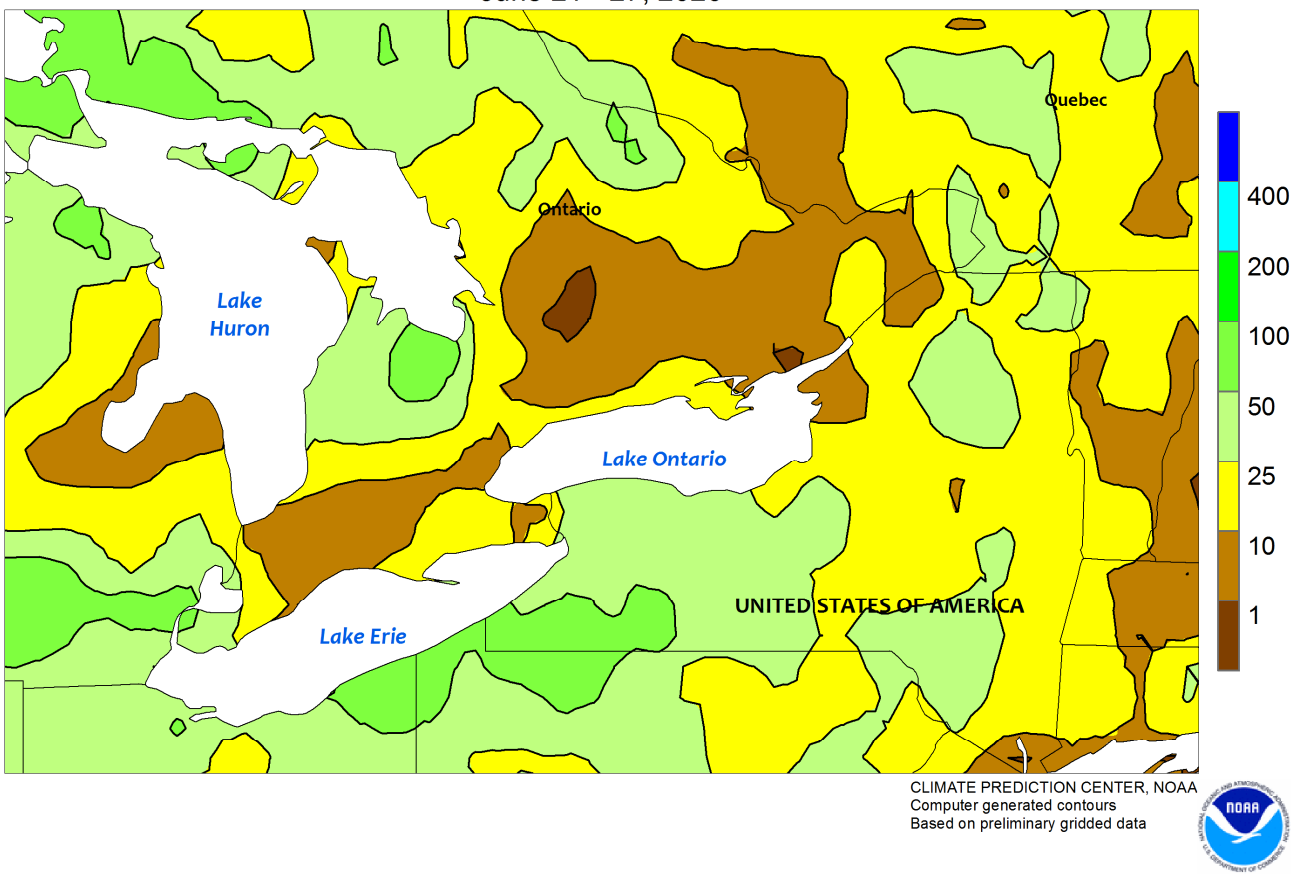
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded data

CANADIAN PRAIRIES

Warm, generally drier weather promoted rapid growth of spring crops and supported fieldwork, though the window for planting has ended for most crops. Weekly temperatures averaged 1 to 3°C above normal, with daytime highs peaking in the lower 30s (degrees C) from southeastern Alberta to Manitoba's Interlake Region. Nearly all agricultural areas reported rainfall totaling below 25 mm, with the majority of the Prairies recording less than 10 mm; the abundance of sunshine combined with the warmth favored spring crop growth as well as rapid germination of recently planted crops. Provincial reports for the period ending June 23 indicated crops were generally in favorable condition, though local problems with pests and dryness were noted.

