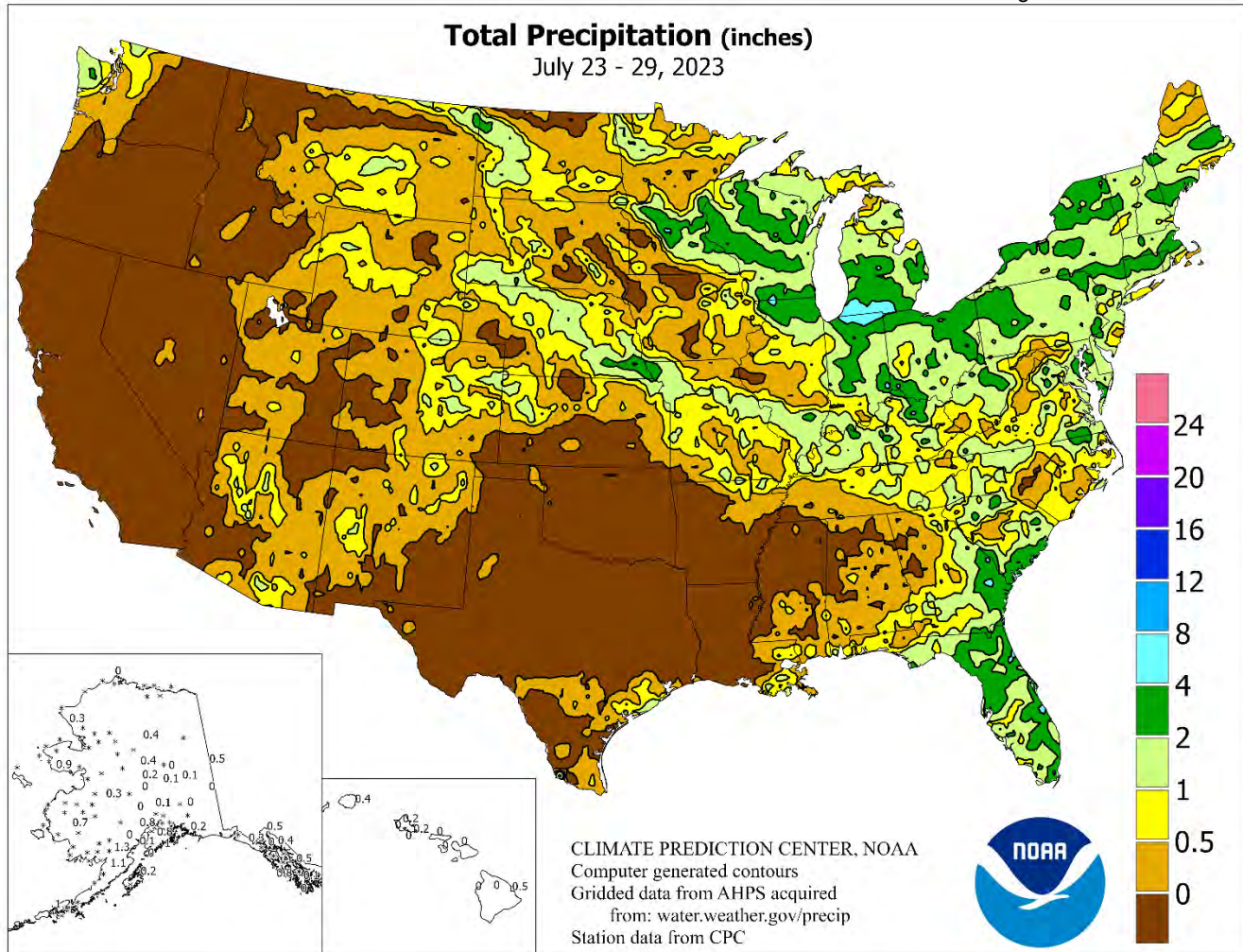


WEEKLY WEATHER AND CROP BULLETIN

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 July 23 – 29, 2023

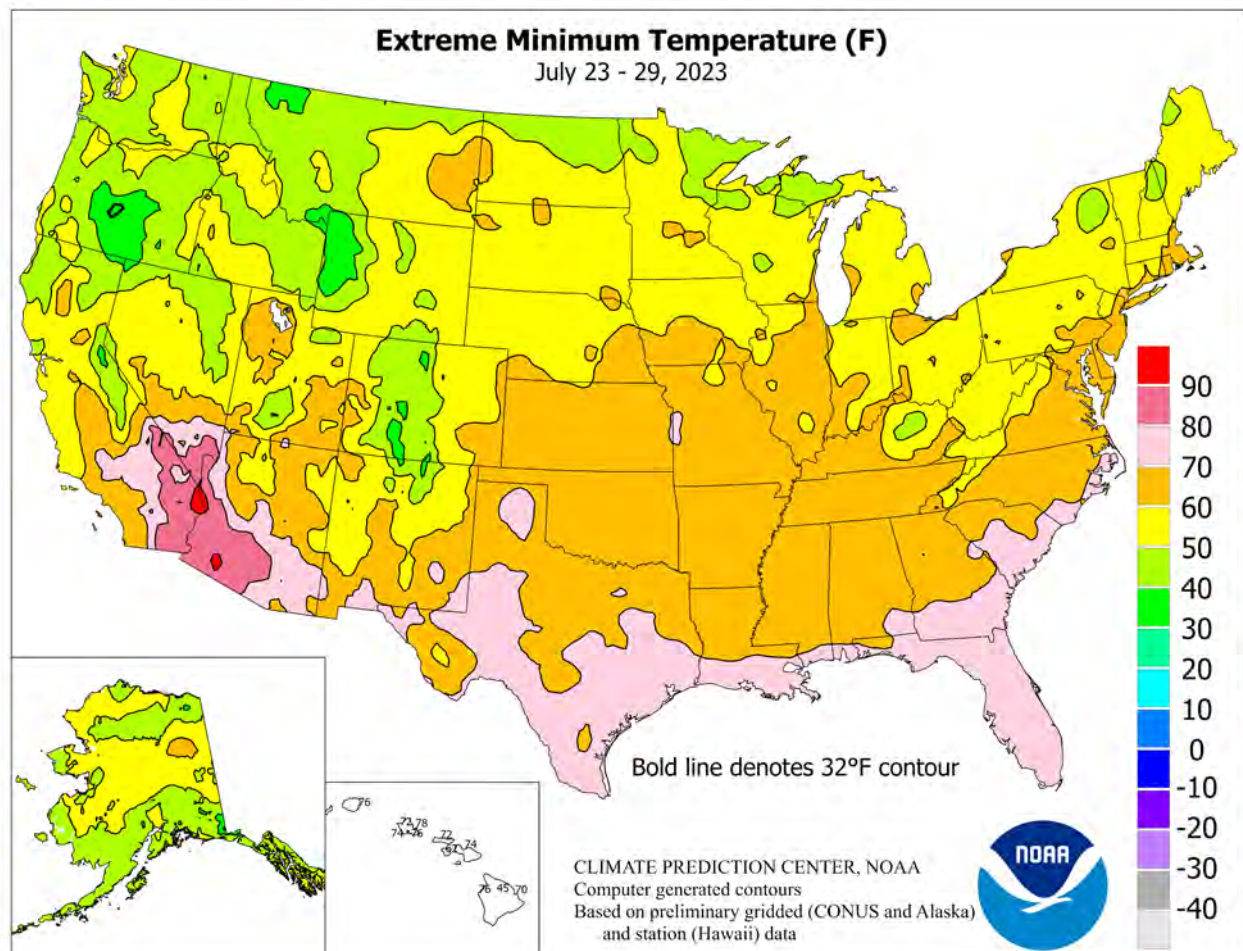
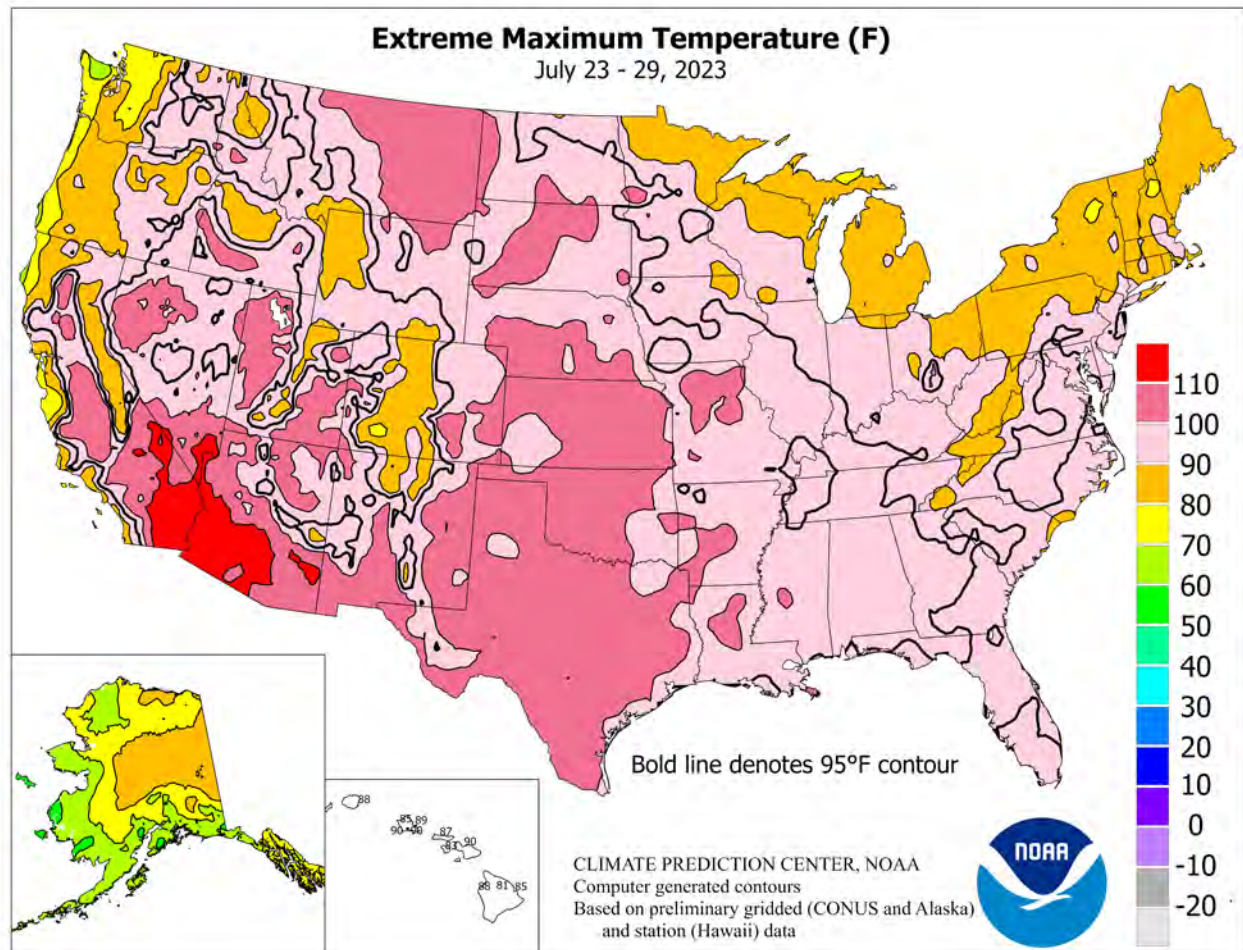
Highlights provided by USDA/WAOB

Organized rainfall was scarce **west of the Mississippi Valley**, with elevated temperatures combining with the dryness to increase stress on a variety of crops. Across the **northern Plains** and **Northwest**, however, warm, dry weather favored harvesting of winter wheat and maturation of spring-sown small grains. Late in the week, heavy showers and locally severe thunderstorms developed from **Nebraska (and portions of neighboring states) into the mid-South**. A separate area of significant rainfall stretched from the **Great Lakes States into the**

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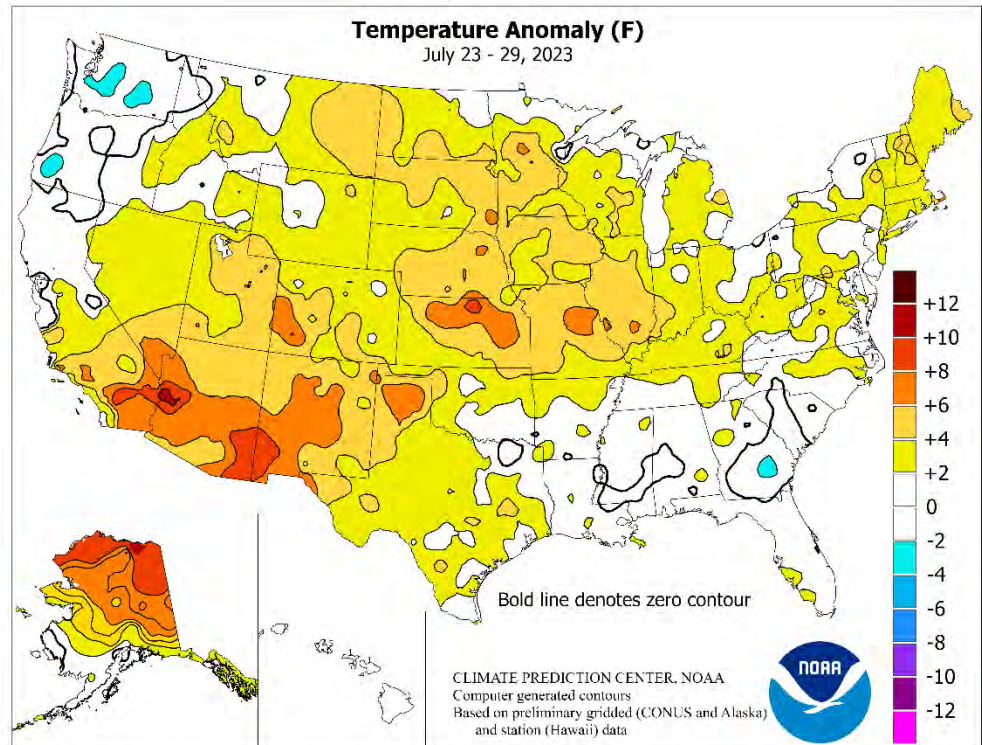


(Continued from front cover)

Northeast. Severe weather peaked on July 28, with a large outbreak of high winds and isolated tornadoes stretching from the **upper Mississippi Valley to the mid-Atlantic**. Meanwhile, persistently hot, dry weather has plagued the **western Gulf Coast region** since mid-June, leading to drought development and crop stress. More recently, record-setting warmth arrived at the end of June in the **Southwest**, with an erratic monsoon circulation failing to deliver much, if any, rain. Weekly temperatures averaged 5 to 10°F above normal in the **Southwest** and at least 5°F above normal across portions of the **northern and central Plains** and **western Corn Belt**. Elsewhere, mostly dry weather has dominated **California**, the **Great Basin**, and the **Northwest** in recent weeks, leading to a seasonal increase in wildfire activity and declining rangeland and pasture conditions.

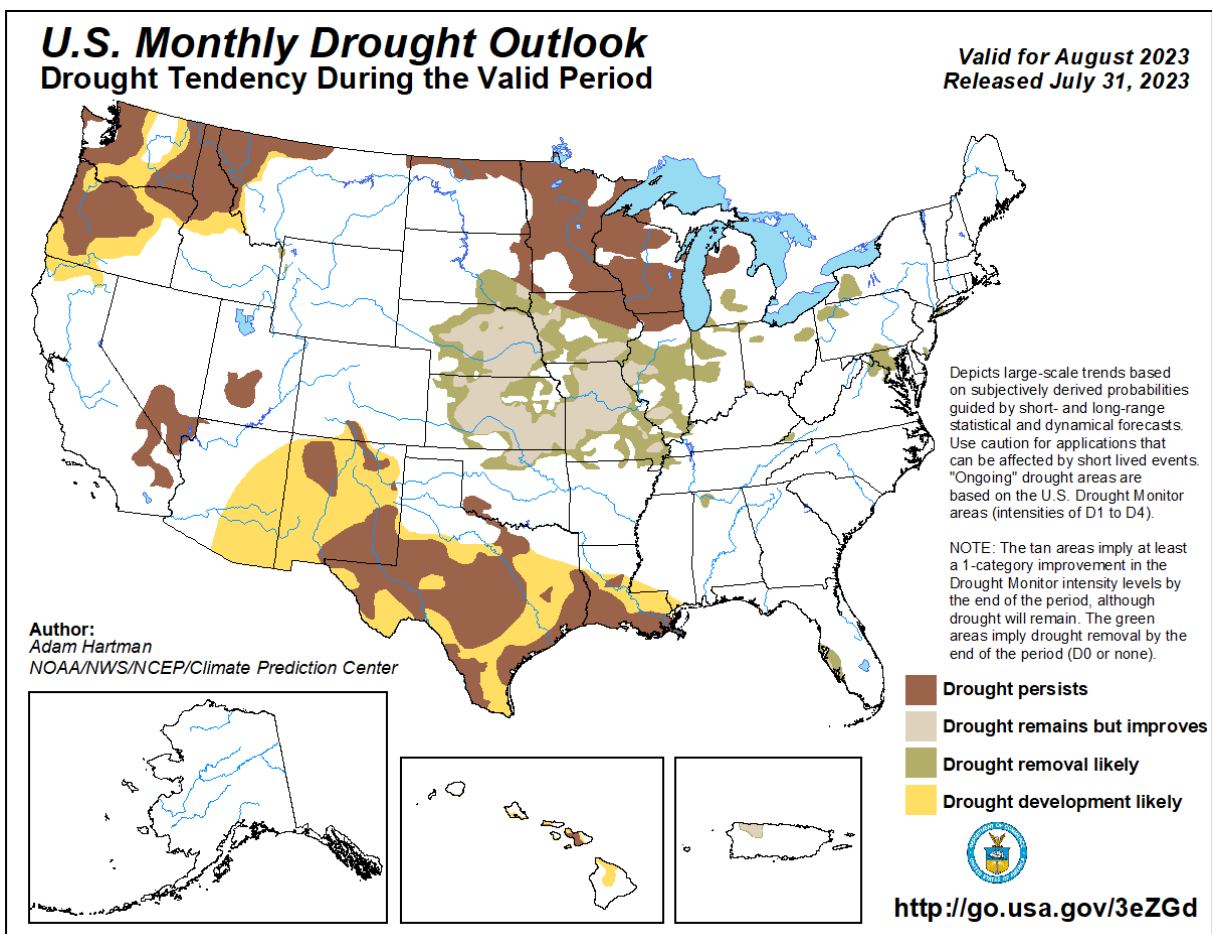
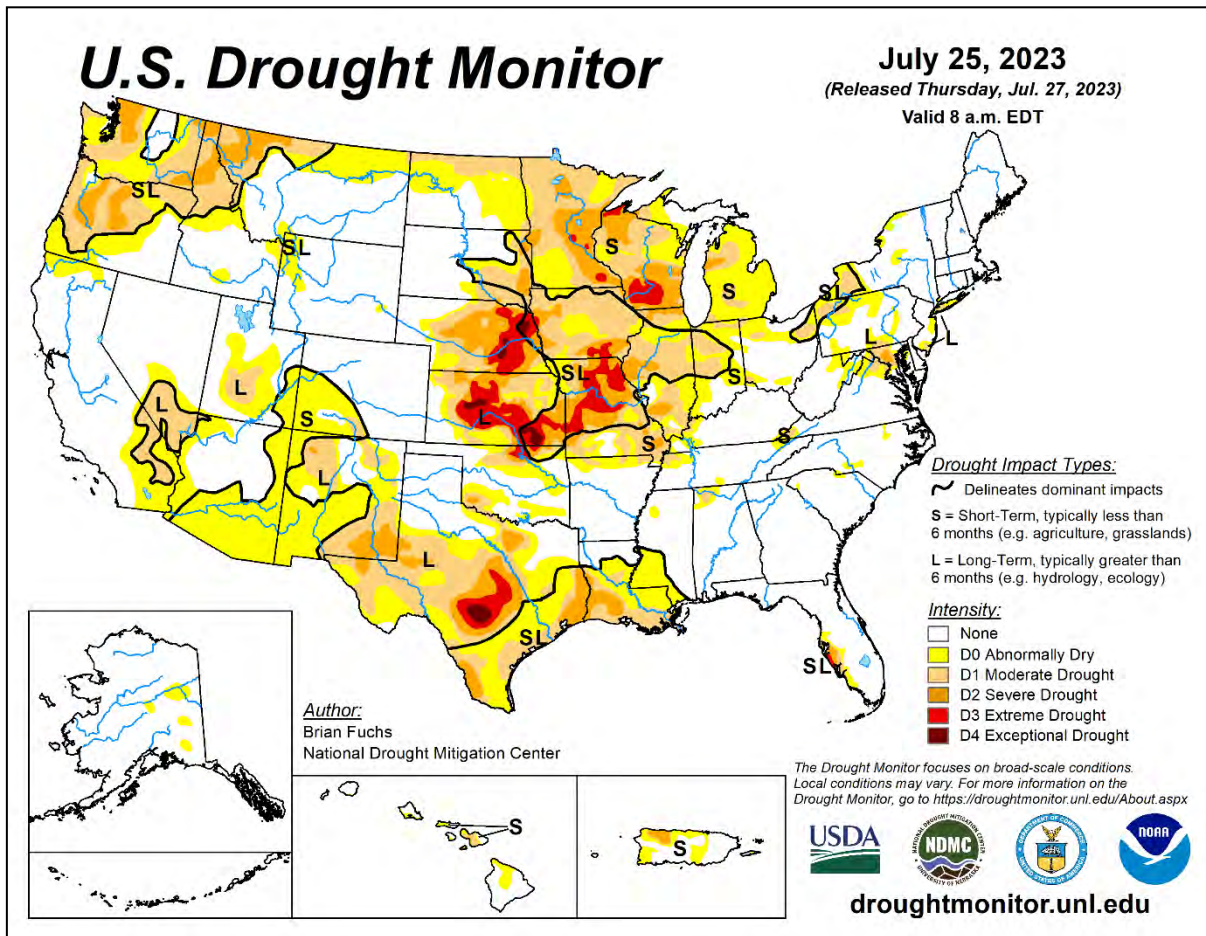
By the end of July, the York Fire—straddling the **California-Nevada line** about 50 miles northwest of **Needles, CA**, had scorched more than 70,000 acres of desert vegetation in becoming the nation's largest wildfire of the year to date. Farther north, the Golden Fire near **Bonanza, OR**—ignited on July 22—charred only 2,137 acres but damaged or destroyed at least 117 structures. Finally, the Eagle Bluff Fire, first reported on July 29, burned more than 15,000 acres near **Oroville, WA**, before leaping across the international border into **southwestern Canada**. Farther south, the hottest month on record wound down in locations such as **Phoenix, AZ; Tucson, AZ; Las Vegas, NV; and El Paso, TX**. **Phoenix** became the first major U.S. city to report a monthly average temperature exceeding the 100-degree mark; the July average of 102.7°F (7.2°F above normal) easily surpassed the August 2020 standard of 99.1°F. **Tucson** (94.2°F, or 6.0°F above normal) also topped an August 2020 record (92.0°F). With a July average temperature of 97.3°F (4.1°F above normal), **Las Vegas** edged its July and all-time monthly record of 96.2°F, set in 2020. **El Paso**, with a July average of 91.6°F (7.2°F above normal), easily shattered its monthly record of 88.9°F, set in June 1994 and July 2020. **Phoenix** set several other records, including its longest streak with high temperatures of 110°F or greater. That streak, which ran 31 days from June 30 – July 30, surpassed the former **Phoenix** standard of 18 days, set from June 12-29, 1974. During the last full week of July, dozens of daily-record highs were established across the **South and West**. On July 23, triple-digit, daily-record highs included 105°F in **Grand Junction, CO**, and 104°F in **Salt Lake City, UT**, and **Reno, NV**. In near-coastal Texas, **Victoria** set a July record with 19 days of triple-digit heat, clipping the mark of 18 days set in 1914 and 1938. By July 24, heat expanded across the **High Plains**, resulting in daily-record highs in locations such as **Hobart, OK** (109°F), and **Havre, MT** (104°F). In northern Texas, **Borger** closed the month with 9 consecutive triple-digit readings, including a daily-record high of 107°F on July 24. Meanwhile in **southern Florida**, oceanic warmth contributed to the hottest day on record in **Marathon** (99°F on July 24, tying three other dates), as well as the hottest month on record in locations such as **Marathon, Miami**, and **Key West**. Due to competition from historic, late-July heat waves, only a handful of daily records were set in the **Midwest**. However, **Sioux Falls, SD**, posted a daily-record high of 104°F on July 27. In **Kansas**, **Russell** topped the 100-degree mark on 6 of the last 7 days of the month, including a daily-record high of 107°F on July 28. Late in the week, extreme heat persisted from the **southern half of the Plains to the Mississippi Delta**, with daily-record highs reaching 109°F (on July 28) in **Concordia, KS**, and 101°F (on July 29) in **Baton Rouge, LA**. In addition, **Baton Rouge** tied a 1921 record with 5 days of 100-degree heat in July.

