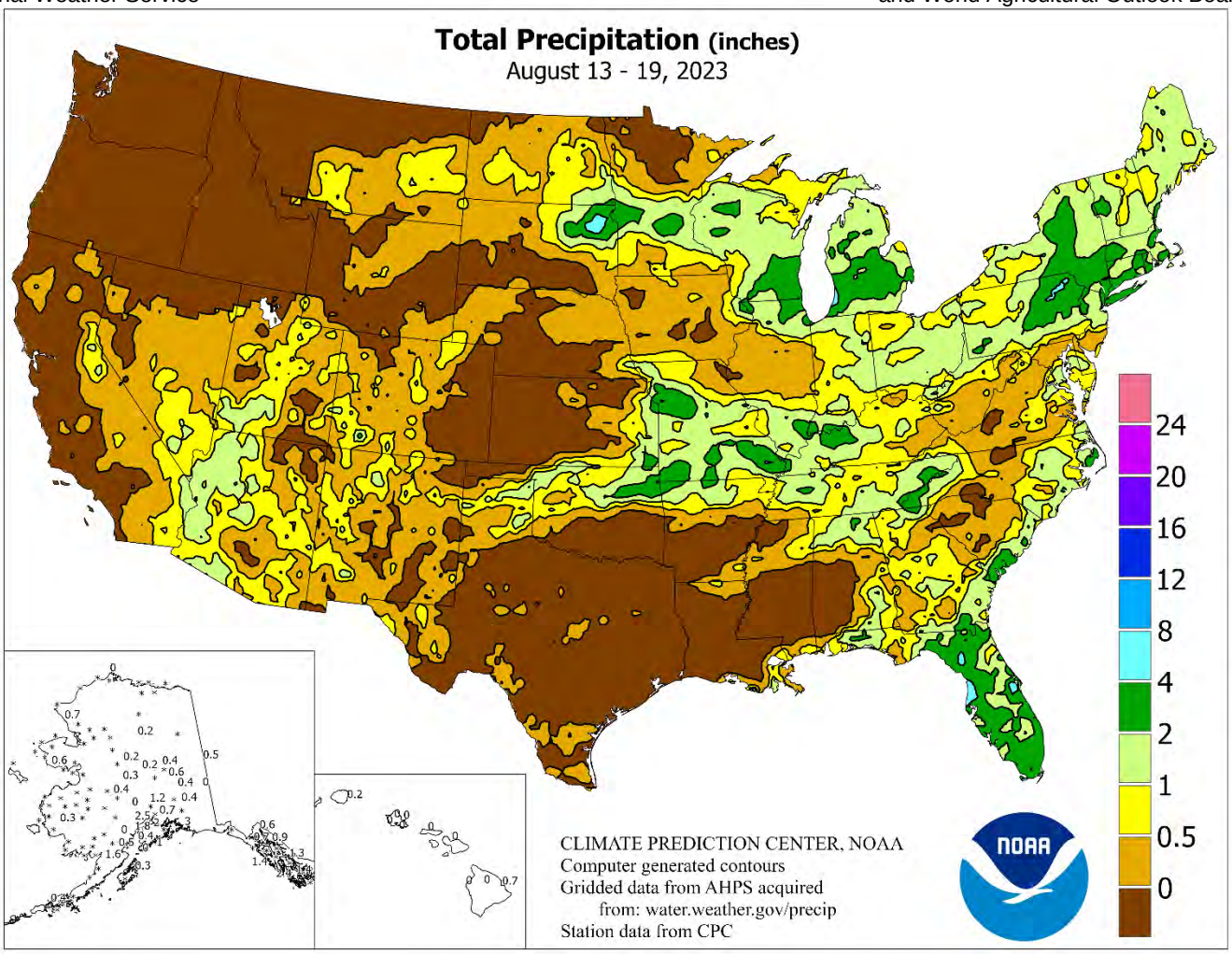
Volume 110, No. 34 www.usda.gov/oce/weather-drought-monitor August 22, 2023

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

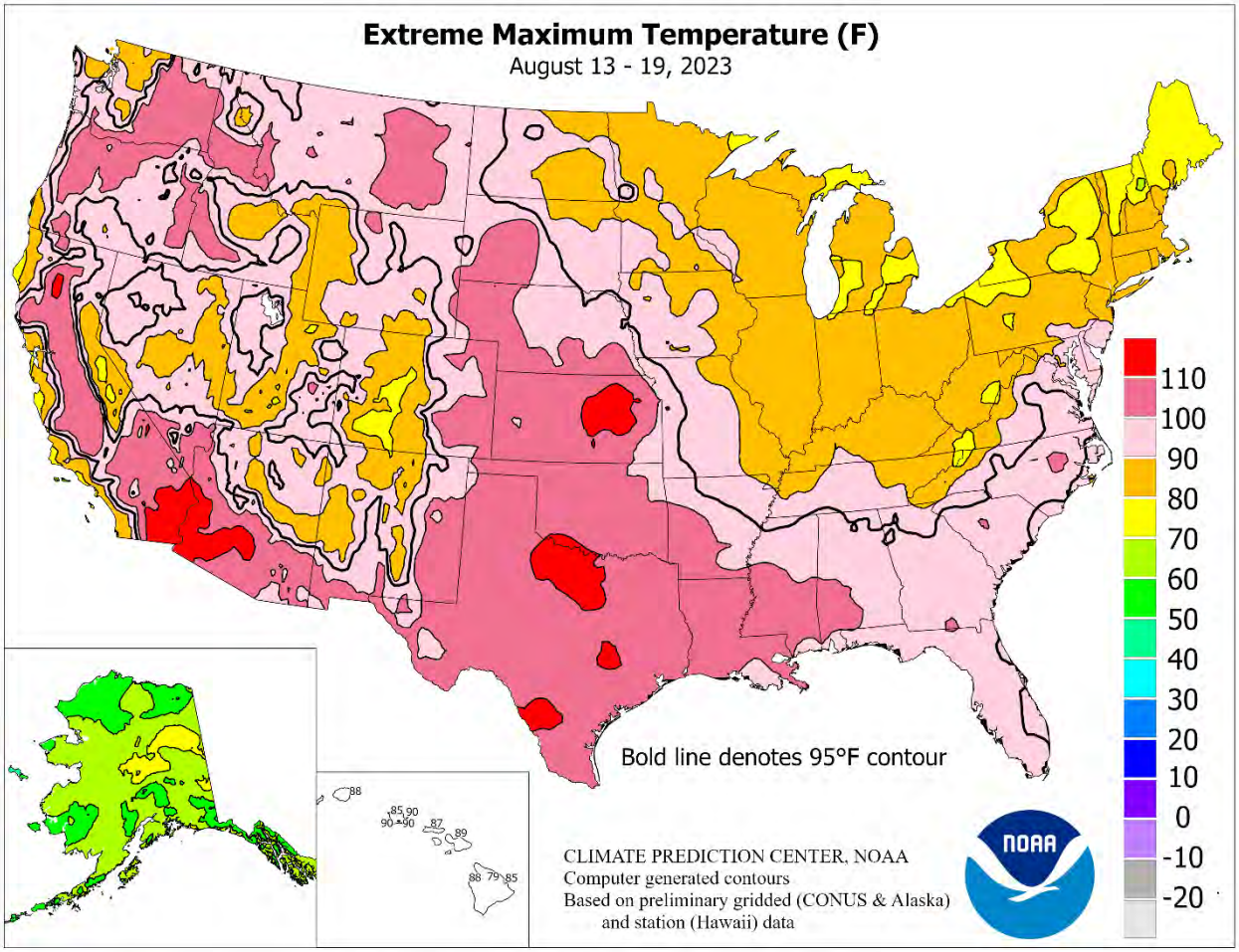
August 13 – 19, 2023

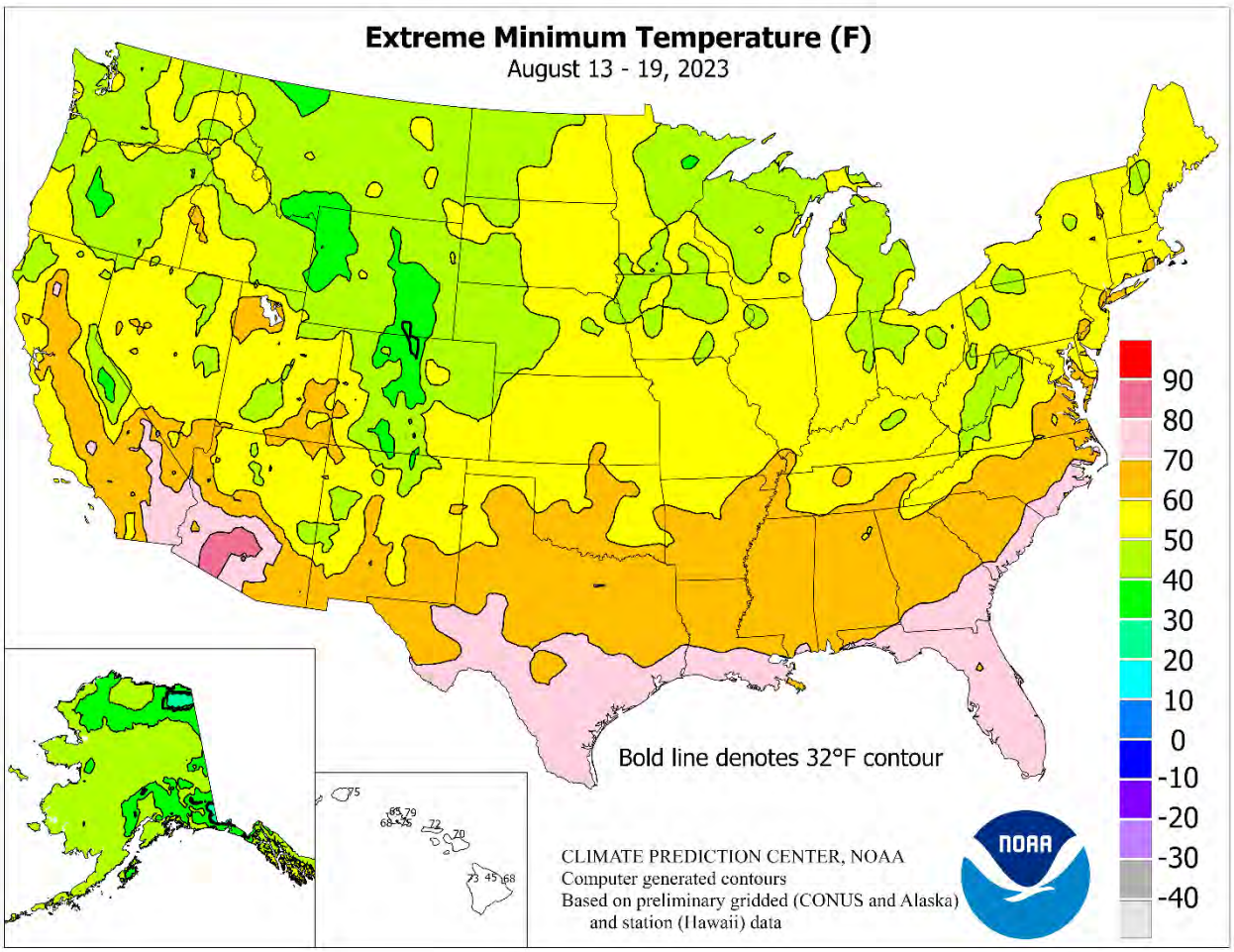
Highlights provided by USDA/WAOB

Dry weather across much of the **Plains** and parts of the **Midwest** promoted summer crops maturation. However, in areas where filling corn and soybeans lacked soil moisture, ongoing dryness potentially trimmed yield prospects. Meanwhile, a band of significant rainfall (generally 1 to 4 inches) stretched across the **northern Corn Belt into the Northeast**. A separate area of rain spanned the **southwestern Corn Belt** and the **Tennessee Valley**. Finally, a third area of locally heavy showers covered the **southern Atlantic region**. Across the **West**,

(Continued on page 3)

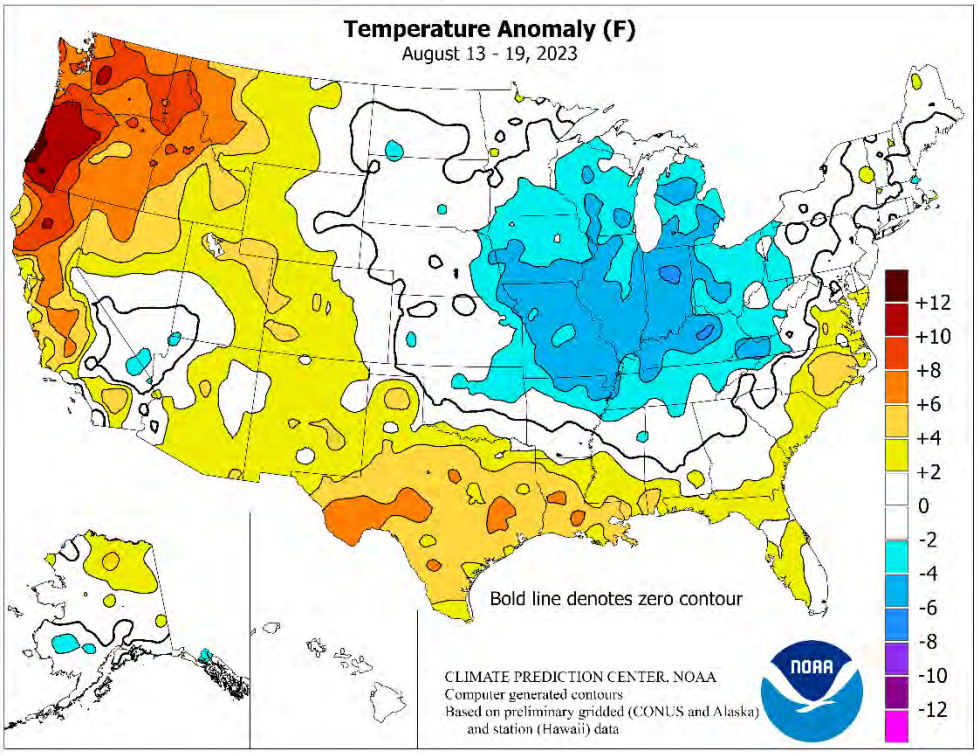
Contents


Extreme Maximum Temperature (F)
August 13 - 19, 2023
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
Bold line denotes 95°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS & Alaska)
and station (Hawaii) data
NOAA


Extreme Minimum Temperature (F)
August 13 - 19, 2023
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
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)

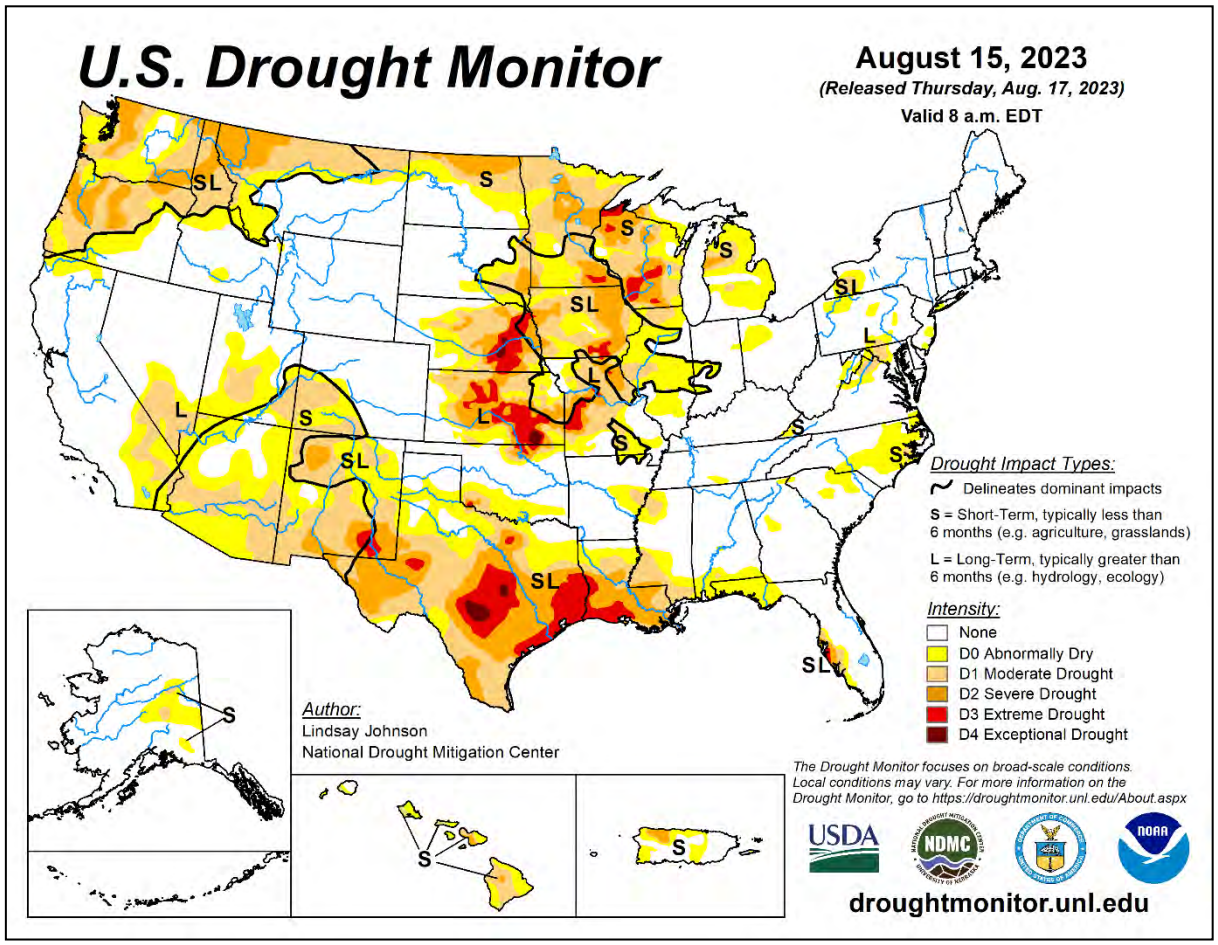
hot, mostly dry weather dominated the northern half of the region, while a monsoon-related surge delivered **Southwestern** showers. At week's end, Hurricane Hilary barreled northward toward the **Southwest**, preceded by scattered showers. Hours after moving ashore in **northwestern Mexico** on August 20, Hilary arrived in **southern California** as a tropical storm. More details on Hilary will appear next week. Elsewhere, weekly temperatures averaged 5°F or more above normal from **central Texas to the central Gulf Coast region**, along with portions of the **middle Atlantic Coast**. A larger area, covering much of **northern California** and the **Northwest**, experienced temperatures averaging at least 5 to 10°F above normal. In contrast, near- or below-normal temperatures dominated the **northern and central Plains**, **mid-South**, **Midwest**, and **Northeast**. Readings averaged as much as 5°F below normal from the **middle Mississippi Valley into the lower Great Lakes region**.

