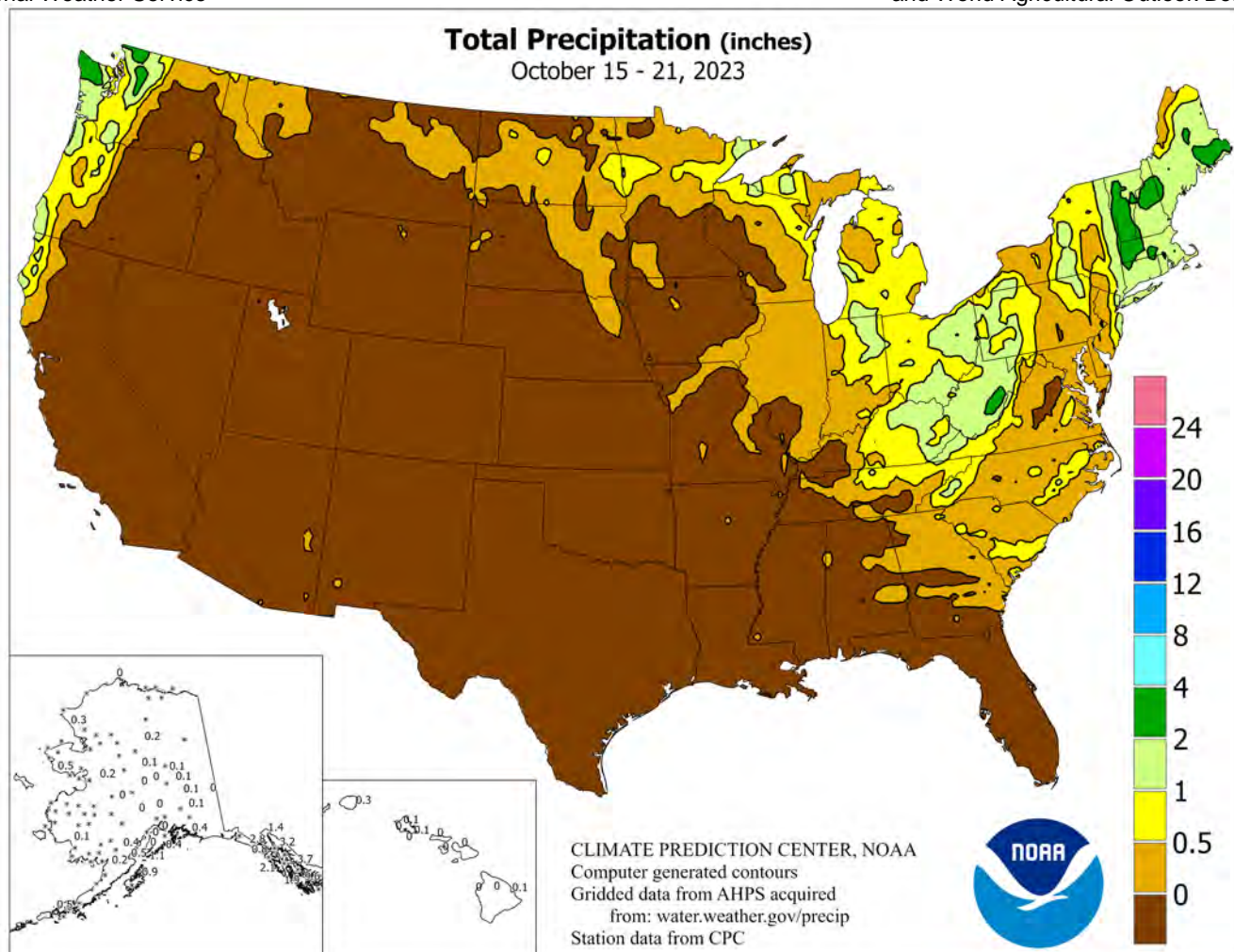


WEEKLY WEATHER AND CROP BULLETIN

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

October 15 – 21, 2023

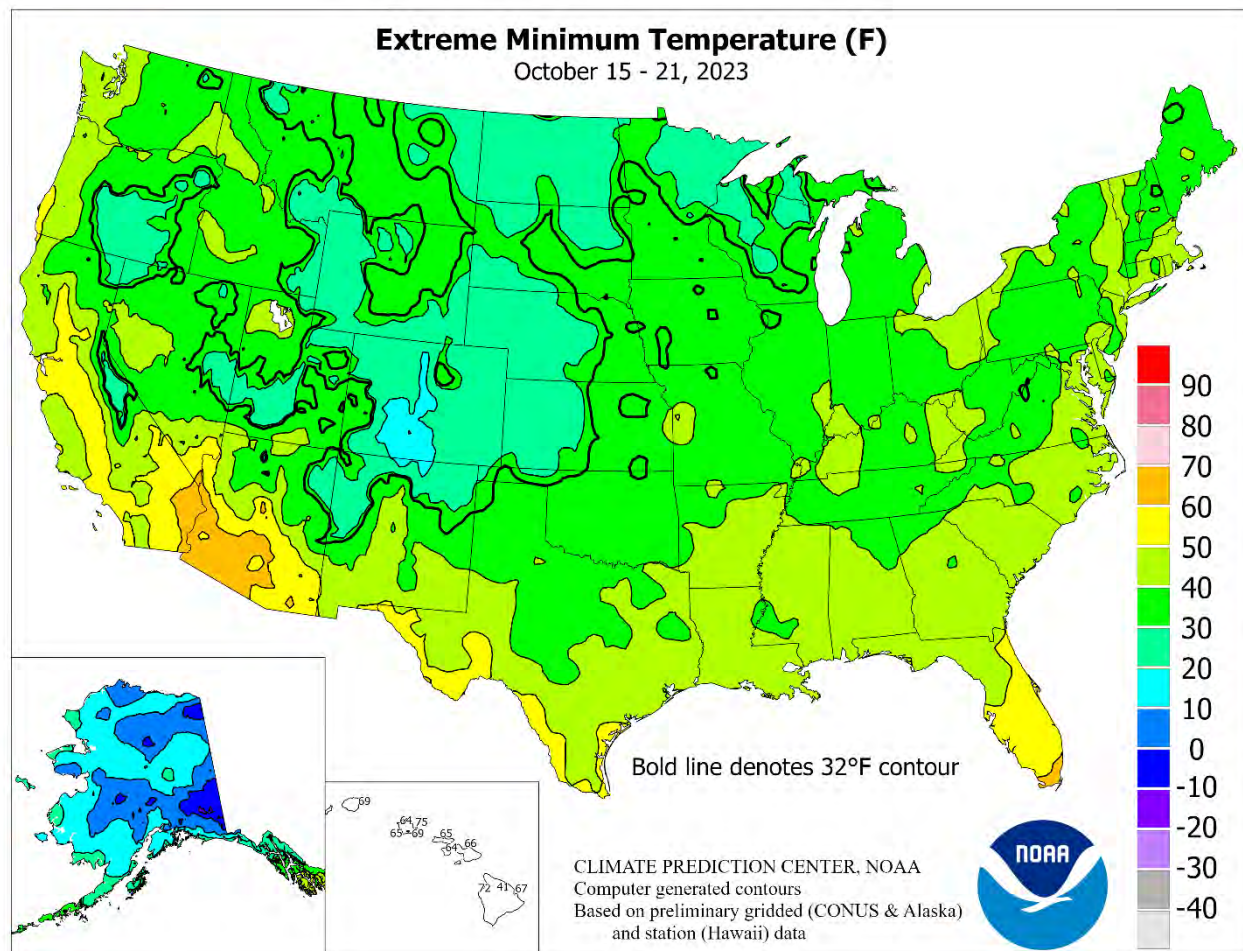
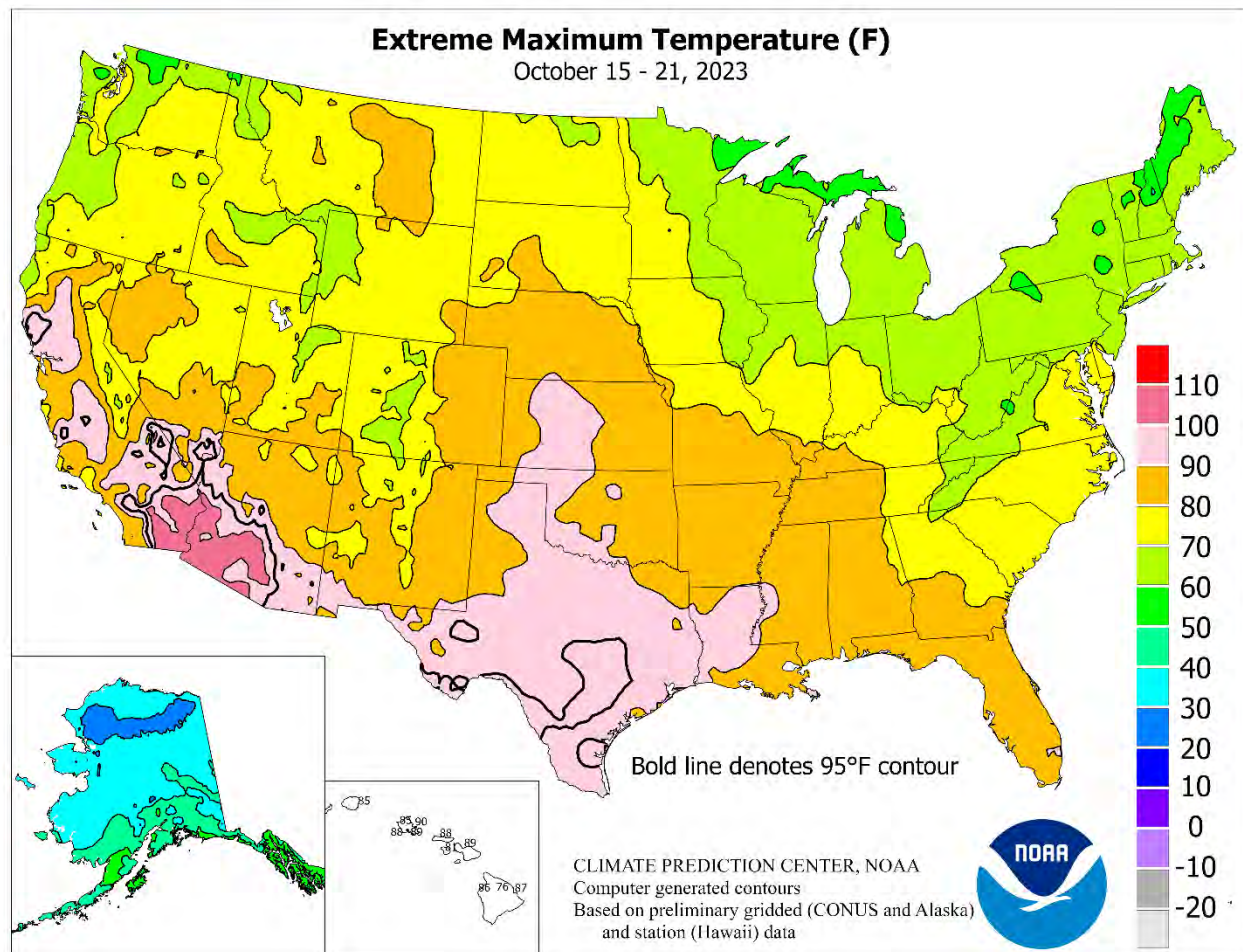
Highlights provided by USDA/WAOB