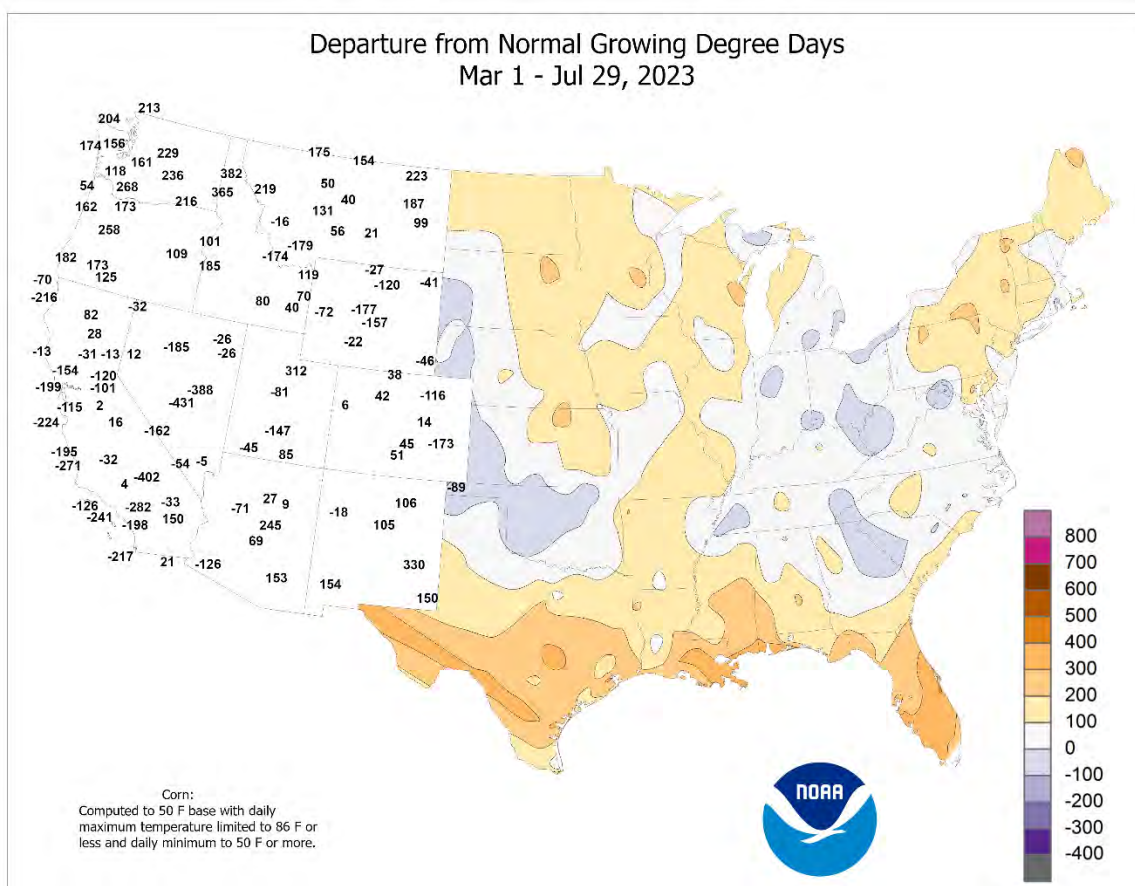
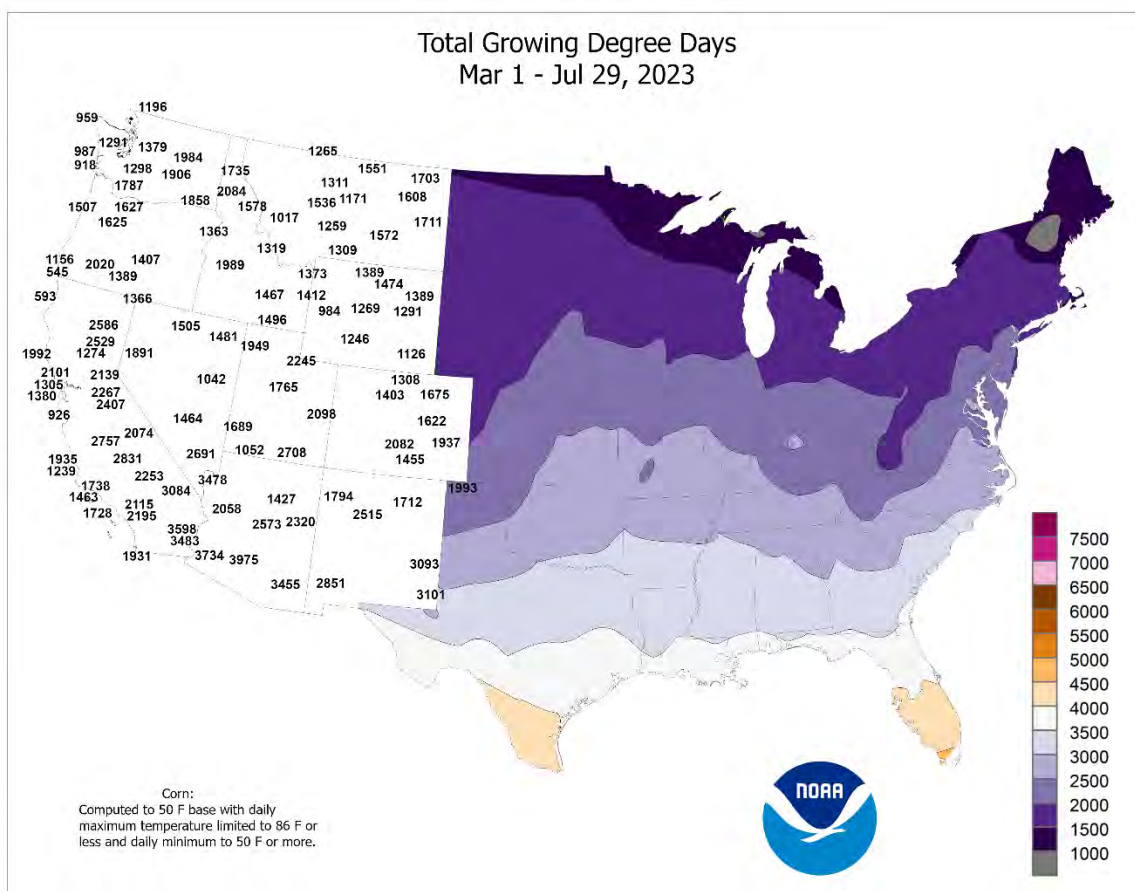
Although much of the country experienced dry weather, there were pockets of heavy rain. On July 23, **Charleston, SC**, collected a daily-record total of 3.68 inches. A day later, a cold front traversing the **Pacific Northwest** produced daily-record amounts in **Washington** locations such as **Quillayute** (1.04 inches), **Bellingham** (0.73 inch), and **Hoquiam** (0.69 inch). Loosely

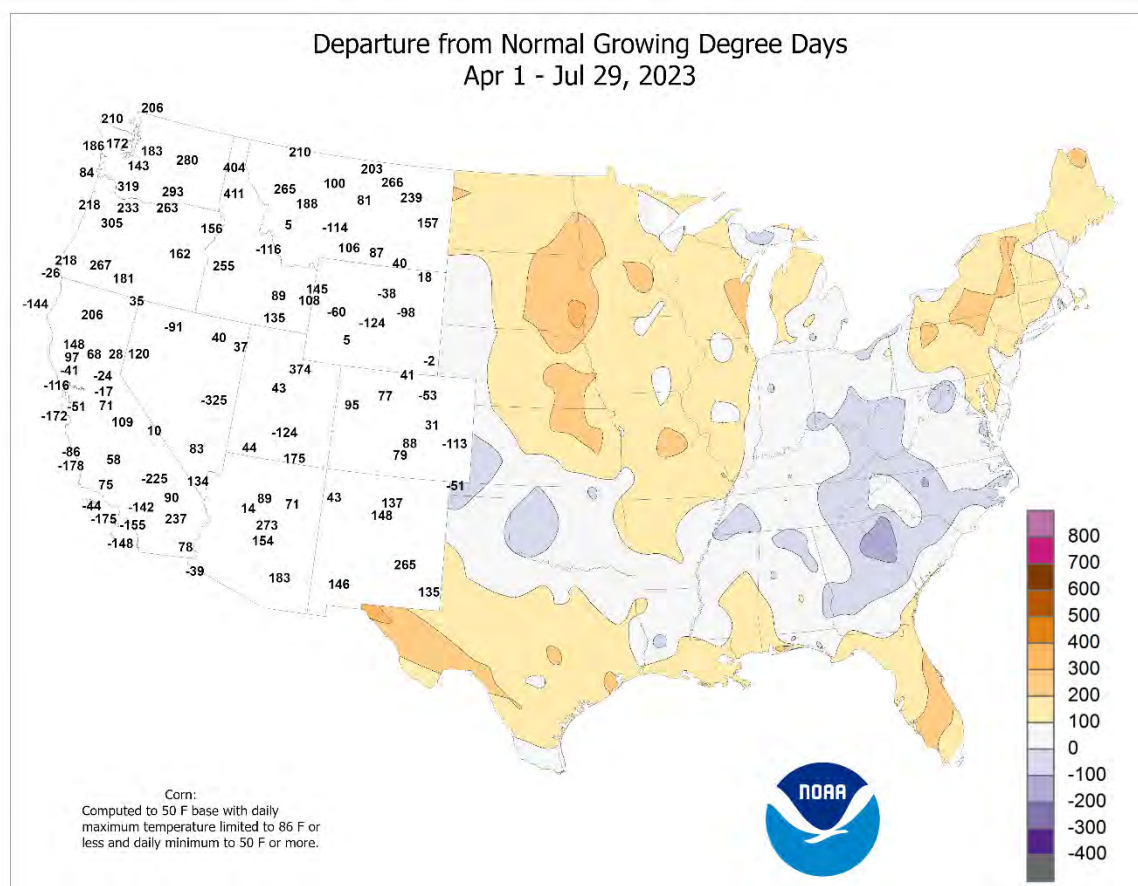
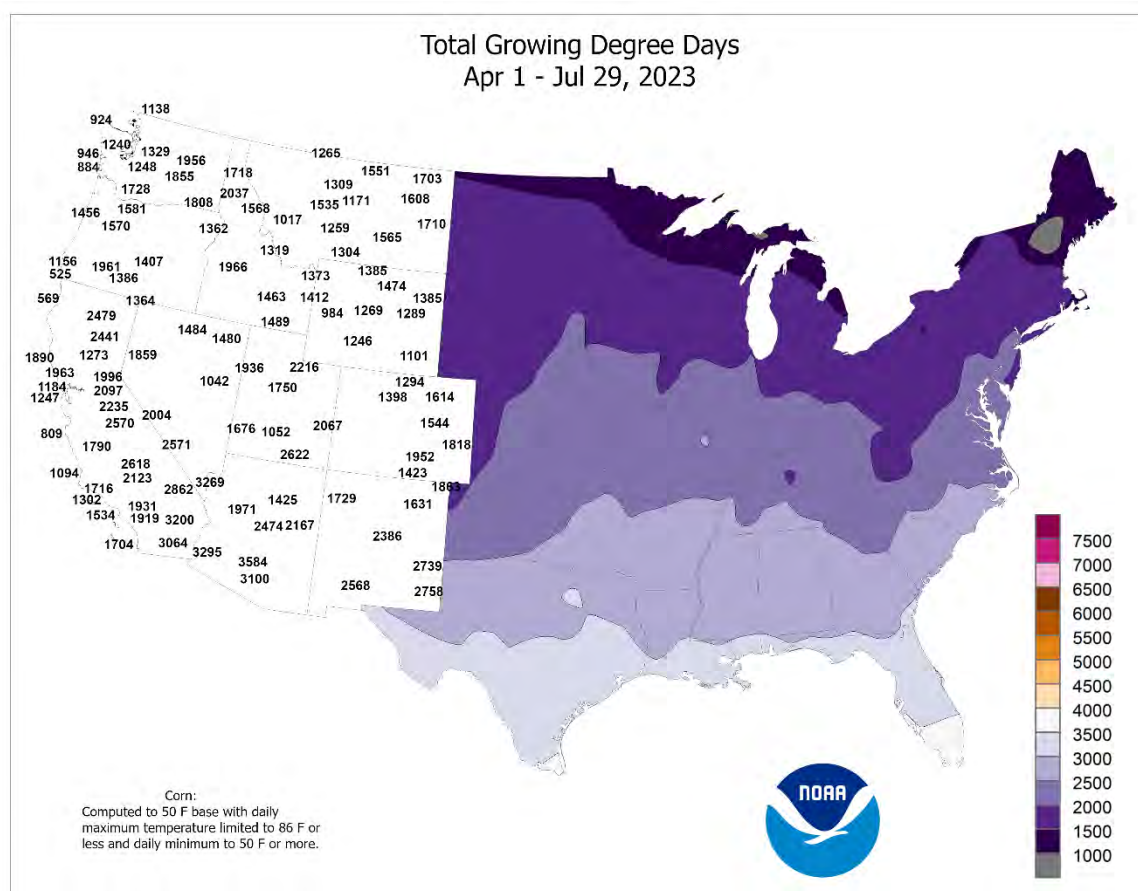


organized tropical moisture arrived along the **southern Atlantic Coast** during the mid- to late-week period. In **Florida**, record-setting rainfall totals for July 27 reached 6.19 inches in **Fort Lauderdale** and 1.95 inches in **Melbourne**; the previous wettest July day in **Fort Lauderdale** had occurred in 2013, when 5.68 inches fell on the 13th. Parts of the **eastern Corn Belt** also received heavy rain, with **South Bend, IN**, netting a daily-record sum of 1.78 inches on July 28. One of the highest winds associated with the July 28 severe weather outbreak occurred in **Marshalltown, IA**, where a gust to 93 mph was clocked. At week's end, heavy rain returned to the waterlogged **Northeast**, where daily-record amounts on July 29 reached 3.07 inches in **Boston, MA**, and 1.85 inches in **Watertown, NY**. Elsewhere in **New York**, **Albany** completed its wettest July on record, with the 10.70-inch total surpassing the 2009 mark of 9.91 inches.

Across much of the **Alaskan mainland**, late-July warmth boosted weekly temperatures 5 to 15°F above normal. Warmth was especially prominent early in the week, with **Fairbanks** logging a daily-record high of 90°F on July 24. A reading of 90°F or higher had not occurred in **Fairbanks** since June 9, 2017—and not in July since 2009. **Southeastern Alaska** also experienced a warm spell, with **Sitka** posting a daily-record high of 73°F on July 28. Temperatures were closer to normal, however, across **southwestern Alaska**. Meanwhile, mostly dry weather covered much of **northern and eastern Alaska**, while locally heavy precipitation occurred farther south and west. Late-month, daily-record totals included 1.01 inches (on July 28) in **King Salmon** and 0.78 inch (on July 29) in **Anchorage**. July rainfall ended up being more than twice normal in locations such as **Anchorage** (4.08 inches, or 224 percent of normal), **Homer** (4.25 inches, or 293 percent), **Cold Bay** (5.59 inches, or 223 percent), and **Talkeetna** (6.21 inches, or 216 percent). However, July was a drier-than-normal month at some interior locations, with monthly rainfall totaling 0.70 inch (31 percent of normal) in **Fairbanks** and 0.88 inch (37 percent) in **Delta Junction**. Additionally, **Juneau**—in **southeastern Alaska**—received a July sum of just 1.79 inches (34 percent of normal), while **Yakutat** reported 1.14 inches (15 percent). Farther south, tranquil weather returned across **Hawaii** in the wake of Tropical Storm Calvin's decay and departure. At the state's major airport observation sites, July rainfall ranged from 0.20 inch (38 percent of normal) in **Honolulu, Oahu**, to 4.97 inch (54 percent) in **Hilo**. Elsewhere, consistently warm weather on **Kauai** led to **Lihue's** warmest July on record, with the monthly average temperature of 81.9°F (2.3°F above normal) edging the 2019 standard of 81.7°F. **Lihue** reported multiple daily-record highs during the month, including readings of 88°F on July 25 and 28.