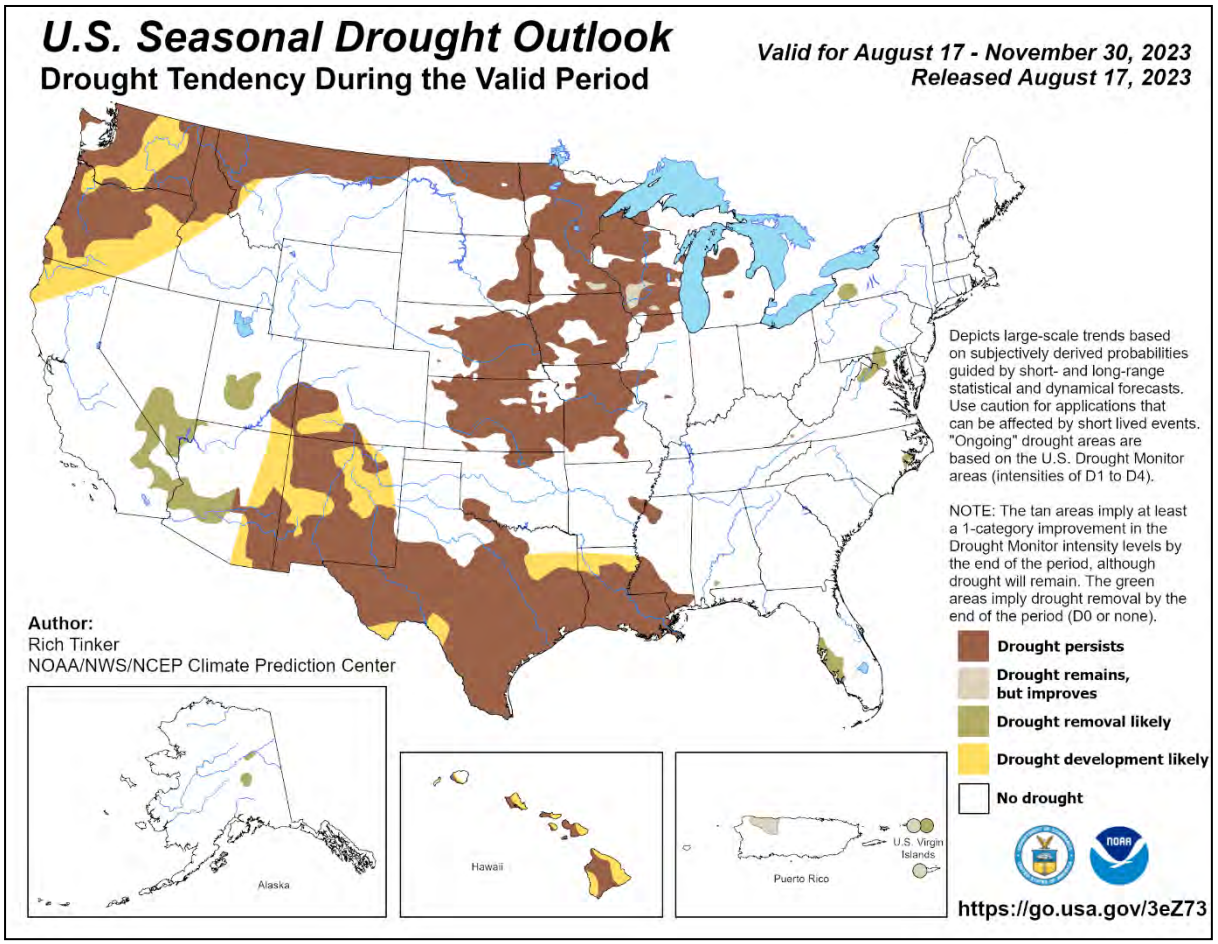


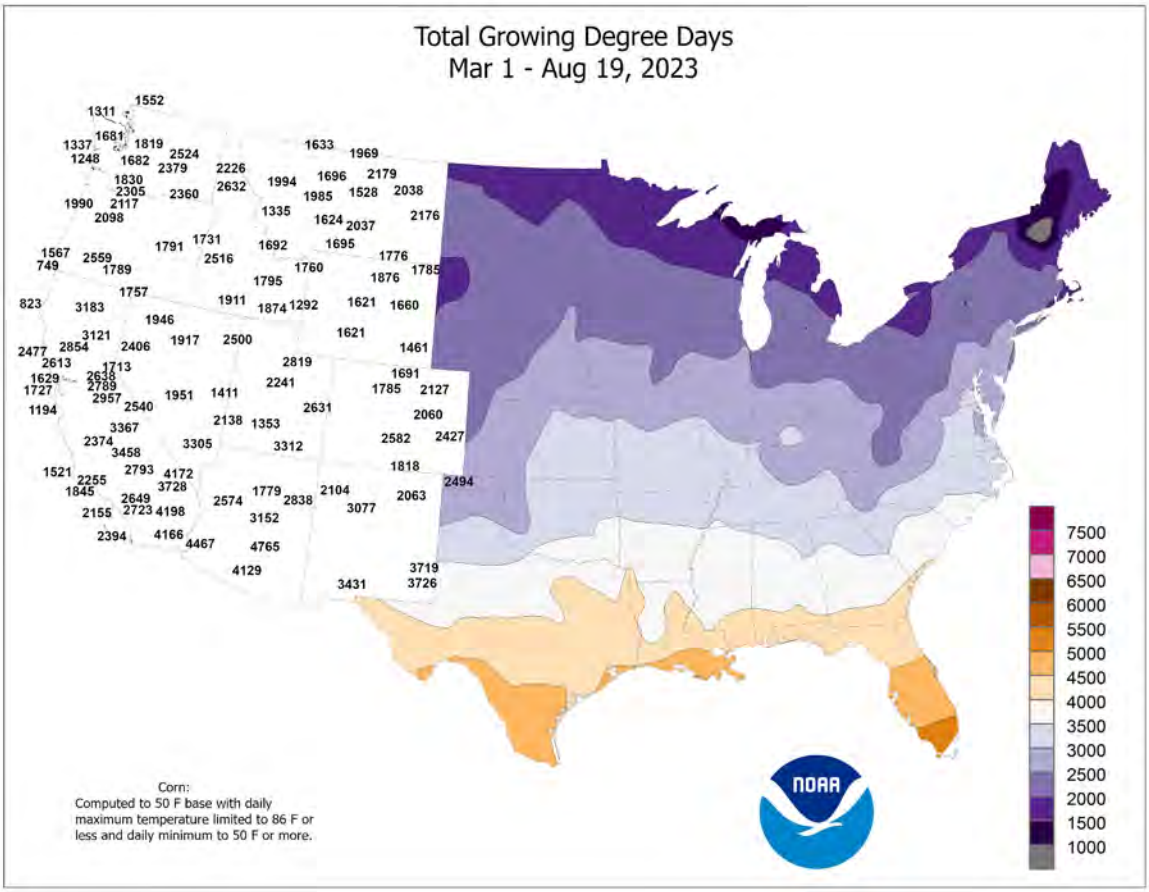
As the week began, blazing heat covered the **Deep South** and **Pacific Northwest**. August 14 featured monthly record high temperatures in **Oregon** locations such as **Troutdale** (110°F), **Portland** (108°F), and **Hillsboro** (107°F). **Vancouver, WA** (108°F on the 14th) also posted an August record high. **Portland** recorded triple-digit heat each day from August 13-16, second only to a 5-day streak from July 13-17, 1941, and tied with August 7-10, 1981. Meanwhile, historic heat streaks continued in the **central and western Gulf Coast States**. In Texas, for example, **College Station's** streak of triple-digit heat reached 6 weeks, or 42 days, from July 9 – August 19. **College Station's** previous record of 30 such days had been set from July 6 – August 4, 1998. **Houston's Hobby Airport** noted 100-degree readings on 16 consecutive days (August 4-19), easily surpassing the station record of 9 days, set from August 6-14, 1962. On August 19, **New Orleans, LA**, notched its 10th day this month and 12th day this year with triple-digit heat. Prior to this year, **New Orleans** had never experienced more than three 100-degree days in a month and 5 such days in a year, with both records occurring in 1980. Elsewhere in **Louisiana**, Baton Rouge endured its 16th day of triple-digit heat this month on August 19, tying an all-time monthly record established in August 1921. The **Gulf Coast region's** heat wave further intensified at week's end, when August 19 featured the highest temperature on record in **Alexandria, LA** (110°F; previously, 109°F on September 1, 2000). Additionally, an all-time station record was tied on the 19th in **New Iberia, LA** (104°F), while a monthly record was broken in **Lafayette, LA** (105°F). Farther west, **Abilene, TX**, attained 111°F on August 17, tying an all-time station record first established on August 3, 1943. **Wichita Falls, TX**, tied August records with 6 days of 110-degree heat, along with highs of 113°F on August 9 and 17. By August 19, 110-degree heat surged as far north as **Kansas**, where daily-record highs included 113°F in **Salina** and 111°F in **Wichita** and **Topeka**. For all three **Kansas** locations, it marked the highest temperatures in more than a decade, since 2011 or 2012. In stark contrast, scattered daily-record lows were reported across the **north-central U.S.**, especially early in the week. Record-setting lows for August 14 dipped to 39°F in **Casper, WY**, and 45°F in **Yuma, CO**. A day later in **Nebraska**, daily-record lows for the 15th included 48°F in **Imperial** and 50°F in **McCook**. A late week surge of cool air into the **East** delivered daily-record lows for August 19 to **Parkersburg, WV** (51°F), and **Lynchburg, VA** (54°F).

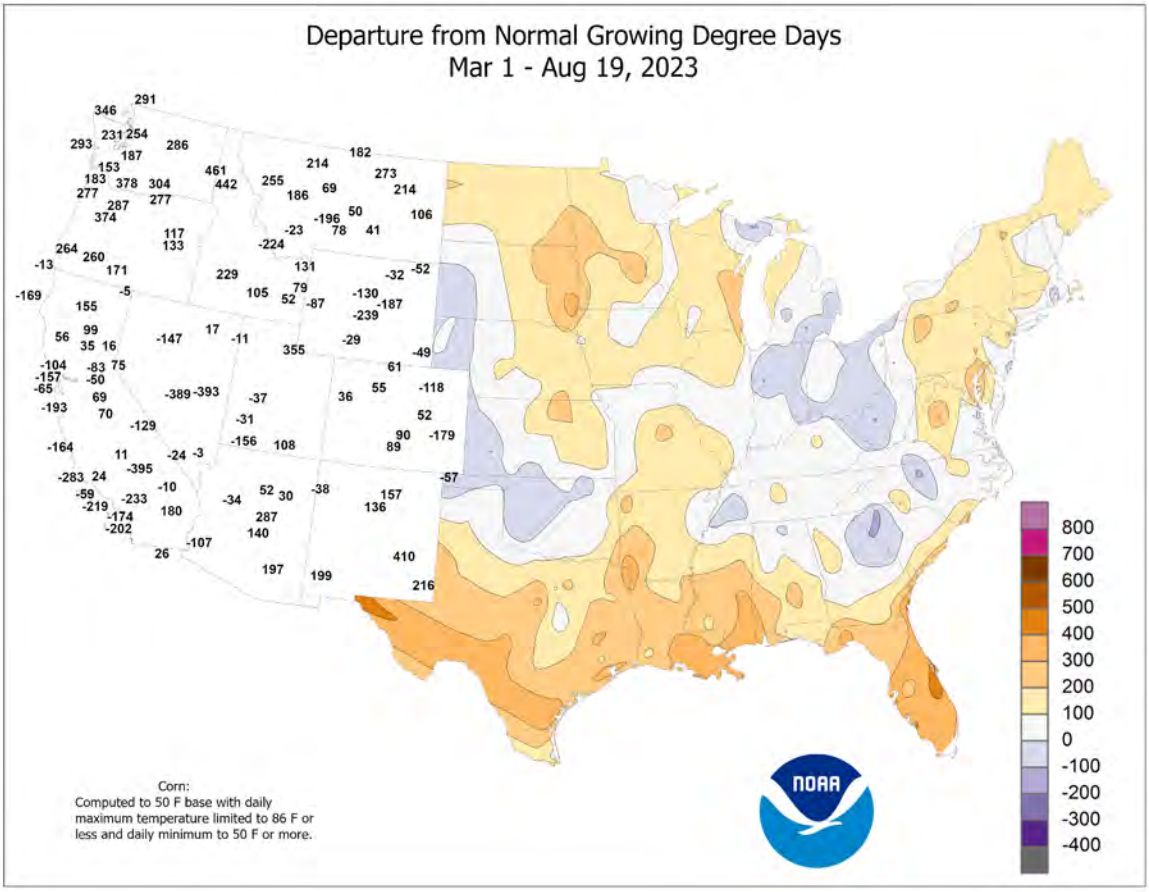
Early in the week, separate areas of heavy rain affected the **northern and southwestern Corn Belt**. On August 13, daily-record rainfall totals topped the 2-inch mark in **St. Joseph, MO** (3.26 inches), and **Kansas City, MO** (2.72 inches), as well as **South Dakota** locations such as **Sisseton** (2.58 inches), **Aberdeen** (2.39 inches), and **Watertown** (2.10 inches). A day later, on the 14th, additional daily-record amounts reached 3.09 inches in **Cape Girardeau, MO**; 3.20 inches in **Dubuque, IA**; 2.69 inches in **Holland, MI**; and 2.08 inches in **Milwaukee, WI**. By August 15, **Northeastern** daily-record amounts totaled 1.54 inches at **New York's LaGuardia Airport** and 1.13 inches in **Bridgeport, CT**. **LaGuardia Airport** collected another record-setting total, 1.57 inches, on August 18. At midweek, heavy showers in the **southern Atlantic States** led to record-setting totals for August 16 in **Brooksville, FL** (3.48 inches), and downtown **Charleston, SC** (2.42 inches). Elsewhere in **Florida**, **Tampa** (2.62 inches) and **Jacksonville** (1.71 inches) netted record-setting totals for August 17. Late in the week, showers well in advance of Hurricane Hilary's approach resulted in daily-record amounts for August 19 in locations such as **Las Vegas, NV** (0.21 inch), and **Hanford, CA** (0.19 inch). Notably, **Phoenix, AZ**, received rainfall totaling 0.02 inch on August 17, ending a 147-day dry spell that had begun on March 23. **Phoenix** had never experienced such a delayed "monsoon onset," with the previous latest date of the summer's first measurable rainfall occurring on August 14, 1995.

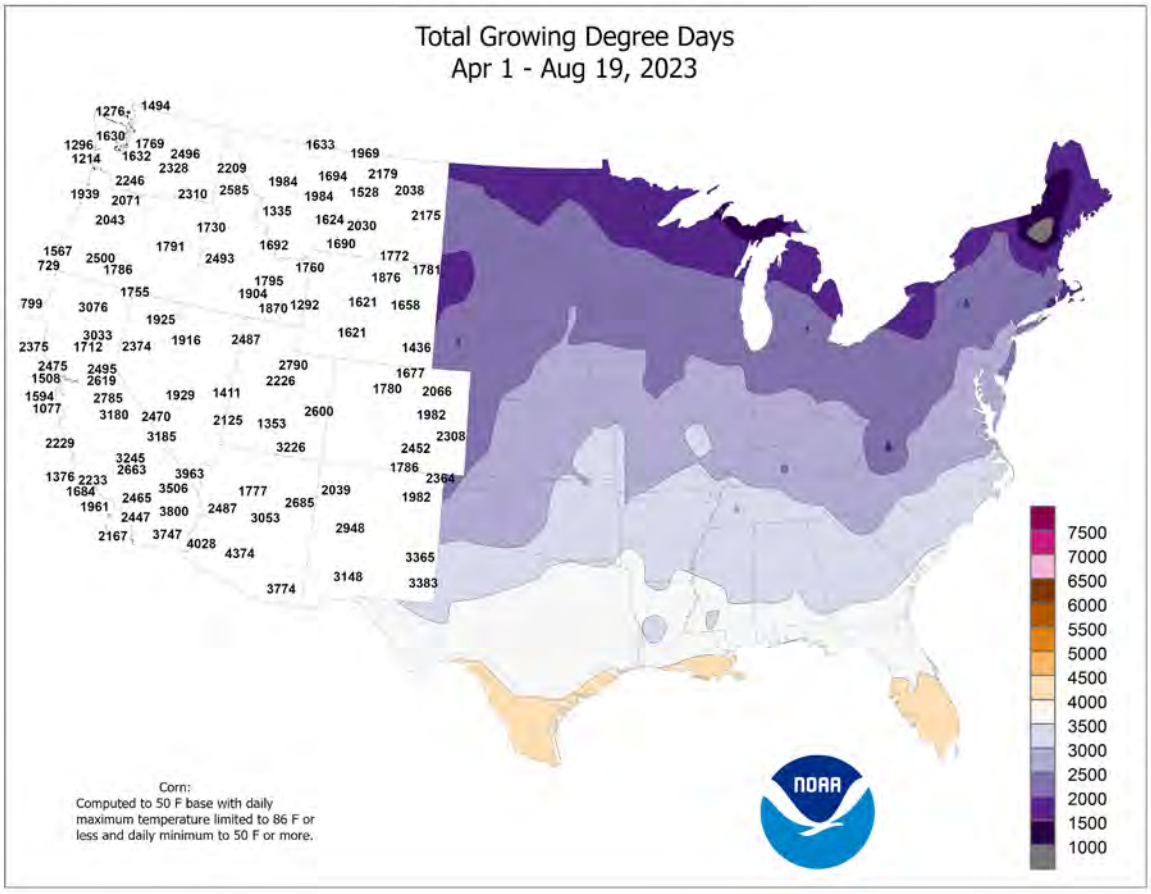
In **Hawaii**, search, assessment, and recovery efforts continued amid ongoing dryness across **Lahaina, Maui**, following the devastating wildfire—the nation's deadliest in more than a century—of August 8-9. Through August 19, **Honolulu, Oahu**, continued to await its first measurable rain of the month. At the state's other major airport observation sites, August 1-19 rainfall ranged from 0.17 inch (52 percent of normal) in **Kahului, Maui**, to 2.66 inches (38 percent) in **Hilo**, on the **Big Island**. Meanwhile, unusual warmth continued across **Kauai**, where **Lihue** reported a daily record-tying high of 89°F on August 15. Farther north, cooler, showery weather overspread much of **Alaska**, although weekly temperatures still averaged slightly above normal across much of the northern half of the state. **Anchorage** received rainfall totaling 2.03 inches from August 14-16, aided by a daily-record sum of 1.10 inches on the 16th. Unlike the mainland, drier weather accompanied cooler conditions in **southeastern Alaska**. However, **Ketchikan** was still wet early in the period, with at least 0.90 inch falling each day from August 12-14.

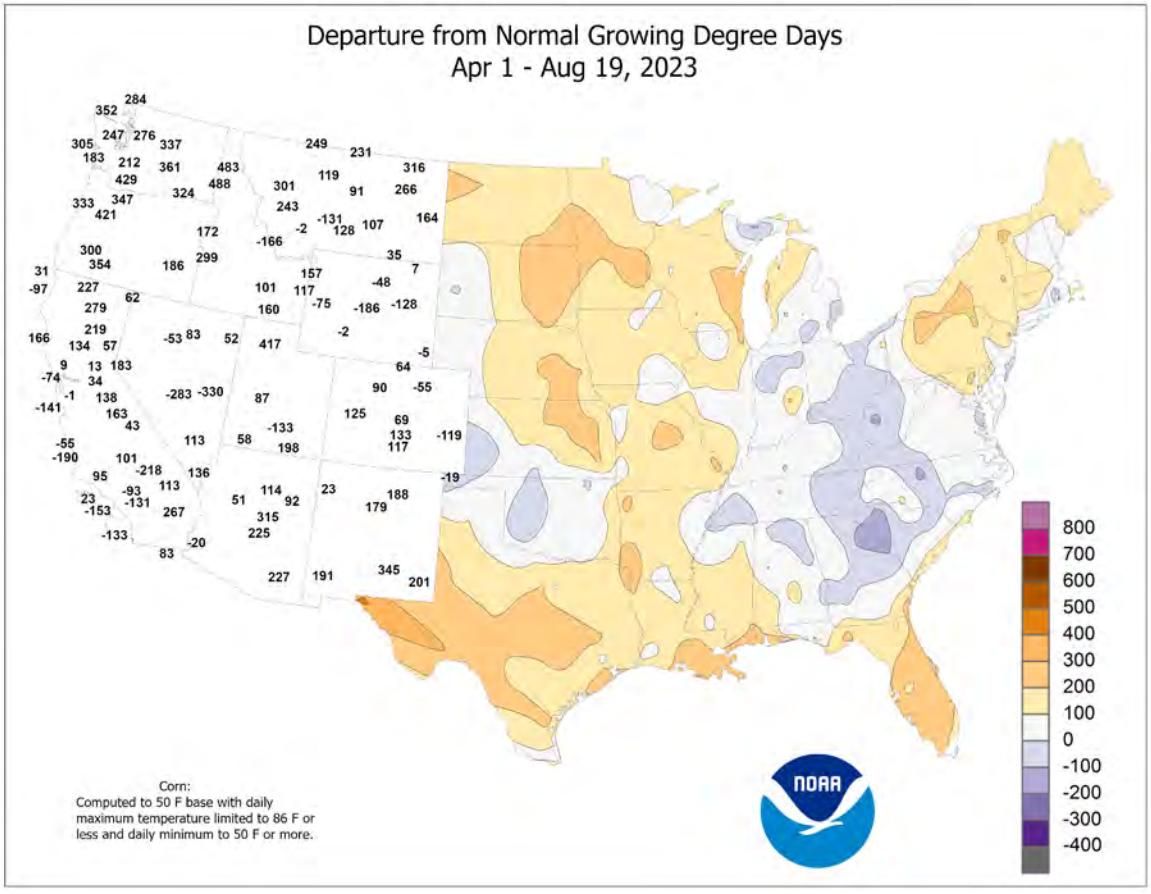

U.S. Drought Monitor
August 15, 2023
(Released Thursday, Aug. 17, 2023)
Valid 8 a.m. EDT
Drought Impact Types:
Delineates dominant impacts
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)
Intensity:
None
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought
Author:
Lindsay Johnson
National Drought Mitigation Center
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx
droughtmonitor.unl.edu


U.S. Seasonal Drought Outlook
Drought Tendency During the Valid Period
Valid for August 17 - November 30, 2023
Released August 17, 2023
Author:
Rich Tinker
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
No drought
Alaska
Hawaii
U.S. Virgin Islands
Puerto Rico
https://go.usa.gov/3eZ73


Total Growing Degree Days
Mar 1 - Aug 19, 2023
Corn:
Computed to 50 F base with daily maximum temperature limited to 86 F or less and daily minimum to 50 F or more.
NOAA
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000


Departure from Normal Growing Degree Days
Mar 1 - Aug 19, 2023
Corn:
Computed to 50 F base with daily maximum temperature limited to 86 F or less and daily minimum to 50 F or more.
NOAA
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400


Total Growing Degree Days
Apr 1 - Aug 19, 2023
Corn:
Computed to 50 F base with daily maximum temperature limited to 86 F or less and daily minimum to 50 F or more.
NOAA
7500
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500
1000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NOAA
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400