Pervasive dryness favored autumn fieldwork, including summer crop harvesting and late-season winter wheat planting. By October 22, more than three-quarters (77 percent) of the intended U.S. winter wheat acreage had been sown. From the **Pacific Coast to the Plains and upper Midwest**, warmth accompanying the dry weather promoted emergence and establishment of recently planted wheat. In fact, weekly temperatures averaged at least 10°F above normal across parts of the **northern Plains** and much of the **West**. Some of the warmest weather, relative

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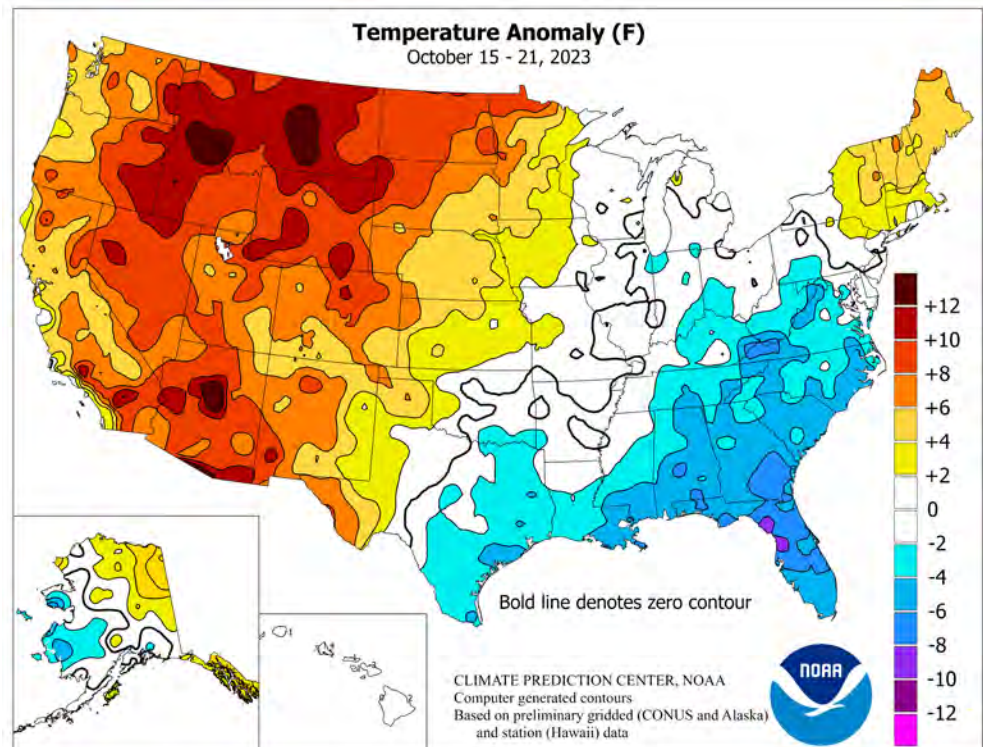


(Continued from front cover)

to normal, covered the **northern Intermountain West**, as well as **northern sections of the Rockies and adjacent High Plains**. In contrast, readings averaged 5 to 10°F below normal in parts of the **middle and southern Atlantic States**. Any meaningful precipitation was confined to the **Pacific Northwest** and an area stretching from the **Great Lakes region into the Northeast**. Widespread weekly totals exceeding 2 inches were confined to **New England** and neighboring areas, such as **eastern New York**. With drought in place across nearly 40 percent of the **Lower 48 States**, according to the October 17 *U.S. Drought Monitor*, limited soil moisture and low river levels were an ongoing concern. During October, the **Ohio River at Cairo, IL**, and the **Mississippi River from New Madrid, MO, to Helena, AR**, have achieved modern record-low levels mostly set just last year, in October 2022.