National Weather Data for Selected Cities

Weather Data for the Week Ending July 29, 2023

Data Provided by Climate Prediction Center

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN. SINCE JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AK	ANCHORAGE	64	55	67	52	59	-1	0.79	0.31	0.76	5.76	214	10.50	172	94	71	0	0	2	1
	BARROW	62	47	71	44	55	0	0.00	-0.26	0.00	1.98	149	4.54	195	94	76	0	0	0	0
	FAIRBANKS	84	64	90	60	74	12	0.00	-0.54	0.00	2.33	65	5.11	85	83	40	1	0	0	0
	JUNEAU	70	51	79	46	61	3	0.43	-0.77	0.43	6.19	71	28.74	97	97	58	0	0	1	0
	KODIAK	63	50	67	44	56	-1	0.22	-0.80	0.12	13.14	139	38.17	93	96	71	0	0	3	0
AL	NOME	58	51	62	49	55	4	0.91	0.25	0.28	3.87	123	9.84	132	100	84	0	0	5	0
	BIRMINGHAM	94	72	97	68	83	1	0.73	-0.45	0.73	6.20	62	32.48	91	87	43	6	0	1	1
	HUNTSVILLE	93	71	98	66	82	1	0.71	-0.17	0.71	8.06	97	29.87	89	98	50	5	0	1	1
	MOBILE	94	73	96	70	84	2	1.81	0.11	1.30	13.49	98	38.45	95	90	41	6	0	3	1
	MONTGOMERY	96	73	98	69	84	1	0.00	-1.07	0.00	10.78	121	31.70	100	95	42	7	0	0	0
AR	FORT SMITH	98	74	102	68	86	3	0.00	-0.65	0.00	8.43	109	27.07	97	89	37	7	0	0	0
	LITTLE ROCK	96	74	102	69	85	3	0.00	-0.71	0.00	7.43	111	40.94	137	85	44	7	0	0	0
AZ	FLAGSTAFF	89	55	92	53	72	5	0.21	-0.57	0.16	0.64	24	18.02	172	67	19	2	0	3	0
	PHOENIX	116	92	118	88	104	8	0.00	-0.26	0.00	0.00	0	2.81	74	35	13	7	0	0	0
CA	PRESCOTT	95	66	98	63	80	4	1.35	0.81	0.61	1.40	67	7.32	113	72	20	6	0	3	1
	TUCSON	109	79	111	77	94	6	0.78	0.19	0.39	1.23	54	4.72	95	61	17	7	0	5	0
	BAKERSFIELD	102	76	107	72	89	3	0.00	0.00	0.00	0.35	676	7.17	162	57	15	7	0	0	0
	EUREKA	65	53	68	51	59	1	0.00	-0.04	0.00	0.11	12	20.90	86	91	78	0	0	0	0
	FRESNO	103	73	107	70	88	4	0.00	0.00	0.00	0.00	0	12.44	161	48	16	7	0	0	0
	LOS ANGELES	78	66	80	64	72	2	0.00	-0.01	0.00	0.01	10	19.07	222	94	63	0	0	0	0
	REDDING	100	69	106	65	84	1	0.00	-0.01	0.00	0.14	17	28.26	133	55	14	7	0	0	0
	SACRAMENTO	93	62	97	59	77	1	0.00	0.00	0.00	0.00	0	13.29	110	74	25	6	0	0	0
	SAN DIEGO	77	67	82	65	72	0	0.00	-0.02	0.00	0.03	25	11.05	165	93	68	0	0	0	0
	SAN FRANCISCO	71	57	75	56	64	0	0.00	0.00	0.00	0.01	8	19.90	158	87	54	0	0	0	0
CO	STOCKTON	97	64	101	60	81	2	0.00	0.00	0.00	0.00	0	13.27	149	67	19	7	0	0	0
	ALAMOSA	90	48	94	46	69	4	0.01	-0.25	0.01	0.17	12	2.13	58	76	16	4	0	1	0
	CO SPRINGS	92	61	96	58	77	4	0.21	-0.61	0.09	12.41	240	20.07	200	68	21	6	0	3	0
	DENVER INTL	95	62	98	57	79	3	0.60	0.06	0.28	7.68	195	15.86	168	71	21	7	0	4	0
	GRAND JUNCTION	102	71	105	68	86	7	0.00	-0.16	0.00	0.27	28	4.28	91	35	12	7	0	0	0
CT	PUEBLO	101	62	106	59	82	5	0.33	-0.16	0.33	4.86	160	9.02	118	69	16	7	0	1	0
	BRIDGEPORT	88	69	91	65	78	2	1.29	0.47	0.69	9.15	134	25.67	102	90	51	2	0	3	1
DC	HARTFORD	89	65	92	60	77	3	2.54	1.51	1.04	15.18	186	35.75	137	94	50	3	0	3	3
	WASHINGTON	92	73	97	70	83	1	0.65	-0.24	0.48	7.93	95	18.00	73	88	50	4	0	4	0
DE	WILMINGTON	90	70	95	65	80	3	0.90	-0.10	0.47	20.64	234	31.54	120	90	53	3	0	4	0
	DAYTONA BEACH	91	75	93	73	83	1	1.59	0.30	0.85	14.40	114	27.23	100	95	60	5	0	5	2
FL	JACKSONVILLE	92	74	95	71	83	0	1.48	-0.03	1.04	10.25	73	24.00	80	94	57	6	0	3	1
	KEY WEST	92	82	95	74	87	1	0.78	-0.09	0.43	3.47	45	7.67	43	84	63	6	0	4	0
	MIAMI	93	80	98	76	86	2	1.25	-0.38	0.92	14.91	85	37.00	110	85	56	5	0	3	1
	ORLANDO	92	75	95	73	84	1	0.09	-1.69	0.04	11.45	76	19.81	67	95	55	6	0	3	0
	PENSACOLA	93	76	95	75	85	1	0.00	-1.80	0.00	20.67	140	41.54	106	81	47	6	0	0	0
	TALLAHASSEE	94	74	98	71	84	1	0.32	-1.33	0.27	11.17	77	31.24	88	96	50	6	0	2	0
	TAMPA	93	79	94	75	86	2	0.55	-1.20	0.33	6.39	43	13.75	49	87	56	7	0	3	0
	WEST PALM BEACH	91	78	94	75	84	1	1.18	-0.11	1.10	20.86	152	38.89	122	92	59	5	0	2	1
	ATHENS	92	69	95	67	81	-1	0.00	-0.90	0.00	11.64	132	36.81	128	98	48	7	0	0	0
	ATLANTA	95	74	98	71	85	3	0.01	-0.94	0.01	6.02	66	26.75	88	81	37	7	0	1	0
GA	AUGUSTA	91	71	94	68	81	-2	3.24	2.22	3.18	13.15	147	39.08	147	99	52	5	0	4	1
	COLUMBUS	94	73	97	70	83	0	0.21	-0.76	0.13	12.79	158	33.87	116	90	43	6	0	2	0
	MACON	95	71	99	68	83	0	0.46	-0.49	0.42	7.30	81	30.41	108	96	47	5	0	2	0
	SAVANNAH	91	74	95	72	83	-1	1.62	0.28	1.46	9.78	81	27.42	95	91	53	5	0	3	1
	HILO	84	72	85	70	78	1	0.54	-1.74	0.16	9.26	58	69.57	110	96	64	0	0	7	0
HI	HONOLULU	89	77	90	76	83	1	0.03	-0.09	0.02	0.59	60	9.67	111	80	52	1	0	2	0
	KAHULUI	88	75	90	74	82	1	0.00	-0.13	0.00	0.48	73	9.29	95	83	52	2	0	0	0
	LIHUE	86	78	88	76	82	2	0.42	-0.01	0.20	2.23	65	30.55	155	84	61	0	0	5	0
	BURLINGTON	90	69	96	62	80	4	0.21	-0.60	0.12	9.35	107	20.09	87	96	57	4	0	4	0
	CEDAR RAPIDS	92	65	97	58	79	6	0.86	-0.05	0.86	4.24	43	11.52	53	92	46	4	0	1	1
IA	DES MOINES	91	71	98	66	81	5	0.01	-0.82	0.01	5.49	62	16.31	71	87	50	4	0	1	0
	DUBUQUE	88	64	93	58	76	5	2.66	1.63	2.52	6.41	66	17.09	73	96	53	3	0	2	1
	SIOUX CITY	93	68	99	60	80	6	0.12	-0.60	0.12	4.53	60	13.98	78	98	49	4	0	1	0
	WATERLOO	92	65	98	57	79	5	0.31	-0.60	0.31	6.08	62	14.88	65	93	46	5	0	1	0
	BOISE	97	67	101	62	82	3	0.00	-0.04	0.00	0.25	26	5.18	70	46	15	7	0	0	0
ID	LEWISTON	94	63	103	59	79	1	0.08	0.00	0.07	1.09	64	4.49	54	51	17	5	0	2	0
	POCATELLO	94	56	99	49	75	3	0.04	-0.08	0.02	0.42	29	6.66	91	74	14	7	0	2	0
	CHICAGO/O'HARE	89	69	93	64	79	3	1.81	0.91	1.32	9.90	131	22.59	101	88	48	4	0	3	1
	MOLINE	92	67	96	61	80	4	0.46	-0.38	0.46	4.46	49	15.14	64	92	49	5	0	1	0
	PEORIA	93	70	98	64	81	5	0.70	-0.04	0.46	5.57	79	18.51	82	97	48	5	0	3	0
IL	ROCKFORD	88	63	92	55	75	2	1.95	1.09	1.28	6.17	70	19.72	88	98	54	3	0	2	2
	SPRINGFIELD	91	69	96	60	80	4	0.07	-0.73	0.05	5.36	65	17.93	76	93	53	5	0	2	0
	EVANSVILLE	94	73	100	63	83	5	1.56	0.66	1.47	6.60	76	29.71	99	92	49	6	0	2	1
	FORT WAYNE	87	64	92	59	75	2	0.85												

Weather Data for the Week Ending July 29, 2023

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP	
																	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
KY	WICHITA	99	71	102	66	85	3	0.00	-0.88	0.00	9.22	106	15.50	72	80	35	7	0	0	0
	LEXINGTON	91	70	94	62	80	4	0.71	-0.47	0.71	11.93	122	31.09	99	83	51	4	0	1	1
	LOUISVILLE	93	75	96	68	84	4	0.03	-0.93	0.03	7.86	97	29.00	98	80	48	6	0	1	0
LA	PADUCAH	91	72	94	63	82	2	1.28	0.37	0.71	11.63	135	39.11	126	90	55	6	0	4	2
	BATON ROUGE	98	75	101	73	87	3	0.00	-1.01	0.00	5.11	45	32.03	87	92	38	7	0	0	0
	LAKE CHARLES	95	74	96	72	85	1	0.13	-1.13	0.13	5.37	45	29.39	85	93	43	7	0	1	0
MA	NEW ORLEANS	94	75	96	73	85	1	1.02	-0.39	1.02	4.85	34	19.01	49	92	44	7	0	1	1
	SHREVEPORT	98	73	100	68	86	1	0.00	-0.70	0.00	0.00	0	0.00	0	86	35	7	0	0	0
	BOSTON	88	69	91	64	78	4	3.52	2.77	2.41	12.74	183	28.53	116	86	52	2	0	3	2
MD	WORCESTER	83	65	86	61	74	3	1.18	0.27	0.80	17.05	216	36.50	137	89	54	0	0	2	1
	BALTIMORE	92	71	97	64	81	3	2.47	1.41	1.97	11.09	136	21.00	82	90	46	3	0	3	1
	CARIBOU	81	60	85	56	70	3	0.30	-0.57	0.28	7.42	94	19.88	88	94	52	0	0	2	0
MI	PORTLAND	84	64	86	59	74	3	0.48	-0.26	0.44	10.98	149	31.88	120	97	55	0	0	2	0
	ALPENA	84	59	89	53	71	3	3.69	2.99	3.46	7.13	124	19.08	115	97	50	0	0	2	1
	GRAND RAPIDS	83	65	88	59	74	1	2.28	1.42	1.15	7.45	98	22.28	98	96	54	0	0	4	2
MN	LANSING	84	65	89	58	74	3	1.14	0.48	0.52	7.07	108	21.17	109	92	52	0	0	4	1
	MUSKEGON	84	67	90	64	75	3	1.13	0.48	0.60	4.62	82	17.77	91	88	53	1	0	3	1
	TRAVERSE CITY	83	64	90	60	74	3	0.55	-0.08	0.36	4.62	90	12.93	86	92	54	1	0	3	0
MO	DULUTH	81	59	88	53	70	2	0.29	-0.46	0.16	5.43	67	16.89	97	91	53	0	0	3	0
	INT_L FALLS	78	53	89	47	66	1	0.51	-0.23	0.51	5.97	78	14.52	98	95	48	0	0	1	1
	MINNEAPOLIS	90	67	96	63	79	5	1.67	0.81	1.05	3.46	41	14.64	78	84	41	5	0	3	2
MS	ROCHESTER	85	62	89	55	74	4	0.27	-0.66	0.20	3.08	33	18.33	86	99	59	0	0	2	0
	ST. CLOUD	90	63	95	59	76	6	1.02	0.26	0.58	2.37	33	13.24	80	96	45	4	0	4	1
	COLUMBIA	96	73	101	65	84	6	0.31	-0.49	0.24	5.54	68	16.71	66	83	43	7	0	2	0
MT	KANSAS CITY	93	73	99	63	83	4	1.10	0.20	0.98	6.59	68	20.80	86	92	55	6	0	2	1
	SAINT LOUIS	97	78	101	71	87	7	0.32	-0.56	0.29	7.78	95	20.54	78	74	41	7	0	3	0
	SPRINGFIELD	95	72	100	65	84	4	0.02	-0.83	0.02	4.42	54	25.14	93	84	39	7	0	1	0
NC	JACKSON	97	72	101	67	84	2	0.00	-1.16	0.00	6.87	75	33.74	95	87	36	7	0	0	0
	MERIDIAN	94	69	99	66	82	-1	0.09	-1.04	0.09	14.45	153	45.87	128	96	45	6	0	1	0
	TUPELO	95	73	99	66	84	1	0.01	-0.96	0.01	9.68	104	36.79	103	92	43	6	0	1	0
ND	BILLINGS	93	64	101	58	78	3	0.04	-0.19	0.02	6.64	196	12.66	133	72	22	5	0	2	0
	BUTTE	85	47	92	45	66	1	0.02	-0.25	0.02	5.38	150	10.83	128	79	20	1	0	1	0
	CUT BANK	86	53	99	45	69	3	0.00	-0.23	0.00	2.13	54	4.79	65	63	19	2	0	0	0
NE	GLASGOW	95	63	107	53	79	5	0.00	-0.34	0.00	2.65	56	9.97	108	56	19	5	0	0	0
	GREAT FALLS	89	53	101	43	71	1	0.07	-0.15	0.05	4.02	103	11.89	120	69	20	3	0	2	0
	HAVRE	92	56	104	48	74	2	0.00	-0.25	0.00	2.81	71	7.04	86	59	17	4	0	0	0
NJ	MISSOULA	93	57	100	50	75	4	0.12	-0.03	0.12	2.18	74	7.02	79	67	18	4	0	1	0
	ASHEVILLE	88	65	92	61	76	1	0.94	-0.11	0.73	5.43	59	24.33	84	94	46	2	0	3	1
	CHARLOTTE	91	72	95	69	82	1	3.45	2.53	2.44	8.65	116	28.41	112	91	47	4	0	2	2
NM	GREENSBORO	91	70	95	65	81	2	0.38	-0.64	0.38	5.99	75	26.50	105	91	43	5	0	1	0
	HATTERAS	88	77	90	72	82	1	2.77	1.42	2.29	9.30	99	24.53	78	93	69	1	0	3	1
	RALEIGH	95	73	97	67	84	3	0.84	-0.40	0.83	6.49	76	25.37	98	91	48	7	0	2	1
NV	WILMINGTON	90	75	93	73	83	1	1.03	-0.59	0.73	11.80	97	31.80	102	96	60	4	0	6	1
	BISMARCK	92	62	101	57	77	5	0.30	-0.31	0.26	5.80	92	12.01	100	92	32	5	0	2	0
	DICKINSON	90	60	97	58	75	4	0.54	0.07	0.48	5.06	92	8.43	80	88	33	5	0	3	0
NY	FARGO	87	62	98	53	75	4	0.07	-0.49	0.04	4.66	64	11.16	77	87	48	3	0	3	0
	GRAND FORKS	86	58	97	47	72	3	0.38	-0.27	0.28	3.64	51	7.77	59	91	46	1	0	2	0
	JAMESTOWN	86	60	98	52	73	3	0.16	-0.50	0.11	6.04	89	10.82	85	93	46	2	0	2	0
OH	GRAND ISLAND	96	70	104	62	83	6	0.98	0.20	0.98	4.72	64	9.23	53	92	41	5	0	1	1
	LINCOLN	94	72	102	65	83	5	0.30	-0.37	0.24	7.98	105	11.89	64	90	50	5	0	3	0
	NORFOLK	94	70	101	59	82	7	0.19	-0.42	0.11	7.68	107	11.83	71	92	44	5	0	2	0
PA	NORTH PLATTE	96	64	102	59	80	4	0.11	-0.66	0.10	5.68	87	15.30	108	92	38	7	0	2	0
	OMAHA	92	72	102	66	82	4	0.31	-0.47	0.31	7.20	92	14.46	75	92	51	3	0	1	0
	SCOTTSBLUFF	97	60	99	58	78	2	0.19	-0.15	0.16	5.31	129	14.26	132	92	25	7	0	2	0
RI	VALENTINE	94	61	99	55	77	1	1.79	1.21	1.33	11.17	168	19.85	136	89	37	5	0	2	1
	CONCORD	87	61	91	55	74	3	0.87	0.02	0.76	7.50	105	21.54	94	100	48	1	0	2	1
	ATLANTIC_CITY	89	69	95	62	78	1	0.37	-0.66	0.26	5.30	68	20.84	81	93	50	2	0	2	0
TN	NEWARK	92	71	96	66	82	3	1.08	-0.04	0.89	8.83	101	26.61	98	82	42	5	0	4	1
	ALBUQUERQUE	100	73	102	68	86	7	0.00	-0.42	0.00	0.00	0	1.82	42	44	14	7	0	0	0
	ELY	92	55	94	48	73	3	0.00	-0.17	0.00	0.98	85	6.85	117	53	14	6	0	0	0
TX	LAS VEGAS	110	90	111	87	100	6	0.00	-0.09	0.00	0.20	51	1.65	67	23	10	7	0	0	0
	RENO	96	64	104	59	80	2	0.00	-0.06	0.00	0.63	107	8.74	187	36	8	7	0	0	0
	WINNEMUCCA	98	57	102	51	78	2	0.00	-0.04	0.00	0.33	51	5.00	107	34	6	7	0	0	0
VA	ALBANY	87	64	92	57	76	3	1.09	0.05	0.47	13.42	161	27.90	122	90	50	1	0	3	0
	BINGHAMTON	81	63	85	56	72	3	1.86	0.99	1.66	10.88	132	23.64	99	93	58	0	0	3	1
	BUFFALO	82	65	88	59	73	1	1.91	1.16	1.02	7.77	121	23.36	106	91	57	0	0	4	1
WI	ROCHESTER	82	62	89	57	72	0	2.65	1.83	0.81	9.17	136	22.50	114	98	60	0	0	6	2
	SYRACUSE	86	64	91	59	75	3	2.90												

Weather Data for the Week Ending July 29, 2023

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN, SINCE JUN 1	PCT. NORMAL SINCE JUN 1	TOTAL IN, SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	TEMP. °F		PRECIP.	
																	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
OK	YOUNGSTOWN	84	61	88	54	73	1	1.23	0.28	0.47	7.87	99	23.25	96	95	55	0	0	3	0
	OKLAHOMA CITY	97	70	100	64	84	1	0.00	-0.75	0.00	10.33	131	24.65	111	82	35	7	0	0	0
	TULSA	98	78	101	71	88	4	0.00	-0.73	0.00	8.19	99	22.18	90	71	37	7	0	0	0
OR	ASTORIA	70	55	72	50	62	1	0.17	0.02	0.17	1.08	35	29.65	78	93	59	0	0	1	0
	BURNS	92	51	96	43	71	1	0.00	-0.06	0.00	1.23	122	9.30	144	61	17	4	0	0	0
	EUGENE	86	54	92	51	70	1	0.01	-0.03	0.01	0.15	10	14.28	63	86	31	1	0	1	0
PA	MEDFORD	91	63	96	61	77	1	0.00	-0.05	0.00	0.44	47	5.69	55	63	19	5	0	0	0
	PENDLETON	89	59	95	53	74	-1	0.00	-0.05	0.00	0.09	6	4.39	54	49	19	4	0	0	0
	PORTLAND	83	61	88	59	72	0	0.00	-0.08	0.00	1.22	57	17.11	84	74	32	0	0	0	0
	SALEM	83	56	88	53	70	-1	0.00	-0.04	0.00	0.25	17	17.21	79	84	30	0	0	0	0
	ALLENTOWN	87	64	90	59	76	0	1.11	-0.09	0.72	10.19	109	24.16	91	93	51	1	0	3	1
	ERIE	82	65	88	61	73	0	1.52	0.76	0.87	9.89	145	27.66	121	91	59	0	0	4	1
	MIDDLETOWN	89	69	95	65	79	2	0.19	-0.91	0.12	9.30	110	20.93	83	89	50	4	0	3	0
	PHILADELPHIA	90	70	94	68	80	1	0.78	-0.31	0.31	9.41	115	21.39	86	90	45	3	0	3	0
	PITTSBURGH	86	66	91	60	76	3	0.56	-0.37	0.47	8.19	100	19.40	80	90	46	1	0	4	0
	WILKES-BARRE	85	64	89	60	74	1	1.24	0.36	0.58	9.26	129	20.37	96	96	56	0	0	4	1
RI	WILLIAMSPORT	86	64	93	61	75	2	1.53	0.40	0.86	13.16	161	22.19	92	94	52	2	0	5	1
	PROVIDENCE	86	66	89	64	76	1	0.88	0.18	0.66	11.84	182	33.45	126	98	57	0	0	3	1
	CHARLESTON	91	75	93	73	83	0	5.43	3.93	3.68	15.17	122	29.54	102	92	56	6	0	4	3
SC	COLUMBIA	91	73	95	72	82	0	0.06	-1.23	0.04	11.67	117	35.62	133	96	52	6	0	2	0
	FLORENCE	91	72	94	70	82	-1	0.25	-1.05	0.20	6.49	64	24.63	94	95	51	5	0	2	0
	GREENVILLE	92	69	95	66	80	0	1.06	-0.11	0.94	8.70	104	37.90	131	90	46	5	0	2	1
SD	ABERDEEN	91	62	101	57	77	4	0.06	-0.51	0.06	4.76	71	10.19	73	91	41	5	0	1	0
	HURON	93	65	100	58	79	5	0.00	-0.67	0.00	5.70	87	8.95	61	92	40	4	0	0	0
	RAPID CITY	94	60	99	57	77	3	0.07	-0.44	0.07	5.32	106	15.83	129	79	29	5	0	1	0
TN	SIOUX FALLS	95	67	104	58	81	7	0.00	-0.76	0.00	2.50	34	9.10	53	86	40	6	0	0	0
	BRISTOL	91	65	95	61	78	3	0.09	-1.08	0.09	5.92	68	25.08	90	93	43	4	0	1	0
	CHATTANOOGA	94	72	98	67	83	2	0.00	-1.08	0.00	9.06	101	30.65	92	88	41	6	0	0	0
TX	KNOXVILLE	91	70	94	66	80	2	0.46	-0.63	0.28	10.84	117	30.59	94	93	50	4	0	2	0
	MEMPHIS	92	75	95	68	83	0	0.05	-1.07	0.05	13.58	159	42.69	125	85	51	6	0	1	0
	NASHVILLE	94	72	98	67	83	2	1.14	0.28	1.09	9.30	112	26.75	86	88	44	6	0	4	1
	ABILENE	102	76	104	71	89	3	0.00	-0.35	0.00	5.83	111	15.27	106	57	20	7	0	0	0
	AMARILLO	101	73	103	70	87	7	0.00	-0.63	0.00	4.94	90	13.88	118	52	19	7	0	0	0
	AUSTIN	104	77	106	75	91	4	0.00	-0.38	0.00	1.09	19	13.15	64	83	24	7	0	0	0
	BEAUMONT	98	74	98	73	86	2	0.00	-1.42	0.00	5.25	39	26.56	78	97	41	7	0	0	0
	BROWNSVILLE	99	79	99	76	89	2	0.01	-0.33	0.01	1.61	34	12.61	105	92	44	7	0	1	0
	CORPUS CHRISTI	99	76	102	73	87	2	0.02	-0.35	0.02	1.18	19	13.55	82	96	43	7	0	1	0
	DEL RIO	104	81	107	79	92	5	0.00	-0.32	0.00	1.74	46	9.96	93	62	21	7	0	0	0
UT	EL PASO	104	77	108	74	91	7	0.00	-0.39	0.00	0.32	14	1.08	28	35	12	7	0	0	0
	FORT WORTH	102	79	104	73	90	3	0.00	-0.31	0.00	1.22	21	13.89	62	65	26	7	0	0	0
	GALVESTON	91	81	92	77	86	0	0.17	-0.43	0.09	3.77	50	15.34	69	86	61	7	0	3	0
	HOUSTON	98	75	100	74	87	1	0.00	-0.72	0.00	5.52	57	29.13	101	95	40	7	0	0	0
	LUBBOCK	100	74	103	72	87	5	0.01	-0.31	0.01	2.80	63	8.91	81	50	18	7	0	1	0
	MIDLAND	99	74	102	72	87	2	0.00	-0.37	0.00	0.39	11	1.76	23	52	19	7	0	0	0
	SAN ANGELO	103	74	105	70	88	3	0.00	-0.22	0.00	2.48	74	8.84	77	64	19	7	0	0	0
	SAN ANTONIO	100	77	101	74	89	3	0.04	-0.30	0.04	1.04	18	12.67	68	81	28	7	0	1	0
	VICTORIA	100	75	102	73	88	3	0.28	-0.35	0.16	1.46	19	17.71	75	98	41	7	0	2	0
	WACO	101	75	103	67	88	2	0.00	-0.37	0.00	0.40	7	15.59	72	76	24	7	0	0	0
VA	WICHITA FALLS	106	73	109	66	90	4	0.00	-0.39	0.00	3.20	61	14.40	89	65	21	7	0	0	0
	SALT LAKE CITY	101	75	104	69	88	5	0.03	-0.09	0.03	0.44	31	9.98	101	51	16	7	0	1	0
	LYNCHBURG	91	67	95	64	79	3	0.08	-0.92	0.07	14.88	192	29.29	116	97	50	4	0	2	0
VT	NORFOLK	91	74	96	71	82	1	2.43	0.81	1.65	15.75	157	28.96	106	94	60	3	0	2	2
	RICHMOND	93	71	98	65	82	3	2.28	1.27	1.49	9.22	106	23.58	91	88	48	5	0	2	2
	ROANOKE	91	68	96	65	80	2	0.35	-0.58	0.25	8.63	99	22.04	84	88	47	4	0	3	0
WV	WASH/DULLES	94	69	98	61	81	4	0.36	-0.52	0.25	7.26	88	17.18	67	94	44	5	0	3	0
	BURLINGTON	84	64	91	58	74	1	1.22	0.38	0.72	9.69	120	21.84	103	90	51	1	0	3	1
	OLYMPIA	77	50	82	46	64	-2	0.03	-0.07	0.03	0.83	42	17.79	67	98	43	0	0	1	0
WI	QUILLAYUTE	70	54	73	50	62	2	1.26	0.91	1.04	2.00	41	39.61	73	87	60	0	0	2	1
	SEATTLE-TACOMA	77	57	84	56	67	-1	0.09	-0.02	0.09	1.28	63	13.86	66	82	38	0	0	1	0
	SPOKANE	87	61	95	53	74	0	0.00	-0.07	0.00	0.99	62	6.45	67	49	16	2	0	0	0
WY	YAKIMA	89	56	96	48	72	-2	0.01	-0.03	0.01	0.29	41	3.80	82	71	18	2	0	1	0
	EAU CLAIRE	87	62	93	57	75	3	1.90	1.09	1.20	6.13	74	16.64	86	96	50	2	0	4	1
	GREEN BAY	86	62	90	59	74	3	1.01	0.22	0.69	6.56	87	16.87	91	93	54	1	0	3	1
WY	LA CROSSE	89	65	93	59	77	2	1.07	0.18	1.05	5.93	65	15.65	72	94	49	2	0	2	1
	MADISON	87	64	91	59	76	4	1.81	0.87	1.54	7.31	76	18.77	82	94	49	2	0	3	1
	MILWAUKEE	86	68	91	64	77	3	1.38	0.65	1.31	6.11	80	19.43	94	85	51	2	0	2	1
WY	BECKLEY	85	64	88	58	74	3	0.20	-0.97	0.10	8.07	90	24.78	90	92	49	0	0	2	0
	CHARLESTON	89	65	92	58	77	2	0.10	-1.12	0.08	6.10	62	22.28	76	100	46	4	0		