National Weather Data for Selected Cities

Weather Data for the Week Ending August 19, 2023

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
AK	ANCHORAGE	64	51	69	48	57	0	2.04	1.37	1.29	7.95	175	12.70	160	97	62	0	0	4	1
	BARROW	47	41	52	37	44	0	0.00	-0.24	0.00	2.04	96	4.59	148	96	78	0	0	0	0
	FAIRBANKS	66	53	73	51	59	2	0.44	-0.03	0.24	3.28	64	6.07	80	87	53	0	0	2	0
	JUNEAU	60	52	64	46	56	0	0.86	-0.56	0.39	11.03	88	33.59	100	97	72	0	0	5	0
	KODIAK	60	49	66	41	55	-2	0.26	-0.80	0.20	15.91	127	40.94	93	90	67	0	0	2	0
	NOME	54	48	68	44	51	1	0.62	-0.11	0.35	6.06	112	12.03	124	99	85	0	0	3	0
AL	BIRMINGHAM	91	70	97	65	80	-1	0.05	-0.91	0.05	12.35	95	38.62	100	86	48	4	0	1	0
	HUNTSVILLE	89	67	95	62	78	-3	0.93	0.11	0.67	12.61	116	34.42	96	100	55	3	0	3	1
	MOBILE	98	76	101	69	87	5	0.39	-1.20	0.39	15.69	84	40.66	89	88	36	7	0	1	0
	MONTGOMERY	95	71	99	66	83	0	0.33	-0.57	0.33	14.69	126	35.60	103	94	46	7	0	1	0
AR	FORT SMITH	93	70	103	63	82	-1	0.00	-0.81	0.00	11.06	109	29.69	98	88	42	4	0	0	0
	LITTLE ROCK	94	72	99	65	83	1	0.00	-0.71	0.00	8.96	102	42.48	133	82	46	5	0	0	0
AZ	FLAGSTAFF	80	54	83	48	67	2	0.49	-0.20	0.20	2.54	52	19.93	157	89	34	0	0	5	0
	PHOENIX	108	88	115	83	98	4	0.02	-0.19	0.02	0.02	1	2.83	64	40	18	7	0	1	0
	PRESCOTT	89	62	93	59	76	1	0.45	-0.13	0.21	2.22	58	8.14	99	81	27	3	0	4	0
	TUCSON	101	77	108	72	89	2	1.11	0.68	0.86	3.14	84	6.63	103	63	23	6	0	3	1
CA	BAKERSFIELD	103	77	108	73	90	7	0.00	0.00	0.00	0.35	676	7.17	162	47	19	7	0	0	0
	EUREKA	66	56	74	52	61	3	0.01	-0.03	0.01	0.12	12	20.91	85	93	83	0	0	1	0
	FRESNO	103	76	108	71	90	7	0.03	0.03	0.03	0.03	11	12.47	161	63	20	7	0	1	0
	LOS ANGELES	73	64	75	63	68	-3	0.02	0.02	0.02	0.03	25	19.09	222	97	70	0	0	1	0
	REDDING	107	75	112	71	91	10	0.00	-0.03	0.00	0.14	15	28.26	133	58	16	7	0	0	0
	SACRAMENTO	98	66	105	62	82	6	0.00	-0.01	0.00	0.00	0	13.29	109	78	30	6	0	0	0
	SAN DIEGO	75	67	78	66	71	-1	0.00	0.00	0.00	0.03	23	11.05	164	90	70	0	0	0	0
	SAN FRANCISCO	77	60	80	58	68	3	0.00	-0.01	0.00	0.01	7	19.90	158	89	54	0	0	0	0
	STOCKTON	100	69	105	63	85	7	0.00	0.00	0.00	0.00	0	13.27	149	69	27	7	0	0	0
CO	ALAMOSA	85	48	89	44	66	3	0.01	-0.30	0.01	0.43	18	2.39	52	89	27	0	0	1	0
	CO SPRINGS	87	58	97	53	73	3	0.13	-0.56	0.13	14.13	190	21.79	177	73	25	3	0	1	0
	DENVER INTL	90	59	99	49	75	2	0.12	-0.23	0.12	8.81	169	17.00	158	69	22	5	0	1	0
	GRAND JUNCTION	96	66	101	63	81	5	0.95	0.74	0.88	1.44	93	5.45	103	59	19	7	0	3	1
	PUEBLO	94	62	102	56	78	3	0.00	-0.51	0.00	5.47	117	9.63	104	68	21	5	0	0	0
CT	BRIDGEPORT	80	67	89	61	73	-1	2.24	1.31	1.11	12.60	131	29.12	105	92	60	0	0	4	2
	HARTFORD	80	65	88	58	73	0	1.95	1.00	1.06	18.61	166	39.19	134	93	60	0	0	3	2
DC	WASHINGTON	88	71	92	64	80	0	1.28	0.59	0.90	11.74	111	21.81	81	86	44	3	0	2	1
DE	WILMINGTON	87	68	91	59	78	2	0.12	-0.76	0.12	23.12	199	34.02	117	88	45	2	0	1	0
FL	DAYTONA BEACH	93	76	97	74	85	3	3.40	1.95	1.28	19.10	113	31.93	101	96	57	6	0	4	3
	JACKSONVILLE	95	75	99	74	85	3	2.66	1.17	1.70	15.63	84	29.39	85	92	52	6	0	2	2
	KEY WEST	92	82	94	77	87	1	1.42	0.22	0.75	7.24	66	11.43	54	85	63	6	0	4	2
	MIAMI	93	79	96	75	86	1	3.72	1.51	2.40	22.81	97	44.91	113	88	59	7	0	5	2
	ORLANDO	95	76	97	75	85	3	3.04	1.33	1.63	17.69	86	26.05	75	96	52	7	0	3	2
	PENSACOLA	96	78	99	72	87	4	0.03	-1.65	0.03	22.47	112	43.35	97	82	44	7	0	1	0
	TALLAHASSEE	98	75	100	71	87	4	0.16	-1.59	0.07	13.22	66	33.29	81	95	46	7	0	3	0
	TAMPA	94	79	97	75	87	3	3.35	1.25	2.22	12.75	61	20.11	59	89	57	7	0	2	2
	WEST PALM BEACH	92	77	94	75	85	1	3.85	1.78	2.28	27.59	143	45.63	122	95	59	7	0	5	2
GA	ATHENS	90	67	95	64	79	-1	0.39	-0.69	0.35	15.91	132	41.07	128	95	51	3	0	2	0
	ATLANTA	90	71	96	67	81	0	0.64	-0.37	0.63	9.89	83	30.61	92	85	48	4	0	2	1
	AUGUSTA	94	69	97	64	82	-1	0.02	-1.03	0.02	14.84	121	40.76	136	98	43	7	0	1	0
	COLUMBUS	94	71	98	66	83	0	0.06	-1.05	0.06	14.73	128	35.81	110	94	43	7	0	1	0
	MACON	94	70	98	65	82	0	1.18	0.19	1.18	11.33	94	34.44	111	98	47	7	0	1	1
	SAVANNAH	94	76	98	74	85	3	0.18	-1.01	0.17	13.06	82	30.70	94	92	51	6	0	2	0
HI	HILO	84	70	85	68	77	1	0.67	-2.01	0.31	12.07	51	72.38	102	92	62	0	0	6	0
	HONOLULU	89	76	90	75	83	0	0.00	-0.20	0.00	0.59	40	9.67	105	77	47	1	0	0	0
	KAHULUI	88	74	89	70	81	0	0.00	-0.13	0.00	0.65	63	9.46	93	79	52	0	0	0	0
	LIHUE	87	78	88	75	83	3	0.20	-0.34	0.08	2.77	56	31.09	146	75	58	0	0	5	0
IA	BURLINGTON	79	59	87	53	69	-5	0.02	-0.86	0.02	10.72	96	21.47	84	97	57	0	0	1	0
	CEDAR RAPIDS	80	56	89	49	68	-3	0.06	-0.89	0.05	5.71	45	12.99	53	95	50	0	0	2	0
	DES MOINES	81	60	92	54	71	-3	0.02	-0.95	0.01	7.84	67	18.66	73	89	49	1	0	2	0
	DUBUQUE	77	56	85	51	66	-4	3.19	2.31	3.18	10.40	83	21.08	81	97	62	0	0	2	1
	SIOUX CITY	83	57	98	50	70	-2	0.37	-0.59	0.35	7.16	71	16.62	81	98	55	1	0	2	0
	WATERLOO	82	58	95	48	70	-2	0.00	-0.98	0.00	6.91	54	15.70	61	91	48	1	0	0	0
ID	BOISE	98	69	105	59	83	7	0.00	-0.04	0.00	0.28	26	5.21	69	49	18	6	0	0	0
	LEWISTON	102	70	108	60	86	10	0.01	-0.11	0.01	1.12	55	4.52	52	45	14	7	0	1	0
	POCATELLO	93	56	97	45	74	5	0.20	0.08	0.20	0.89	50	7.12	93	77	22	5	0	1	0
IL	CHICAGO/O_HARE	80	62	84	59	71	-3	1.17	0.17	0.78	11.20	106	23.89	95	85	49	0	0	3	1
	MOLINE	80	57	86	51	69	-5	0.22	-0.71	0.22	6.81	58	17.49	66	96	52	0	0	1	0
	PEORIA	81	61	85	57	71	-4	0.21	-0.53	0.16	10.42	113	23.36	95	95	51	0	0	3	0
	ROCKFORD	76	58	83	52	67	-5	1.13	0.15	1.08	7.58	65	21.13	84	93	57	0	0	3	1
	SPRINGFIELD	81	58	84	52	69	-6	0.08	-0.65	0.06	11.59	110	24.15	94	97	53	0	0	2	0
IN	EVANSVILLE	83	64	90	59	74	-4	2.38	1.68	1.52	10.28	95	33.40	103	94	55	1	0	2	2
	FORT WAYNE	76	57	83	49	66	-5	0.56	-0.32	0.48	8.96	82	25.78	96	93	58	0	0	3	0
	INDIANAPOLIS	79	60	87	56	70	-5	0.85	0.11	0.76	10.44	92	27.85	93	94	55	0	0	2	1
	SOUTH BEND	78	57	81	53	68	-3	0.54	-0.39	0.47	11.97	115	28.08	110	93	52	0	0	3	0
KS	CONCORDIA	92	64	108	58	78	1	0.26	-0.54	0.26	8.35	81	15.40	76	83	35	3	0	1	0
	DODGE CITY	93	63	107	57	78	-1	0.00	-0.69	0.00	12.77	153	17.68	111	81	33	4	0	0	0
	GOODLAND	90	58	100	50	74	0	0.00	-0.72	0.00	12.87	157	18.79	130	84	32	3	0	0	0
	TOPEKA	89	63	111	56	76	-2	1.35	0.31	1.35	6.61	56	16.77	66	91	41	2	0	1	1

Based on 1991-2020 normals ***** Not Available**

Weather Data for the Week Ending August 19, 2023

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
	WICHITA	93	65	111	60	79	-1	0.23	-0.79	0.23	11.56	99	17.85	73	90	35	4	0	1	0
KY	LEXINGTON	83	64	91	56	73	-3	0.50	-0.31	0.35	13.18	105	32.34	95	91	50	1	0	4	0
	LOUISVILLE	84	67	91	62	76	-4	0.61	-0.22	0.55	9.67	90	30.81	95	85	49	1	0	3	1
	PADUCAH	84	64	87	60	74	-5	1.17	0.49	1.13	17.27	159	44.74	134	96	59	0	0	2	1
LA	BATON ROUGE	101	77	105	68	89	6	0.00	-1.48	0.00	5.75	37	32.67	79	85	36	7	0	0	0
	LAKE CHARLES	99	77	104	74	88	4	0.00	-1.40	0.00	5.40	33	29.43	76	95	38	7	0	0	0
	NEW ORLEANS	98	78	101	72	88	4	1.60	0.02	1.60	6.45	34	20.61	47	89	41	7	0	1	1
	SHREVEPORT	103	76	109	68	89	5	0.00	-0.66	0.00	0.00	0	0.00	0	76	25	7	0	0	0
MA	BOSTON	77	66	88	60	71	-2	2.13	1.41	1.35	16.30	177	32.08	119	93	64	0	0	3	2
	WORCESTER	75	62	82	56	68	-1	2.17	1.25	1.13	20.80	193	40.25	137	92	68	0	0	4	2
MD	BALTIMORE	89	67	93	58	78	2	0.89	0.00	0.83	14.64	132	24.55	86	90	41	3	0	2	1
ME	CARIBOU	74	58	76	54	66	1	1.19	0.39	0.74	11.48	111	23.94	96	98	69	0	0	4	1
	PORTLAND	74	62	82	56	68	-1	1.28	0.48	1.11	14.91	152	35.81	123	97	72	0	0	3	1
MI	ALPENA	76	51	87	46	64	-3	0.78	0.08	0.75	8.80	113	20.75	111	96	50	0	0	3	1
	GRAND RAPIDS	76	56	79	51	66	-5	1.98	1.17	1.28	10.07	100	24.89	99	96	54	0	0	3	2
	HOUGHTON LAKE	74	48	81	42	62	-5	1.54	0.89	1.31	5.76	119	15.02	112	100	55	0	0	4	1
	LANSING	76	56	81	50	66	-4	2.50	1.66	1.04	10.34	115	24.44	112	91	54	0	0	3	3
	MUSKEGON	79	58	81	53	68	-3	2.44	1.75	1.35	7.59	98	20.74	96	88	49	0	0	3	2
	TRAVERSE CITY	77	56	85	53	66	-3	1.09	0.42	0.72	6.78	97	15.09	89	88	50	0	0	4	1
MN	DULUTH	78	54	87	46	66	0	0.77	-0.08	0.77	6.65	62	18.11	91	85	45	0	0	1	1
	INT_L FALLS	77	50	86	43	63	0	0.40	-0.23	0.26	7.56	80	16.10	96	92	50	0	0	3	0
	MINNEAPOLIS	80	62	91	55	71	-1	1.42	0.38	1.15	5.72	50	16.91	78	84	51	1	0	2	1
	ROCHESTER	76	55	88	49	65	-3	0.17	-0.79	0.13	4.56	37	19.81	82	98	60	0	0	3	0
	ST. CLOUD	80	55	92	48	68	0	2.28	1.36	1.19	6.33	65	17.20	90	94	51	1	0	2	2
MO	COLUMBIA	82	62	91	57	72	-5	2.20	1.24	1.89	14.98	138	26.16	94	92	53	1	0	2	1
	KANSAS CITY	83	63	98	57	73	-4	2.61	1.65	2.61	12.18	99	26.39	99	95	55	1	0	1	1
	SAINT LOUIS	84	66	90	61	75	-4	0.63	-0.13	0.35	10.82	102	23.58	82	85	47	1	0	3	0
	SPRINGFIELD	84	63	94	56	73	-5	2.69	1.91	1.84	11.82	112	32.54	111	95	57	1	0	2	2
MS	JACKSON	100	71	105	64	85	3	0.00	-1.08	0.00	6.89	55	33.76	86	82	30	7	0	0	0
	MERIDIAN	97	69	103	63	83	1	0.08	-0.94	0.08	15.56	123	46.98	120	94	37	6	0	1	0
	TUPELO	90	69	98	65	80	-2	1.25	0.27	0.87	13.53	111	40.64	105	93	53	4	0	3	1
MT	BILLINGS	90	61	101	52	76	4	0.14	-0.04	0.10	7.44	187	13.47	133	66	21	3	0	2	0
	BUTTE	86	48	94	42	67	5	0.26	-0.04	0.26	6.50	146	11.95	128	78	19	3	0	1	0
	CUT BANK	87	51	99	42	69	5	0.00	-0.20	0.00	2.17	47	4.83	60	74	21	3	0	0	0
	GLASGOW	92	58	103	52	75	3	0.00	-0.28	0.00	2.84	51	10.16	101	65	21	4	0	0	0
	GREAT FALLS	89	54	101	48	71	5	0.00	-0.28	0.00	4.46	96	12.32	116	72	21	4	0	0	0
	HAVRE	90	54	99	49	72	3	0.00	-0.20	0.00	3.58	78	7.80	89	72	19	4	0	0	0
	MISSOULA	95	56	103	47	76	8	0.00	-0.19	0.00	2.49	71	7.33	78	67	17	5	0	0	0
NC	ASHEVILLE	85	63	90	56	74	0	0.23	-0.94	0.23	6.84	53	25.74	79	93	48	1	0	1	0
	CHARLOTTE	92	70	96	66	81	2	0.20	-0.81	0.20	11.11	106	30.88	109	85	42	5	0	1	0
	GREENSBORO	88	68	92	62	78	0	0.20	-0.76	0.20	8.28	75	28.79	102	88	46	3	0	1	0
	HATTERAS	88	78	89	74	83	2	0.97	-0.49	0.95	12.60	92	27.83	78	97	74	0	0	2	1
	RALEIGH	95	72	100	64	83	5	0.04	-0.93	0.03	8.72	73	27.59	95	89	43	7	0	2	0
	WILMINGTON	92	78	97	74	85	5	0.36	-1.46	0.27	15.11	87	35.11	97	94	57	6	0	3	0
ND	BISMARCK	81	57	90	52	69	-1	0.75	0.18	0.75	8.75	108	14.96	108	93	40	1	0	1	1
	DICKINSON	82	54	95	47	67	-1	0.56	0.22	0.56	6.88	104	10.25	88	89	37	1	0	1	1
	FARGO	82	59	91	56	71	1	0.62	0.05	0.62	8.61	97	15.11	93	84	49	1	0	1	1
	GRAND FORKS	82	55	91	52	69	1	0.23	-0.42	0.23	4.37	48	8.50	57	90	45	1	0	1	0
	JAMESTOWN	78	56	86	53	67	0	0.40	-0.13	0.40	7.34	87	12.12	85	92	51	0	0	1	0
NE	GRAND ISLAND	89	61	104	54	75	0	0.02	-0.73	0.02	5.85	60	10.36	52	86	38	3	0	1	0
	LINCOLN	87	59	104	52	73	-3	1.14	0.38	1.14	9.66	100	13.57	66	90	44	2	0	1	1
	NORFOLK	85	60	99	51	72	0	0.59	-0.26	0.58	11.06	115	15.20	80	88	45	2	0	2	1
	NORTH PLATTE	89	56	100	48	72	-1	0.00	-0.58	0.00	8.43	98	18.05	111	92	38	3	0	0	0
	OMAHA	83	61	97	55	72	-4	0.27	-0.87	0.26	12.21	112	19.46	88	94	51	1	0	2	0
	SCOTTSBLUFF	92	55	102	46	73	0	0.07	-0.20	0.07	6.97	139	15.92	136	88	26	5	0	1	0
	VALENTINE	88	57	100	50	73	-1	1.96	1.50	1.96	14.61	178	23.29	144	85	34	4	0	1	1
NH	CONCORD	76	60	85	54	68	-1	1.11	0.30	0.83	10.33	106	24.37	95	99	65	0	0	3	1
NJ	ATLANTIC_CITY	86	66	92	58	76	1	0.33	-0.74	0.12	6.83	62	22.37	77	94	49	2	0	4	0
	NEWARK	85	70	90	63	78	1	1.80	0.87	0.55	11.78	100	29.56	98	87	50	2	0	5	1
NM	ALBUQUERQUE	92	68	96	66	80	3	0.00	-0.28	0.00	0.01	0	1.83	34	56	20	6	0	0	0
NV	ELY	85	53	88	48	69	1	0.16	-0.02	0.12	2.35	140	8.22	129	82	24	0	0	2	0
	LAS VEGAS	98	80	104	68	89	-3	0.48	0.41	0.30	0.80	131	2.25	84	47	20	6	0	2	0
	RENO	93	65	97	61	79	4	0.09	0.04	0.07	0.72	91	8.83	181	64	16	5	0	2	0
	WINNEMUCCA	95	61	98	54	78	6	0.08	0.06	0.08	0.45	62	5.11	108	54	14	7	0	1	0
NY	ALBANY	80	65	84	57	72	1	1.69	0.87	0.72	17.07	154	31.55	123	88	55	0	0	5	1
	BINGHAMTON	75	61	79	54	68	1	2.26	1.32	1.19	16.11	145	28.87	108	94	58	0	0	6	2
	BUFFALO	75	62	80	56	69	-2	0.59	-0.11	0.30	10.60	123	26.19	108	91	58	0	0	3	0
	ROCHESTER	76	61	81	55	69	-2	3.16	2.43	2.17	13.10	144	26.44	119	96	57	0	0	3	2
	SYRACUSE	78	62	84	59	70	0	0.68	-0.17	0.47	15.54	159	31.10	125	87	54	0	0	4	0
OH	AKRON-CANTON	77	59	84	51	68	-5	1.26	0.46	0.66	10.59	97	27.27	99	99	58	0	0	4	1
	CINCINNATI	80	62	87	57	71	-4	0.19	-0.58	0.19	11.70	108	30.11	98	98	52	0	0	1	0
	CLEVELAND	78	62	84	55	70	-3	0.29	-0.50	0.18	13.44	138	29.90	116	89	51	0	0	3	0
	COLUMBUS	79	62	87	53	70	-4	1.08	0.24	0.95	11.94	105	29.63	105	99	55	0	0	3	1
	DAYTON	79	61	87	56	70	-5	0.65	0.00	0.41	10.13	102	26.98	97	89	53	0	0	3	0
	MANSFIELD	77	60	84	51	69	-3	0.82	0.00	0.36	12.56	115	29.44	103	92	54	0	0	3	0

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Weather Data for the Week Ending August 19, 2023