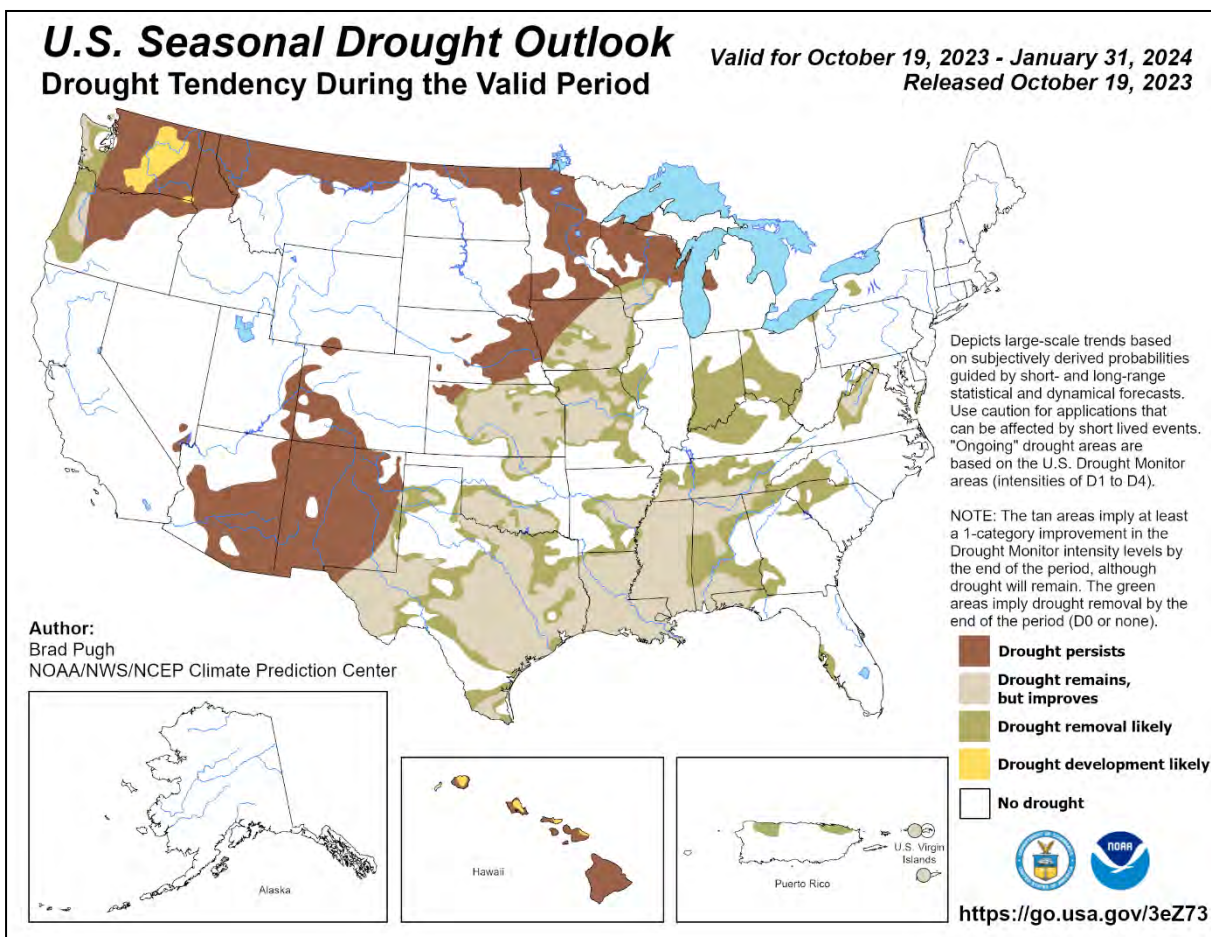
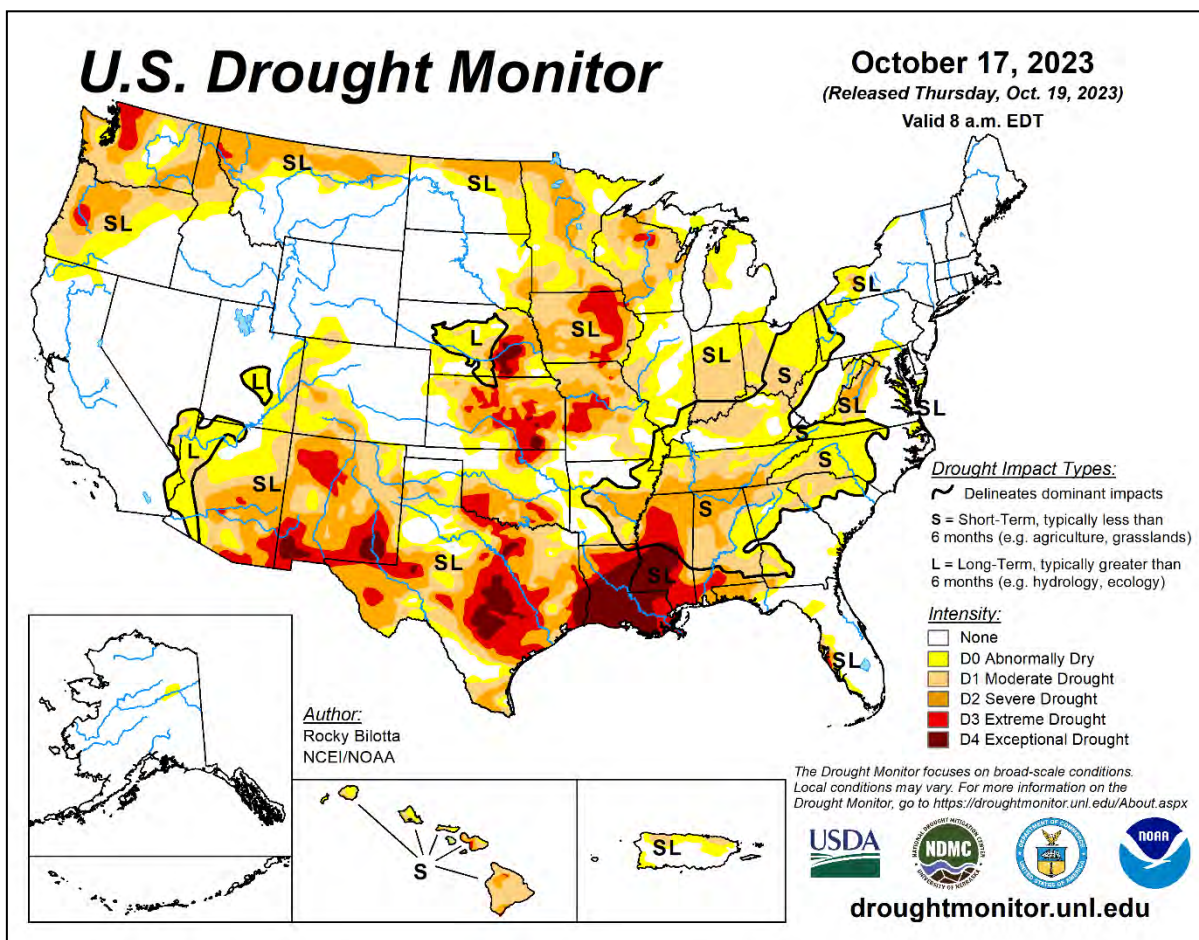
The **Mississippi River at Caruthersville, MO**, dipped to a preliminary stage of -2.98 feet on October 16, breaking the low-water record of -1.82 feet, set exactly a year earlier. Farther downstream, **Memphis, TN**, achieved a stage of -12.04 feet on October 17, more than a foot below last year's record (-10.81 feet on October 21, 2022). Farther west, showers arrived early in the week across the **Pacific Northwest**, where **Portland, OR**, netted a record-setting rainfall total (0.79 inch) for October 16. Subsequently, rainfall activity was minimal until late in the week, when moderately heavy showers spread from the **Great Lakes States into the Northeast**. In **Maine, Bangor** received rainfall totaling 1.10 inches on October 21, followed the next day by a daily-record sum of 1.59 inches. Meanwhile, daily-record totals on the 21st included 2.33 inches in **Burlington, VT**, and 1.48 inches in **Plattsburgh, NY**. Elsewhere, little rain fell during the first 3 weeks of the month in parts of the **South**, with month-to-date totals through October 21 as low as 0.34 inch (15 percent of normal) in **Muscle Shoals, AL**; 0.31 inch (12 percent) in **Memphis, TN**; 0.30 inch (13 percent) in **Nashville, TN**; 0.29 inch (13 percent) in **Birmingham, AL**; 0.25 inch (9 percent) in **Tupelo, MS**; and 0.10 inch (4 percent) in **Greenwood, MS**.

Record-setting heat appeared early in the week in the **Southwest**, where triple-digit, daily-record highs were observed on October 16 in **Phoenix (105°F)** and **Tucson (101°F)**. The reading in **Phoenix** marked the latest observance in that location of a temperature of 105°F or greater (previously, 105°F on October 10, 1991). **Phoenix** also posted triple-digit readings, with highs ranging from 101 to 105°F, each day from October 15-21. During the mid- to late-week period, warmth expanded to other areas, including the **Plains, Deep South**, and the remainder of the **West**. In **California, Needles** collected consecutive daily-record highs



(100 and 101°F, respectively) on October 18 and 19. Elsewhere in **California**, triple-digit, daily-record highs for October 20 soared to 108°F in **Palm Springs**, 107°F in **Indio**, and 103°F in **Imperial**. Farther north, consecutive daily-record highs occurred on October 19-20 in locations such as **Helena, MT** (82 and 81°F), and **Reno, NV** (85°F both days). Similarly, the week ended (on October 20-21) with consecutive records in **Texas** locations such as **Baumont-Port Arthur** (92°F both days) and **Borger** (92 and 93°F). Late-season heat spread as far east as the **central Gulf Coast**, where daily-record highs for October 20 soared to 93°F in **Vicksburg, MS**, and **Monroe, LA**. **Alexandria, LA**, notched a pair of daily-record highs (94 and 91°F, respectively) on October 20-21. Farther north, a daily-record high of 90°F was observed on the 21st as far north as **Chanute, KS**.

Torrential precipitation fell in parts of **southeastern Alaska**, while mostly dry weather covered the mainland. Meanwhile, near- or above-normal temperatures across the **eastern half of Alaska** contrasted with lingering cold weather at many western locations. Daily-record rainfall totals were noted in **Ketchikan** (6.69 inches on October 17), **Sitka** (2.63 inches on October 18), and **Juneau** (1.88 inches on October 18). Through the 21st, month-to-date precipitation climbed to 17.91 inches (148 percent of normal) in **Ketchikan** and 13.57 inches (167 percent) in **Sitka**. Colder, drier weather arrived at week's end in **southeastern Alaska**, where **Juneau** reported its first autumn freeze (27°F) on October 21. Farther south, **Hawaii's** dry pattern persisted through week's end, when an approaching cold front neared the western islands. The first measurable rainfall of the month was observed in **Kahului, Maui**, on October 21, when 0.04 inch fell. Through the 21st, month-to-date rainfall at the state's major airport observation sites ranged from 0.04 inch (9 percent of normal) in **Kahului** to 0.74 inch (11 percent) in **Hilo**, on the **Big Island**.