National Agricultural Summary

July 24 – 30, 2023

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Much of the nation's mid-section and West experienced dry weather, while parts of the Great Lakes, Midwest, Northeast, and Southeast recorded at least twice the normal amount of weekly precipitation. Farther west, parts of the central and northern Plains, Rockies, and coastal Washington also recorded twice the normal amount of rain. Parts of Florida's east coast and

some as locations in eastern Minnesota recorded rainfall totaling 4 inches or more. Meanwhile, most of the nation was warmer than normal. Some locations in Maine and parts of the Midwest, Great Plains, Rockies, and Southwest recorded temperature is 6°F or more above normal. In contrast, much of the Pacific Northwest was cooler than normal.

Corn: By July 30, eighty-four percent of the nation's corn acreage had reached the silking stage, 7 percentage points ahead of last year and 2 points ahead of the 5-year average. By July 30, twenty-nine percent of the corn acreage was at or beyond the dough stage, 5 percentage points ahead of last year but equal to the average. On July 30, fifty-five percent of the nation's corn was rated in good to excellent condition, 2 percentage points below the previous week and 6 points below the previous year. In Iowa, the largest corn-producing state, 59 percent of the corn was rated in good to excellent condition.

Soybean: By July 30, eighty-three percent of the nation's soybean acreage had reached the blooming stage, 6 percentage points ahead of last year and 5 points ahead of the 5-year average. Nationally, 50 percent of the soybean acreage had begun setting pods, 9 percentage points ahead of last year and 3 points ahead of average. On July 30, fifty-two percent of the soybean acreage was rated in good to excellent condition, 2 percentage points below the previous week and 8 points below the previous year.

Winter Wheat: Eighty percent of the 2023 winter wheat acreage had been harvested by July 30, one percentage point behind last year and 3 points behind the 5-year average. During the week, winter wheat harvest advanced 25 percentage points or more in Colorado, Nebraska, Oregon, and South Dakota.

Cotton: Eighty-six percent of the nation's cotton acreage had reached the squaring stage by July 30, two percentage points behind last year and 1 point behind the 5-year average. By July 30, forty-seven percent of the cotton acreage had begun setting bolls, 10 percentage points behind last year and 3 points behind average. On July 30, forty-one percent of the 2023 cotton acreage was rated in good to excellent condition, 5 percentage points below the previous week but 3 points above the previous year.

Sorghum: By July 30, forty-five percent of the nation's sorghum acreage had reached the headed stage, 3 percentage points ahead of last year but 2 points behind the 5-year average. Twenty-three percent of the sorghum acreage was at or beyond the coloring stage by July 30, two percentage points ahead of last year and 1 point ahead of average. Fifty-five percent of the nation's sorghum was rated in good to excellent condition on July 30, five percentage points below the previous week but 27 points above the previous year.

Rice: By July 30, sixty-two percent of the nation's rice acreage had reached the headed stage, 10 percentage points ahead of the previous year and 8 points ahead of the 5-year average. On July 30, seventy-one percent of the rice acreage was rated in good to excellent condition, 5 percentage points below the previous week and 2 points below the same time last year.

Small Grains: Thirty-five percent of the nation's oat acreage had been harvested by July 30, four percentage points ahead of last year but 1 point behind the 5-year average. During the week, oat harvest progress advanced 20 percentage points or more in Nebraska, Ohio, and South Dakota. On July 30, forty-three percent of the oat acreage was rated in good to excellent condition, 2 percentage points below the previous week and 12 points below the same time last year.

Ninety-seven percent of the nation's barley acreage had reached the headed stage by July 30, equal to both last year and the 5-year average. By July 30, producers had harvested 5 percent of the nation's barley crop, equal to both last year and the 5-year average. On July 30, fifty percent of the barley acreage was rated in good to excellent condition, 2 percentage points below the previous week and 5 points below the same time last year.

By July 30, ninety-seven percent of the nation's spring wheat crop had reached the headed stage, 2 percentage points ahead of the previous year but 1 point behind the 5-year average. By July 30, two percent of the spring wheat had been harvested, 1 percentage point behind the previous year and 3 points behind average. On July 30, forty-two percent of the spring wheat was rated in good to excellent condition, 7 percentage points below the previous week and 28 points below the same time last year.

Other Crops: By July 30, eighty-eight percent of the nation's peanut crop had reached the pegging stage, equal to the previous year but 1 percentage point ahead of the 5-year average. In Georgia, the largest peanut-producing state, 92 percent of the crop had reached the pegging stage, 3 percentage points behind both the previous year and the 5-year average. On July 30, seventy-five percent of the nation's peanut acreage was rated in good to excellent condition, 3 percentage points above the previous week and 4 points above the same time last year.

Crop Progress and Condition**Week Ending July 30, 2023**

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

Corn Percent Silking				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
CO	49	30	53	68
IL	90	88	95	88
IN	83	64	81	80
IA	84	79	92	87
KS	72	68	82	82
KY	86	73	84	87
MI	70	28	55	66
MN	71	72	91	83
MO	91	90	94	90
NE	82	77	90	87
NC	91	89	92	96
ND	55	45	73	65
OH	74	29	64	72
PA	49	11	40	60
SD	71	63	84	73
TN	95	91	95	94
TX	89	85	89	91
WI	53	25	60	64
18 Sts	77	68	84	82
These 18 States planted 92% of last year's corn acreage.				

Corn Percent Dough				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
CO	13	0	2	10
IL	29	18	35	38
IN	23	11	24	25
IA	27	19	37	29
KS	28	24	39	39
KY	38	26	36	38
MI	20	2	12	11
MN	12	18	39	19
MO	49	39	56	49
NE	19	10	21	29
NC	68	46	59	74
ND	6	2	4	6
OH	21	0	3	18
PA	7	0	1	7
SD	10	7	19	19
TN	64	52	72	65
TX	69	68	73	71
WI	6	0	5	10
18 Sts	24	16	29	29
These 18 States planted 92% of last year's corn acreage.				

Corn Condition by Percent					
	VP	P	F	G	EX
CO	5	4	21	55	15
IL	7	12	32	42	7
IN	3	9	25	55	8
IA	3	8	30	51	8
KS	6	12	32	40	10
KY	1	4	25	56	14
MI	1	8	47	35	9
MN	4	13	36	40	7
MO	19	25	31	24	1
NE	6	12	25	41	16
NC	0	2	20	67	11
ND	2	7	34	54	3
OH	1	4	26	55	14
PA	0	0	21	55	24
SD	3	10	36	42	9
TN	0	6	19	58	17
TX	3	7	29	50	11
WI	3	11	31	45	10
18 Sts	5	10	30	45	10
Prev Wk	4	9	30	46	11
Prev Yr	5	9	25	48	13

Soybeans Percent Blooming				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
AR	93	93	95	91
IL	73	77	89	76
IN	75	59	75	74
IA	81	81	93	84
KS	63	59	76	67
KY	67	50	57	64
LA	98	96	99	98
MI	82	49	66	75
MN	79	78	88	86
MS	96	93	96	91
MO	61	68	79	62
NE	82	75	86	85
NC	75	58	68	60
ND	83	72	87	83
OH	80	46	72	75
SD	70	62	78	74
TN	78	73	76	75
WI	75	57	74	76
18 Sts	77	70	83	78
These 18 States planted 95% of last year's soybean acreage.				

Soybeans Percent Setting Pods				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
AR	75	73	82	74
IL	35	38	59	46
IN	39	20	40	42
IA	49	35	57	52
KS	23	24	38	34
KY	44	29	39	41
LA	92	86	88	89
MI	48	13	34	45
MN	33	43	60	52
MS	85	78	85	76
MO	27	31	45	29
NE	47	33	50	52
NC	49	35	45	36
ND	34	33	43	46
OH	43	17	28	41
SD	39	28	45	42
TN	46	43	55	47
WI	39	16	24	43
18 Sts	41	35	50	47
These 18 States planted 95% of last year's soybean acreage.				

Soybean Condition by Percent					
	VP	P	F	G	EX
AR	2	6	23	53	16
IL	8	12	34	39	7
IN	3	8	24	57	8
IA	3	8	34	48	7
KS	7	13	31	41	8
KY	2	4	24	58	12
LA	2	5	26	57	10
MI	1	11	45	37	6
MN	3	10	39	42	6
MS	1	4	23	57	15
MO	13	21	38	25	3
NE	8	12	26	40	14
NC	0	2	25	70	3
ND	4	12	40	42	2
OH	1	5	31	53	10
SD	2	9	38	45	6
TN	0	4	20	60	16
WI	3	14	32	41	10
18 Sts	5	10	33	44	8
Prev Wk	4	10	32	46	8
Prev Yr	3	8	29	49	11

Crop Progress and Condition

Week Ending July 30, 2023

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

Cotton Percent Squaring				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
AL	93	92	95	92
AZ	100	99	100	99
AR	99	95	98	99
CA	89	85	90	88
GA	93	88	93	94
KS	98	88	90	86
LA	99	92	96	99
MS	93	85	91	91
MO	89	95	97	87
NC	84	82	91	90
OK	83	79	84	79
SC	93	79	93	87
TN	94	89	93	91
TX	84	70	80	84
VA	100	84	96	92
15 Sts	88	78	86	87
These 15 States planted 99% of last year's cotton acreage.				

Cotton Percent Setting Bolls				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
AL	77	60	71	70
AZ	85	60	78	84
AR	87	71	76	91
CA	43	25	35	53
GA	63	45	57	66
KS	58	36	53	31
LA	88	63	76	86
MS	71	51	70	68
MO	63	25	55	57
NC	49	25	43	59
OK	29	25	55	30
SC	69	41	55	56
TN	64	43	64	58
TX	50	30	35	41
VA	70	35	54	54
15 Sts	57	37	47	50
These 15 States planted 99% of last year's cotton acreage.				

Cotton Condition by Percent					
	VP	P	F	G	EX
AL	0	1	17	70	12
AZ	1	1	5	41	52
AR	2	5	15	52	26
CA	0	0	5	95	0
GA	0	5	24	61	10
KS	1	4	34	42	19
LA	0	3	18	71	8
MS	0	7	26	60	7
MO	0	3	27	66	4
NC	0	8	32	59	1
OK	5	18	20	56	1
SC	1	3	38	51	7
TN	0	2	21	63	14
TX	22	28	33	14	3
VA	0	0	3	94	3
15 Sts	13	18	28	35	6
Prev Wk	8	16	30	39	7
Prev Yr	15	13	34	32	6

Sorghum Percent Headed				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
CO	25	9	26	31
KS	20	20	27	30
NE	30	13	34	43
OK	41	16	26	36
SD	43	49	75	42
TX	86	80	85	83
6 Sts	42	36	45	47
These 6 States planted 100% of last year's sorghum acreage.				

Sorghum Percent Coloring				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
CO	3	0	0	1
KS	1	6	7	2
NE	2	0	1	2
OK	10	6	8	11
SD	2	1	9	1
TX	66	62	67	68
6 Sts	21	21	23	22
These 6 States planted 100% of last year's sorghum acreage.				

Sorghum Condition by Percent					
	VP	P	F	G	EX
CO	0	7	15	62	16
KS	3	10	33	44	10
NE	1	6	31	55	7
OK	0	7	23	57	13
SD	3	8	35	52	2
TX	14	11	27	33	15
6 Sts	6	10	29	43	12
Prev Wk	3	7	30	45	15
Prev Yr	13	19	40	26	2

Peanuts Percent Pegging				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
AL	84	72	89	89
FL	97	94	98	92
GA	95	87	92	95
NC	87	80	89	87
OK	59	52	57	57
SC	90	90	93	87
TX	55	45	60	55
VA	93	70	74	82
8 Sts	88	80	88	87
These 8 States planted 96% of last year's peanut acreage.				

Peanut Condition by Percent					
	VP	P	F	G	EX
AL	0	0	19	62	19
FL	0	1	12	78	9
GA	0	4	20	66	10
NC	0	3	21	76	0
OK	0	0	2	98	0
SC	0	1	21	73	5
TX	1	8	48	40	3
VA	0	0	5	90	5
8 Sts	0	3	22	66	9
Prev Wk	1	3	24	64	8
Prev Yr	1	4	24	61	10

Crop Progress and Condition**Week Ending July 30, 2023**

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

Spring Wheat Percent Headed				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
ID	99	98	100	98
MN	99	97	100	100
MT	96	94	95	95
ND	93	92	97	97
SD	98	100	100	99
WA	98	100	100	100
6 Sts	95	94	97	98
These 6 States planted 100% of last year's spring wheat acreage.				

Spring Wheat Percent Harvested				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
ID	4	1	3	4
MN	1	1	1	6
MT	4	NA	1	4
ND	0	NA	0	2
SD	24	9	21	26
WA	1	4	12	11
6 Sts	3	NA	2	5
These 6 States harvested 100% of last year's spring wheat acreage.				

Spring Wheat Condition by Percent					
	VP	P	F	G	EX
ID	0	7	30	59	4
MN	1	7	38	53	1
MT	0	12	53	31	4
ND	5	13	38	42	2
SD	11	19	42	26	2
WA	2	28	34	34	2
6 Sts	3	13	42	40	2
Prev Wk	4	12	35	45	4
Prev Yr	1	6	23	60	10

Barley Percent Headed				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
ID	99	97	100	98
MN	97	95	98	99
MT	98	85	95	97
ND	95	96	98	97
WA	100	100	100	100
5 Sts	97	92	97	97
These 5 States planted 84% of last year's barley acreage.				

Barley Percent Harvested				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
ID	6	1	3	6
MN	4	6	9	10
MT	9	5	8	5
ND	0	NA	0	2
WA	2	5	12	10
5 Sts	5	NA	5	5
These 5 States harvested 89% of last year's barley acreage.				

Barley Condition by Percent					
	VP	P	F	G	EX
ID	0	2	20	74	4
MN	2	7	34	51	6
MT	0	5	60	25	10
ND	4	11	37	46	2
WA	1	12	42	45	0
5 Sts	1	6	43	44	6
Prev Wk	2	8	38	45	7
Prev Yr	3	11	31	46	9

Winter Wheat Percent Harvested				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
AR	100	100	100	100
CA	100	80	85	98
CO	97	48	81	95
ID	12	12	21	22
IL	99	97	99	99
IN	100	96	99	99
KS	100	87	95	99
MI	83	47	62	80
MO	100	100	100	100
MT	30	2	21	24
NE	91	43	72	86
NC	100	99	100	100
OH	99	96	100	98
OK	100	100	100	100
OR	33	44	74	51
SD	75	46	74	70
TX	100	100	100	100
WA	9	20	36	32
18 Sts	81	68	80	83
These 18 States harvested 90% of last year's winter wheat acreage.				

Rice Percent Headed				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
AR	33	38	60	46
CA	57	20	25	39
LA	90	83	89	88
MS	76	64	73	71
MO	30	39	54	36
TX	88	80	88	90
6 Sts	52	47	62	54
These 6 States planted 100% of last year's rice acreage.				

Rice Condition by Percent					
	VP	P	F	G	EX
AR	1	7	25	49	18
CA	0	0	10	75	15
LA	1	0	38	52	9
MS	0	3	28	56	13
MO	0	0	24	66	10
TX	0	5	16	69	10
6 Sts	1	4	24	56	15
Prev Wk	1	3	20	57	19
Prev Yr	1	3	23	54	19

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

NA - Not Available
* Revised

Crop Progress and Condition

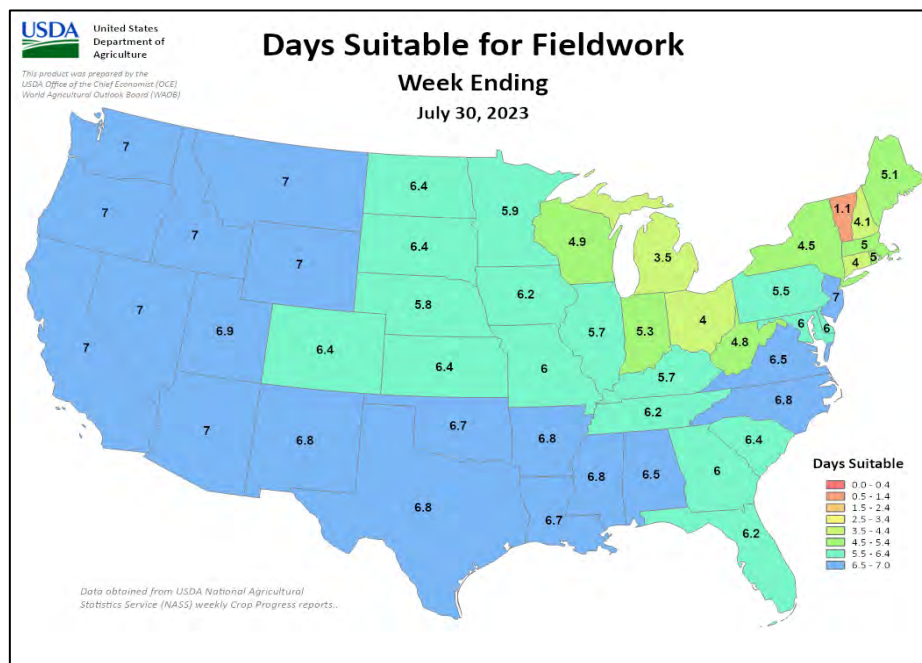
Week Ending July 30, 2023

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

Oats Percent Harvested				
	Prev Year	Prev Week	Jul 30 2023	5-Yr Avg
IA	60	36	55	62
MN	15	18	35	22
NE	79	39	59	80
ND	0	0	0	3
OH	43	30	88	66
PA	13	5	20	21
SD	45	22	47	46
TX	100	100	100	100
WI	15	10	19	19
9 Sts	31	21	35	36
These 9 States harvested 72% of last year's oat acreage.				