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
	TOLEDO	79	59	86	51	69	-4	0.46	-0.25	0.42	7.46	85	20.93	90	92	51	0	0	2	0
	YOUNGSTOWN	78	59	84	50	69	-2	0.43	-0.31	0.32	10.59	102	25.96	97	96	53	0	0	2	0
OK	OKLAHOMA CITY	95	67	107	60	81	0	0.06	-0.74	0.06	11.09	108	25.41	103	85	33	5	0	1	0
	TULSA	92	68	102	62	80	-3	0.98	0.24	0.63	11.22	107	25.22	93	89	45	4	0	2	1
OR	ASTORIA	79	58	93	52	68	7	0.00	-0.26	0.00	1.17	31	29.74	77	94	51	1	0	0	0
	BURNS	93	54	100	50	73	7	0.02	-0.03	0.01	1.56	133	9.63	145	69	20	5	0	2	0
	EUGENE	97	64	105	55	80	12	0.00	-0.08	0.00	0.15	9	14.28	62	72	22	5	0	0	0
	MEDFORD	102	70	111	62	86	11	0.00	-0.07	0.00	0.44	38	5.69	54	53	15	7	0	0	0
	PENDLETON	97	65	104	51	81	9	0.00	-0.07	0.00	0.09	6	4.39	53	46	15	6	0	0	0
	PORTLAND	97	67	106	56	82	11	0.00	-0.12	0.00	1.23	51	17.12	83	72	24	5	0	0	0
	SALEM	97	64	105	51	80	11	0.00	-0.08	0.00	0.25	15	17.21	78	73	22	5	0	0	0
PA	ALLENTOWN	82	63	86	57	73	-1	1.43	0.41	1.07	14.14	111	28.11	94	92	49	0	0	3	1
	ERIE	76	61	80	54	68	-4	0.69	-0.05	0.67	11.63	127	29.41	117	89	57	0	0	2	1
	MIDDLETOWN	86	67	89	61	76	1	0.67	-0.10	0.40	11.00	99	22.63	81	91	44	0	0	3	0
	PHILADELPHIA	87	70	91	63	78	1	0.21	-0.73	0.16	12.29	110	24.27	87	90	40	1	0	3	0
	PITTSBURGH	79	62	84	52	71	-2	0.46	-0.31	0.27	10.27	96	21.48	81	89	51	0	0	4	0
	WILKES-BARRE	80	63	84	57	71	-1	1.65	0.79	0.83	13.14	132	24.26	101	95	53	0	0	3	2
	WILLIAMSPORT	82	62	86	54	72	0	4.14	3.25	2.45	19.98	179	29.00	107	95	51	0	0	4	2
RI	PROVIDENCE	77	64	84	58	71	-3	2.76	1.94	2.15	15.12	169	36.74	127	96	69	0	0	4	1
SC	CHARLESTON	94	76	98	73	85	4	0.84	-0.73	0.29	16.94	99	31.32	93	92	52	7	0	4	0
	COLUMBIA	95	72	101	67	83	2	0.20	-0.83	0.16	13.48	100	37.44	124	93	43	6	0	2	0
	FLORENCE	94	73	99	68	84	3	0.47	-0.58	0.47	9.54	70	27.68	94	92	46	7	0	1	0
	GREENVILLE	90	66	95	62	78	-1	0.00	-1.07	0.00	11.41	97	40.61	125	89	46	3	0	0	0
SD	ABERDEEN	82	58	89	54	70	0	2.39	1.90	2.38	11.55	140	16.98	109	91	52	0	0	2	1
	HURON	84	58	92	54	71	-1	0.31	-0.27	0.28	7.94	94	11.20	67	89	50	3	0	2	0
	RAPID CITY	89	54	102	47	71	0	0.06	-0.30	0.06	6.22	99	16.72	124	85	29	3	0	1	0
	SIOUX FALLS	83	60	95	53	71	-1	0.56	-0.22	0.40	6.40	66	13.00	66	84	51	2	0	2	0
TN	BRISTOL	83	61	85	56	73	-2	1.07	0.26	0.81	12.93	113	32.09	105	94	49	0	0	2	1
	CHATTANOOGA	89	67	95	64	78	-2	0.34	-0.45	0.23	13.13	113	34.72	97	93	46	2	0	3	0
	KNOXVILLE	86	66	89	61	76	-2	1.12	0.33	0.58	16.62	140	36.38	103	95	52	0	0	3	1
	MEMPHIS	90	71	95	66	80	-2	0.00	-0.76	0.00	15.97	144	45.07	123	87	50	4	0	0	0
	NASHVILLE	88	67	94	63	77	-3	0.28	-0.57	0.16	12.37	113	29.83	88	89	45	2	0	2	0
TX	ABILENE	104	76	111	69	90	6	0.01	-0.54	0.01	6.22	91	15.66	98	51	20	7	0	1	0
	AMARILLO	98	65	105	60	82	3	0.04	-0.61	0.02	5.37	70	14.31	103	72	20	6	0	2	0
	AUSTIN	105	77	110	73	91	5	0.00	-0.61	0.00	1.09	15	13.15	60	75	21	7	0	0	0
	BEAUMONT	101	76	105	74	89	5	0.00	-1.57	0.00	5.25	30	26.56	70	96	35	7	0	0	0
	BROWNSVILLE	101	80	103	78	91	3	0.00	-0.41	0.00	1.61	27	12.61	96	91	42	7	0	0	0
	CORPUS CHRISTI	102	78	103	76	90	4	0.00	-0.59	0.00	1.18	16	13.55	76	93	43	7	0	0	0
	DEL RIO	108	82	110	81	95	7	0.00	-0.64	0.00	1.74	33	9.96	81	61	19	7	0	0	0
	EL PASO	98	74	103	65	86	3	0.61	0.26	0.34	0.94	28	1.70	33	52	18	7	0	2	0
	FORT WORTH	103	78	109	71	91	5	0.00	-0.44	0.00	1.22	17	13.89	59	56	24	7	0	0	0
	GALVESTON	94	82	96	80	88	2	0.00	-1.04	0.00	3.77	38	15.34	62	91	58	7	0	0	0
	HOUSTON	103	79	105	72	91	6	0.00	-1.19	0.00	5.52	44	29.13	92	88	29	7	0	0	0
	LUBBOCK	100	70	107	65	85	5	0.00	-0.39	0.00	2.87	51	8.98	75	62	20	6	0	0	0
	MIDLAND	100	75	105	69	88	4	0.00	-0.37	0.00	0.39	8	1.76	20	49	20	7	0	0	0
	SAN ANGELO	105	76	109	69	90	6	0.00	-0.57	0.00	2.75	58	9.12	71	58	18	7	0	0	0
	SAN ANTONIO	104	79	106	78	92	6	0.00	-0.44	0.00	1.04	15	12.67	64	76	24	7	0	0	0
	VICTORIA	104	77	108	74	91	5	0.00	-0.65	0.00	1.46	15	17.71	70	98	32	7	0	0	0
	WACO	105	74	109	66	89	4	0.00	-0.43	0.00	0.40	6	15.59	69	69	22	7	0	0	0
	WICHITA FALLS	105	73	113	65	89	4	0.00	-0.54	0.00	3.26	47	14.46	81	66	19	7	0	0	0
UT	SALT LAKE CITY	95	71	98	65	83	3	0.39	0.27	0.27	2.47	139	12.01	117	63	22	6	0	2	0
VA	LYNCHBURG	86	63	92	54	75	0	0.17	-0.49	0.10	16.44	163	30.85	111	94	50	1	0	2	0
	NORFOLK	90	75	96	70	82	3	1.59	0.30	0.67	20.52	143	33.73	107	89	53	3	0	4	1
	RICHMOND	92	71	97	62	82	4	0.00	-1.10	0.00	10.97	91	25.33	87	88	41	6	0	0	0
	ROANOKE	89	65	93	55	77	0	0.22	-0.48	0.22	9.30	84	22.71	80	82	42	3	0	1	0
	WASH/DULLES	90	65	93	54	78	2	0.60	-0.16	0.47	9.16	86	19.08	68	92	39	4	0	2	0
VT	BURLINGTON	78	64	83	60	71	0	1.36	0.57	0.47	13.29	126	25.44	108	91	58	0	0	6	0
WA	OLYMPIA	90	55	100	44	73	8	0.00	-0.22	0.00	1.02	41	17.98	66	92	28	5	0	0	0
	QUILLAYUTE	84	56	100	45	70	10	0.00	-0.64	0.00	2.69	42	40.30	72	85	40	3	0	0	0
	SEATTLE-TACOMA	88	64	95	53	76	8	0.00	-0.22	0.00	1.33	51	13.91	65	72	32	4	0	0	0
	SPOKANE	95	66	102	58	80	10	0.00	-0.11	0.00	1.05	56	6.51	65	45	14	6	0	0	0
	YAKIMA	97	60	105	49	78	7	0.00	-0.05	0.00	0.60	72	4.11	86	63	15	6	0	0	0
WI	EAU CLAIRE	77	56	90	48	66	-3	1.35	0.38	1.34	8.24	74	18.74	84	94	53	1	0	2	1
	GREEN BAY	76	57	83	51	66	-3	1.44	0.67	1.21	8.79	89	19.10	92	90	53	0	0	2	1
	LA CROSSE	80	60	92	54	70	-3	0.28	-0.63	0.22	7.32	62	17.03	70	93	50	1	0	3	0
	MADISON	76	57	84	51	66	-4	2.19	1.20	1.97	9.69	78	21.16	82	93	55	0	0	3	1
	MILWAUKEE	78	64	83	61	71	-2	2.31	1.43	2.08	8.61	85	21.93	94	81	51	0	0	3	1
WV	BECKLEY	78	59	83	49	68	-2	0.09	-0.67	0.07	10.13	86	26.83	88	93	55	0	0	3	0
	CHARLESTON	82	63	87	52	72	-3	0.15	-0.65	0.12	8.32	66	24.50	77	100	52	0	0	3	0
	ELKINS	79	57	83	46	68	-3	0.35	-0.48	0.17	12.06	92	28.12	85	94	52	0	0	5	0
	HUNTINGTON	82	63	89	54	73	-3	1.17	0.29	1.17	7.94	67	25.76	83	96	53	0	0	1	1
WY	CASPER	88	51	95	39	69	0	0.00	-0.17	0.00	5.37	174	12.16	141	75	21	4	0	0	0
	CHEYENNE	84	55	92	43	69	1	0.16	-0.17	0.13	10.50	198	16.30	143	73	26	3	0	2	0
	LANDER	88	56	95	49	72	2	0.05	-0.05	0.05	5.00	247	13.17	142	62	20	4	0	1	0
	SHERIDAN	89	54	99	44	72	2	0.12	-0.02	0.12	8.49	244	15.81	153	78	24	4	0	1	0

Based on 1991-2020 normals ***** Not Available**

National Agricultural Summary

August 14 – 20, 2023

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Much of the Pacific Northwest, Great Plains, northern Rockies, and Deep South observed drier-than-normal weather. In contrast, Tropical Storm Hilary at week's end brought at least eight times the normal amount of precipitation to large parts of western Arizona, the Great Basin, and California. Also, parts of the Midwest, Northeast, Rockies, and Southeast recorded at least twice the normal amount of weekly precipitation. Meanwhile, most of the West was warmer than normal, as was much of the Atlantic Coast, Florida, Gulf Coast, and southern Plains. Parts of the Pacific Northwest recorded weekly temperatures 10°F or more above normal. Conversely, most of the Appalachians and Midwest, as well as parts of the Great Basin, Mississippi Valley, and Great Plains, were cooler than normal. Some locations in Kentucky, the Midwest, and Montana recorded temperatures 6°F or more below normal.

Corn: By August 20, seventy-eight percent of the corn acreage was at or beyond the dough stage, 5 percentage points ahead of last year and 1 point ahead of the 5-year average. By August 20, thirty-five percent of this year's corn acreage was denting, 6 percentage points ahead of last year and 2 points ahead of average. Four percent of the corn acreage was mature by August 20, equal to both last year and the average. On August 20, fifty-eight percent of the nation's corn acreage was rated in good to excellent condition, 1 percentage point below the previous week but 3 points above the previous year. In Iowa, the largest corn-producing state, 60 percent of the corn crop was rated in good to excellent condition.

Soybean: By August 20, ninety-six percent of the nation's soybean acreage had reached the blooming stage, equal to both last year and the 5-year average. Nationally, 86 percent of the soybean acreage had begun setting pods, 3 percentage points ahead of last year and 2 points ahead of average. On August 20, fifty-nine percent of the nation's soybean acreage was rated in good to excellent condition, equal to the previous week but 2 percentage points above the previous year.

Winter Wheat: Ninety-six percent of the 2023 winter wheat acreage had been harvested by August 20, two percentage points ahead of last year but equal to the 5-year average. Winter wheat harvest progress was complete or nearing completion in all estimating states except Idaho, Montana, and Washington.

Cotton: By August 20, eighty-one percent of the nation's cotton acreage had begun setting bolls, 6 percentage points behind last year and 3 points behind the 5-year average. By August 20, eighteen percent of the cotton had open bolls, equal to last year but 1 percentage point behind average. On August 20, thirty-three percent of the 2023 cotton acreage was rated in good to excellent condition, 3 percentage points below the previous week but 2 points above the previous year.

Sorghum: By August 20, eighty-one percent of the nation's sorghum acreage had reached the headed stage, 4 percentage points ahead of last year but 3 points behind the 5-year average. Thirty-eight percent of the sorghum acreage was at or beyond the coloring stage by August 20, two percentage points ahead of last year but 2 points behind average. By August 20, eighteen percent of the nation's sorghum was mature, 2 percentage points behind last year and 3 points behind average. Fifty-one percent of the nation's sorghum acreage was rated in good to excellent condition on August 20, three percentage points below the previous week but 26 points above the previous year.

Rice: By August 20, ninety-four percent of the nation's rice acreage had reached the headed stage, 2 percentage points ahead of both the previous year and the 5-year average. Nationally, 18 percent of the rice acreage was harvested by August 20, four percentage points ahead of both last year and the average. On August 20, sixty-eight percent of the nation's rice acreage was rated in good to excellent condition, 1 percentage point above the previous week but 4 points below the same time last year.

Small Grains: Seventy percent of the nation's oat acreage had been harvested by August 20, two percentage points ahead of last year but 6 points behind the 5-year average. During the week, oat harvest advanced 10 percentage points or more reported in four of the seven estimating states with acres remaining to harvest.

By August 20, producers had harvested 49 percent of the nation's barley crop, 7 percentage points ahead of last year but 3 points behind the 5-year average. During the week, barley harvest advanced 16 percentage points or more in all five estimating states. On August 20, forty-nine percent of the nation's barley acreage was rated in good to excellent condition, 5 percentage points below both the previous week and the same time last year.

By August 20, thirty-nine percent of the nation's spring wheat had been harvested, 8 percentage points ahead of the previous year but 7 points behind the 5-year average. During the week, spring wheat harvest advanced 10 percentage points or more in all six estimating states. On August 20, thirty-eight percent of the nation's spring wheat was rated in good to excellent condition, 4 percentage points below the previous week and 26 points below the same time last year.

Other Crops: On August 20, sixty-seven percent of the nation's peanut acreage was rated in good to excellent condition, 2 percentage points below both the previous week and the previous year.

Crop Progress and Condition

Week Ending August 20, 2023

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

Corn Percent Dough

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
CO	48	12	41	56
IL	79	71	80	81
IN	74	55	71	74
IA	82	78	92	81
KS	72	68	80	81
KY	70	60	71	73
MI	69	38	47	61
MN	59	77	87	74
MO	90	84	93	88
NE	76	69	83	82
NC	90	86	93	94
ND	58	35	59	58
OH	75	45	64	70
PA	59	7	23	55
SD	69	60	77	72
TN	91	90	95	93
TX	85	83	86	90
WI	57	39	64	60
18 Sts	73	65	78	77

These 18 States planted 92% of last year's corn acreage.

Corn Percent Dented

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
CO	19	2	6	14
IL	33	20	39	39
IN	18	2	12	26
IA	28	23	39	33
KS	44	24	48	47
KY	52	38	51	53
MI	22	2	15	15
MN	11	17	33	18
MO	52	30	61	54
NE	36	21	43	36
NC	76	59	76	81
ND	5	1	9	12
OH	21	2	23	22
PA	10	0	1	14
SD	15	6	22	21
TN	58	55	71	64
TX	75	75	78	79
WI	10	1	9	14
18 Sts	29	18	35	33

These 18 States planted 92% of last year's corn acreage.

Corn Percent Mature

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
CO	0	NA	1	0
IL	0	NA	1	1
IN	1	NA	0	1
IA	1	NA	1	1
KS	11	NA	7	8
KY	12	NA	11	17
MI	0	NA	0	0
MN	0	NA	0	0
MO	3	NA	3	4
NE	3	NA	1	2
NC	44	30	46	50
ND	0	NA	0	1
OH	0	NA	0	0
PA	0	NA	0	0
SD	0	NA	0	1
TN	8	4	15	7
TX	66	58	62	58
WI	0	NA	0	0
18 Sts	4	NA	4	4

These 18 States planted 92% of last year's corn acreage.

Corn Condition by Percent

	VP	P	F	G	EX
CO	4	10	20	51	15
IL	5	9	22	55	9
IN	3	7	24	55	11
IA	3	7	30	51	9
KS	10	16	33	35	6
KY	1	4	23	55	17
MI	1	8	37	36	18
MN	6	15	34	36	9
MO	13	23	29	33	2
NE	5	13	21	44	17
NC	1	5	23	62	9
ND	2	9	29	52	8
OH	1	3	22	63	11
PA	0	1	13	63	23
SD	3	8	33	42	14
TN	2	7	20	56	15
TX	8	11	27	41	13
WI	4	12	29	42	13
18 Sts	5	10	27	47	11
Prev Wk	4	9	28	48	11
Prev Yr	7	11	27	43	12

Sorghum Percent Headed

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
CO	86	58	74	87
KS	66	63	76	78
NE	73	71	89	90
OK	69	40	50	75
SD	83	95	99	86
TX	97	92	95	93
6 Sts	77	71	81	84

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

Sorghum Percent Coloring

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
CO	20	3	7	14
KS	15	12	22	22
NE	16	14	27	28
OK	39	15	16	33
SD	13	35	57	22
TX	80	75	80	79
6 Sts	36	30	38	40

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

Sorghum Percent Mature

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
CO	0	NA	0	0
KS	0	NA	1	0
NE	0	NA	0	0
OK	1	NA	0	3
SD	0	NA	0	0
TX	66	60	65	68
6 Sts	20	NA	18	21

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

Sorghum Condition by Percent

	VP	P	F	G	EX
CO	1	5	11	82	1
KS	6	14	33	41	6
NE	1	3	22	46	28
OK	1	15	28	51	5
SD	4	8	25	56	7
TX	16	17	22	29	16
6 Sts	8	14	27	42	9
Prev Wk	5	12	29	45	9
Prev Yr	14	26	35	23	2

Crop Progress and Condition

Week Ending August 20, 2023

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

Soybeans Percent Blooming

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
AR	100	98	99	98
IL	95	95	96	96
IN	95	91	94	95
IA	97	99	99	97
KS	90	90	94	91
KY	89	76	83	88
LA	100	100	100	100
MI	100	85	88	96
MN	98	96	99	99
MS	99	99	100	98
MO	90	91	94	90
NE	100	94	95	99
NC	95	88	95	91
ND	100	97	99	99
OH	98	92	96	95
SD	98	95	98	96
TN	95	91	94	94
WI	96	90	94	95
18 Sts	96	94	96	96

These 18 States planted 95% of last year's soybean acreage.

Soybeans Percent Setting Pods

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
AR	93	91	93	92
IL	79	80	86	83
IN	80	71	80	80
IA	87	87	94	88
KS	66	66	76	72
KY	72	60	69	72
LA	100	96	99	98
MI	92	70	79	83
MN	86	85	92	93
MS	95	94	96	93
MO	71	71	83	69
NE	92	76	82	90
NC	83	71	83	72
ND	83	86	91	88
OH	86	69	82	82
SD	84	69	85	84
TN	79	76	83	80
WI	82	63	80	83
18 Sts	83	78	86	84

These 18 States planted 95% of last year's soybean acreage.

Soybean Condition by Percent

	VP	P	F	G	EX
AR	2	5	20	51	22
IL	3	9	23	54	11
IN	2	7	23	57	11
IA	2	7	32	50	9
KS	9	17	34	34	6
KY	1	4	23	59	13
LA	12	12	15	61	0
MI	2	6	32	47	13
MN	3	10	34	44	9
MS	0	6	22	58	14
MO	6	16	34	38	6
NE	6	11	25	43	15
NC	3	8	30	55	4
ND	5	15	34	41	5
OH	1	3	24	61	11
SD	3	7	31	44	15
TN	2	5	20	58	15
WI	3	11	30	42	14
18 Sts	4	9	28	49	10
Prev Wk	3	9	29	48	11
Prev Yr	4	9	30	47	10

Cotton Percent Setting Bolls

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
AL	96	89	93	94
AZ	95	98	99	98
AR	99	93	96	99
CA	79	60	80	84
GA	91	81	89	92
KS	95	79	85	76
LA	98	89	97	99
MS	91	86	91	91
MO	89	82	90	86
NC	87	76	90	87
OK	77	70	80	77
SC	90	83	89	89
TN	94	83	96	93
TX	84	64	74	80
VA	98	86	91	90
15 Sts	87	72	81	84

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

Cotton Percent Bolls Opening

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
AL	13	5	10	14
AZ	33	47	54	44
AR	9	6	22	14
CA	0	0	0	2
GA	11	3	8	13
KS	16	8	10	7
LA	42	22	36	39
MS	9	13	20	19
MO	2	0	0	10
NC	8	2	5	6
OK	0	0	5	6
SC	5	3	6	5
TN	7	4	8	6
TX	24	18	22	23
VA	16	6	15	7
15 Sts	18	13	18	19

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

Cotton Condition by Percent

	VP	P	F	G	EX
AL	0	1	19	65	15
AZ	2	1	20	33	44
AR	2	5	17	47	29
CA	0	0	5	95	0
GA	1	7	23	59	10
KS	1	9	35	43	12
LA	2	7	15	71	5
MS	0	5	35	55	5
MO	0	2	28	66	4
NC	3	10	34	51	2
OK	33	32	21	13	1
SC	1	2	31	60	6
TN	5	7	16	56	16
TX	35	36	19	8	2
VA	0	0	3	95	2
15 Sts	22	24	21	27	6
Prev Wk	19	24	21	30	6
Prev Yr	18	22	29	26	5

Crop Progress and Condition

Week Ending August 20, 2023

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

Rice Percent Headed

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
AR	88	91	96	90
CA	93	65	80	87
LA	99	96	98	98
MS	99	91	96	96
MO	87	78	87	87
TX	100	96	100	98
6 Sts	92	87	94	92

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

Rice Percent Harvested

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
AR	2	2	4	1
CA	0	0	0	0
LA	58	61	71	62
MS	0	0	3	2
MO	0	0	0	0
TX	64	40	60	56
6 Sts	14	14	18	14

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

Rice Condition by Percent

	VP	P	F	G	EX
AR	2	3	21	49	25
CA	0	0	20	70	10
LA	0	12	43	40	5
MS	1	2	34	53	10
MO	0	0	25	65	10
TX	0	2	35	55	8
6 Sts	1	4	27	52	16
Prev Wk	1	5	27	51	16
Prev Yr	0	3	25	55	17

Winter Wheat Percent Harvested

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
AR	100	100	100	100
CA	100	95	97	100
CO	100	97	99	99
ID	43	49	70	73
IL	100	100	100	100
IN	100	100	100	100
KS	100	99	100	100
MI	99	90	95	99
MO	100	100	100	100
MT	89	70	78	82
NE	100	97	99	99
NC	100	100	100	100
OH	100	100	100	100
OK	100	100	100	100
OR	89	94	100	94
SD	97	93	97	95
TX	100	100	100	100
WA	69	70	87	80
18 Sts	94	92	96	96

These 18 States harvested 90% of last year's winter wheat acreage.

Spring Wheat Percent Harvested

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
ID	25	6	27	44
MN	27	28	41	54
MT	48	39	60	46
ND	16	13	24	38
SD	82	54	75	77
WA	36	30	53	48
6 Sts	31	24	39	46

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

Spring Wheat Condition by Percent

	VP	P	F	G	EX
ID	0	13	35	50	2
MN	1	9	33	51	6
MT	0	18	54	25	3
ND	6	20	35	37	2
SD	11	19	38	30	2
WA	4	33	38	23	2
6 Sts	4	19	39	35	3
Prev Wk	4	16	38	39	3
Prev Yr	1	7	28	56	8

Barley Percent Harvested

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
ID	37	6	27	55
MN	26	30	46	68
MT	56	51	70	49
ND	29	15	39	49
WA	40	35	56	55
5 Sts	42	28	49	52

These 5 States harvested 89% of last year's barley acreage.

Barley Condition by Percent

	VP	P	F	G	EX
ID	1	8	25	64	2
MN	2	6	31	55	6
MT	0	7	47	37	9
ND	6	15	38	39	2
WA	1	14	49	36	0
5 Sts	2	10	39	44	5
Prev Wk	1	8	37	48	6
Prev Yr	3	12	31	46	8

Crop Progress and Condition

Week Ending August 20, 2023

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

Peanut Condition by Percent

	VP	P	F	G	EX
AL	0	2	23	67	8
FL	0	7	26	67	0
GA	2	7	22	59	10
NC	2	4	32	59	3
OK	0	0	2	98	0
SC	0	1	5	90	4
TX	2	9	56	33	0
VA	0	0	3	96	1
8 Sts	1	6	26	61	6
Prev Wk	1	4	26	62	7
Prev Yr	1	4	26	59	10

Oats Percent Harvested

	Prev Year	Prev Week	Aug 20 2023	5-Yr Avg
IA	90	95	98	95
MN	60	59	73	74
NE	97	89	94	98
ND	30	8	27	44
OH	95	99	100	96
PA	64	60	70	71
SD	87	79	87	88
TX	100	100	100	100
WI	63	56	68	68
9 Sts	68	60	70	76

These 9 States harvested 72% of last year's oat acreage.