National Weather Data for Selected Cities

Weather Data for the Week Ending October 21, 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 SEP 1	PCT. NORMAL SINCE SEP 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	42	30	48	18	36	1	0.91	0.55	0.91	6.14	137	20.34	149	82	46	0	3	1	1
	BARROW	27	20	30	3	24	0	0.00	-0.12	0.00	0.00	0	4.59	101	90	75	0	7	0	0
	FAIRBANKS	34	26	46	24	30	5	0.15	-0.01	0.06	1.83	96	8.72	86	82	62	0	7	4	0
	JUNEAU	51	42	56	28	47	5	3.19	1.30	1.64	22.84	151	56.95	110	97	63	0	1	6	2
	KODIAK	49	39	55	33	44	3	0.95	-1.05	0.65	5.75	42	48.51	81	86	58	0	0	3	1
AL	NOME	31	14	35	3	23	-7	0.53	0.11	0.35	3.91	111	18.30	127	99	75	0	7	3	0
	BIRMINGHAM	73	48	83	44	60	-4	0.03	-0.72	0.02	2.23	35	42.60	91	84	40	0	0	2	0
	HUNTSVILLE	71	45	85	39	58	-5	0.05	-0.78	0.05	1.60	27	36.60	85	94	43	0	0	1	0
	MOBILE	77	51	87	44	64	-4	0.00	-0.85	0.00	4.40	54	45.21	81	89	36	0	0	0	0
	MONTGOMERY	75	48	84	44	62	-5	0.01	-0.60	0.01	5.87	103	41.48	100	92	42	0	0	1	0
AR	FORT SMITH	79	47	89	40	63	0	0.00	-1.08	0.00	3.58	51	33.27	86	86	31	0	0	0	0
	LITTLE ROCK	79	51	89	45	65	3	0.00	-1.14	0.00	1.65	27	44.66	114	78	30	0	0	0	0
AZ	FLAGSTAFF	76	34	78	30	55	8	0.00	-0.37	0.00	1.33	46	23.05	138	68	15	0	2	0	0
	PHOENIX	103	72	105	67	87	11	0.00	-0.13	0.00	0.09	9	2.97	51	29	9	7	0	0	0
CA	PRESCOTT	85	47	88	43	66	9	0.00	-0.19	0.00	0.64	34	9.04	82	49	11	0	0	0	0
	TUCSON	99	65	101	62	82	10	0.00	-0.15	0.00	0.34	20	8.19	92	36	12	7	0	0	0
	BAKERSFIELD	87	60	94	56	73	6	0.00	-0.07	0.00	0.15	84	8.41	182	68	30	2	0	0	0
	EUREKA	60	52	67	49	56	2	0.31	-0.23	0.31	3.29	164	24.20	91	99	85	0	0	1	0
	FRESNO	87	59	93	55	73	7	0.00	-0.15	0.00	0.00	0	12.62	156	75	27	2	0	0	0
	LOS ANGELES	74	61	78	59	67	1	0.00	-0.12	0.00	0.05	13	21.69	241	97	62	0	0	0	0
	REDDING	86	54	94	51	70	6	0.01	-0.48	0.01	1.65	107	30.16	132	79	25	2	0	1	0
	SACRAMENTO	84	55	92	52	69	5	0.00	-0.22	0.00	0.20	36	13.48	106	91	32	1	0	0	0
	SAN DIEGO	75	61	78	58	68	0	0.00	-0.13	0.00	0.06	15	12.95	182	98	66	0	0	0	0
	SAN FRANCISCO	78	58	87	56	68	5	0.00	-0.19	0.00	0.03	6	19.96	152	86	47	0	0	0	0
CO	STOCKTON	86	55	91	52	71	6	0.00	-0.17	0.00	0.02	4	13.29	142	88	34	2	0	0	0
	ALAMOSA	73	22	75	16	47	5	0.00	-0.16	0.00	1.28	88	3.80	58	74	13	0	7	0	0
	CO SPRINGS	76	41	85	30	58	9	0.00	-0.19	0.00	1.82	95	24.25	160	57	16	0	1	0	0
	DENVER INTL	78	41	86	33	60	10	0.00	-0.23	0.00	0.67	32	17.75	134	51	16	0	0	0	0
	GRAND JUNCTION	76	43	79	39	60	8	0.00	-0.24	0.00	0.45	23	6.00	79	65	19	0	0	0	0
CT	PUEBLO	79	36	88	28	57	6	0.00	-0.19	0.00	1.59	136	11.31	102	63	15	0	1	0	0
	BRIDGEPORT	64	50	65	45	57	1	0.93	0.06	0.50	10.07	151	39.60	110	91	57	0	0	3	1
DC	HARTFORD	64	48	67	43	56	3	1.28	0.24	0.76	14.26	188	53.89	141	94	56	0	0	3	2
	WASHINGTON	66	50	71	48	58	-2	0.06	-0.79	0.03	4.33	67	26.62	77	86	50	0	0	2	0
DE	WILMINGTON	65	45	69	41	55	-1	0.09	-0.74	0.04	5.87	84	40.18	107	93	55	0	0	3	0
FL	DAYTONA BEACH	77	57	81	53	67	-7	0.00	-1.04	0.00	12.39	112	46.45	102	95	47	0	0	0	0
	JACKSONVILLE	75	52	82	47	64	-7	0.00	-0.79	0.00	11.44	104	41.71	86	92	42	0	0	0	0
	KEY WEST	84	74	90	70	79	-2	1.26	0.02	1.23	12.53	110	26.80	77	81	59	1	0	3	1
	MIAMI	84	69	90	63	77	-3	0.00	-1.59	0.00	17.89	111	64.10	107	75	49	1	0	0	0
	ORLANDO	80	60	87	55	70	-5	0.00	-0.74	0.00	9.34	103	39.70	85	88	43	0	0	0	0
	PENSACOLA	77	56	87	48	66	-4	0.00	-1.03	0.00	4.99	50	49.00	85	81	36	0	0	0	0
	TALLAHASSEE	78	50	86	43	64	-6	0.00	-0.70	0.00	8.13	112	45.41	89	94	41	0	0	0	0
	TAMPA	79	63	84	57	71	-6	0.06	-0.40	0.03	6.35	79	30.15	66	82	49	0	0	3	0
	WEST PALM BEACH	83	64	88	59	73	-5	0.00	-1.23	0.00	17.61	144	63.97	120	87	45	0	0	0	0
	ATHENS	71	46	75	41	58	-5	0.09	-0.63	0.09	1.39	22	43.31	109	92	42	0	0	1	0
GA	ATLANTA	70	49	76	45	60	-4	0.35	-0.36	0.35	3.06	50	35.05	85	85	46	0	0	1	0
	AUGUSTA	72	44	75	42	58	-7	0.44	-0.11	0.35	9.55	175	55.57	150	99	41	0	0	3	0
	COLUMBUS	73	49	81	45	61	-6	0.03	-0.57	0.03	4.29	81	41.80	106	90	42	0	0	1	0
	MACON	74	46	82	41	60	-5	0.01	-0.56	0.01	3.79	69	40.05	104	94	40	0	0	1	0
	SAVANNAH	74	51	79	46	63	-5	0.03	-0.80	0.03	2.87	39	35.83	85	89	42	0	0	1	0
HI	HILO	85	69	87	67	77	2	0.11	-2.20	0.09	6.65	43	81.34	90	92	59	0	0	2	0
	HONOLULU	86	73	89	69	79	-1	0.03	-0.31	0.02	0.20	11	9.98	88	90	57	0	0	2	0
	KAHULUI	87	67	89	66	77	-3	0.04	-0.15	0.04	0.13	13	9.58	85	85	55	0	0	1	0
IA	LIHUE	84	72	85	69	78	-1	0.26	-0.46	0.16	1.52	35	33.08	125	89	61	0	0	5	0
	BURLINGTON	64	42	70	35	53	0	0.27	-0.43	0.23	1.91	33	23.37	71	95	50	0	0	2	0
	CEDAR RAPIDS	63	40	69	32	51	1	0.01	-0.62	0.01	3.28	60	16.26	51	95	49	0	1	1	0
	DES MOINES	67	44	75	37	56	3	0.01	-0.61	0.01	2.94	57	21.62	67	87	40	0	0	1	0
	DUBUQUE	61	42	65	33	51	2	0.09	-0.55	0.09	5.63	96	26.71	80	92	55	0	0	1	0
ID	SIOUX CITY	67	40	78	33	53	4	0.02	-0.47	0.02	5.08	113	21.70	82	97	45	0	0	1	0
	WATERLOO	65	40	72	32	53	2	0.00	-0.62	0.00	4.17	81	20.10	62	90	44	0	1	0	0
	BOISE	78	51	82	48	65	13	0.00	-0.19	0.00	0.97	104	8.04	94	63	27	0	0	0	0
	LEWISTON	71	51	76	46	61	10	0.01	-0.24	0.01	1.93	152	7.24	71	78	44	0	0	1	0
	POCATELLO	73	37	77	33	55	9	0.00	-0.22	0.00	3.28	208	10.86	115	93	32	0	0	0	0
IL	CHICAGO/O'HARE	62	46	68	41	54	1	0.17	-0.61	0.10	5.26	94	29.15	90	86	55	0	0	4	0
	MOLINE	64	43	69	34	54	1	0.11	-0.53	0.08	7.23	138	24.72	74	91	48	0	0	2	0
	PEORIA	65	45	72	38	55	1	0.19	-0.55	0.16	2.97	53	27.43	86	93	43	0	0	2	0
	ROCKFORD	62	39	67	32	51	-1	0.28	-0.30	0.17	6.20	114	27.34	84	97	54	0	1	2	0
IN	SPRINGFIELD	66	43	73	34	55	-1	0.15	-0.63	0.11	4.07	79	28.24	87	95	44	0	0	2	0
	EVANSVILLE	68	46	80	42	57	-1	0.06	-0.72	0.05	1.53	27	34.93	90	92	42	0	0	2	0
	FORT WAYNE	57	43	64	37	50	-2	0.92	0.24	0.52	3.81									