Oat Condition by Percent					
	VP	P	F	G	EX
IA	2	7	36	49	6
MN	7	17	42	29	5
NE	4	14	32	42	8
ND	4	10	39	45	2
OH	0	1	22	73	4
PA	0	6	36	52	6
SD	5	15	31	42	7
TX	19	8	45	26	2
WI	2	11	43	40	4
9 Sts	7	11	39	39	4
Prev Wk	7	9	39	41	4
Prev Yr	12	11	22	47	8

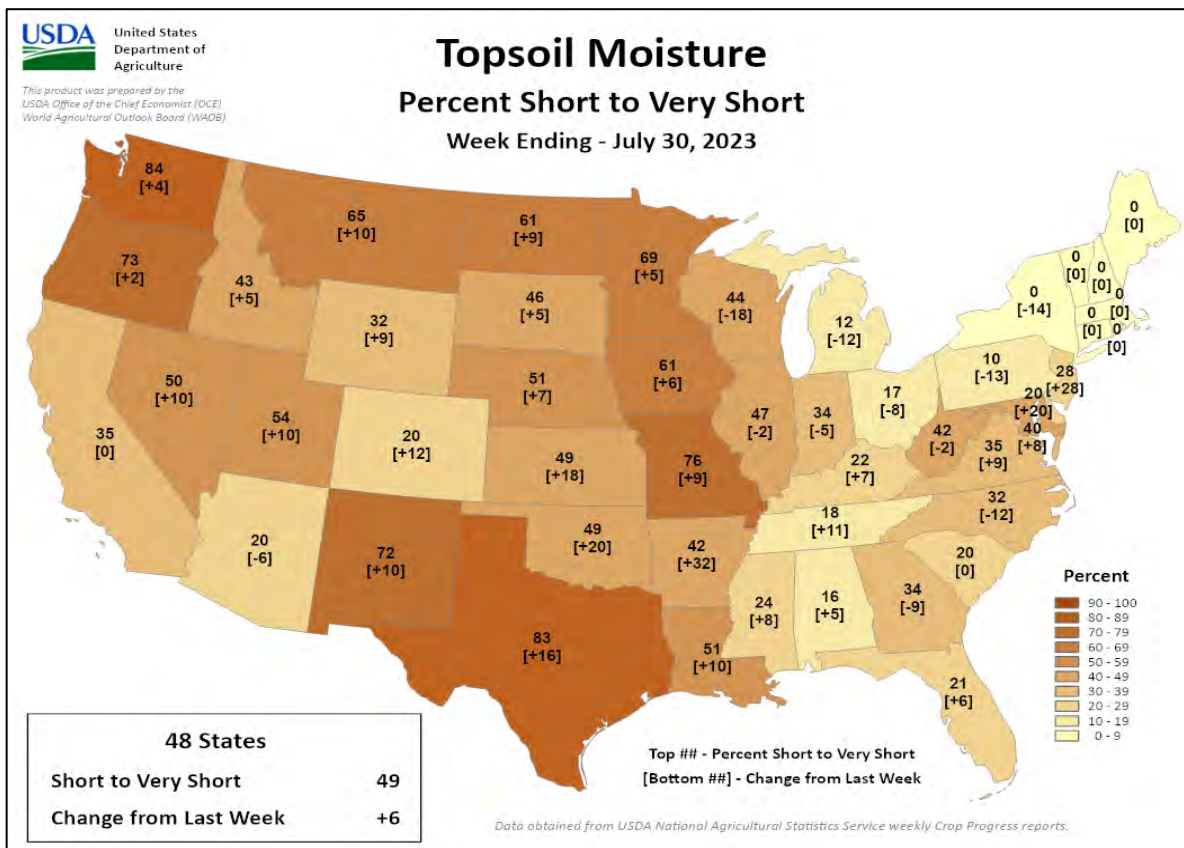
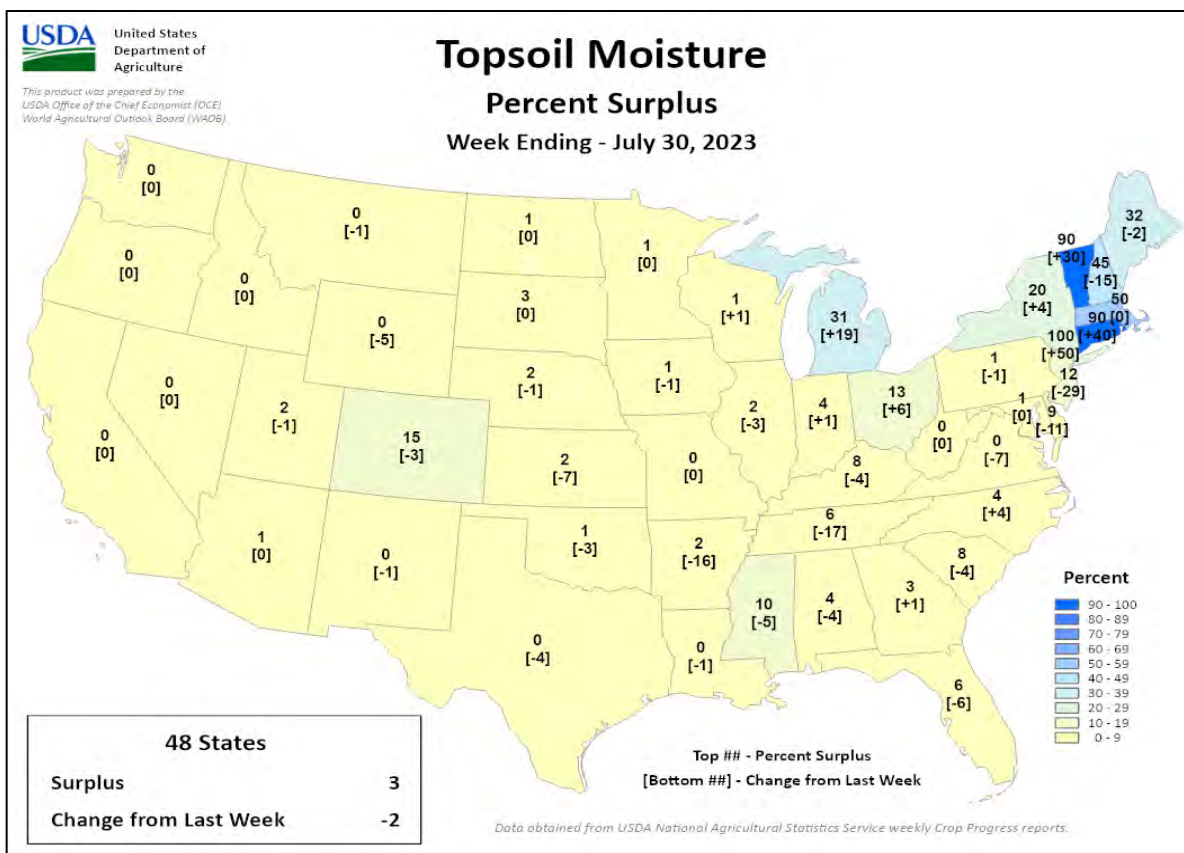
Pasture and Range Condition by Percent												
Week Ending Jul 30, 2023												
	VP	P	F	G	EX		VP	P	F	G	EX	
AL	1	1	22	69	7		NH	0	18	32	38	12
AZ	17	21	39	19	4		NJ	0	0	27	44	29
AR	1	7	41	43	8		NM	13	21	45	10	11
CA	5	10	20	30	35		NY	2	3	18	59	18
CO	8	11	22	40	19		NC	2	5	22	68	3
CT	0	0	30	70	0		ND	3	15	31	50	1
DE	1	13	35	41	10		OH	2	8	29	57	4
FL	3	5	26	40	26		OK	4	11	27	52	6
GA	2	9	35	47	7		OR	3	18	58	15	6
ID	1	11	35	34	19		PA	0	11	31	49	9
IL	17	24	37	21	1		RI	0	0	27	70	3
IN	4	9	36	45	6		SC	5	10	35	48	2
IA	10	18	49	20	3		SD	7	11	29	44	9
KS	9	21	38	27	5		TN	2	6	23	58	11
KY	2	7	25	59	7		TX	30	28	26	14	2
LA	11	16	29	37	7		UT	0	1	33	54	12
ME	0	0	40	45	15		VT	0	0	25	75	0
MD	13	12	42	30	3		VA	7	16	39	36	2
MA	0	0	20	80	0		WA	2	35	43	20	0
MI	3	17	47	27	6		WV	2	8	27	57	6
MN	12	32	39	15	2		WI	8	21	41	28	2
MS	3	6	38	47	6		WY	0	0	15	79	6
MO	37	34	23	6	0		48 Sts	12	17	32	31	8
MT	2	17	42	32	7							
NE	5	10	31	39	15		Prev Wk	9	15	32	35	9
NV	15	20	40	20	5		Prev Yr	27	22	26	22	3



Crop Progress and Condition

Week Ending July 30, 2023

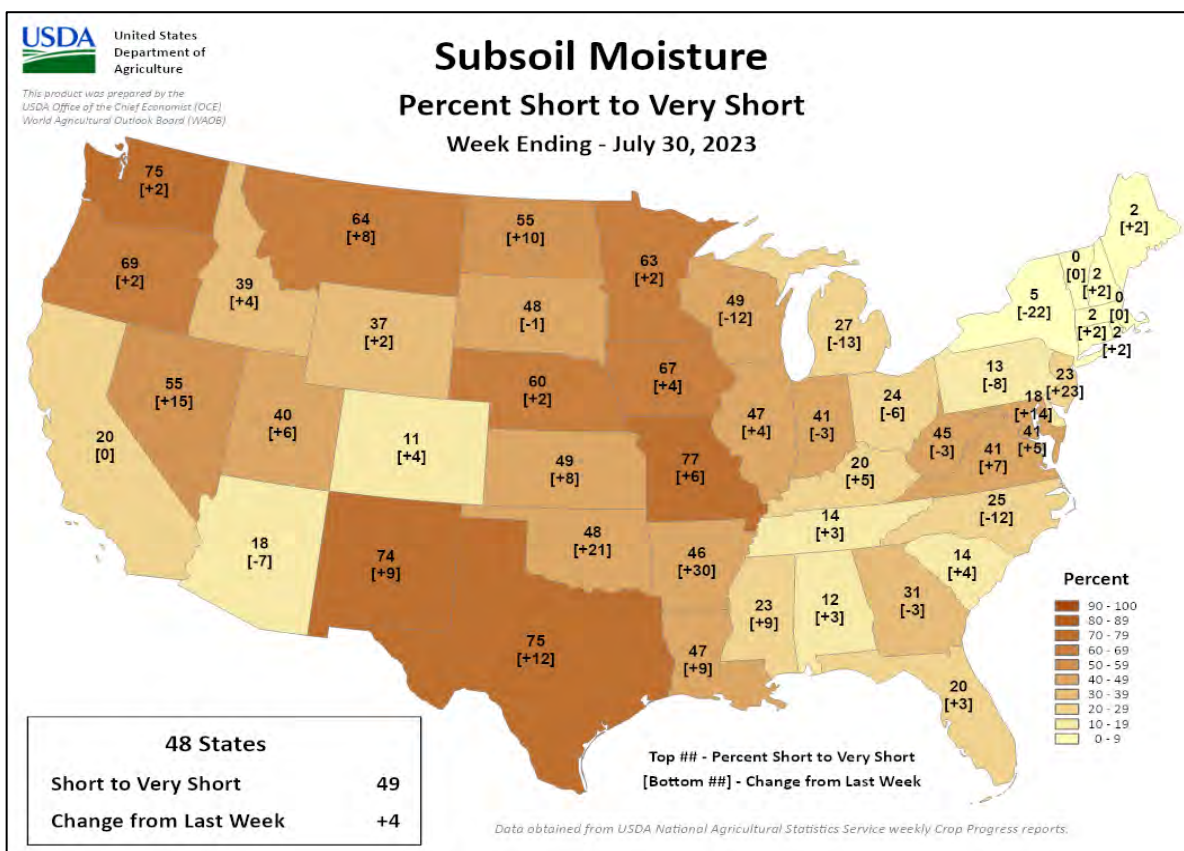
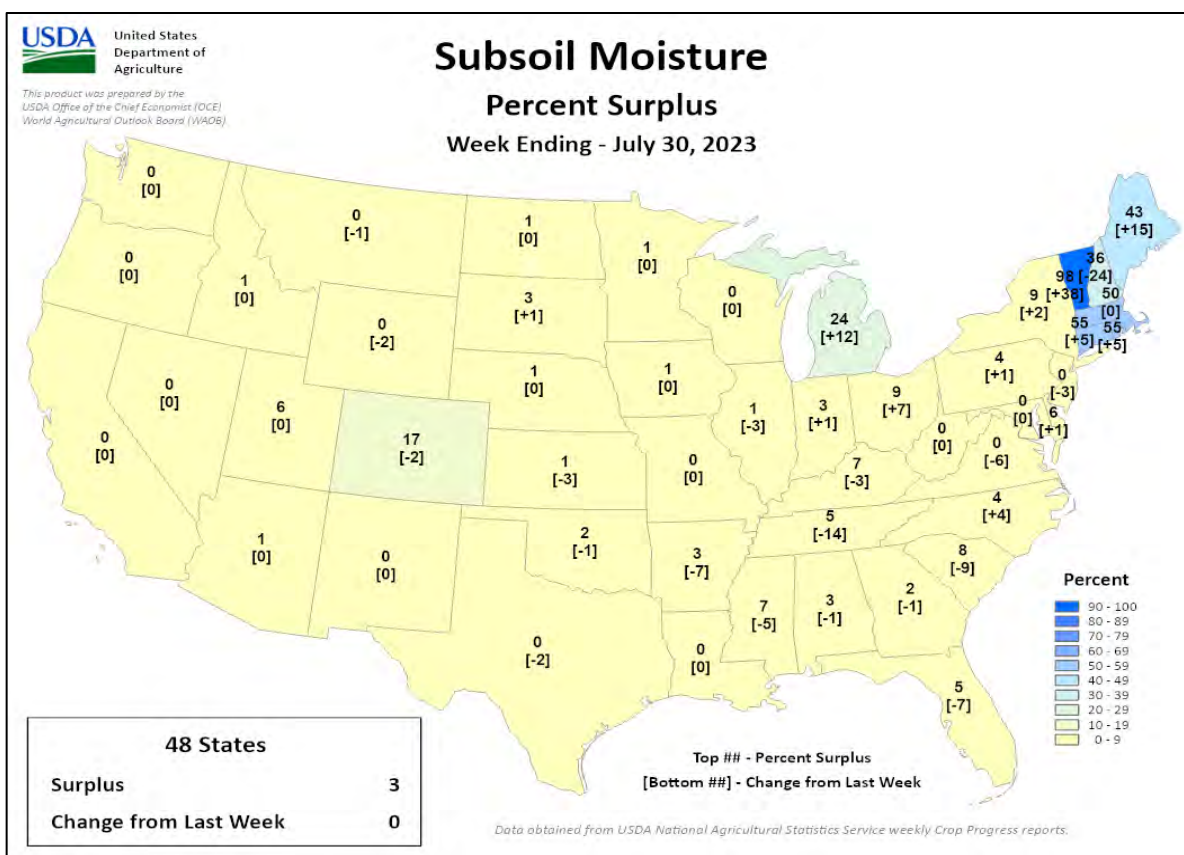
Weekly U.S. Progress and Condition Data provided by USDA/NASS



Crop Progress and Condition

Week Ending July 30, 2023

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



International Weather and Crop Summary

July 23-29, 2023

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

EUROPE: The southern Europe heat wave abated by week's end, while widespread showers and thunderstorms boosted soil moisture supplies over much of central and northern Europe.

WESTERN FSU: Widespread showers and cool temperatures sustained good to excellent conditions for reproductive summer crops.

EASTERN FSU: Warmer-than-normal weather — albeit not as hot as earlier in July — returned with widespread showers in the spring grain belt, while seasonably dry but very hot conditions hastened cotton development in the south.

MIDDLE EAST: Seasonably sunny conditions favored summer crop development in Turkey, though lingering excessive heat stressed summer crops in the west.

SOUTH ASIA: Widespread monsoon showers benefited most kharif crops in India, although more rain is needed in drier portions of the east.

EAST ASIA: Showers overspread summer crop areas of China, including previously dry sections of the south.

SOUTHEAST ASIA: Super Typhoon Doksuri weakened before passing over the northern Philippines, but flooding rainfall was recorded in some northwestern rice areas.

AUSTRALIA: Showers remained light and widely scattered, while above-normal temperatures increased net evaporative losses.

ARGENTINA: Showers benefited emerging wheat in southeastern Buenos Aires.

BRAZIL: Light rain overspread southern wheat areas.

MEXICO: Monsoon rain returned to northwestern watersheds.

CANADIAN PRAIRIES: Heat and dryness stressed spring grains on the southwestern Prairies.

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

July 2023

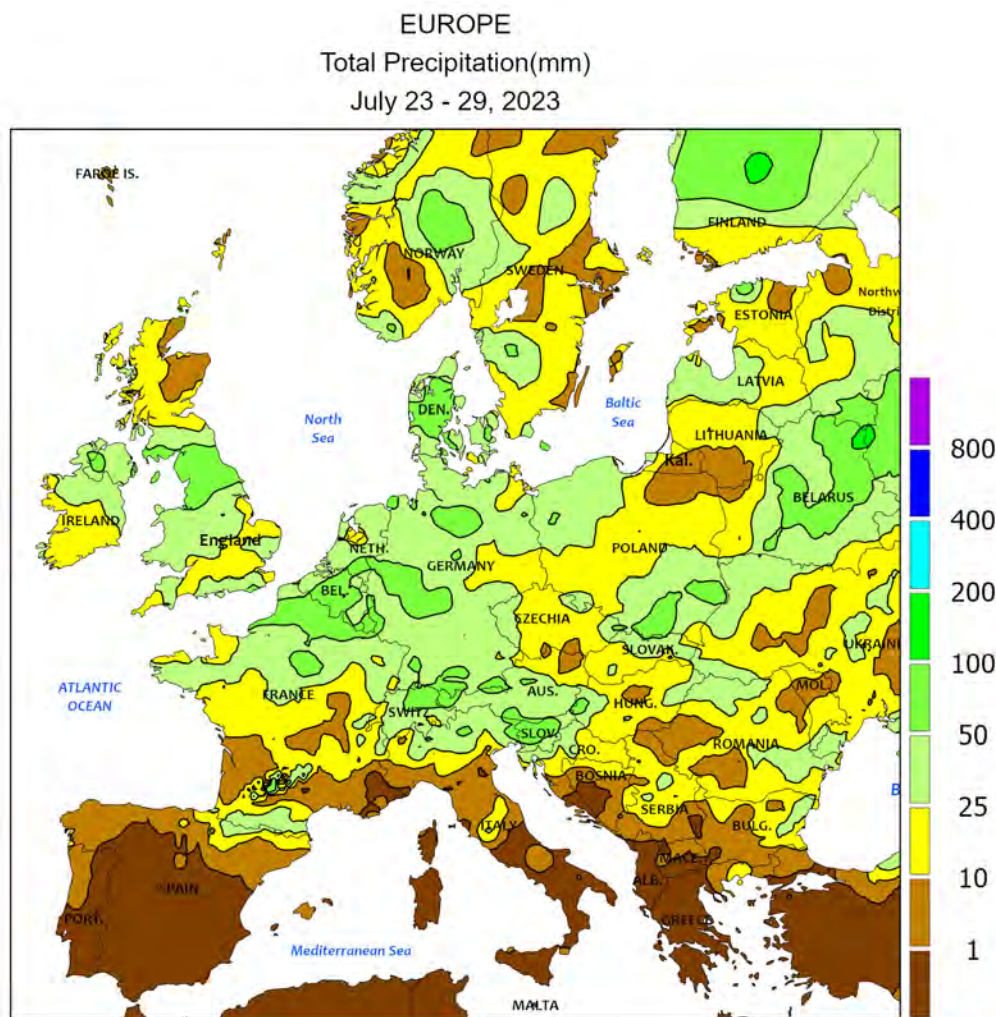
COUNTRY	CITY	TEMPERATURE (C)					PRECIP. (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM
ALGERI	ALGER	37	23	47	18	30	4.4	0	-2
	BATNA	41	21	44	16	31	3.9	1	-7
ARGENT	IGUAZU	24	14	30	0	19	1.9	155	49
	FORMOSA	24	14	33	3	19	2.5	12	-30
	CERES	20	10	32	0	15	2.7	13	5
	CORDOBA	19	6	32	-3	12	2.3	14	7
	RIO CUARTO	16	6	28	-1	11	1.7	14	-3
	ROSARIO	18	8	28	-1	13	2.3	23	0
	BUENOS AIRES	16	8	29	-3	12	2	56	-1
	SANTA ROSA	14	4	23	-3	9	0.6	32	10
AUSTRA	TRES ARROYOS	13	4	20	-5	8	0.5	51	8
	DARWIN	31	21	34	14	26	1.2	0	*****
	BRISBANE	21	11	24	5	16	0.9	30	-1
	PERTH	18	10	21	4	14	0.6	88	-50
	CEDUNA	18	6	26	-1	12	0.2	6	-26
	ADELAIDE	15	8	19	2	12	0.2	31	-22
	MELBOURNE	15	8	19	2	11	1.4	8	-24
	WAGGA	14	4	18	-2	9	0.7	19	-32
AUSTRI	CANBERRA	14	1	18	-6	7	1.2	6	-33
	VIENNA	30	17	36	12	23	2	43	-50
BAHAMA	INNSBRUCK	27	15	37	7	21	1.1	122	-9
	NASSAU	34	27	35	23	30	1.5	161	28
BARBAD	BRIDGETOWN	31	26	31	22	28	0.4	137	20
BELARU	MINSK	24	13	31	6	18	-0.5	149	52
BERMUD	ST GEORGES	29	25	31	21	27	0.8	129	16
BOLIVI	LA PAZ	16	-2	18	-8	7	1.7	0	-10
BRAZIL	FORTALEZA	31	25	32	22	28	0.9	9	-43
	RECIFE	28	23	29	22	26	0	160	-69
	CAMPO GRANDE	29	18	32	9	23	0.8	5	-30
	FRANCA	26	15	30	9	21	1.2	14	-8
	RIO DE JANEI	26	17	36	12	22	0.5	27	-7
	LONDRINA	***	***	***	***	***	*****	*****	*****
	SANTA MARIA	20	12	30	0	16	1.1	185	48
	SOFIA	30	16	38	8	23	1.5	12	-52
BULGAR	OUAGADOUGOU	34	24	38	0	29	0.6	205	*****
BURKIN	LETHBRIDGE	29	10	37	5	19	*****	17	*****
CANADA	REGINA	26	10	35	4	18	-0.3	23	-34
	WINNIPEG	25	15	33	11	20	-1.2	58	-15
	TORONTO	27	17	31	12	22	0.2	104	27
	MONTREAL	27	19	32	12	23	1.4	212	118
	PRINCE ALBER	23	9	28	3	16	-1.4	69	-9
	CALGARY	25	12	35	7	18	1.4	43	-22
	VANCOUVER	24	14	29	12	19	0.8	20	-10
	LAS PALMAS	29	23	34	22	26	1.8	9	*****
CANARY	SANTIAGO	17	5	24	1	11	2.1	21	*****
CHINA	HARBIN	27	20	32	17	24	0.1	378	236
	HAMI	37	21	44	13	29	1.9	0	-8
	BEIJING	34	24	41	20	29	1.4	368	198
	TIENTSIN	33	23	39	20	28	0.8	483	329
	LHASA	23	13	28	10	18	0.5	188	48
	KUNMING	26	19	30	17	22	2	195	-19
	CHENGCHOW	34	26	41	21	30	1.8	142	3
	YEHCHANG	33	24	37	20	29	1	201	-11
	HANKOW	34	26	37	22	30	1.1	154	-102
	CHUNGKING	34	26	39	20	30	0.4	481	307
	CHIHKIANG	34	25	37	24	30	1.6	40	-140
	WU HU	33	26	37	23	29	0.2	176	2
	SHANGHAI	33	27	39	24	30	1.2	285	138
	NANCHANG	34	28	38	25	31	1.1	185	9
	TAIPEI	34	28	37	26	31	0.5	96	-135
	CANTON	34	26	39	25	30	1.4	207	-36
	NANNING	34	26	37	24	30	1.4	115	-130
	BOGOTA	20	10	22	8	15	1.2	63	16
COLOMB	ABIDJAN	28	25	32	24	26	1	195	21
COTE D	CAMAGUEY	34	24	35	22	29	1.1	128	*****
CUBA	LARNACA	35	24	40	22	30	1.8	0	*****
CYPRUS	PRAGUE	27	13	36	9	20	1.5	66	-10
CZECHR	COPENHAGEN	22	14	27	11	18	-0.4	98	45
DENMAR	CAIRO	36	25	40	23	31	1.4	0	*****
EGYPT	ASWAN	43	28	46	24	36	0.8	0	*****