Pasture and Range Condition by Percent Week Ending Aug 20, 2023

	VP	P	F	G	EX			VP	P	F	G	EX
AL	0	6	23	68	3		NH	0	0	20	71	9
AZ	19	31	30	18	2		NJ	0	2	20	76	2
AR	2	9	38	45	6		NM	19	24	29	15	13
CA	5	10	45	25	15		NY	1	4	28	49	18
CO	1	1	27	53	18		NC	3	4	35	56	2
CT	0	0	50	50	0		ND	4	16	35	42	3
DE	1	8	26	45	20		OH	2	5	32	52	9
FL	2	4	19	46	29		OK	10	10	31	44	5
GA	2	9	31	50	8		OR	5	18	58	15	4
ID	0	17	38	25	20		PA	3	5	28	56	8
IL	3	18	45	30	4		RI	0	0	60	40	0
IN	3	8	34	50	5		SC	5	17	41	35	2
IA	10	20	47	20	3		SD	8	12	32	40	8
KS	14	23	34	26	3		TN	1	4	21	59	15
KY	4	7	23	56	10		TX	41	36	16	6	1
LA	24	29	21	25	1		UT	0	4	37	50	9
ME	0	16	55	29	0		VT	0	0	37	63	0
MD	3	8	48	37	4		VA	12	19	31	33	5
MA	0	0	10	90	0		WA	19	35	33	13	0
MI	2	15	36	41	6		WV	2	7	17	68	6
MN	15	33	35	16	1		WI	7	18	38	34	3
MS	9	18	38	31	4		WY	0	2	11	86	1
MO	15	26	31	28	0		48 Sts	16	19	28	31	6
MT	8	18	42	30	2							
NE	2	6	29	54	9		Prev Wk	15	17	28	33	7
NV	15	15	40	25	5		Prev Yr	25	24	28	20	3

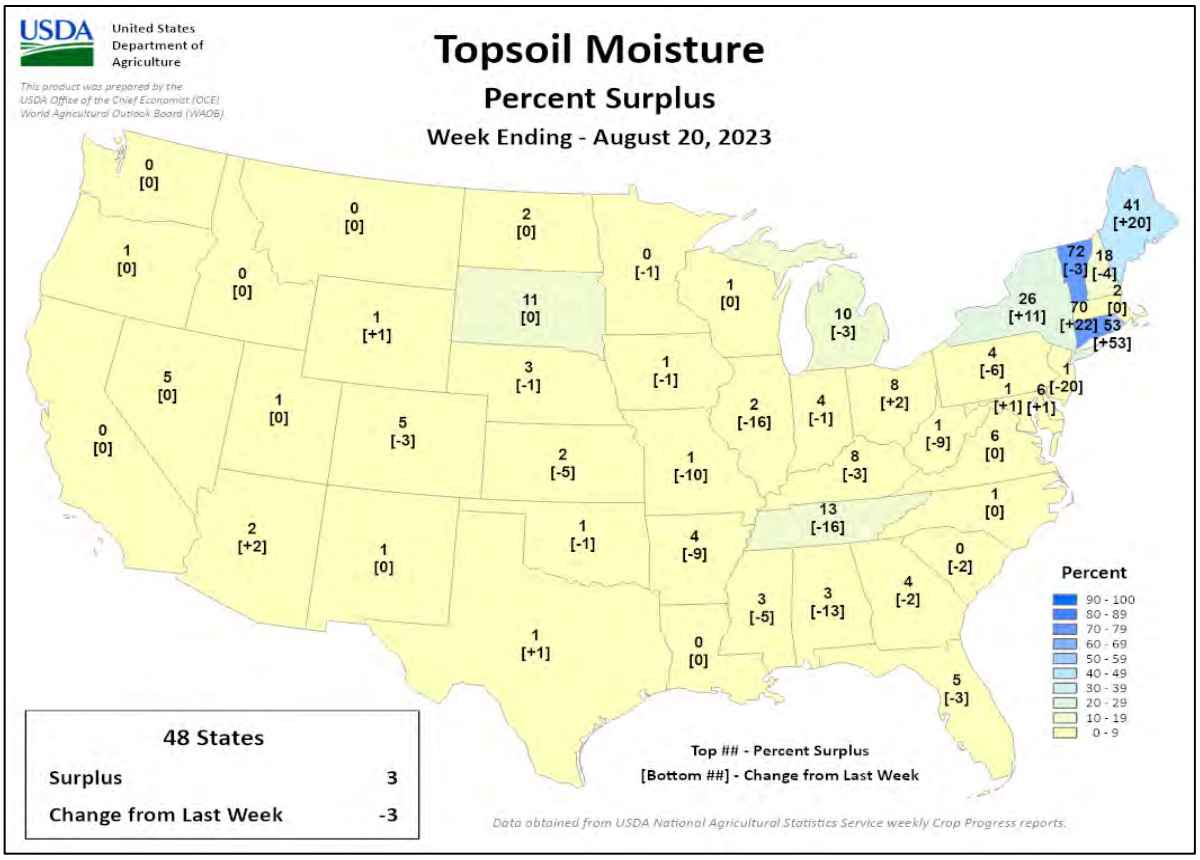
VP - Very Poor; P - Poor; F - Fair; G - Good; EX - Excellent

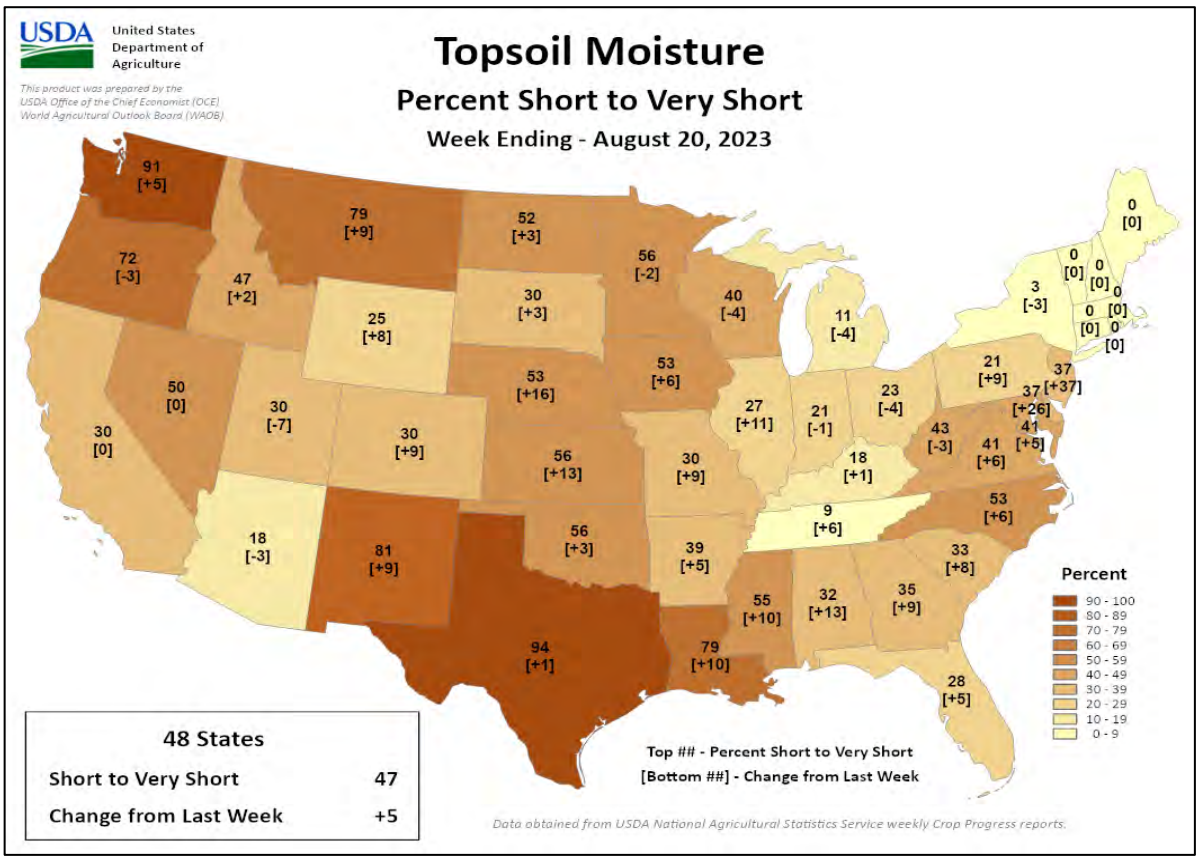
NA - Not Available; *Revised

Crop Progress and Condition

Week Ending August 20, 2023

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

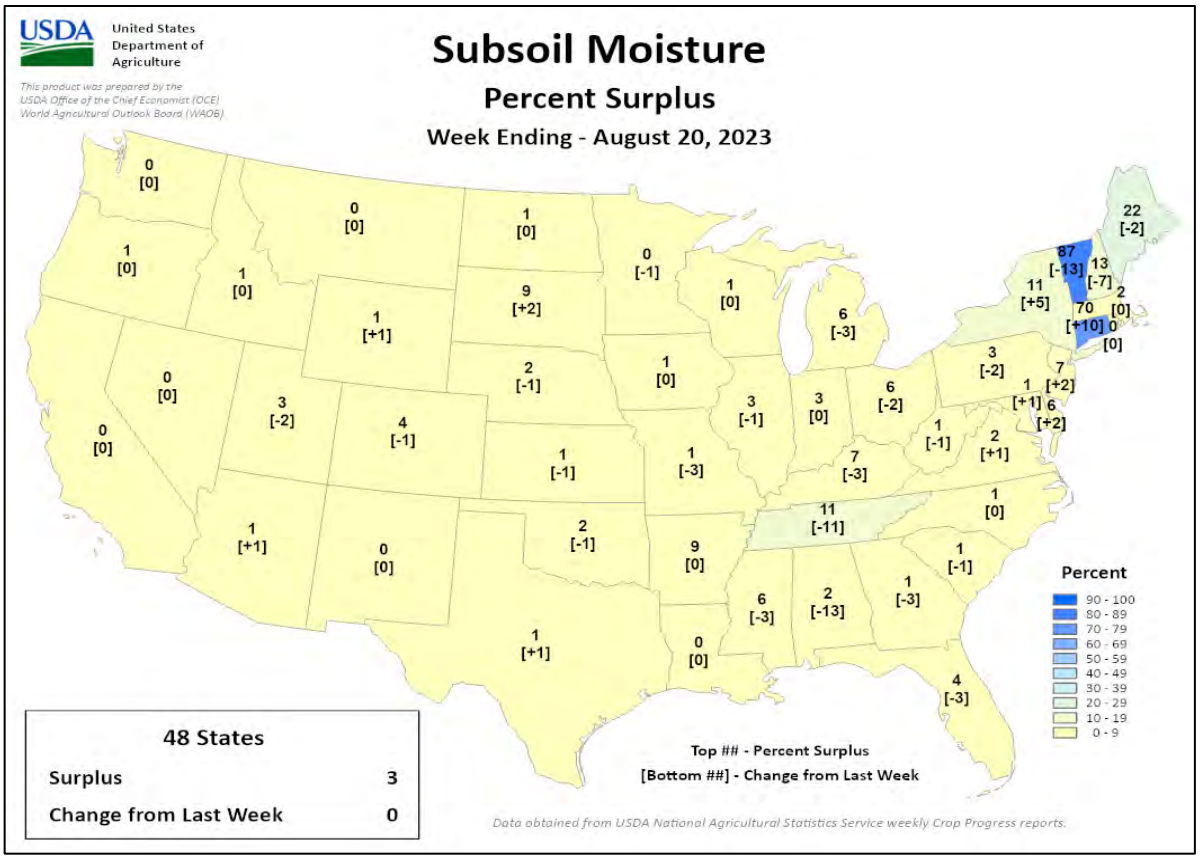


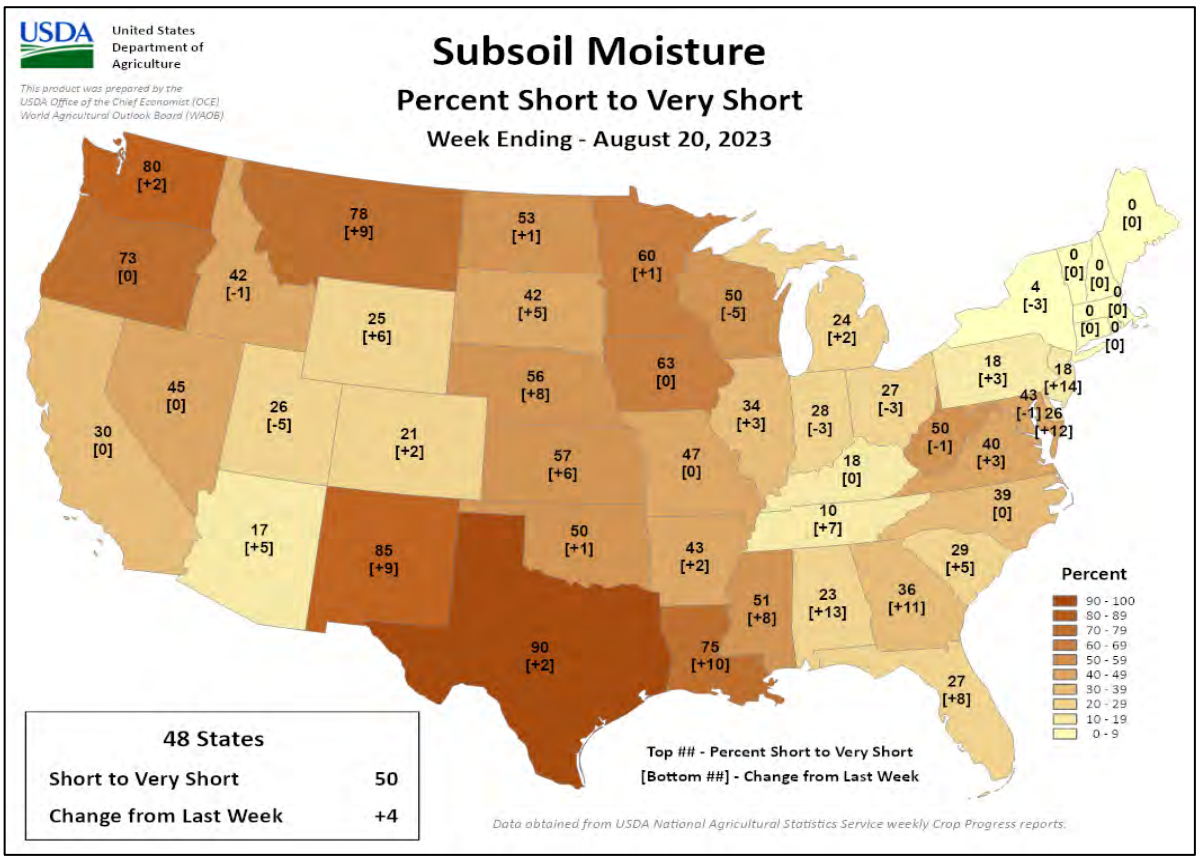


Crop Progress and Condition

Week Ending August 20, 2023

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

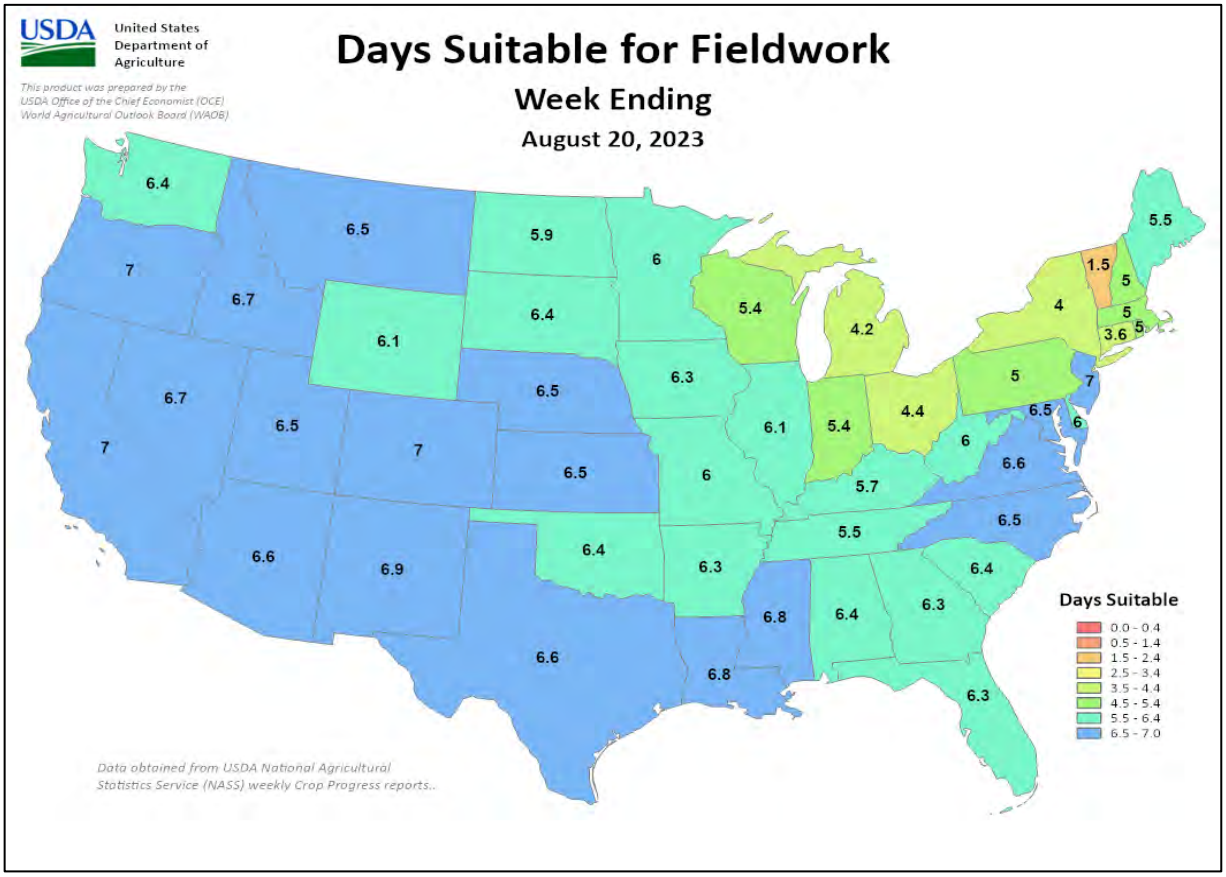


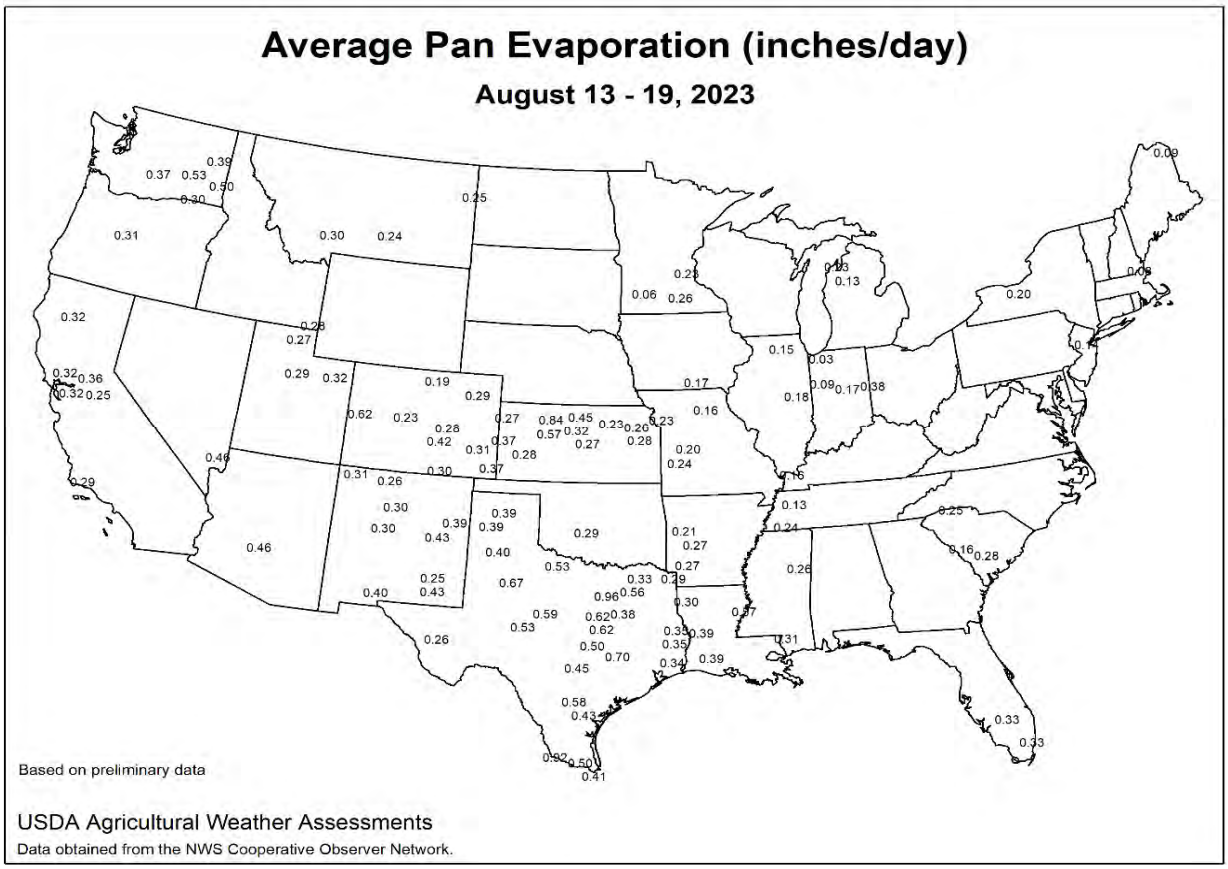


Crop Progress and Condition

Week Ending August 20, 2023

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





International Weather and Crop Summary

August 13-19, 2023

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

HIGHLIGHTS

EUROPE: Lingering showers benefited filling summer crops over much of central, northern, and eastern Europe before the arrival of late-week heat.

WESTERN FSU: Drier and warmer weather favored filling summer crops after recent rain.

EASTERN FSU: Dry weather promoted spring grain maturation in the north and cotton maturation in the south, though showers lingered in eastern-most portions of Russia.

MIDDLE EAST: Seasonably sunny and hot conditions accelerated summer crops toward or into maturity.

SOUTH ASIA: Showers returned to interior sections of India but remained elusive in many other parts of the country.

EAST ASIA: Wet weather in southern and northeastern China benefited summer crops, while heat and dryness caused stress to crops elsewhere.