Weather Data for the Week Ending October 21, 2023

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION								RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
																		TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL IN., SINCE SEP 1	PCT. NORMAL SINCE SEP 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	
KY	WICHITA	76	45	89	37	61	3	0.00	-0.68	0.00	2.11	40	19.95	64	79	27	0	0	0	0	
	LEXINGTON	63	47	73	41	55	-2	0.89	0.04	0.48	2.17	36	35.65	86	90	50	0	0	3	0	
	LOUISVILLE	65	48	78	44	57	-3	0.67	-0.19	0.35	1.91	30	33.58	84	84	49	0	0	3	0	
LA	PADUCAH	72	45	83	40	58	-1	0.02	-0.92	0.02	3.07	48	49.34	121	92	41	0	0	1	0	
	BATON ROUGE	80	52	91	45	66	-3	0.00	-1.22	0.00	4.45	57	38.65	75	92	36	2	0	0	0	
	LAKE CHARLES	80	53	90	43	67	-4	0.00	-1.17	0.00	3.42	40	33.96	68	93	39	2	0	0	0	
MA	NEW ORLEANS	78	58	87	51	68	-4	0.00	-0.88	0.00	5.16	68	27.12	50	87	41	0	0	0	0	
	SHREVEPORT	81	53	91	45	67	0	***	***	***	***	***	***	***	86	34	1	0	***	***	
	BOSTON	62	51	66	49	56	2	0.67	-0.27	0.56	4.18	66	39.09	113	93	63	0	0	3	1	
MD	WORCESTER	59	47	62	44	53	3	1.59	0.44	1.31	11.33	150	53.39	138	94	59	0	0	4	1	
	BALTIMORE	67	46	73	41	57	0	0.13	-0.75	0.12	7.19	100	31.89	86	91	47	0	0	2	0	
	CARIBOU	57	42	61	36	50	6	0.55	-0.39	0.30	6.88	112	33.08	101	95	67	0	0	5	0	
ME	PORTLAND	59	48	63	39	54	4	1.43	0.17	1.27	6.67	91	44.30	117	99	73	0	0	3	1	
	ALPENA	54	42	59	37	48	2	0.30	-0.38	0.22	1.85	37	24.48	98	95	67	0	0	3	0	
	GRAND RAPIDS	55	41	64	37	48	-2	0.69	-0.22	0.35	5.46	88	30.51	93	96	68	0	0	4	0	
MI	HOUGHTON LAKE	54	40	61	33	47	1	0.36	-0.35	0.29	2.95	67	18.23	99	95	68	0	0	2	0	
	LANSING	55	42	63	37	48	-2	0.68	-0.03	0.43	5.19	104	30.62	109	94	67	0	0	4	0	
	MUSKEGON	58	42	67	35	50	-1	0.85	-0.02	0.36	5.26	90	26.00	91	88	62	0	0	4	0	
MN	TRAVERSE CITY	56	47	66	45	52	3	0.22	-0.59	0.11	3.52	59	19.38	80	86	64	0	0	3	0	
	DULUTH	54	37	62	28	45	2	0.34	-0.31	0.16	10.97	196	29.53	109	93	65	0	2	4	0	
	INT_L FALLS	58	41	62	28	49	9	0.24	-0.26	0.18	4.55	99	21.39	95	99	69	0	2	2	0	
MO	MINNEAPOLIS	62	44	69	38	53	4	0.05	-0.53	0.05	7.66	154	24.57	87	90	51	0	0	1	0	
	ROCHESTER	60	39	67	36	50	3	0.01	-0.51	0.01	4.76	88	24.58	79	99	55	0	0	1	0	
	ST. CLOUD	64	38	71	31	51	6	0.03	-0.57	0.02	5.27	106	23.02	90	94	49	0	2	2	0	
MS	COLUMBIA	70	45	79	39	57	1	0.04	-0.77	0.02	1.87	29	28.18	79	90	41	0	0	2	0	
	KANSAS CITY	69	44	80	36	57	1	0.09	-0.64	0.06	1.49	23	27.88	79	89	39	0	0	2	0	
	SAINT LOUIS	70	48	80	42	59	1	0.00	-0.74	0.00	3.44	68	27.53	79	79	39	0	0	0	0	
MT	SPRINGFIELD	70	46	82	38	58	0	0.08	-0.77	0.08	6.48	96	39.03	104	88	43	0	0	1	0	
	JACKSON	79	48	89	41	63	-2	0.00	-0.88	0.00	0.93	15	34.76	74	88	32	0	0	0	0	
	MERIDIAN	76	46	88	41	61	-5	0.00	-0.92	0.00	2.07	36	49.59	107	94	39	0	0	0	0	
NC	TUPELO	76	47	86	42	62	-2	0.02	-0.90	0.01	1.53	24	42.17	91	89	38	0	0	2	0	
	BILLINGS	73	47	81	39	60	13	0.00	-0.32	0.00	1.80	74	15.73	122	61	28	0	0	0	0	
	BUTTE	69	32	75	27	50	11	0.00	-0.19	0.00	3.20	192	16.41	143	86	25	0	4	0	0	
ND	CUT BANK	65	41	80	33	53	12	0.00	-0.12	0.00	0.88	59	7.16	72	72	33	0	0	0	0	
	GLASGOW	69	42	80	36	56	12	0.04	-0.16	0.04	0.96	55	11.49	93	77	32	0	0	1	0	
	GREAT FALLS	71	40	81	31	56	12	0.00	-0.24	0.00	3.17	150	15.70	118	69	30	0	1	0	0	
NE	HAVRE	70	39	83	31	54	11	0.00	-0.15	0.00	1.87	116	9.82	91	84	32	0	1	0	0	
	MISSOULA	70	39	76	34	54	11	0.02	-0.26	0.02	2.10	121	11.44	100	86	37	0	0	1	0	
	ASHEVILLE	62	43	69	37	53	-5	0.10	-0.64	0.09	2.32	35	30.75	75	91	48	0	0	2	0	
OH	CHARLOTTE	70	49	73	44	59	-2	0.00	-0.69	0.00	1.69	28	36.36	101	82	40	0	0	0	0	
	GREENSBORO	65	45	70	43	55	-4	0.30	-0.37	0.30	5.79	86	35.93	98	87	47	0	0	1	0	
	HATTERAS	69	56	73	48	62	-5	1.78	0.55	1.61	7.57	65	37.82	75	88	55	0	0	2	1	
OR	RALEIGH	69	49	73	46	59	-2	0.46	-0.27	0.46	7.56	99	36.00	93	89	44	0	0	1	0	
	WILMINGTON	71	49	77	45	60	-5	0.38	-0.63	0.38	3.88	31	45.66	88	89	45	0	0	1	0	
	BISMARCK	67	38	75	31	52	8	0.26	-0.08	0.25	3.59	130	18.71	107	94	43	0	2	2	0	
PA	DICKINSON	67	38	76	26	53	10	0.14	-0.13	0.12	2.63	105	13.53	92	87	35	0	1	2	0	
	FARGO	65	42	73	33	53	9	0.69	0.18	0.65	2.87	67	18.00	83	87	50	0	0	2	1	
	GRAND FORKS	64	38	72	29	51	9	0.33	-0.10	0.18	3.83	105	12.74	64	89	47	0	1	2	0	
RI	JAMESTOWN	65	37	73	29	51	8	0.01	-0.39	0.01	3.28	99	15.43	83	88	44	0	2	1	0	
	GRAND ISLAND	73	40	89	31	56	4	0.00	-0.46	0.00	2.19	62	13.37	55	85	29	0	1	0	0	
	LINCOLN	73	42	87	34	57	4	0.00	-0.47	0.00	1.76	39	17.59	66	86	32	0	0	0	0	
SD	NORFOLK	69	41	84	33	55	5	0.07	-0.41	0.07	5.41	134	20.93	86	89	36	0	0	1	0	
	NORTH PLATTE	74	33	86	26	53	4	0.00	-0.40	0.00	2.07	72	20.15	102	92	31	0	2	0	0	
	OMAHA	69	42	79	34	55	2	0.03	-0.47	0.03	2.98	63	22.47	78	94	37	0	0	1	0	
TN	SCOTTSBLUFF	76	35	84	28	55	7	0.00	-0.29	0.00	2.48	116	18.80	132	91	26	0	2	0	0	
	VALENTINE	71	36	85	27	53	5	0.00	-0.31	0.00	7.23	256	30.61	156	92	33	0	2	0	0	
	CONCORD	60	45	65	36	53	4	1.20	0.14	1.06	5.57	83	31.56	94	100	61	0	0	4	1	
TX	ATLANTIC_CITY	65	45	67	39	55	-1	0.55	-0.43	0.53	8.72	138	31.72	86	95	56	0	0	2	1	
	NEWARK	67	51	68	45	59	2	2.07	1.19	1.83	8.99	140	39.83	105	87	49	0	0	2	1	
	ALBUQUERQUE	81	49	85	45	65	7	0.00	-0.20	0.00	1.21	67	3.31	44	43	14	0	0	0	0	
UT	ELY	76	32	78	28	54	9	0.00	-0.19	0.00	1.14	98	10.62	135	63	15	0	3	0	0	
	LAS VEGAS	90	64	92	58	77	8	0.00	-0.07	0.00	1.28	242	4.07	122	30	11	5	0	0	0	
	RENO	81	46	84	43	64	9	0.00	-0.11	0.00	0.66	122	9.81	179	64	16	0	0	0	0	
VY	WINNEMUCCA	79	36	83	34	58	9	0.00	-0.15	0.00	2.39	302	7.89	141	75	19	0	0	0	0	
	ALBANY	62	48	66	45	55	5	1.23	0.34	0.94	5.02	78	38.04	114	91	57	0	0	3	1	
	BINGHAMTON	57	45	63	42	51	3	0.80	-0.05	0.55	6.07	92	37.01	106	95	67	0	0	4	1	
WY	BUFFALO	56	47	64	44	51	0	0.20	-0.68	0.10	5.24	75	31.93	99	90	65	0	0	4	0	
	ROCHESTER	57	45	65	39	51	0	0.67	-0.07	0.33	2.38	44	30.36	106	89	66	0	0	3	0	
	SYRACUSE	60																			