Based on Preliminary Reports

July 2023

COUNTRY CITY		TEMPERATURE							PRECIP.		COUNTRY CITY		TEMPERATURE							PRECIP.	
		(C)					(MM)		(C)					(MM)							
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM			AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM		
ESTONI	TALLINN	21	12	28	8	16	-1.2	211	129												
ETHIOP	ADDIS ABABA	***	***	23	11	***	*****	*****	*****	MOZAMB	MARRAKECH	39	22	47	18	31	1.6	1	*****		
F GUIA	CAYENNE	32	22	34	21	27	0.2	198	-65	N KORE	MAPUTO	25	14	31	10	20	-0.7	32	16		
FIJI	NAUSORI	26	20	29	16	23	-0.1	199	73		N KORE	PYONGYANG	31	23	34	21	27	1.9	494	195	
FINLAN	HELSINKI	22	11	25	6	16	-1.6	63	-1	NEW CA	NOUMEA	24	18	28	15	21	0.4	15	-48		
FRANCE	PARIS/ORLY	26	16	35	10	21	0.5	35	-16	NIGER	NIAMEY	36	26	40	22	31	1	184	*****		
	STRASBOURG	28	15	36	11	21	0.8	53	-19	NORWAY	OSLO	20	12	27	8	16	-1.1	179	98		
	BOURGES	27	16	33	10	21	0.2	29	-34	NZEALA	AUCKLAND	15	9	17	3	12	1.0	100	-30		
	BORDEAUX	28	17	34	13	22	0.6	14	-35		WELLINGTON	14	7	17	2	10	0.3	85	-25		
	TOULOUSE	30	18	38	15	24	1.3	14	-26	P RICO	SAN JUAN	32	27	34	24	29	0.8	101	-52		
	MARSEILLE	33	22	36	18	27	1.9	7	-5	PAKIST	KARACHI	35	29	38	0	32	1.3	40	*****		
GABON	LIBREVILLE	27	24	29	22	25	0.4	0	-11	PERU	LIMA	23	20	26	19	22	4.0	0	*****		
GERMAN	HAMBURG	22	14	32	10	18	-0.1	133	51	PHILIP	MANILA	32	26	36	23	29	0.6	693	255		
	BERLIN	26	15	36	10	20	0.2	73	2	PNEWGU	PORT MORESBY	29	24	31	20	26	0.2	15	-12		
	DUSSELDORF	24	15	34	11	20	0.4	105	32	POLAND	WARSAW	27	15	34	9	21	0.8	48	-34		
	LEIPZIG	27	15	36	11	21	1.3	42	-34		LODZ	26	13	32	7	20	0.3	54	-18		
	DRESDEN	26	15	35	11	21	1.3	52	-33		KATOWICE	26	14	32	8	20	0.8	77	-19		
	STUTTGART	***	***	27	12	***	*****	71	-21	PORTUG	LISBON	29	18	35	16	23	0.3	0	-4		
	NURNBERG	26	14	36	9	20	1.1	102	25	ROMANI	BUCHAREST	34	16	40	3	25	2.4	56	-12		
	AUGSBURG	26	13	34	8	19	1.4	147	52	RUSSIA	ST.PETERSBUR	22	15	28	10	18	-0.7	77	-7		
GREECE	THESSALONIKA	34	22	39	18	28	1.4	16	-12		KAZAN	27	17	34	12	22	0.8	57	-5		
	LARISSA	37	20	44	16	29	2.4	0	-25		MOSCOW	23	15	29	12	19	-1.1	163	79		
	ATHENS	37	27	42	22	32	3.4	0	*****		YEKATERINBUR	27	17	40	12	22	2.9	72	-22		
GUADEL	RAIZET	32	25	33	23	28	0.6	145	11		OMSK	29	16	39	8	22	2.8	65	0		
HONGKO	HONG KONG IN	34	28	37	25	31	0.5	306	21		BARNAUL	28	16	34	9	22	1.5	75	3		
HUNGAR	BUDAPEST	30	18	36	13	24	1.3	18	-56		KHABAROVSK	28	18	33	12	23	1.2	68	-70		
ICELAN	REYKJAVIK	15	9	19	5	12	0.0	30	-20		VLADIVOSTOK	24	18	31	15	21	2.4	178	20		
INDIA	AMRITSAR	34	26	39	23	30	-0.3	450	255		VOLGOGRAD	30	18	39	13	24	-0.2	0	-25		
	NEW DELHI	35	27	39	24	31	-0.6	356	158		ASTRAKHAN	33	20	39	15	26	0.3	44	21		
	AHMEDABAD	34	27	36	24	30	0.4	438	*****	S AFRI	ORENBURG	30	17	41	10	23	1.0	63	16		
	INDORE	30	23	34	21	27	0.6	441	132		JOHANNESBURG	17	5	23	-4	11	0.4	1	*****		
	CALCUTTA	34	28	37	26	31	2.0	246	*****		DURBAN	22	14	30	10	18	0.4	20	-35		
	VERAVAL	30	27	33	25	28	-0.6	985	*****		CAPE TOWN	17	7	26	0	12	0.2	57	-27		
	BOMBAY	29	25	32	22	27	-1.2	1780	*****	S KORE	SEOUL	30	24	35	22	27	1.4	291	-123		
	POONA	28	22	31	21	25	-0.3	140	*****	SAMOA	PAGO PAGO	30	25	31	23	27	0.2	142	-49		
	BEGAMPET	30	23	35	22	26	-1.1	373	*****	SENEGA	DAKAR	32	27	34	24	29	2.2	38	*****		
	VISHAKHAPATN	33	27	36	25	30	1.1	308	*****	SPAIN	VALLADOLID	32	16	37	12	24	1.4	2	-11		
	MADRAS	35	27	38	24	31	-0.1	94	-10		MADRID	36	19	41	16	28	1.9	0	-12		
	MANGALORE	28	23	31	22	26	-0.2	1645	*****		SEVILLE	38	21	42	18	29	1.3	0	*****		
INDONE	SERANG	33	24	34	22	28	0.6	89	14	SWITZE	ZURICH	26	16	36	11	21	1.6	133	7		
IRELAN	DUBLIN	19	12	22	7	15	0.0	150	89		GENEVA	29	16	37	10	23	2.3	32	-46		
ITALY	MILAN	31	20	36	16	26	0.6	154	110	SYRIA	DAMASCUS	39	20	43	17	30	1.5	0	*****		
	VERONA	31	20	36	16	25	0.7	158	96	TAHITI	PAPEETE	29	23	31	20	26	0.5	99	56		
	VENICE	29	20	34	15	25	0.5	96	30	TANZAN	DAR ES SALAA	30	21	32	19	25	0.8	13	-3		
	GENOA	28	24	33	20	26	0.9	21	*****	THAILA	PHITSANULOK	35	25	38	23	30	1.4	115	-72		
	ROME	32	21	36	17	26	2.3	2	-10		BANGKOK	35	28	38	25	31	0.9	223	32		
	NAPLES	32	23	38	19	28	2.1	1	-28	TOGO	TABLIGBO	32	23	39	0	28	0.8	*****	*****		
JAMAIC	KINGSTON	34	26	35	24	30	1.1	1	-58	TRINID	PORT OF SPAI	32	24	33	23	28	0.5	264	39		
JAPAN	SAPPORO	28	21	34	17	24	3.0	108	18	TUNISI	TUNIS	39	25	46	21	32	4.2	0	-5		
	NAGOYA	34	25	38	21	30	2.1	154	-58	TURKEY	ISTANBUL	31	22	38	18	27	1.9	3	-21		
	TOKYO	34	25	38	21	29	3.3	46	-110		ANKARA	31	14	37	7	23	0.8	4	-14		
	YOKOHAMA	33	25	37	22	29	3.4	12	-170	TURKME	ASHKHABAD	39	27	44	20	33	3.0	1	-6		
	KYOTO	35	25	39	22	30	2.7	65	-157	UKINGD	ABERDEEN	18	11	22	7	15	0.1	76	7		
	OSAKA	34	26	38	23	30	1.8	113	-61		LONDON	23	14	30	10	18	-0.6	64	18		
KAZAKH	KUSTANAY	31	18	40	12	24	3.1	44	-8	UKRAIN	KIEV	26	17	33	14	22	0.0	136	67		
	TSELINOGRAD	32	18	38	13	25	4.2	19	-31		LVOV	26	14	32	8	20	0.6	120	24		
	KARAGANDA	31	16	39	9	24	3.8	2	-49		KIROVOGRAD	29	16	35	12	22	0.8	45	-16		
KENYA	NAIROBI	23	13	29	10	18	0.3	1	*****		ODESSA	28	20	34	14	24	0.6	48	3		
LIBYA	BENGHAZI	35	23	42	19	29	2.2	0	*****		KHARKOV	28	17	34	13	22	0.4	154	90		
LITHUA	KAUNAS	24	12	33	7	18	-0.9	37	-51	UZBEKI	TASHKENT	38	23	42	19	31	2.8	3	-2		
LUXEMB	LUXEMBOURG	24	14	33	10	19	-0.1	109	36	VENEZU	CARACAS	***	***	31	24	***	*****	*****	*****		
MALAYS	KUALA LUMPUR	33	25	34	23	29	0.5	219	54	YUGOSL	BELGRADE	32	20	37	15	26	2.3	47	-19		
MALI	BAMAKO	33	23	36	20	28	1.9	92	*****	ZAMBIA	LUSAKA	***	***	29	9	***	*****	*****	*****		
MARSHA	MAJURO	31	27	31	25	29	0.9	204	-75	ZIMBAB	KADOMA	***	***	27	6	***	*****	*****	*****		
MARTIN	LAMENTIN	32	26	34	24	29	0.7	359	161												
MAURIT	NOUAKCHOTT	33	26	39	23	29	1.5	*****	*****												
MEXICO	GUADALAJARA	30	18	32	15	24	1.9	136	*****												
	TLAXCALA	25	13	28	10	19	1.4	130	*****												
	ORIZABA	26	18	31	15	22	1.1	270	*****												
MOROCC	CASABLANCA	27	22	30	20	24	1.0	0	*****												

Based on Preliminary Reports

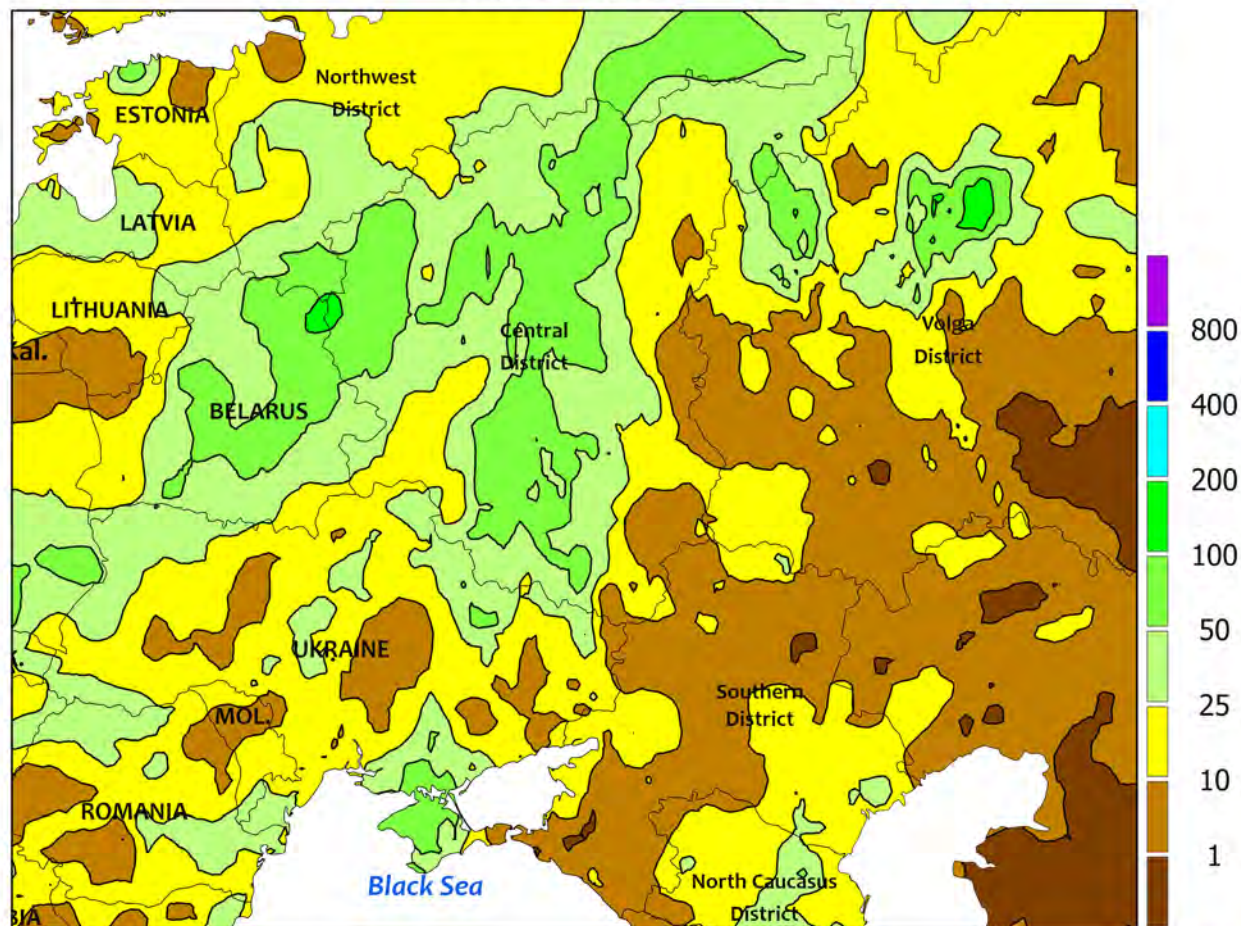


EUROPE

The recent blistering heat wave over southern Europe abated as the week wore on, while widespread showers and thunderstorms over central and northern Europe boosted moisture supplies for spring grains and summer crops. Early in the period, lingering extreme heat (38-42°C) in southern portions of Spain, Italy, and the Balkans further stressed filling summer crops. In Greece, temperatures reached 46°C over the far south and 45°C in Thessaly, approaching all-time record highs and severely stressing filling summer crops. Later in the week, showers and thunderstorms (2-40 mm) over northern Italy, northern Greece, and the lower Danube River Valley

signaled the arrival of cooler air, though much of Spain and southern Italy remained dry. Meanwhile, widespread moderate to heavy showers and thunderstorms (10-100 mm) across central and northern Europe boosted soil moisture for spring grains and summer crops following early-summer dryness, though southern France remained mostly dry. Temperatures averaged near to below normal over central and northern portions of the continent, while positive anomalies were less pronounced (2-4°C above normal) than previous weeks across the Mediterranean Basin due to the cooler weather by the end of the monitoring period.

WESTERN FSU
Total Precipitation(mm)
July 23 - 29, 2023



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



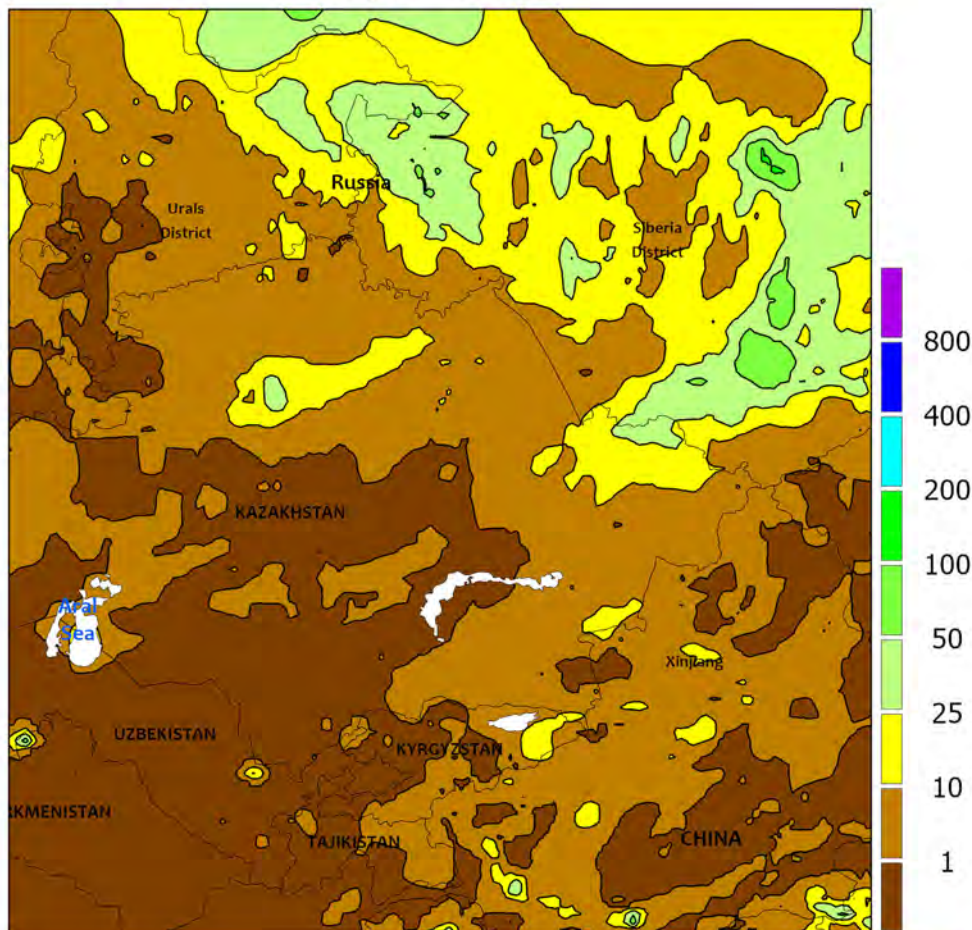
WESTERN FSU

Overall favorable weather continued for summer crops. Widespread albeit highly variable showers and thunderstorms (5-50 mm, locally more) across Moldova, Ukraine, Belarus, and northwestern Russia maintained adequate to abundant soil moisture for reproductive summer crops. Lighter showers (2-25 mm) were also noted over much of southwestern Russia, sustaining good to excellent conditions for reproductive (north) to filling (south) corn and sunflowers. Temperatures during the period averaged near normal in the west but up to 3°C above normal in Russia's Volga District. Daytime highs in Moldova into the upper 30s (degrees C) likely stressed summer crops

somewhat, though this week's showers helped mitigate the impacts of the heat. Ukraine's primary summer crop areas have avoided untimely heat to date, while the warmth in southwestern Russia (34-37°C) likely had little to no impact on summer crops due to abundant moisture reserves from recent — and at times excessive — rainfall. However, heat in the Volga District (up to 37°C) renewed stress on filling spring barley.