SOUTHEAST ASIA: Lighter-than-normal rainfall prevailed across most of the region, furthering concerns over rice yields.

AUSTRALIA: Welcome showers overspread the wheat belt, but more rain is needed for winter crops.

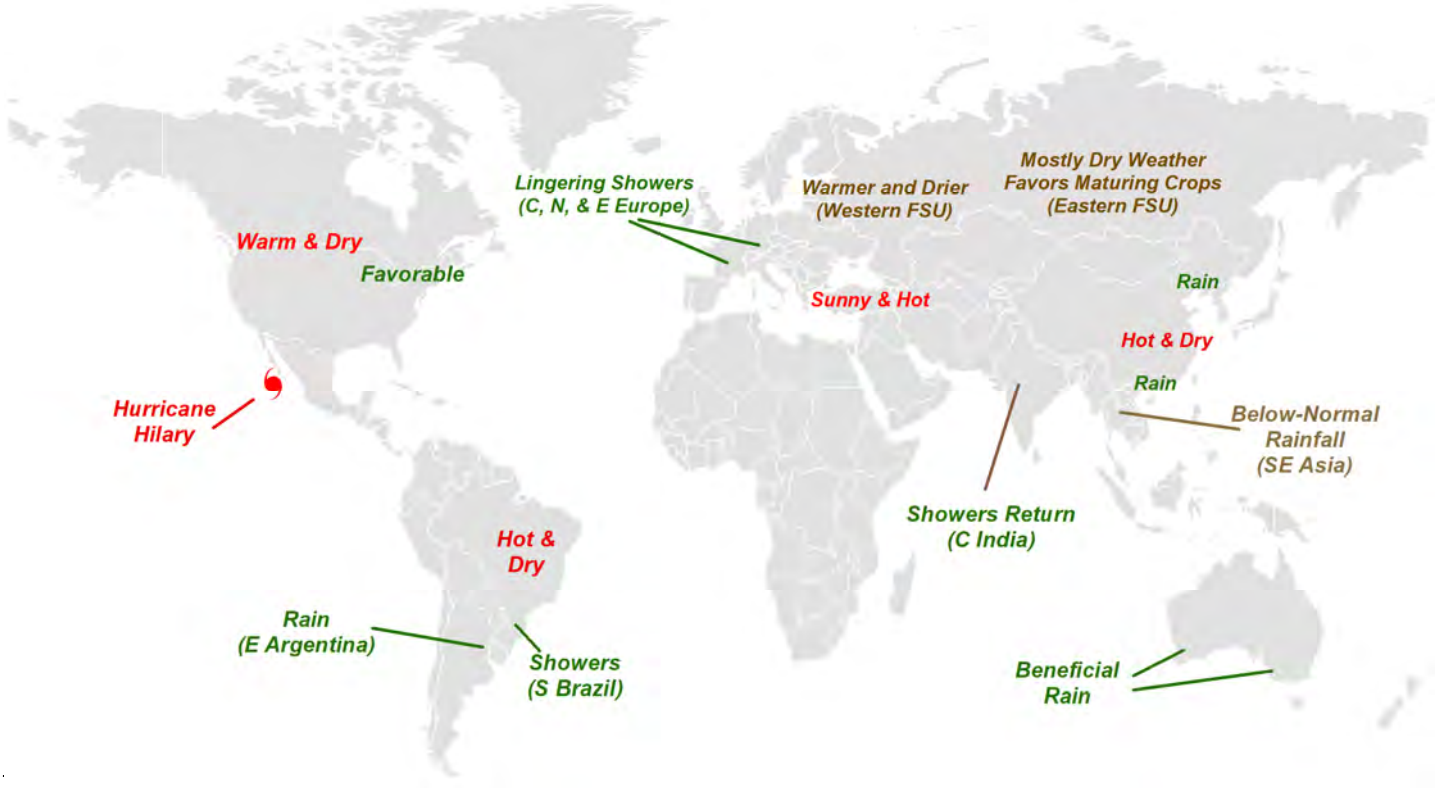
ARGENTINA: Showers increased moisture for winter grains in Argentina's eastern farmlands.

BRAZIL: Beneficial rain continued in southern wheat areas.

MEXICO: Hurricane Hilary ushered tropical moisture into southern and western watersheds as it passed offshore.

CANADIAN PRAIRIES: Unseasonable warmth and dryness persisted across the southern Prairies.

SOUTHEASTERN CANADA: Conditions remained overall favorable for summer crops and pastures.



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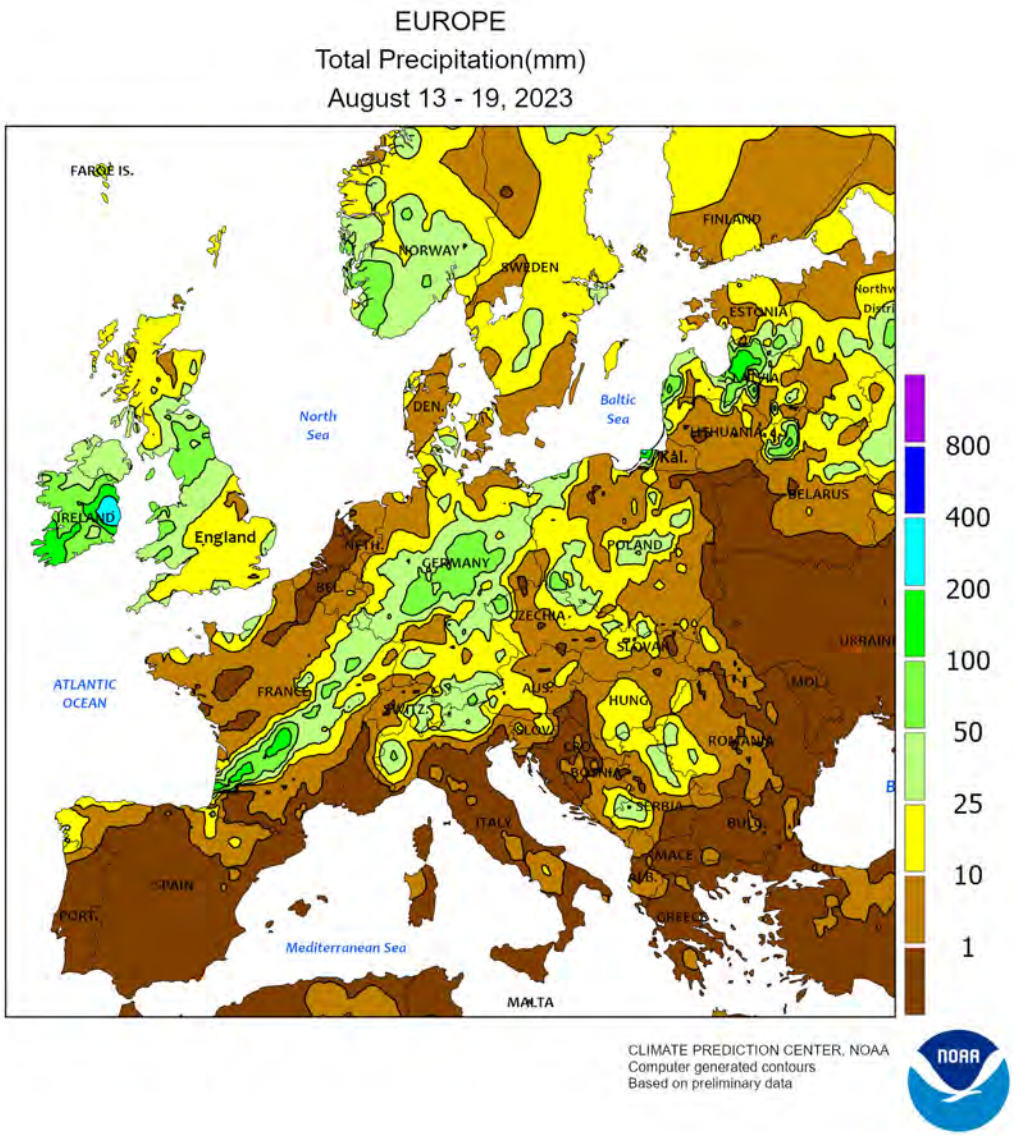

EUROPE

Despite the arrival of late-week heat, lingering showers maintained overall favorable prospects for filling summer crops. While not as heavy and widespread as previous weeks, showers and thunderstorms — some with large hail and gusty winds — netted weekly totals of 5 to 60 mm (locally more) in England and from central France eastward into Poland. A second area of locally heavy rain (10-90 mm) was noted in northern Serbia and immediate environs. As a result, soil moisture remained adequate to abundant for filling summer crops over much of central and northern Europe. Conversely, dry and increasingly hot weather (middle and upper 30s degrees C) over the Mediterranean Basin accelerated summer crop maturation and drydown. Similar heat expanded north and east as the week progressed, with anomalies most pronounced from southern France northeastward into Poland (3-6°C above normal). However, filling corn, sunflowers, and soybeans were largely past the point of peak temperature sensitivity, while moist soils also helped crops withstand the hot weather without significant impacts.

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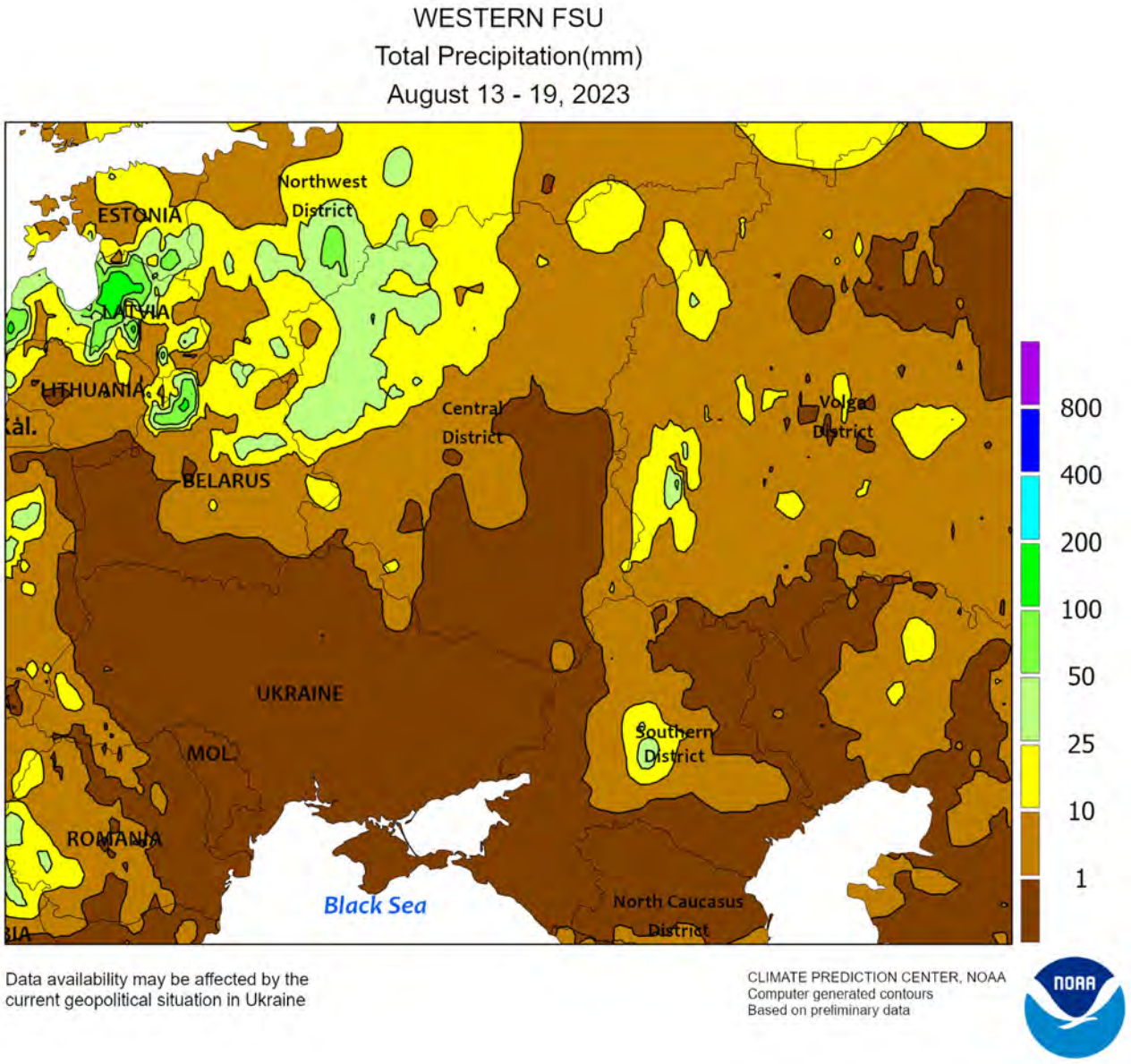

WESTERN FSU

Dry and warmer weather accelerated summer crops toward maturity in the south and through the filling stages of development in the north. After recent moderate to heavy rainfall, sunny skies were beneficial for filling to maturing corn, soybeans, and sunflowers across Moldova, Ukraine, Belarus, and western Russia. Some showers (2-25 mm, locally more) were noted in northern- and eastern-most portions of the region as well as the central Southern District, but most primary summer crop areas were dry. Temperatures climbed into the lower and middle 30s (degrees C) over the southern third of the region, with weekly anomalies most pronounced (3-6°C above normal) in southern- and eastern-most portions of Russia as well as Belarus and northwestern Ukraine. While many Russian summer crop areas have dealt with incursions of extreme heat since the beginning of August, a wet July helped filling corn and sunflowers withstand the hot weather save for the driest locales in the North Caucasus District (Stavropol) and parts of the Southern District. Even with the recent heat, the latest satellite-derived Vegetation Health Index (VHI) indicated good to excellent crop vigor over much of western Russia except for southern-most growing areas, and even these latter locales exhibited a VHI that was markedly improved over the same time last year. Meanwhile, the VHI continued to indicate good to excellent conditions over much of Ukraine.

The WWCB focuses entirely on weather and resultant crop conditions; conflict and unrest are beyond the scope of this publication.

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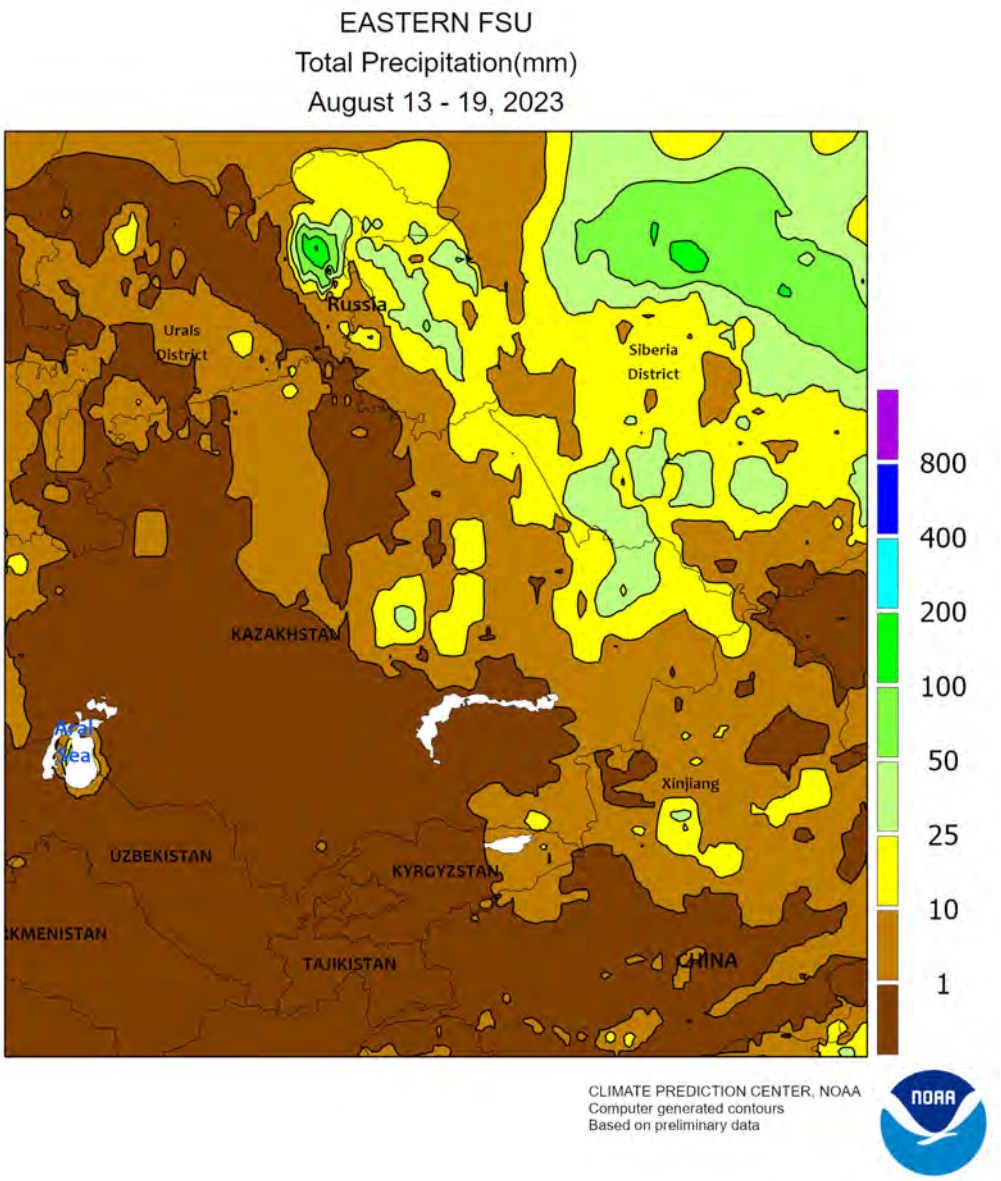
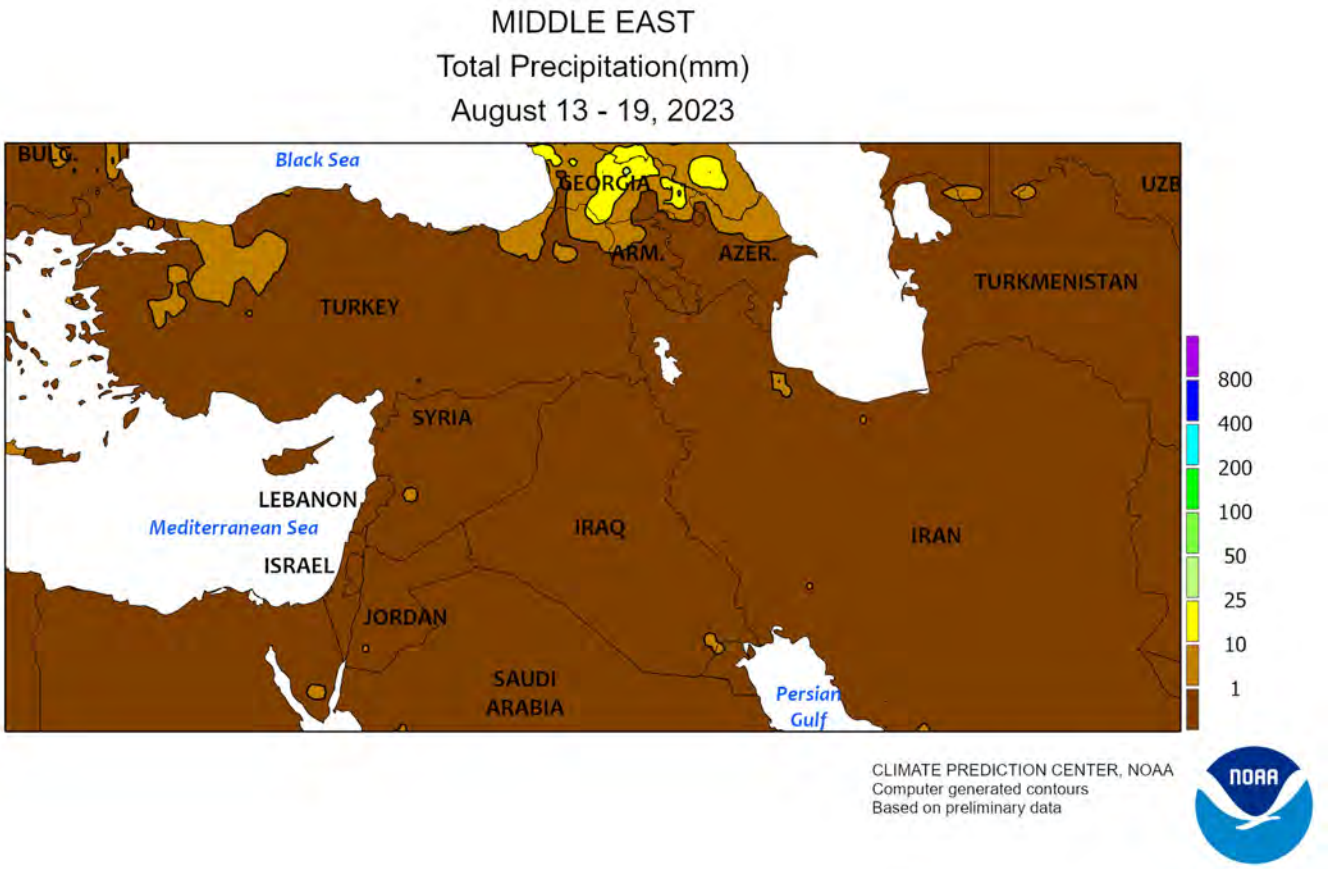


EASTERN FSU

Mostly cooler and drier weather favored spring grain drydown in the north and cotton maturation in the south, though showers lingered in eastern-most growing areas. Spring wheat and barley were approaching or entering maturity across northern Kazakhstan and central Russia under sunny skies and returning heat in the west (up to 5°C above normal) but near- to below-normal temperatures elsewhere. However, lingering showers and thunderstorms (10-50 mm) and cooler-than-normal temperatures (2-4°C below normal) in Russia's Siberia District slowed spring wheat drydown. The latest satellite-derived Vegetation Health Index (VHI) indicated highly variable conditions across the spring grain belt, with a ribbon of poor VHI extending from the southeastern Volga District eastward across southern portions of northern Kazakhstan to the border with the Siberia District. Farther south over the Commonwealth of Independent States (CIS), seasonably sunny skies were accompanied by temperatures up to 3°C below normal, though warmth returned at the end of the period. Cotton was approaching or at maturity over most of the CIS.

This will be the last weekly summary for Eastern FSU. Coverage will resume in May, 2024 to coincide with spring grain planting.