Weather Data for the Week Ending October 21, 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 SEP 1	PCT. NORMAL SINCE SEP 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	TOLEDO	59	45	65	41	52	-2	0.64	0.06	0.36	3.41	72	27.09	93	90	60	0	0	3	0	
	YOUNGSTOWN	57	45	64	43	51	0	0.74	-0.02	0.40	3.44	56	30.54	89	95	63	0	0	6	0	
	OKLAHOMA CITY	77	46	89	37	62	1	0.00	-0.83	0.00	3.70	61	29.11	91	80	29	0	0	0	0	
OR	TULSA	76	48	85	41	62	0	0.00	-0.91	0.00	6.41	100	32.00	92	86	34	0	0	0	0	
	ASTORIA	65	49	71	45	57	5	1.01	-0.58	0.97	6.29	93	36.75	80	97	73	0	0	3	1	
	BURNS	74	35	78	31	55	10	0.00	-0.19	0.00	0.74	86	11.01	145	84	25	0	1	0	0	
	EUGENE	66	50	69	45	58	6	0.28	-0.46	0.28	3.37	104	17.91	68	98	72	0	0	1	0	
	MEDFORD	76	50	82	47	63	8	0.05	-0.22	0.05	2.95	254	8.65	73	94	43	0	0	1	0	
	PENDLETON	72	48	80	44	60	10	0.02	-0.24	0.02	1.44	122	6.22	65	85	38	0	0	1	0	
	PORTLAND	68	52	73	48	60	5	0.82	0.01	0.79	2.96	83	20.67	85	94	61	0	0	2	1	
	SALEM	66	50	69	47	58	5	0.36	-0.46	0.36	4.11	116	22.17	86	98	69	0	0	1	0	
	ALLENTOWN	63	44	69	38	54	0	0.21	-0.72	0.19	5.35	68	34.24	87	92	54	0	0	3	0	
	ERIE	58	48	66	47	53	-1	0.38	-0.59	0.33	4.48	61	34.77	103	87	61	0	0	5	0	
	MIDDLETOWN	64	48	70	43	56	1	0.07	-0.81	0.04	6.75	89	29.71	81	87	52	0	0	3	0	
	PHILADELPHIA	66	50	70	45	58	1	0.07	-0.72	0.07	6.48	95	31.07	85	86	51	0	0	1	0	
	PITTSBURGH	58	46	67	41	52	-1	0.66	0.04	0.52	3.26	62	25.47	77	89	57	0	0	4	1	
	WILKES-BARRE	60	47	67	40	54	1	0.81	-0.04	0.70	9.43	139	36.18	113	93	58	0	0	3	1	
	WILLIAMSPORT	61	47	63	39	54	1	0.17	-0.65	0.12	4.05	54	33.59	93	93	57	0	0	4	0	
RI	PROVIDENCE	62	48	66	45	55	1	1.14	0.19	1.05	8.25	117	45.91	123	95	63	0	0	2	1	
	CHARLESTON	74	52	79	46	63	-4	0.71	-0.23	0.71	10.39	110	45.00	98	93	41	0	0	1	1	
	COLUMBIA	71	47	74	42	59	-5	0.12	-0.59	0.09	6.02	96	47.12	124	97	45	0	0	2	0	
SD	FLORENCE	72	47	75	44	60	-5	0.11	-0.60	0.11	3.27	46	35.19	91	89	39	0	0	1	0	
	GREENVILLE	69	44	73	41	56	-5	0.07	-0.73	0.07	1.48	23	44.48	110	84	40	0	0	1	0	
	ABERDEEN	67	37	79	27	52	7	0.02	-0.50	0.02	3.94	110	20.95	105	92	42	0	1	1	0	
	HURON	67	39	78	31	53	6	0.14	-0.30	0.14	5.79	149	16.99	79	93	43	0	1	1	0	
	RAPID CITY	70	38	80	29	54	8	0.00	-0.32	0.00	3.67	160	20.40	125	86	33	0	2	0	0	
	SIOUX FALLS	68	41	79	33	55	6	0.01	-0.52	0.01	2.70	59	16.49	65	88	40	0	0	1	0	
TN	BRISTOL	63	45	70	40	54	-3	0.61	0.06	0.53	1.55	34	33.90	93	95	49	0	0	3	1	
	CHATTANOOGA	70	46	80	40	58	-4	0.20	-0.60	0.17	0.41	6	37.90	86	87	39	0	0	2	0	
	KNOXVILLE	66	44	74	40	55	-4	0.16	-0.45	0.08	0.89	16	38.38	91	93	44	0	0	3	0	
	MEMPHIS	76	50	87	45	63	0	0.00	-0.99	0.00	1.93	34	47.43	109	82	34	0	0	0	0	
	NASHVILLE	69	47	83	41	58	-3	0.00	-0.76	0.00	2.69	44	32.55	79	85	44	0	0	0	0	
	ABILENE	84	51	93	39	67	1	0.00	-0.69	0.00	2.72	58	18.44	85	63	21	2	0	0	0	
TX	AMARILLO	82	44	91	33	63	4	0.00	-0.41	0.00	0.83	27	15.14	85	67	19	2	0	0	0	
	AUSTIN	84	53	97	45	69	-2	0.00	-0.99	0.00	3.06	50	16.31	55	75	22	2	0	0	0	
	BEAUMONT	82	53	92	43	67	-4	0.00	-1.29	0.00	4.80	45	31.71	61	95	36	2	0	0	0	
	BROWNSVILLE	85	61	94	52	73	-4	0.00	-0.89	0.00	2.05	23	15.62	68	90	42	3	0	0	0	
	CORPUS CHRISTI	86	58	95	51	72	-3	0.00	-0.74	0.00	4.20	55	21.50	80	89	36	3	0	0	0	
	DEL RIO	89	57	97	51	73	1	0.00	-0.48	0.00	0.07	1	11.65	65	56	18	3	0	0	0	
	EL PASO	88	59	92	54	74	8	0.00	-0.13	0.00	0.96	49	3.39	44	36	15	3	0	0	0	
	FORT WORTH	80	53	93	44	67	0	0.00	-1.12	0.00	1.82	32	15.71	52	70	25	2	0	0	0	
	GALVESTON	79	63	89	56	71	-4	0.00	-1.25	0.00	4.14	40	19.75	53	83	47	0	0	0	0	
	HOUSTON	82	54	93	47	68	-3	0.00	-1.35	0.00	6.13	73	35.27	83	92	34	2	0	0	0	
	LUBBOCK	82	47	90	38	64	3	0.00	-0.34	0.00	5.25	143	14.25	87	71	22	1	0	0	0	
	MIDLAND	83	51	95	44	67	1	0.00	-0.27	0.00	1.25	48	3.00	25	56	18	1	0	0	0	
	SAN ANGELO	85	46	95	37	66	-1	0.00	-0.58	0.00	3.92	92	13.04	71	68	19	2	0	0	0	
	SAN ANTONIO	85	54	94	47	69	-1	0.00	-0.91	0.00	1.88	29	15.49	57	70	22	3	0	0	0	
	VICTORIA	84	51	95	43	68	-5	0.00	-0.97	0.00	4.31	58	22.31	65	93	34	2	0	0	0	
	WACO	82	47	94	36	64	-4	0.00	-1.12	0.00	4.41	75	20.08	68	87	24	2	0	0	0	
	WICHITA FALLS	82	49	94	39	65	1	0.00	-0.72	0.00	2.65	53	17.16	72	70	23	2	0	0	0	
	SALT LAKE CITY	75	48	78	45	62	8	0.00	-0.29	0.00	2.20	114	14.56	117	86	31	0	0	0	0	
UT	LYNCHBURG	65	42	70	36	54	-3	0.07	-0.61	0.06	4.37	71	35.65	102	94	47	0	0	2	0	
VA	NORFOLK	68	52	75	48	60	-3	0.27	-0.60	0.24	3.71	45	39.65	95	91	48	0	0	3	0	
	RICHMOND	68	48	73	45	58	-1	0.66	-0.10	0.62	6.15	88	31.81	83	86	42	0	0	2	1	
	ROANOKE	65	47	70	42	56	-2	0.15	-0.50	0.15	3.37	54	26.54	74	81	45	0	0	1	0	
	WASH/DULLES	65	45	73	40	55	-1	0.03	-0.80	0.02	7.17	111	26.27	73	89	49	0	0	2	0	
	BURLINGTON	60	50	66	48	55	5	2.47	1.60	2.23	8.33	131	34.88	111	93	61	0	0	4	1	
	OLYMPIA	64	47	73	43	55	6	0.71	-0.48	0.63	4.81	95	23.37	72	100	73	0	0	4	1	
	QUILLAYUTE	63	54	64	48	58	8	2.80	0.28	1.13	11.56	104	52.30	76	89	73	0	0	5	2	
	SEATTLE-TACOMA	63	52	71	49	58	5	0.68	-0.24	0.57	5.52	141	19.66	76	96	67	0	0	3	1	
	SPOKANE	69	48	76	43	58	12	0.04	-0.29	0.04	0.54	39	7.96	69	80	37	0	0	1	0	
	YAKIMA	70	41	76	35	56	7	0.00	-0.16	0.00	0.42	68	4.65	85	85	38	0	0	0	0	
	EAU CLAIRE	59	37	65	30	48	2	0.02	-0.53	0.02	4.71	85	23.46	80	96	57	0	1	1	0	
	GREEN BAY	59	39	68	33	49	1	0.55	-0.06	0.35	1.89	37	21.89	80	93	56	0	0	3	0	
	LA CROSSE	62	42	67	36	52	1	0.06	-0.49	0.04	4.20	77	21.23	68	95	54	0	0	2	0	
	MADISON	59	39	64	29	49	0	0.06	-0.54	0.06	4.73	88	25.89	79	94	56	0	1	1	0	
	MILWAUKEE	61	44	69	38	52	0	0.52	-0.07	0.21	6.13	120	28.17	95	85	55	0	0	3	0	
	BECKLEY	55	44	65	40	49	-4	0.98	0.35	0.63	6.41	127	35.41	96	90	61	0	0			

National Agricultural Summary

October 16 – 22, 2023

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Most of the nation was drier than normal, but parts of the Appalachians, Northeast, and Ohio Valley recorded at least twice the normal amount of weekly precipitation. Some locations in coastal northern California and the northern Plains also recorded at least twice the normal amount of precipitation. Parts of New England, as well as some locations in Ohio and along the Washington coast, recorded at least 2.5 inches of rain during the

week. Meanwhile, most of the western half of the nation was warmer than normal for the week. Parts of the northern Plains and Rockies recorded temperatures 12°F or more above normal. In contrast, most of the eastern half of the nation, except New England, was cooler than normal. Much of Florida, as well as several other locations in the South, recorded temperatures 6°F or more below normal.