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

EASTERN FSU
Total Precipitation(mm)
July 23 - 29, 2023



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

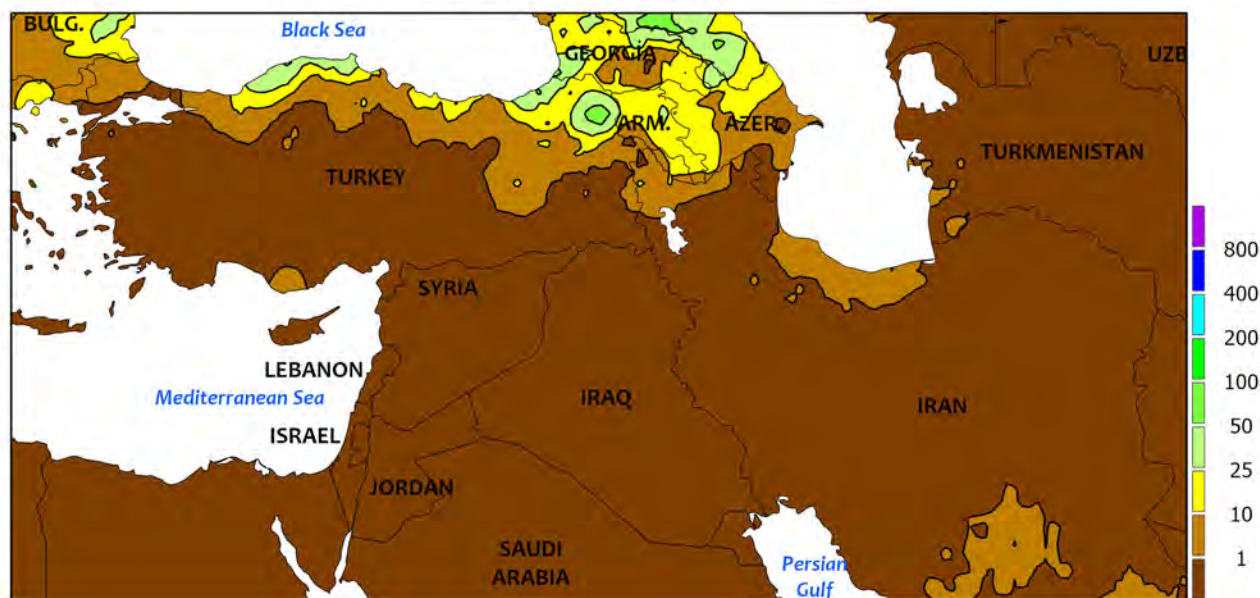


EASTERN FSU

Warmer-than-normal albeit showery weather returned to the spring grain belt, while heat intensified in cotton areas to the south. Temperatures across central Russia and northern Kazakhstan averaged 1 to 3°C above normal, with daytime highs into the middle and upper 30s (degrees C) by week's end in Kazakhstan renewing stress on filling spring wheat and barley. Showers and thunderstorms over much of Russia's Siberia District (10-70 mm) helped keep the high heat at bay, while northern Kazakhstan and neighboring portions of the Urals and Volga Districts in central Russia largely missed out on the rain (mostly less than 5 mm, but a few reports greater than 10 mm). The central Asia spring grain belt has been subjected to extreme temperature swings during the 2023

growing campaign, with two acute heat waves (early June and mid-July) preceding the recent return of unfavorable warmth. Rainfall has followed suit, with beneficial rain interspersed amongst periods of total dryness. Farther south over the Commonwealth of Independent States (CIS), seasonably sunny skies were accompanied by anomalous heat (3-6°C above normal). Daytime highs reached 42 to 47°C in Turkmenistan, western and central Uzbekistan, and southern Kazakhstan, and upper 30s and lower 40s in Kyrgyzstan and Tajikistan. The high heat accelerated cotton through the open boll stage of development up to 10 days ahead of normal, with 7-day average temperatures of 32 to 36°C suggesting some stress to cotton.

MIDDLE EAST
Total Precipitation(mm)
July 23 - 29, 2023



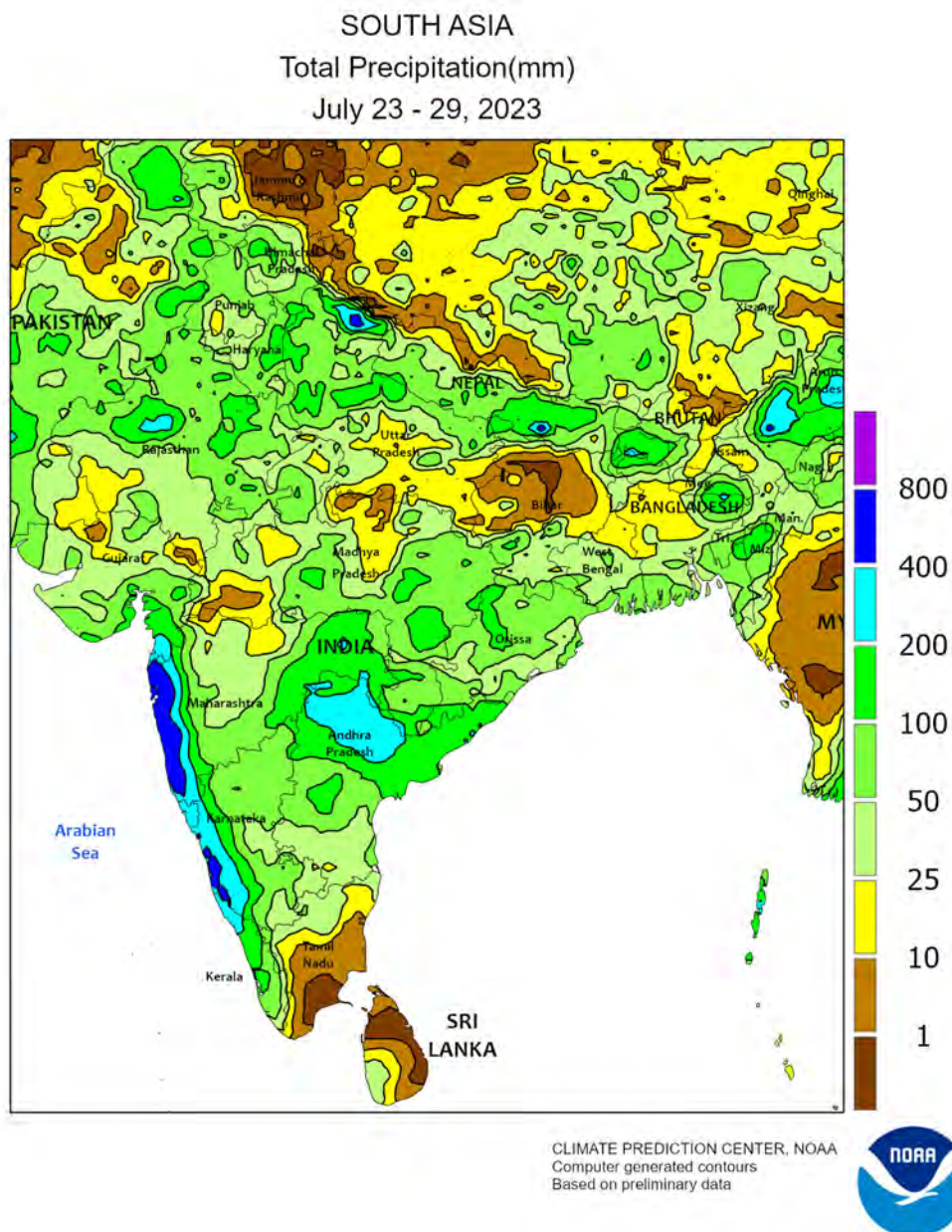
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data



MIDDLE EAST

Outside of the Black Sea Coast, seasonably dry weather prevailed. Sunny skies promoted the development of irrigated corn, cotton, and sunflowers in Turkey. Corn and sunflowers ranged from reproductive on the Anatolian Plateau to filling in the northwest (Thrace) and southeast (Adana and GAP Regions). Cotton was flowering in the Aegean Region but advancing through the open boll stage of development in the climatologically warmer southeastern growing areas. Despite

the dry weather regime, moderate to heavy showers (10-50 mm) were noted along the Black Sea Coast in northern Turkey, mostly falling outside of major agricultural areas. Temperatures averaged near normal over central and northern Turkey but up to 5°C above normal over southern Turkey and the Mediterranean Basin. Daytime temperatures in western Turkey as high as 44°C stressed summer crops before somewhat cooler weather (upper 30s degrees C) returned by week's end.

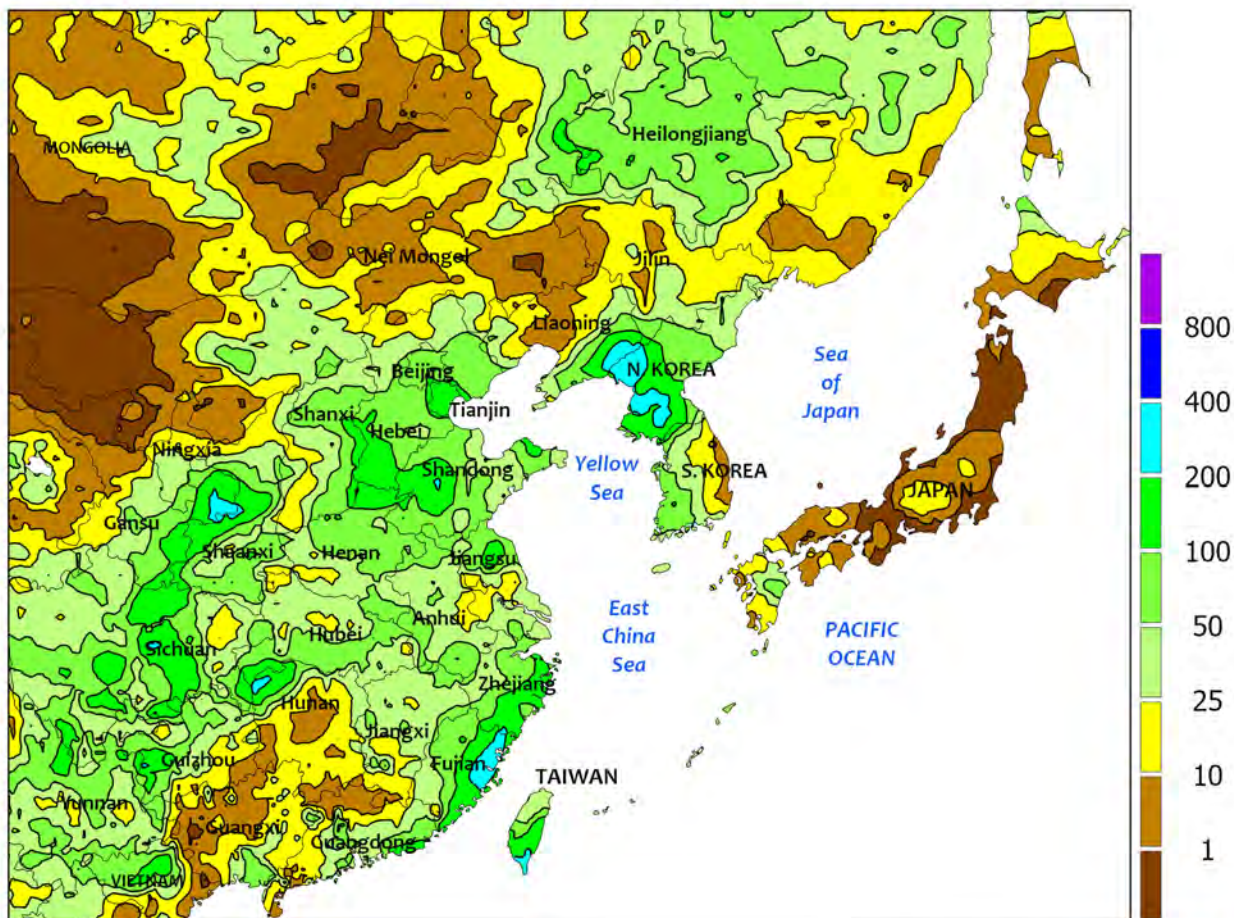


SOUTH ASIA

Monsoon showers prevailed across much of the region, including previously dry sections of eastern India and Bangladesh. While rainfall in some eastern rice locations topped 100 mm, pockets of drier weather still persisted, and more rain is needed to alleviate the seasonal moisture deficits

being experienced (rainfall up to 60 percent below normal). In contrast, most other growing areas of India have benefited from consistent showers, with most reaches recording 25 to 100 mm or more in the current period; flooding in cotton areas of Telangana was likely with over 200 mm of rain, though.

EASTERN ASIA
Total Precipitation(mm)
July 23 - 29, 2023



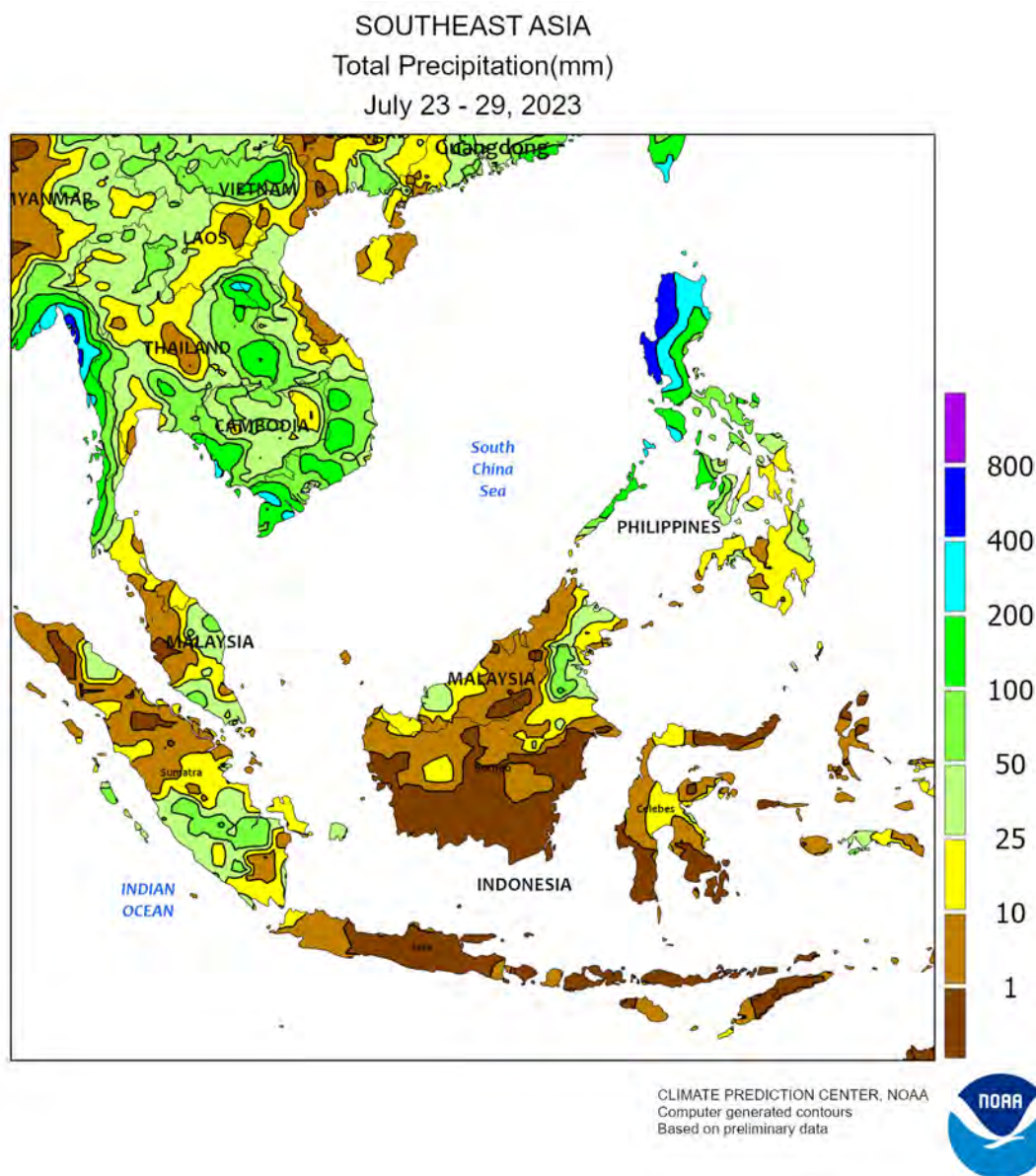
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data



EASTERN ASIA

Most summer crop areas in China extending from the northeast to the south received beneficial rainfall. Many areas recorded 25 to 100 mm or more, including previously dry sections in the south, where the remnants of Super Typhoon Doksuri moved ashore. The southern rain was particularly welcome following poor rainfall for much of the summer season thus far. However, pockets of drier weather continued and more

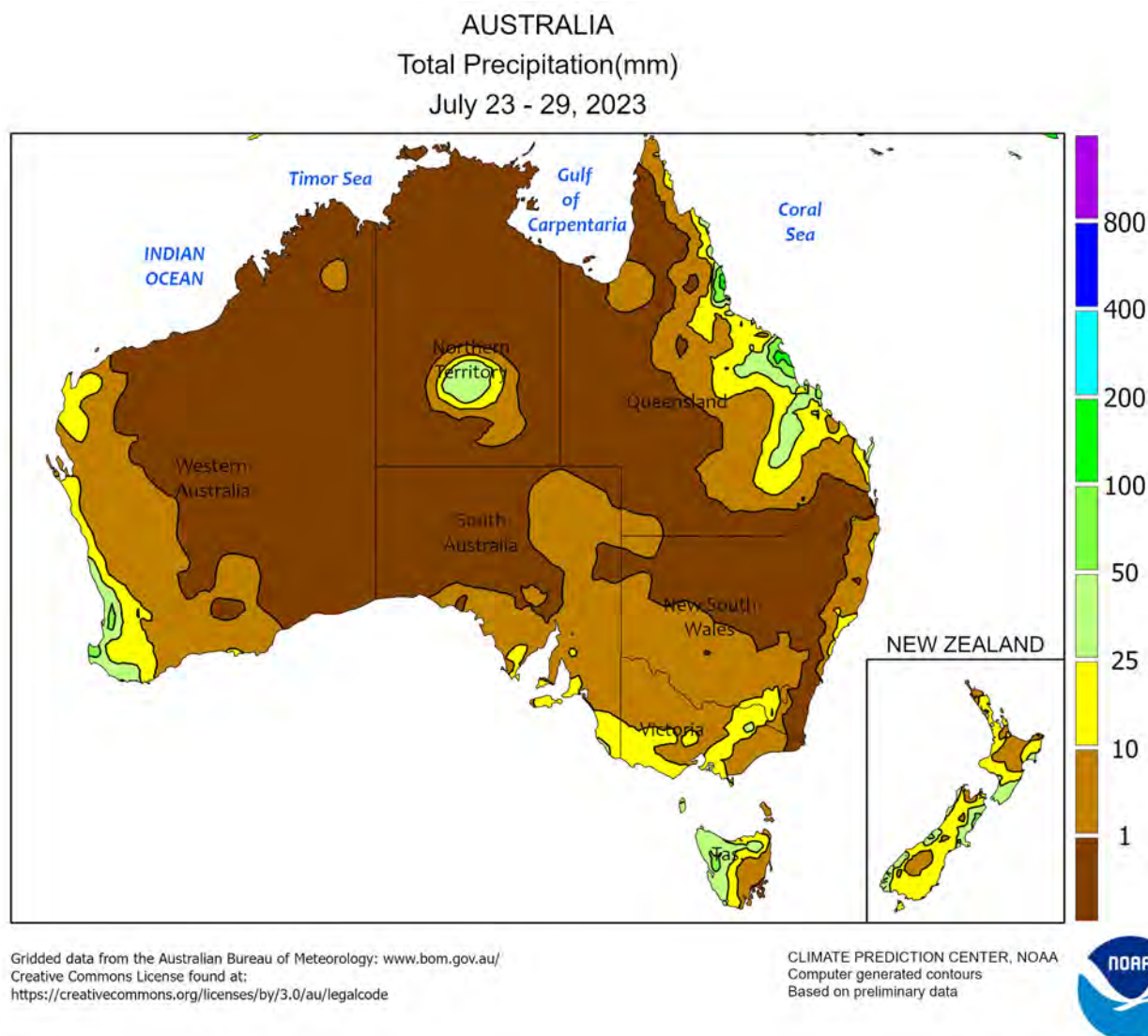
moisture is needed for rice. Meanwhile, in the west, after a brief period of stressful heat, near ideal temperatures returned for flowering cotton. Elsewhere in the region, flooding was likely in North Korea, stemming from downpours in excess of 300 mm. In contrast, parts of southern Japan were mired in unseasonably dry weather (rainfall less than 50 percent of normal since June 1).