For additional information contact: mark.brusberg@usda.gov



MIDDLE EAST

Seasonably dry and hot weather prevailed across Turkey's summer crop areas. Sunny skies and above-normal temperatures (3-8°C above normal) on central Turkey's Anatolian Plateau accelerated summer crops through the filling stages of development. Meanwhile, dry weather and seasonable temperatures in western Turkey favored flowering to open boll cotton in the Aegean Region, while sunny but hot weather (up to 5°C above normal) accelerated cotton and corn maturation and drydown in southeastern Turkey.

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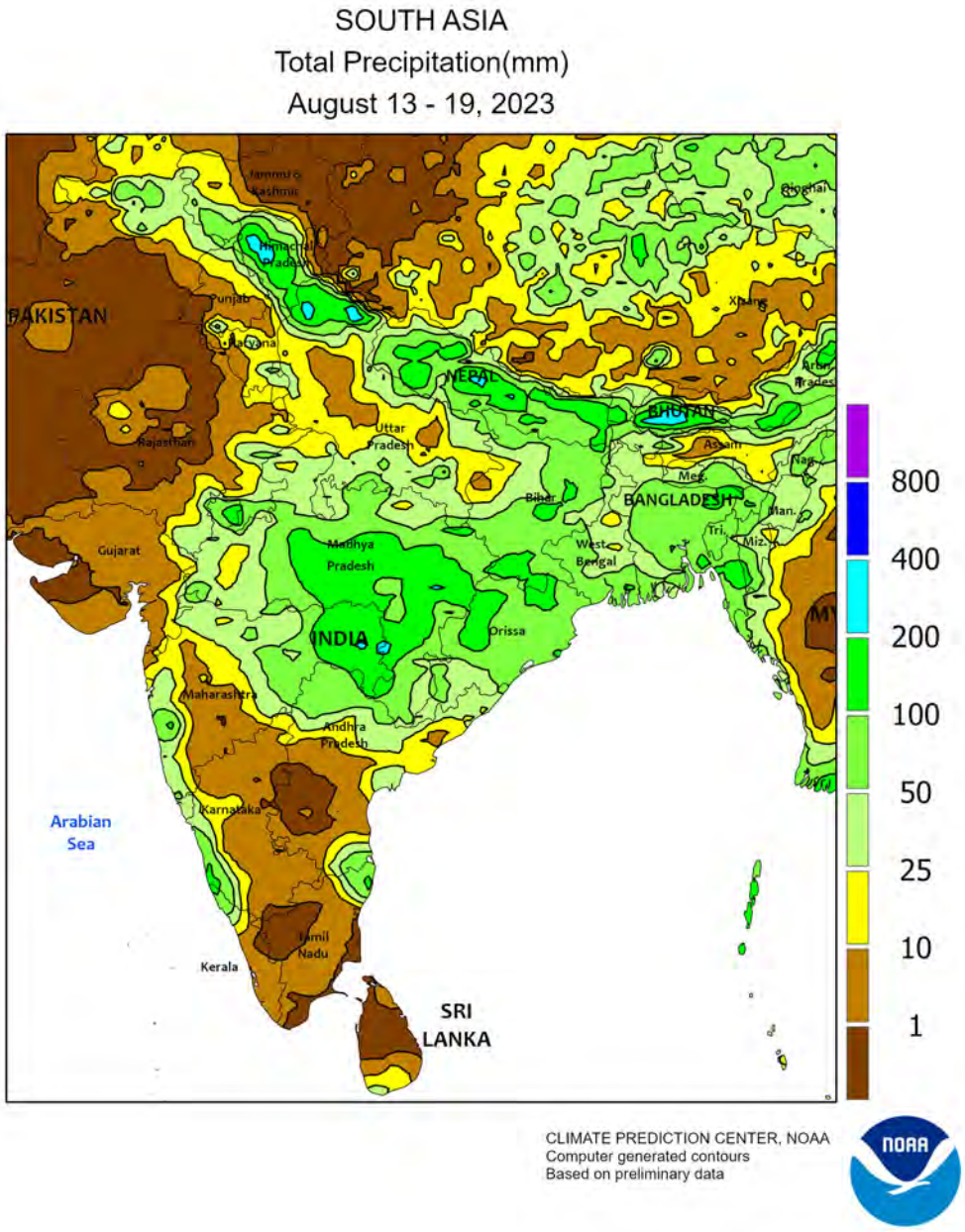

SOUTH ASIA

Showers returned to interior portions of India after a brief lull, helping to sustain adequate soil moisture for kharif crops in various stages of development. Most of the rainfall (topping 150 mm locally) was centered in Madhya Pradesh with diminishing amounts extending toward the north, west, and south. The moisture benefited vegetative to reproductive soybeans as well as cotton and rice at similar stages of development. While the rainfall extended to the east and northeast (including in Bangladesh), unseasonably light showers (less than 25 mm) elsewhere provided little benefit to crops. In all, rainfall has been largely inconsistent throughout India and environs and below average in August thus far (below 50 percent of normal in some locales). August is typically the second wettest month of the season and year, behind July, with yields of many crops dependent on adequate rainfall in this month.

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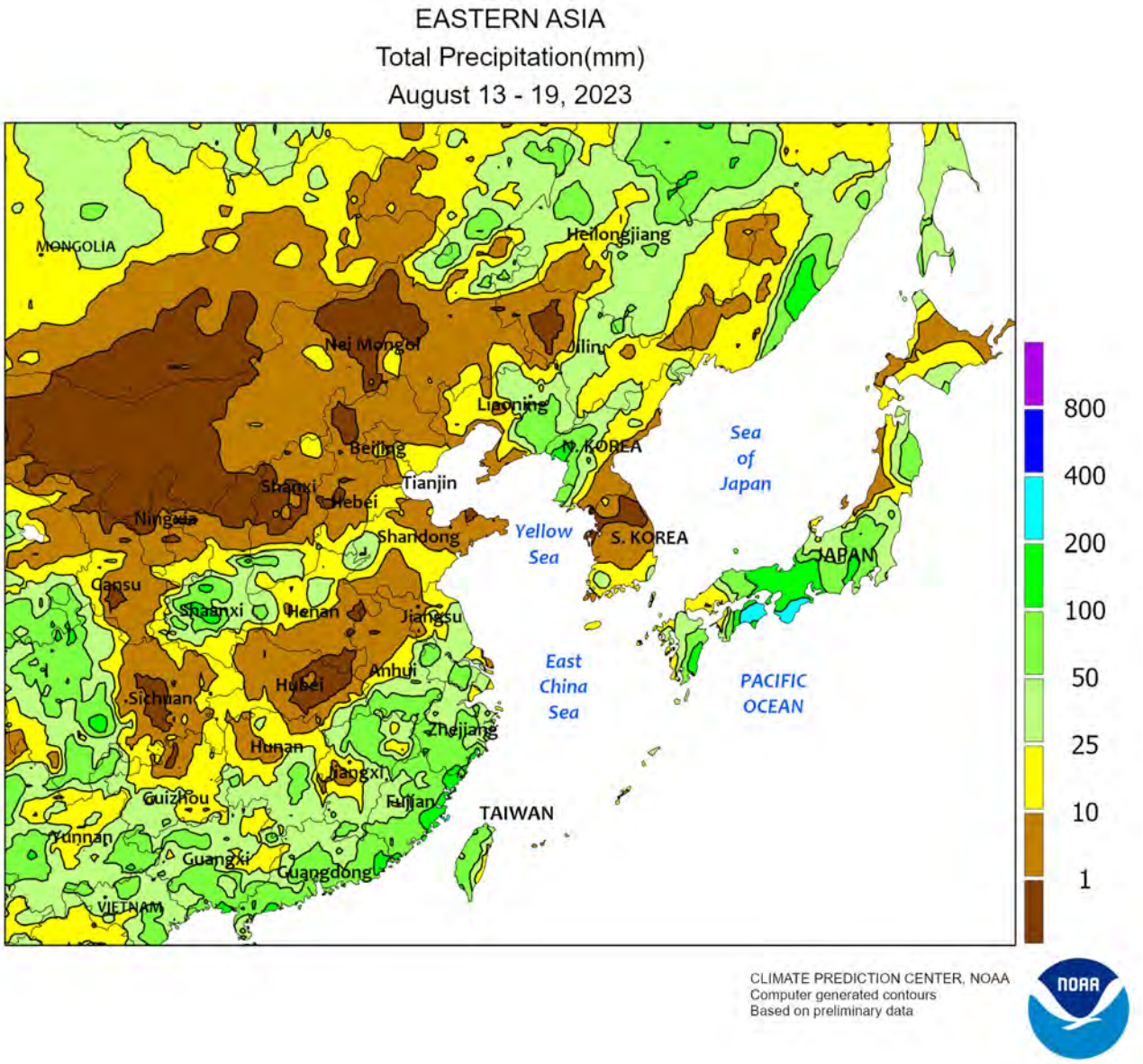

EASTERN ASIA

Showers prevailed across most summer crop areas in China but were particularly welcome in the south. Most southern provinces recorded between 25 and 100 mm of rain, further improving moisture supplies for rice after inconsistent rainfall for most of the season. However, showers became lighter northward (less than 25 mm) into the Yangtze Valley and onto the North China Plain, exacerbating the inconsistency of rain this season. In addition, temperatures in the middle 30s (degrees C) added to the stress on crops still progressing through reproductive phases of development. In contrast, more precipitation (25-50 mm or more) in much of the northeast maintained adequate to locally excessive moisture conditions for reproductive corn and soybeans; rainfall totals over the last 45 days in some areas are at a 30-year high. Meanwhile, Typhoon Lan weakened as it moved ashore in southern Japan around mid-week. The storm brought downpours (over 150 mm) and caused flooding in minor rice producing areas.

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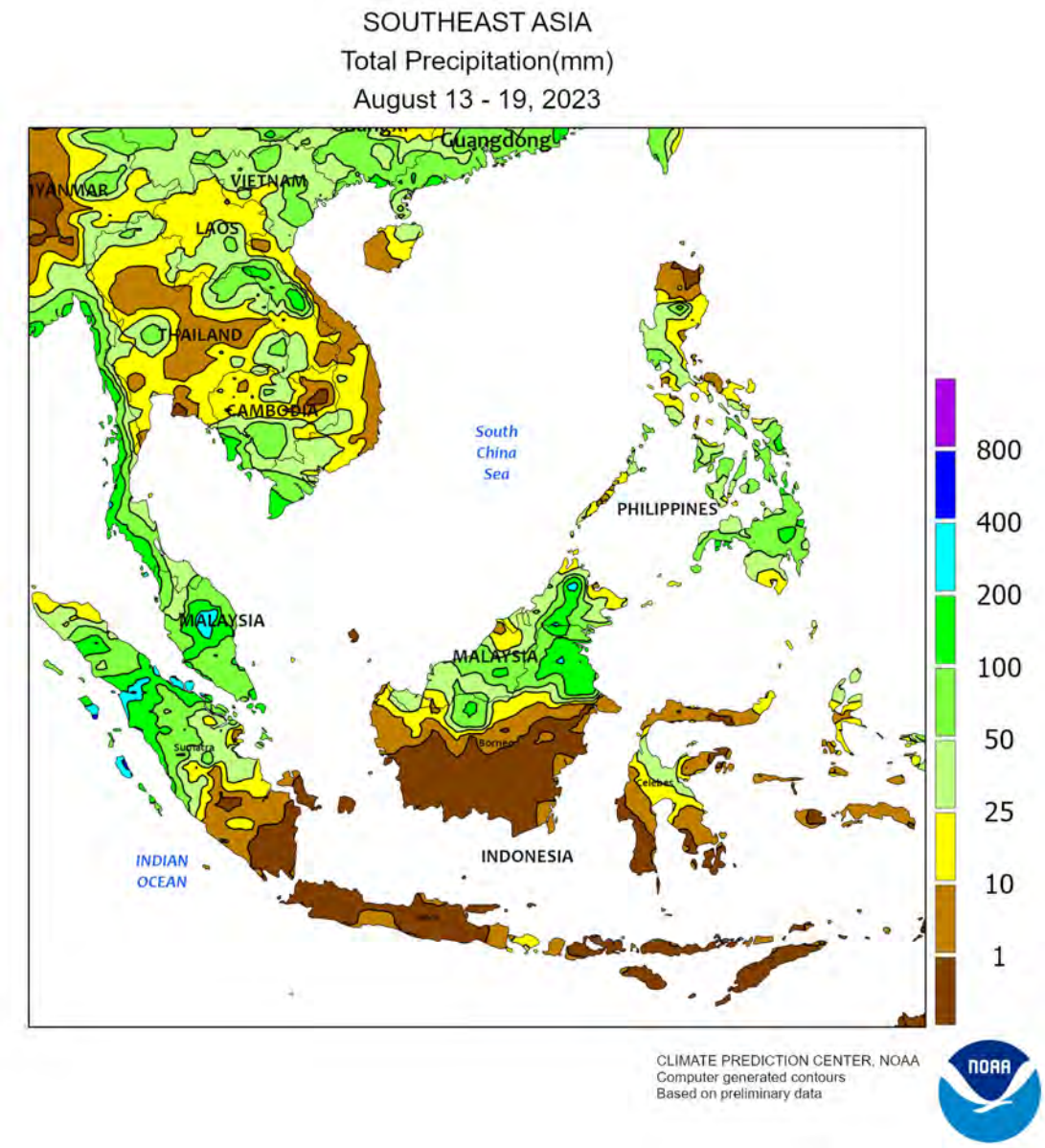

SOUTHEAST ASIA

Monsoon showers were lighter than normal across much of Indochina and the Philippines. The lack of seasonable rain further exacerbated the inconsistent nature of the monsoon this season. In fact, even key rain-fed rice areas in northeastern Thailand that had been benefiting from consistent showers reported little if any rain during the period; all major rice-producing areas in Thailand have received below-average precipitation in August thus far. Rainfall was unusually light (less than 25 mm) in the northern Philippines as well, with most of the country experiencing drier-than-normal conditions for the month. There is still time for moisture conditions to recover in the region, though, with September rainfall important to setting rice yields.

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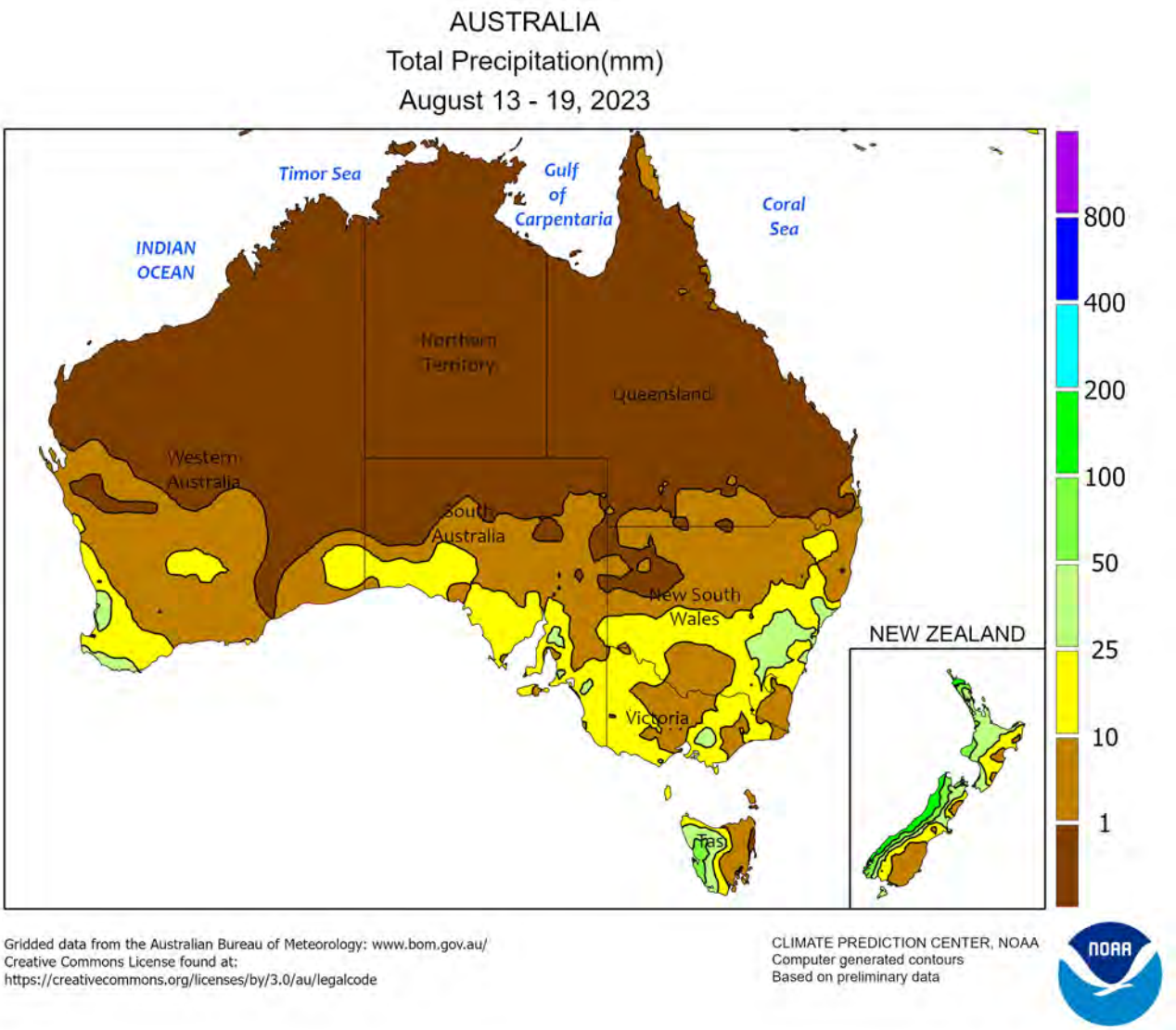

AUSTRALIA

Scattered showers (5-25 mm) overspread the wheat belt, locally increasing soil moisture for wheat, barely, and canola. The rain was timely for winter crops, which are in or nearing the reproductive stages of development. Despite the showers, root zone soil moisture remained below average in many parts of the wheat belt, and more rain will be needed in the upcoming weeks to help maintain current winter grain and oilseed prospects. Temperatures were generally seasonable in the south and west with maximum temperatures mostly in the upper 10s to middle 20s (degrees C). In northern New South Wales and southern Queensland, temperatures averaged 2 to 4°C above normal with maximum temperatures near 30°C in some areas. The hottest weather was located in areas that received little or no rainfall during the week, increasing stress on winter crops.

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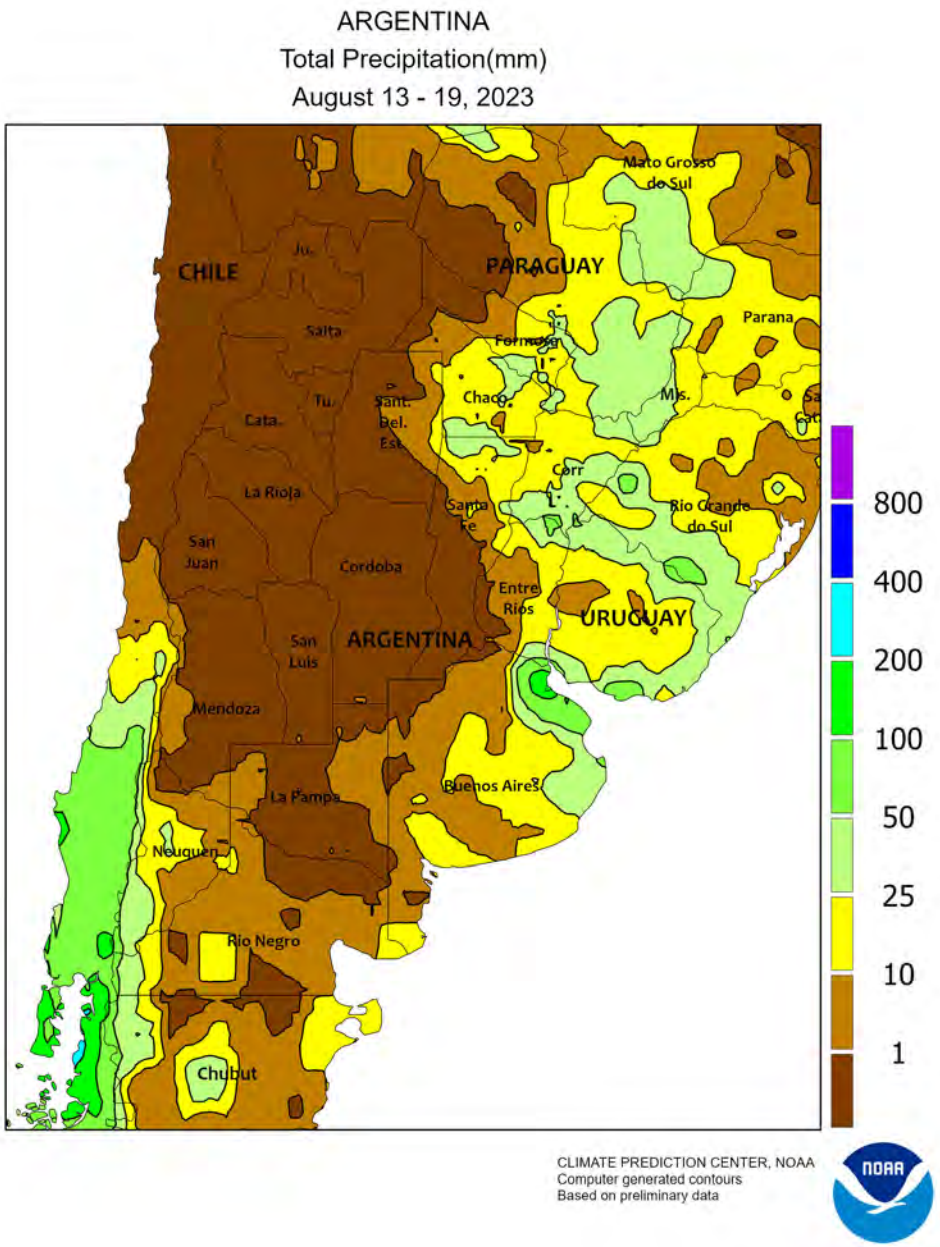

ARGENTINA

Unseasonable warmth prevailed throughout Argentina's main agricultural areas, with weekly average temperatures ranging from 1 to 3°C above normal regionwide. Highest daytime temperatures ranged from the lower 20s (degrees C) in southern Buenos Aires to the middle and upper 30s farther north, reaching across the border into Paraguay. Seasonably dry weather in the west (Córdoba northward) contrasted with light to moderate rain (10-50 mm) from Buenos Aires northward through Corrientes. While the rain benefited eastern crops, winter grains in climatologically drier western farming areas will require a timely onset of seasonal rainfall for normal development. According to the government of Argentina, corn was 97 percent harvested as of August 17, equal to last year's pace. Cotton was 98 percent harvested, also comparable to last year. Meanwhile, planting of both wheat and barley was completed.