Corn: Fifty-nine percent of the 2023 corn acreage was harvested by week's end, equal to last year but 5 percentage points ahead of the 5-year average. During the week, corn harvesting advanced 10 percentage points or more in 13 of the 18 estimating states.

Soybeans: Soybean harvest across the nation was 76 percent complete by October 22, two percentage points behind last year but 9 points ahead of the 5-year average. During the week, soybean harvesting advanced 10 percentage points or more in 14 of the 18 estimating states.

Winter Wheat: Nationwide, producers had sown 77 percent of the intended 2024 winter wheat acreage by October 22, one percentage point behind both last year and the 5-year average. During the week, planting progress advanced 26 and 21 percentage points, respectively, in Illinois and Ohio. Nationwide, 53 percent of the winter wheat acreage had emerged by October 22, six percentage points ahead of last year but equal to the 5-year average. During the week, winter wheat emergence advanced 10 percentage points or more in 12 of the 18 estimating states.

Cotton: By October 22, ninety percent of the nation's cotton had open bolls, 2 percentage points behind last year and 1 point behind the 5-year average. By October 22, forty-one percent of the nation's cotton acreage was harvested, 3 percentage points behind last year but 2 points ahead of the 5-year average. During the week, cotton harvest advanced 10 percentage points or more in nine of the 15 estimating states. On October 22, twenty-nine percent of the 2023 cotton acreage was rated in good to excellent condition, 1 percentage point below both the previous week and the previous year.

Sorghum: By October 22, ninety-six percent of the nation's sorghum acreage was mature, 2 percentage points ahead of both last year and the 5-year average. Sixty-seven percent of the 2023 sorghum acreage had been harvested by October 22, one percentage point ahead of last year and 6 points ahead of the 5-year average. During the week, sorghum harvest advanced 10 percentage points or more in five of the six estimating states.

Rice: Nationally, 91 percent of the rice acreage was harvested by October 22, two percentage points behind both last year and the 5-year average. During the week, rice harvest advanced 15 percentage points in California.

Other Crops: Fifty-five percent of the nation's peanut acreage was harvested as of October 22, eleven percentage points behind last year and 3 points behind the 5-year average. During the week, peanut harvest advanced 14 percentage points or more in five of the eight estimating states. On October 22, forty-eight percent of the nation's peanut acreage was rated in good to excellent condition, 3 percentage points below the previous week and 14 points below the previous year.

By October 22, sugarbeet producers had harvested 72 percent of the nation's crop, 6 percentage points behind last year but 5 points ahead of the 5-year average. During the week, sugarbeet harvest advanced 31 and 23 percentage points, respectively, in Minnesota and North Dakota.

By October 22, twenty-seven percent of this year's sunflower crop was harvested, 6 percentage points behind last year and 2 points behind the 5-year average. During the week, sunflower harvest advanced 26 percentage points in Colorado.

Crop Progress and Condition**Week Ending October 22, 2023**

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

Cotton Percent Bolls Opening				
	Prev Year	Prev Week	Oct 22 2023	5-Yr Avg
AL	97	91	94	94
AZ	100	96	99	100
AR	100	100	100	100
CA	89	75	85	91
GA	94	89	93	93
KS	91	96	100	90
LA	100	100	100	100
MS	98	98	100	98
MO	100	95	96	99
NC	98	97	98	97
OK	95	90	95	93
SC	97	88	94	93
TN	96	91	96	95
TX	88	82	86	88
VA	98	95	97	98
15 Sts	92	87	90	91
These 15 States planted 99% of last year's cotton acreage.				

Cotton Percent Harvested				
	Prev Year	Prev Week	Oct 22 2023	5-Yr Avg
AL	45	27	41	38
AZ	37	22	23	33
AR	68	55	70	65
CA	51	10	20	35
GA	36	13	22	32
KS	42	17	30	13
LA	92	90	94	80
MS	75	61	70	61
MO	51	45	67	50
NC	41	12	23	32
OK	19	12	22	19
SC	32	11	20	26
TN	48	25	43	45
TX	41	37	40	39
VA	54	24	35	37
15 Sts	44	33	41	39
These 15 States harvested 98% of last year's cotton acreage.				

Cotton Condition by Percent					
	VP	P	F	G	EX
AL	6	16	25	46	7
AZ	0	1	5	23	71
AR	0	3	23	44	30
CA	0	0	5	95	0
GA	1	6	34	50	9
KS	5	21	37	34	3
LA	4	22	26	46	2
MS	3	10	42	38	7
MO	0	2	41	55	2
NC	1	9	37	51	2
OK	28	20	48	3	1
SC	0	3	43	47	7
TN	5	5	14	55	21
TX	39	27	24	9	1
VA	0	2	18	80	0
15 Sts	24	19	28	24	5
Prev Wk	23	20	27	25	5
Prev Yr	21	24	25	26	4

Corn Percent Harvested				
	Prev Year	Prev Week	Oct 22 2023	5-Yr Avg
CO	31	33	45	47
IL	62	52	70	67
IN	52	30	42	54
IA	56	42	62	47
KS	82	72	82	76
KY	84	69	79	84
MI	29	17	24	30
MN	57	45	62	49
MO	76	65	75	73
NE	62	44	62	51
NC	94	94	96	94
ND	45	27	45	38
OH	34	17	20	36
PA	20	16	26	36
SD	61	37	48	46
TN	93	83	88	91
TX	92	86	89	87
WI	21	14	24	28
18 Sts	59	45	59	54
These 18 States harvested 94% of last year's corn acreage.				

Soybeans Percent Harvested				
	Prev Year	Prev Week	Oct 22 2023	5-Yr Avg
AR	77	72	80	64
IL	75	61	80	71
IN	72	52	65	67
IA	86	74	87	71
KS	63	57	71	50
KY	58	40	50	51
LA	96	95	98	93
MI	61	32	43	53
MN	93	76	88	80
MS	89	88	95	81
MO	56	46	61	42
NE	91	70	83	79
NC	37	18	26	29
ND	90	66	85	70
OH	67	49	64	64
SD	91	72	90	74
TN	59	46	60	53
WI	73	54	69	60
18 Sts	78	62	76	67
These 18 States harvested 96% of last year's soybean acreage.				

Sorghum Percent Mature				
	Prev Year	Prev Week	Oct 22 2023	5-Yr Avg
CO	85	93	99	93
KS	92	87	93	92
NE	92	94	99	96
OK	98	85	93	92
SD	100	100	100	95
TX	100	100	100	98
6 Sts	94	92	96	94
These 6 States planted 100% of last year's sorghum acreage.				

Sorghum Percent Harvested				
	Prev Year	Prev Week	Oct 22 2023	5-Yr Avg
CO	46	23	44	48
KS	51	39	57	45
NE	52	35	54	53
OK	53	42	52	52
SD	67	50	65	54
TX	100	92	97	93
6 Sts	66	53	67	61
These 6 States harvested 100% of last year's sorghum acreage.				

Crop Progress and Condition

Week Ending October 22, 2023

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

Peanuts Percent Harvested				
	Prev Year	Prev Week	Oct 22 2023	5-Yr Avg
AL	68	63	72	63
FL	82	66	75	76
GA	70	39	53	62
NC	63	32	50	52
OK	41	19	39	39
SC	50	31	45	49
TX	40	20	35	30
VA	84	57	63	67
8 Sts	66	42	55	58
These 8 States harvested 96% of last year's peanut acreage.				

Peanut Condition by Percent					
	VP	P	F	G	EX
AL	24	29	22	23	2
FL	3	20	38	39	0
GA	1	5	43	43	8
NC	2	8	32	56	2
OK	0	0	2	98	0
SC	0	0	14	81	5
TX	0	2	61	35	2
VA	0	0	22	75	3
8 Sts	4	9	39	43	5
Prev Wk	3	11	35	46	5
Prev Yr	1	6	31	54	8

Sugarbeets Percent Harvested				
	Prev Year	Prev Week	Oct 22 2023	5-Yr Avg
ID	55	31	45	57
MI	40	20	22	43
MN	94	61	92	76
ND	93	64	87	75
4 Sts	78	50	72	67
These 4 States harvested 87% of last year's sugarbeet acreage.				

Sunflowers Percent Harvested				
	Prev Year	Prev Week	Oct 22 2023	5-Yr Avg
CO	26	34	60	44
KS	41	58	70	40
ND	37	7	24	32
SD	30	10	23	24
4 Sts	33	12	27	29
These 4 States harvested 87% of last year's sunflower acreage.				