SOUTHEAST ASIA

Super Typhoon Doksuri weakened as it approached the northern Philippines around the middle of the period. Doksuri's maximum sustained winds topped 130 kts on July 25 but weakened below 100 kts as the storm skimmed northern Luzon on July 26. Despite the lower winds, drenching showers (topping 700 mm) were recorded in rice areas of western Luzon, causing localized damage. However, key growing areas in eastern Luzon benefited from more

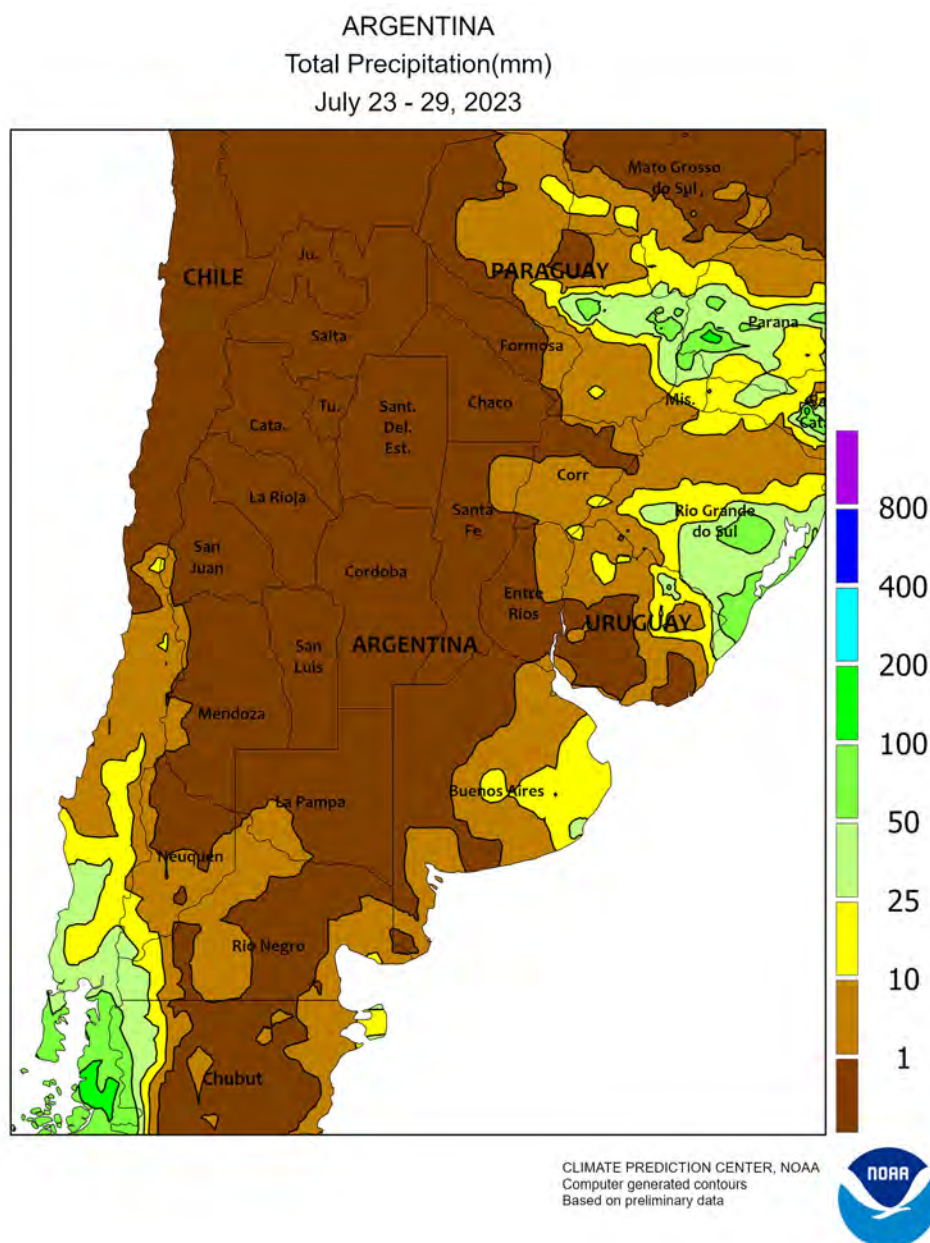
seasonable amounts (averaging 200 mm), while rainfall diminished significantly toward central (25-100 mm) and southern (0-50 mm) areas of the country. Meanwhile, monsoon showers continued to be unevenly distributed in Thailand and environs. Some sections received less than 10 mm while some locales reported over 300 mm of rain. Although, most rain-fed rice has been receiving adequate rainfall, more consistent moisture would be welcome.



AUSTRALIA

Showers remained light and widely scattered in most major winter crop producing areas, providing little additional moisture for vegetative winter grains and oilseeds. The heaviest rain (approaching 10 mm) was confined to far southern and western edges of the wheat belt and parts of central Queensland, while the majority of the wheat belt received little or no rainfall (less than 3 mm). As a result, soil moisture continued a slow but steady decline. By week's end,

root zone soil moisture was below normal in most of southern Queensland, New South Wales, and Western Australia. Despite the downward trend, root zone soil moisture remained near normal in Victoria and far southeastern South Australia. Rain will be needed soon throughout most of the wheat belt to help maintain early-season winter crop prospects. Temperatures averaged 1 to 2°C above normal, causing an uptick in net evaporative losses.

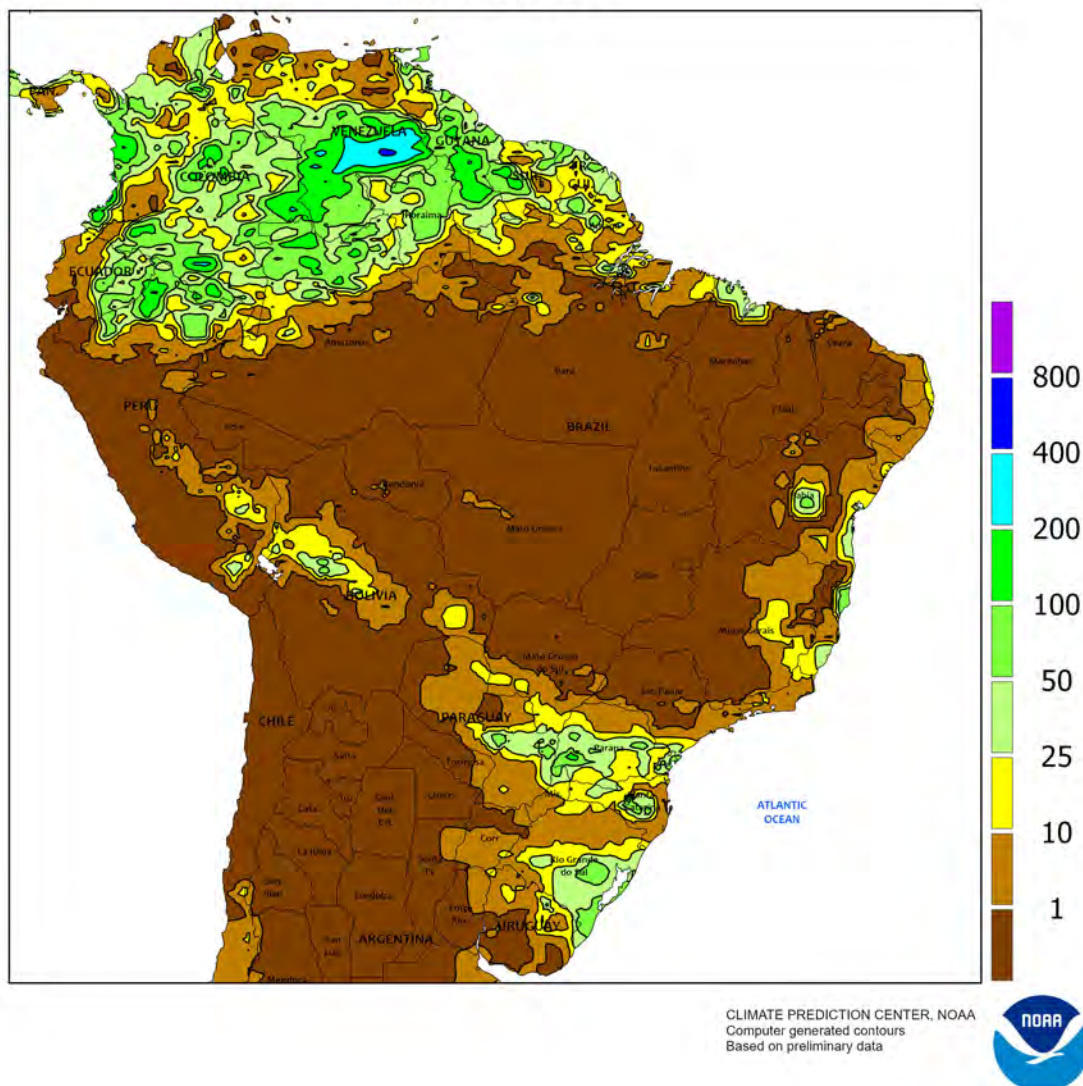


ARGENTINA

Showers returned to the southeast, while mostly dry, seasonably mild weather continued elsewhere. Rainfall totaling 10 to 35 mm benefited emerging to vegetative wheat and barley across southeastern Buenos Aires. Meanwhile, mild, sunny weather favored emerging winter grains in other key production areas that recently received timely rainfall. Weekly temperatures averaged within 1°C of normal region wide, with highest

daytime temperatures ranging from the upper 10s (degrees C) in eastern Buenos Aires and Entre Rios to the lower 30s in eastern Formosa. According to the government of Argentina, corn was 79 percent harvested as of July 27 versus 89 percent last year. Cotton was 91 percent harvested, compared with 89 percent last year. Meanwhile, wheat and barley were 96 percent and 94 percent planted, respectively.

BRAZIL
Total Precipitation(mm)
July 23 - 29, 2023

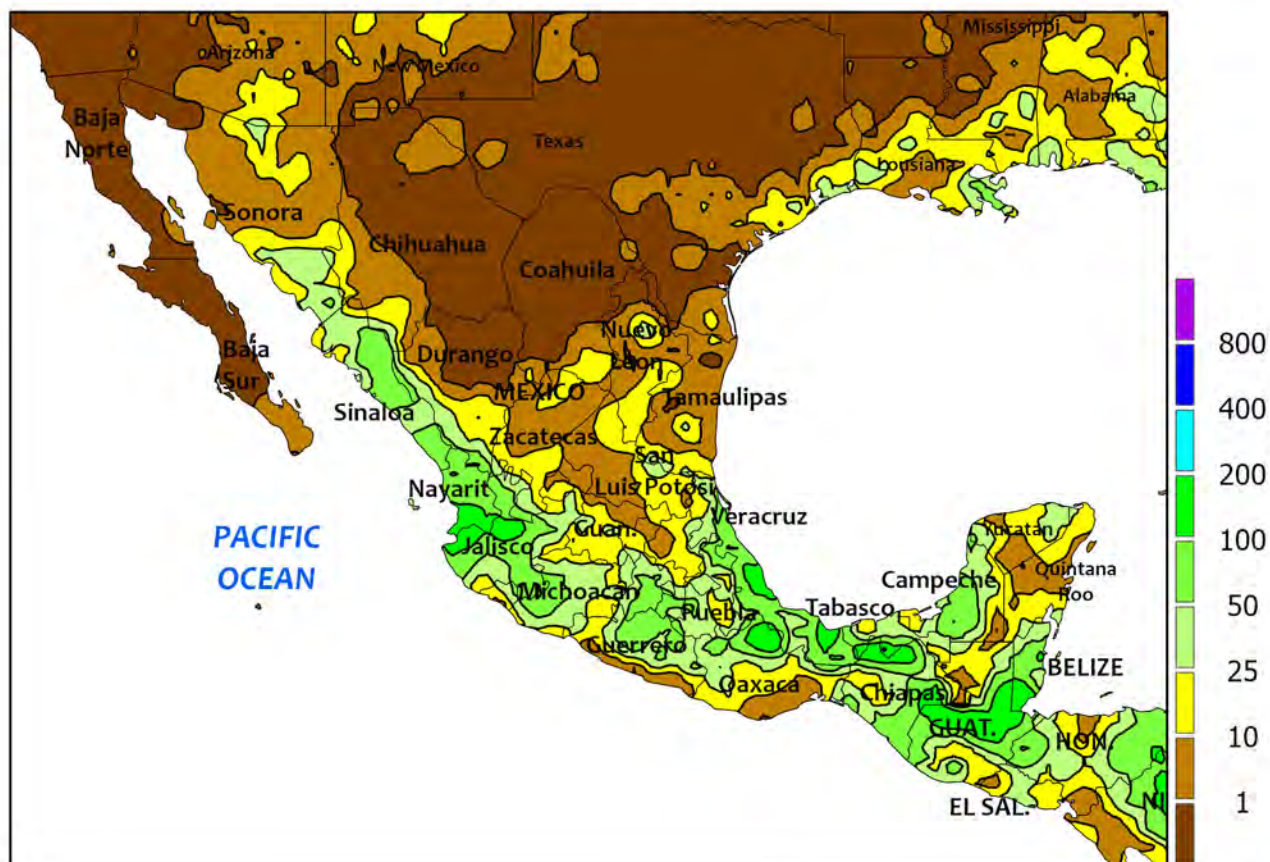


BRAZIL

Light showers maintained overall favorable conditions for wheat in the main southern production areas. Rainfall ranged from 2 to 5 mm in northern Paraná to locally more than 25 mm in southern Rio Grande do Sul. Mild weather (daytime highs ranging from the middle 20s to lower 30s degrees C) accompanied the rain, and while nighttime lows dropped below 5°C locally, no freeze was recorded. According to the government of Paraná, over 50 percent of wheat was flowering to filling as of July 24; 11 percent of second-crop corn was harvested, and another 70

percent had reached maturity. In Rio Grande do Sul, wheat was 97 percent planted as of July 27, with just 3 percent flowering. Elsewhere, seasonal showers (10-50 mm, locally approaching 100 mm) lingered along the northeastern coast, as warm, dry weather prevailed farther inland, favoring drydown and harvesting of corn and cotton. According to the government of Mato Grosso, corn was 92 percent harvested as of July 28, compared with 98 percent last year, and cotton was 22 percent harvested (45 percent last year).

MEXICO
Total Precipitation(mm)
July 23 - 29, 2023



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



MEXICO

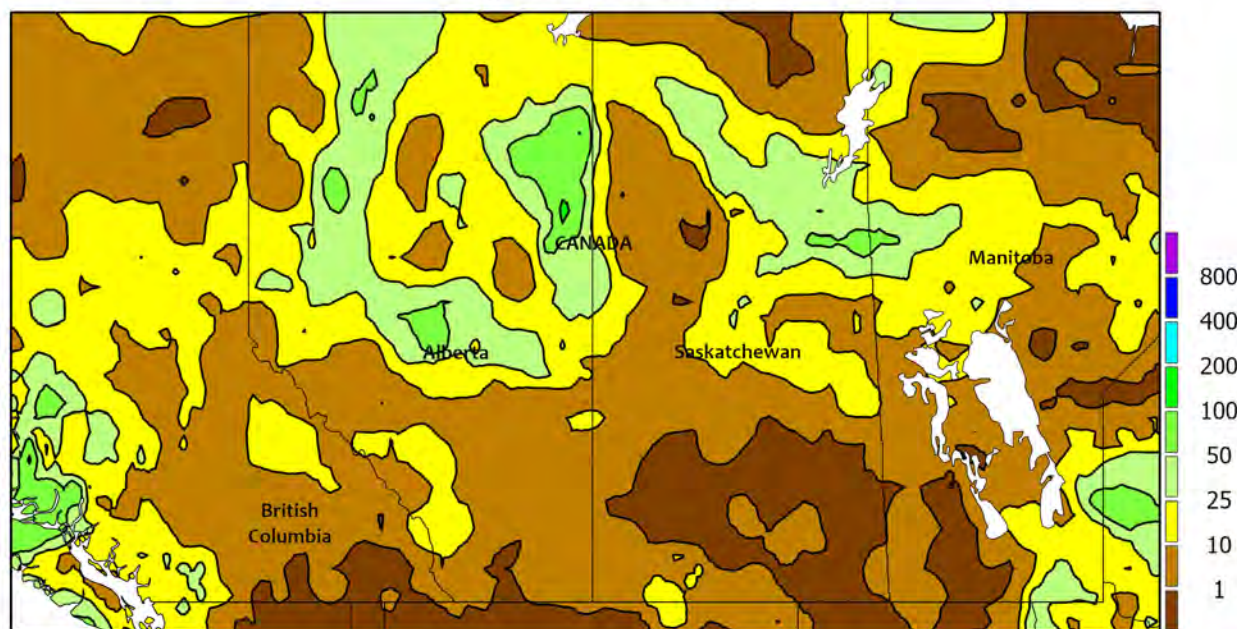
Showers intensified across southern and northwestern Mexico, benefiting rain-fed summer crops and helping to replenish irrigation reserves. Rainfall totaled 25 to more than 100 mm across a broad area stretching from Jalisco to Campeche, including Veracruz and most of the southern plateau corn belt. Similar amounts were recorded from Nayarit northward into southern Sonora, but dry, warmer-than-normal weather

(weekly temperatures averaging up to 4°C above normal, with highs reaching 40°C) dominated the northern interior (Chihuahua and environs), maintaining high irrigation requirements for cotton and other summer crops. In the northeast, (Tamaulipas, Nuevo Leon, and San Luis Potosí), patchy showers (10-25 mm) brought only localized relief from unseasonable warmth to summer crops.

CANADIAN PRAIRIES

Total Precipitation(mm)

July 23 - 29, 2023



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



CANADIAN PRAIRIES

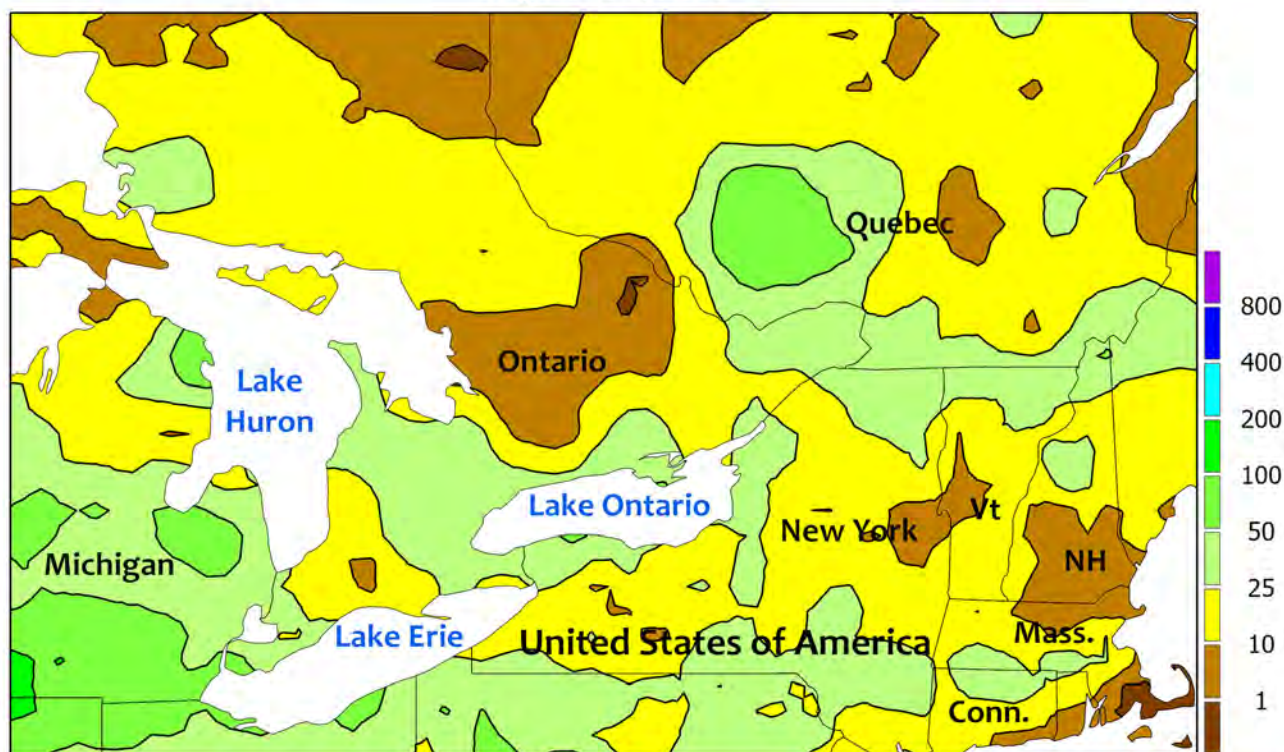
Mostly dry, unseasonably warm weather stressed spring grains and oilseeds in the southwestern Prairies. Weekly average temperatures ranged from 1 to 2°C above normal across southern sections of Alberta and Saskatchewan to as much as 2°C below normal in the northern farming areas of both Alberta and Manitoba. An early-week heat wave pushed daytime highs into the upper 30s (degrees C) in the southwest before the onset

of more seasonable temperatures. However, dryness prevailed throughout the week from southern Alberta to southwestern Manitoba, with few locations in the heat-stressed agricultural districts recording more than 5 mm. In contrast, heavy rain (25-50 mm) soaked Alberta's northern farming areas, and light rain (5-15 mm) overspread northern Saskatchewan as well as the northern and eastern growing areas in Manitoba.

SOUTHEASTERN CANADA

Total Precipitation(mm)

July 23 - 29, 2023



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



SOUTHEASTERN CANADA

Showers and seasonable warmth maintained overall favorable conditions for crops and pastures. Weekly temperatures averaged 1°C above normal across the region, although highest daytime readings ranged from the upper 20s and lower 30s (degrees C), prompting growth of vegetative to reproductive summer crops and maturing winter wheat without undue stress.

Rainfall totaling 25 to 100 mm stretched from Ontario's southwestern farming areas to southwestern Quebec, with pockets of lighter rain in other agricultural districts. While maintaining adequate to locally excessive levels of moisture for summer crops and pastures, the rain was untimely for the winter wheat harvest and hay cutting.

July 23 - 29, 2023



Data obtained from the NWS Cooperative Observer Network.

Meteorologists.....**Brad Pugh, Adam Allgood, and Rich Tinker**

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