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

SOUTHEASTERN CANADA
Total Precipitation (mm)
June 21 - 27, 2020



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

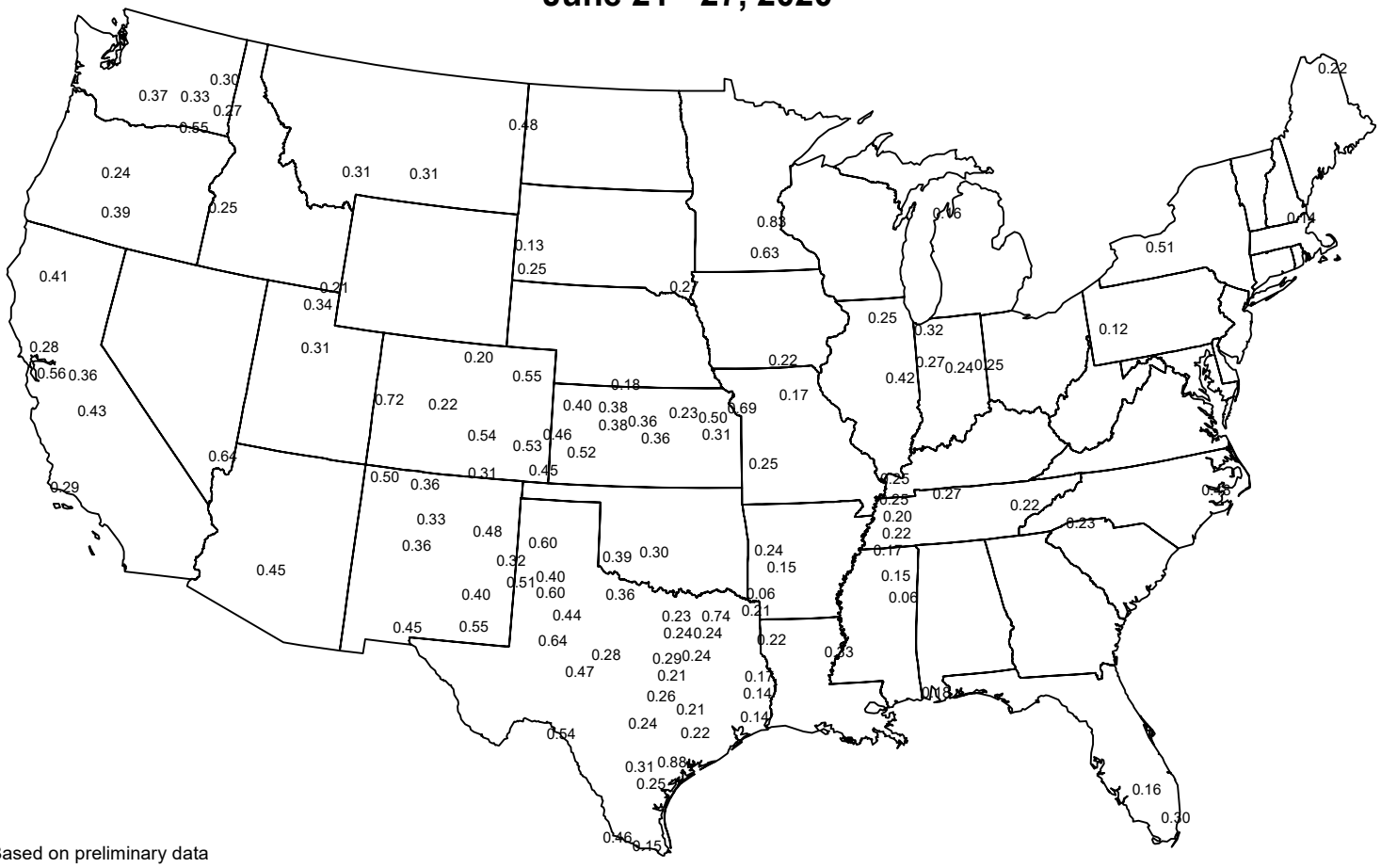
SOUTHEASTERN CANADA

Warm, showery weather benefited summer crops, winter wheat, and pastures across the region. Weekly temperatures averaged 1 to 3°C above normal in Ontario's western and central farming areas, and locally more than 5°C above normal farther east, including Quebec. Daytime highs reached the lower 30s (degrees C) on several days during the first half of the week as the first wave of showers passed through the area; temperatures stayed well above freezing, though nighttime lows fell below 10°C. Aside from a pocket of heavy rain (25-75 mm) east of Lake Huron, rainfall generally totaled below 25 mm, with numerous locations recording less than 10 mm. Although the dryness allowed for treatment of pests on wheat and other fieldwork, some locations were in need of moisture for summer crops following extended periods of unseasonably warm and dry weather.

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

Average Pan Evaporation (inches/day)

June 21 - 27, 2020



Based on preliminary data

USDA Agricultural Weather Assessments

Data obtained from the NWS Cooperative Observer Network.

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Correspondence to the meteorologists should be directed to:
***Weekly Weather and Crop Bulletin*, NOAA/USDA, Joint Agricultural Weather Facility, USDA South Building, Room 4443B, Washington, DC 20250.**
Internet URL: **http://www.usda.gov/oce/weather**
E-mail address: ***brippey@oce.usda.gov***

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