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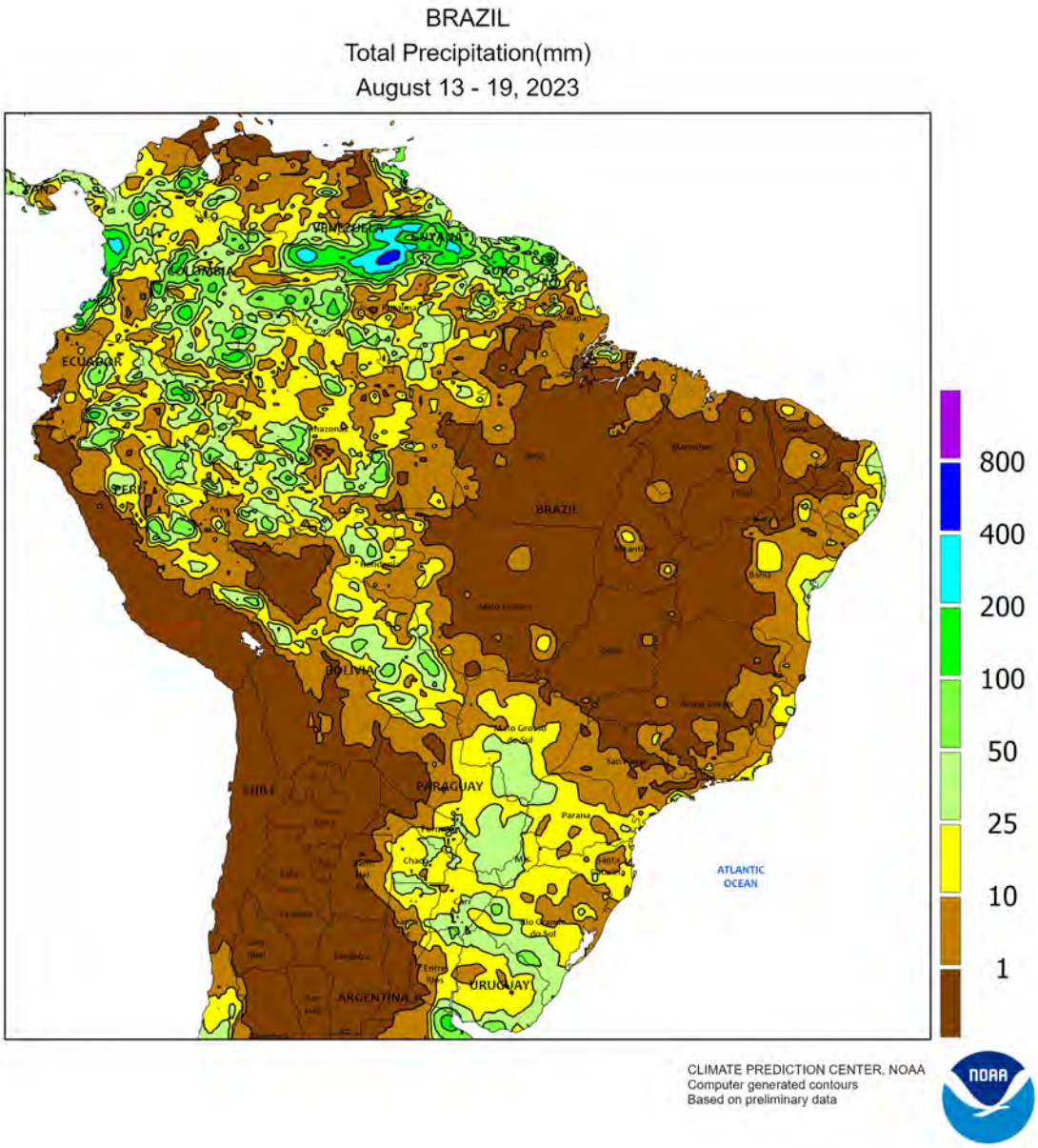

BRAZIL

Scattered, generally light showers maintained overall favorable conditions for wheat in southern production areas. Rainfall totaled 5 to 25 mm from Mato Grosso do Sul southward through Rio Grande do Sul, with higher amounts (greater than 25 mm) extending westward into Paraguay. However, warm weather accompanied the showers, with daytime highs reaching the lower and middle 30s (degrees C) in spots and freezes confined to far southern growing areas. According to the government of Paraná, 1 percent of wheat was harvested as of August 14, with 25 percent of the remaining crop mature; 34 percent of second-crop corn was harvested, and 93 percent of the remaining crop was mature. In Rio Grande do Sul, wheat was 16 percent flowering to filling as of August 17. Farther north, hot (daytime highs reaching the middle and upper 30s), sunny weather sustained rapid drydown of cotton from Mato Grosso into the northeastern interior. According to the government of Mato Grosso, cotton was 61 percent harvested as of August 18, compared with 90 percent last year.

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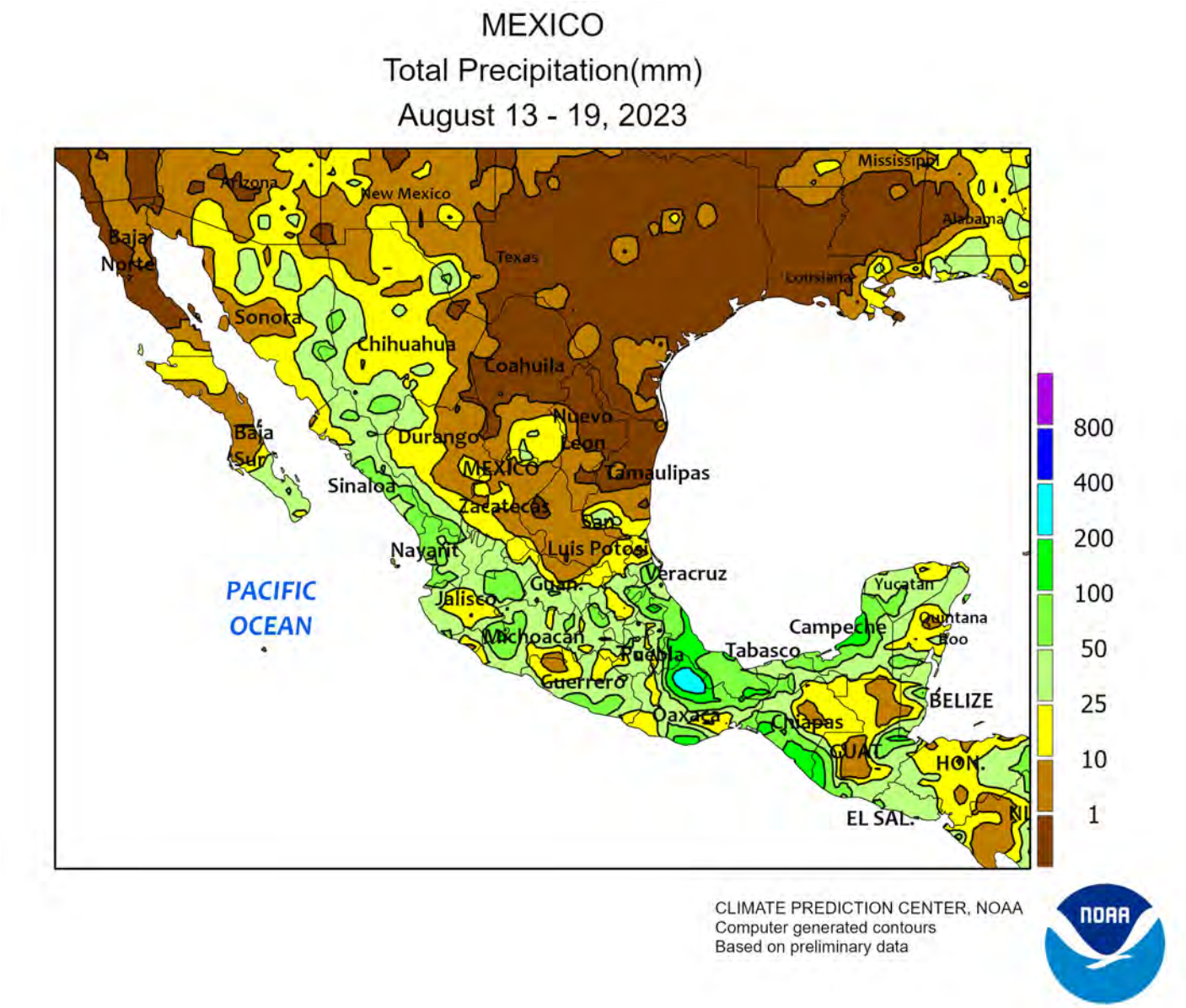

MEXICO

Widespread, locally heavy showers continued across the south and west, aided by moisture from Hurricane Hilary as it approached Baja California from the south. The storm reached peak intensity (maximum sustained winds of about 125 knots) off the southwestern coast but weakened considerably prior to making landfall on August 20 (*additional information will appear in next week's bulletin*). Rainfall totaled 25 to locally more than 100 mm in the west from Nayarit northward through Sonora and western Chihuahua, further improving long-term moisture reserves that will benefit winter grain production. Similar amounts were recorded across the southern plateau (Jalisco to Puebla), while heavier rain (50 to more than 200 mm) fell in the southeast, including much of Veracruz. In contrast to the abundant rainfall in the south and west, dryness and heat (daytime highs reaching the 40s degrees C) continued to dominate the northeast.

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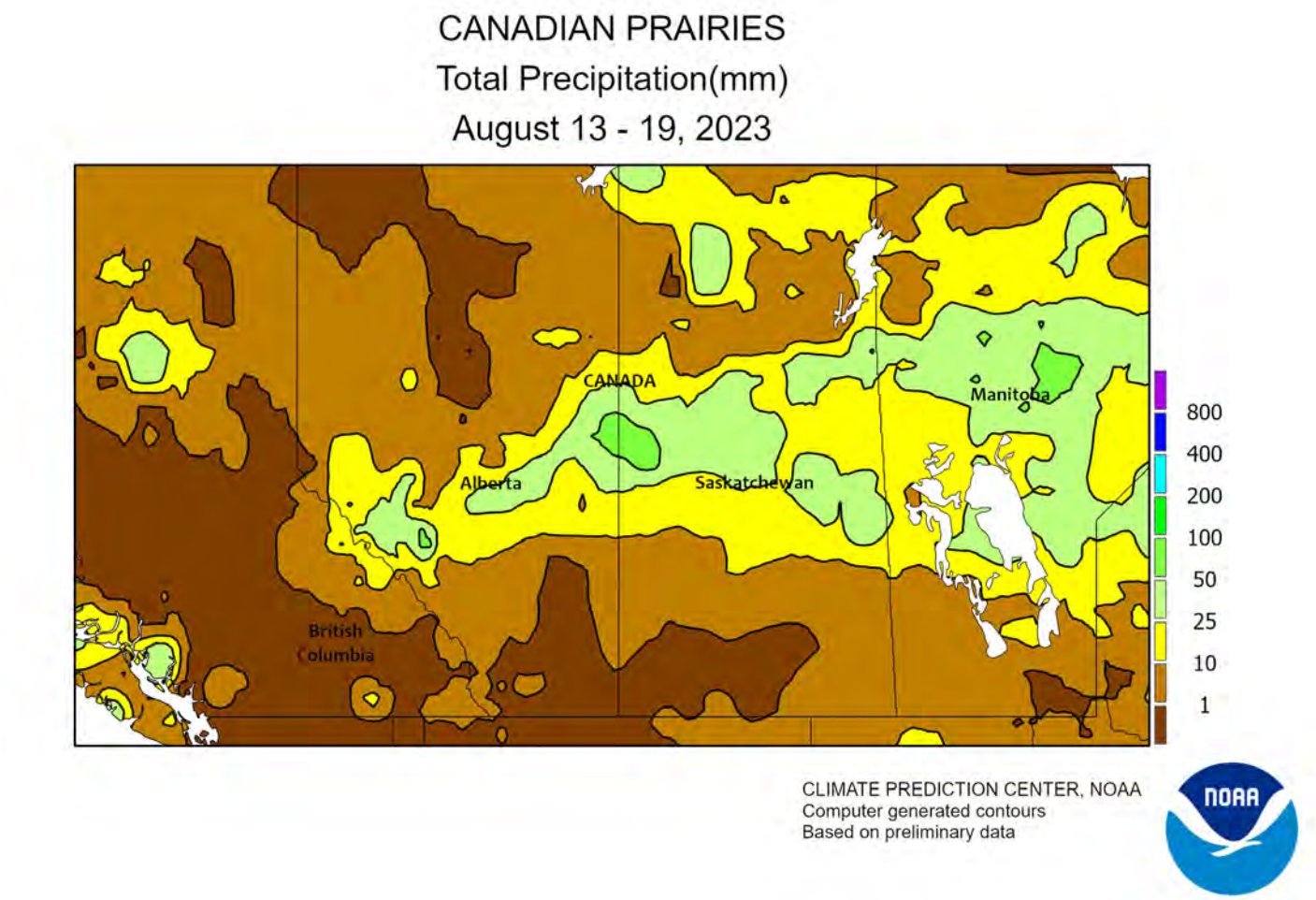

CANADIAN PRAIRIES

Unseasonably warm conditions fostered rapid spring crop and pasture growth, although unfavorable dryness in the southwest increased stress on immature grains and pastures. Weekly average temperatures ranged from 2 to 3°C above normal over much of Alberta and from 1 to 2°C above normal in Saskatchewan and Manitoba; highest daytime temperatures reached the lower to middle 30s (degrees C) at many locations, compounding stress on crops growing with limited moisture. Stabilizing rainfall (10-50 mm) continued across most northern agricultural districts, but mostly dry conditions prevailed across the south, and much of the region recorded complete dryness. According to the government of Saskatchewan, harvesting was 9 percent complete as of August 14; southwestern crops were 19 percent harvested, 4 points ahead of the 5-year average.

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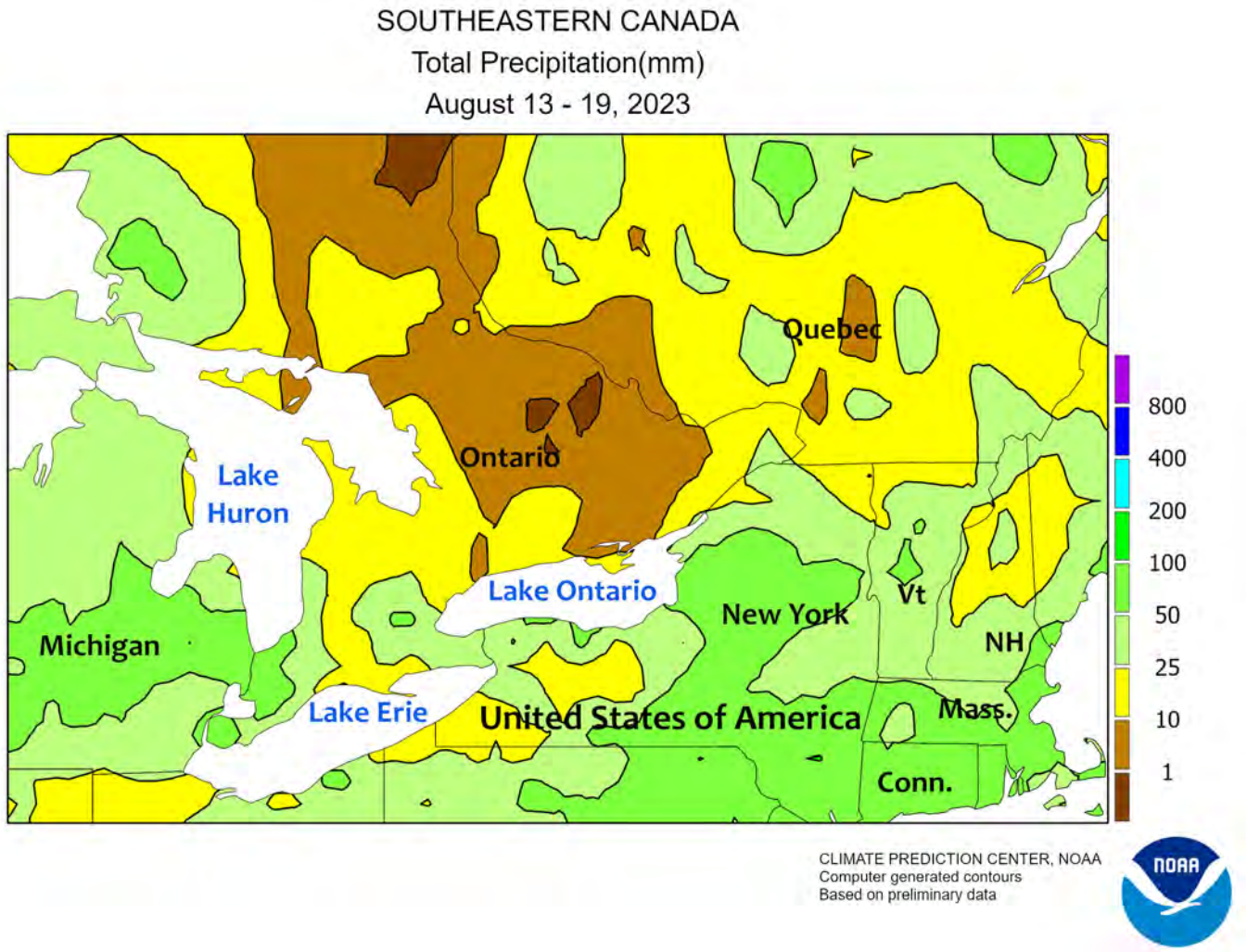

SOUTHEASTERN CANADA

Mild, showery weather maintained favorable prospects for summer crops and pastures. Weekly average temperatures ranged from 1 to 2°C below normal in Ontario's southern and northern agricultural districts to near normal elsewhere, with daytime highs reaching the middle and upper 20s (degrees C) regionwide. Nighttime lows occasionally dropped below 10°C, but temperatures remained well above freezing. Rainfall was generally light, although a few locations recorded amounts between 25 and 50 mm.

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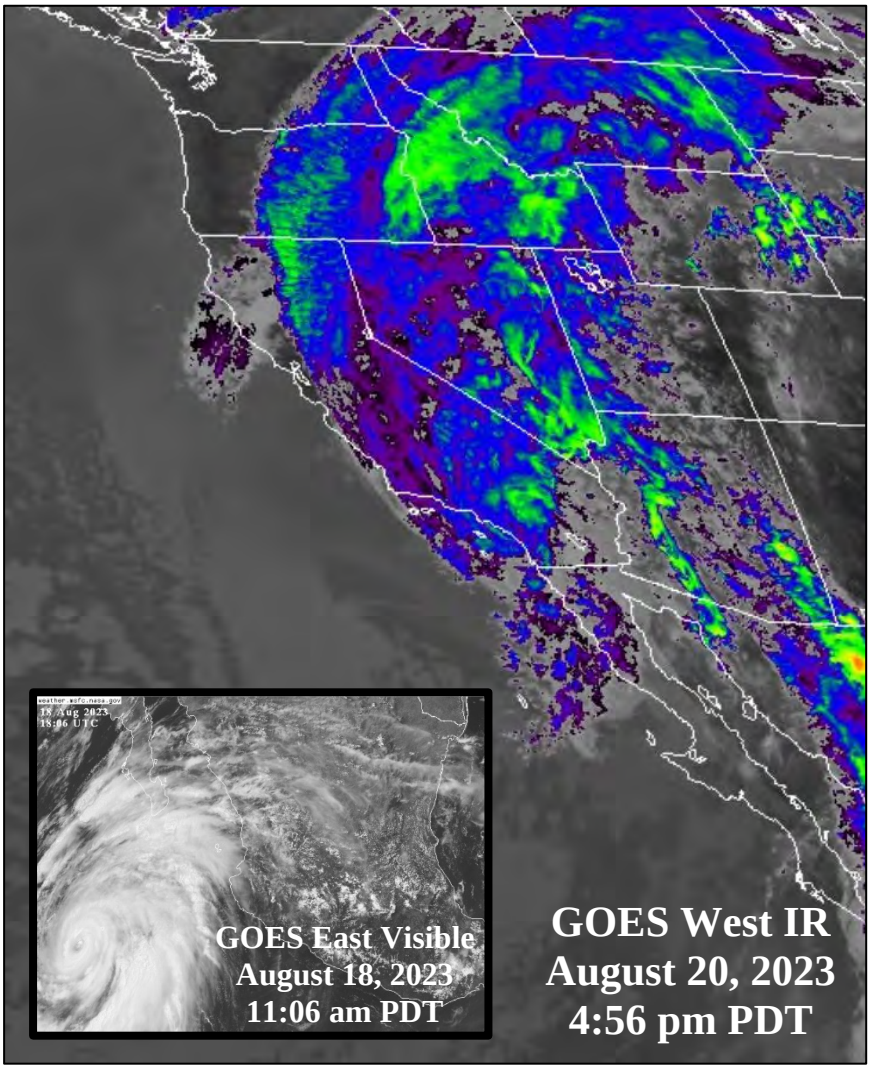
About 54 hours after reaching peak intensity as a Category 4 hurricane with sustained winds near 145 mph (see inset box), rapidly weakening Hilary became the first tropical cyclone since September 1939 to officially reach California as a tropical storm. The position estimate from the National Hurricane Center at 5 pm PDT on August 20 placed the center of Tropical Storm Hilary inland over southern California, 25 miles south-southwest of Palm Springs, with maximum sustained winds near 50 mph. At that time, Hilary was racing northward at 23 mph. Despite the satellite presentation of a heavily sheared, rapidly weakening system (see infrared satellite image, right, showing enhancement of colder cloud tops), Hilary produced as much as 4 to 8 inches of rain, with isolated totals near 12 inches, in parts of southern California, leading to flash flooding and debris flows. Additionally, tropical storm-force winds (39 mph or greater) were common near the path of the remnant circulation, with Yuma, Arizona, reporting an August 20 gust to 69 mph. Several hurricane-force wind gusts (74 mph or greater) were observed at high-elevation sites in southern California, with a gust to 79 mph reported on Palomar Mountain.



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