Rice Percent Harvested				
	Prev Year	Prev Week	Oct 22 2023	5-Yr Avg
AR	97	94	96	94
CA	73	45	60	84
LA	100	100	100	100
MS	93	100	100	94
MO	96	90	93	90
TX	100	96	97	100
6 Sts	93	88	91	93
These 6 States harvested 100% of last year's rice acreage.				

Winter Wheat Percent Planted				
	Prev Year	Prev Week	Oct 22 2023	5-Yr Avg
AR	32	28	37	42
CA	20	10	20	21
CO	97	94	96	96
ID	91	84	97	93
IL	63	47	73	66
IN	62	40	57	67
KS	74	70	85	79
MI	83	44	56	74
MO	49	32	50	43
MT	92	76	78	86
NE	96	96	99	96
NC	22	9	17	17
OH	81	52	73	80
OK	69	64	71	75
OR	87	54	70	77
SD	95	90	94	95
TX	74	62	68	69
WA	94	87	95	92
18 Sts	78	68	77	78
These 18 States planted 88% of last year's winter wheat acreage.				

Winter Wheat Percent Emerged				
	Prev Year	Prev Week	Oct 22 2023	5-Yr Avg
AR	8	10	16	21
CA	5	0	5	7
CO	64	59	70	71
ID	55	36	55	59
IL	16	15	36	34
IN	22	10	23	35
KS	44	38	57	55
MI	55	26	44	48
MO	17	6	16	22
MT	75	57	62	60
NE	84	84	89	83
NC	7	5	6	6
OH	27	12	34	47
OK	39	31	52	56
OR	43	18	32	34
SD	61	57	69	71
TX	45	35	45	45
WA	71	61	68	65
18 Sts	47	39	53	53
These 18 States planted 88% of last year's winter wheat acreage.				

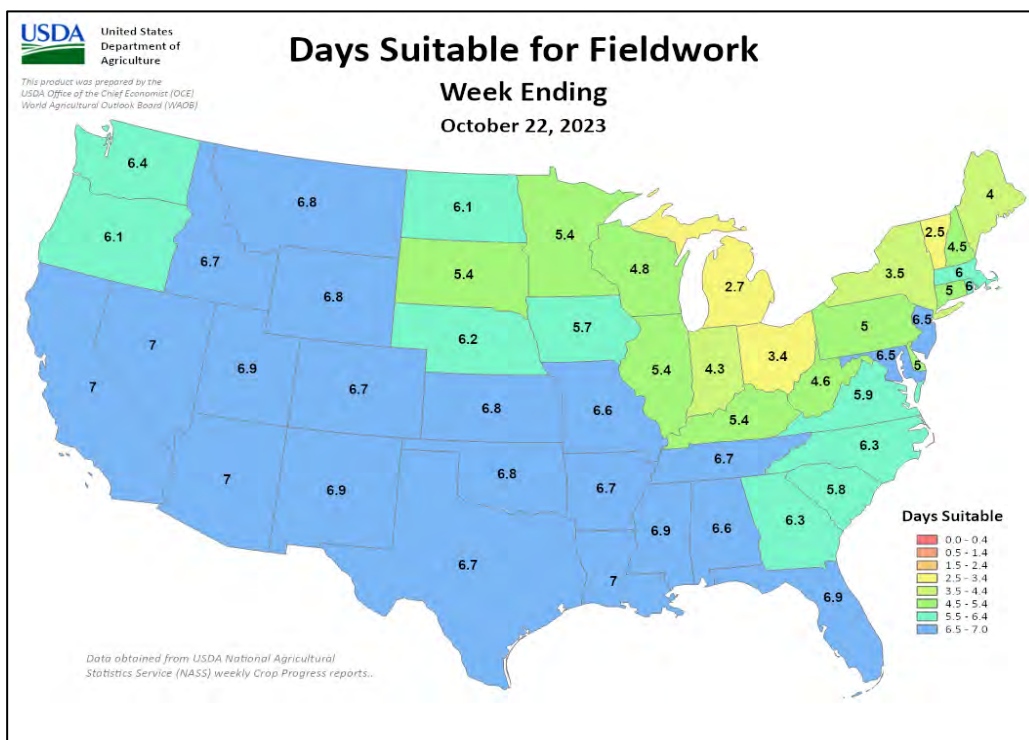
Crop Progress and Condition**Week Ending October 22, 2023**

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

Pasture and Range Condition by Percent Week Ending Oct 22, 2023												
	VP	P	F	G	EX		VP	P	F	G	EX	
AL	12	33	29	26	0		NH	0	0	26	66	8
AZ	26	34	23	17	0		NJ	1	1	24	72	2
AR	14	25	35	24	2		NM	11	27	37	11	14
CA	15	20	35	25	5		NY	4	14	27	39	16
CO	5	7	20	55	13		NC	2	8	49	39	2
CT	0	50	50	0	0		ND	2	12	37	49	0
DE	1	15	34	43	7		OH	2	9	43	43	3
FL	2	8	34	35	21		OK	19	22	31	26	2
GA	6	13	42	36	3		OR	22	27	33	18	0
ID	0	26	36	25	13		PA	0	1	26	71	2
IL	21	24	35	20	0		RI	0	0	0	100	0
IN	8	21	41	28	2		SC	10	33	44	13	0
IA	15	32	34	17	2		SD	6	6	29	47	12
KS	27	31	32	9	1		TN	6	18	45	29	2
KY	17	26	30	25	2		TX	37	30	26	6	1
LA	33	32	28	7	0		UT	0	9	29	53	9
ME	7	19	42	31	1		VT	13	5	33	49	0
MD	14	23	25	36	2		VA	6	29	33	31	1
MA	0	15	25	55	5		WA	37	36	13	14	0
MI	3	24	36	33	4		WV	4	13	30	53	0
MN	20	34	33	12	1		WI	9	21	40	28	2
MS	29	31	27	12	1		WY	0	8	26	65	1
MO	19	44	27	10	0		48 Sts	18	22	29	27	4
MT	18	19	27	34	2							
NE	6	12	38	36	8		Prev Wk	16	21	30	28	5
NV	0	10	25	60	5		Prev Yr	23	26	29	19	3

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

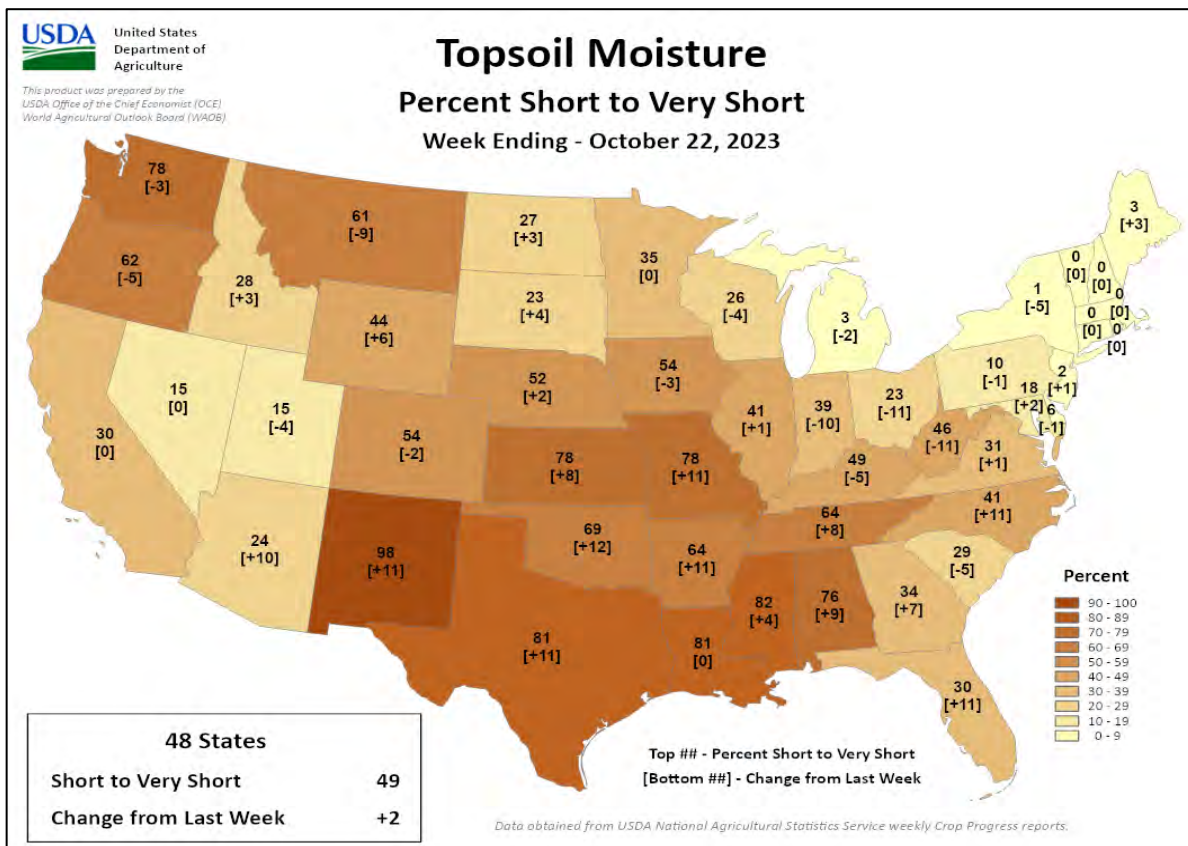
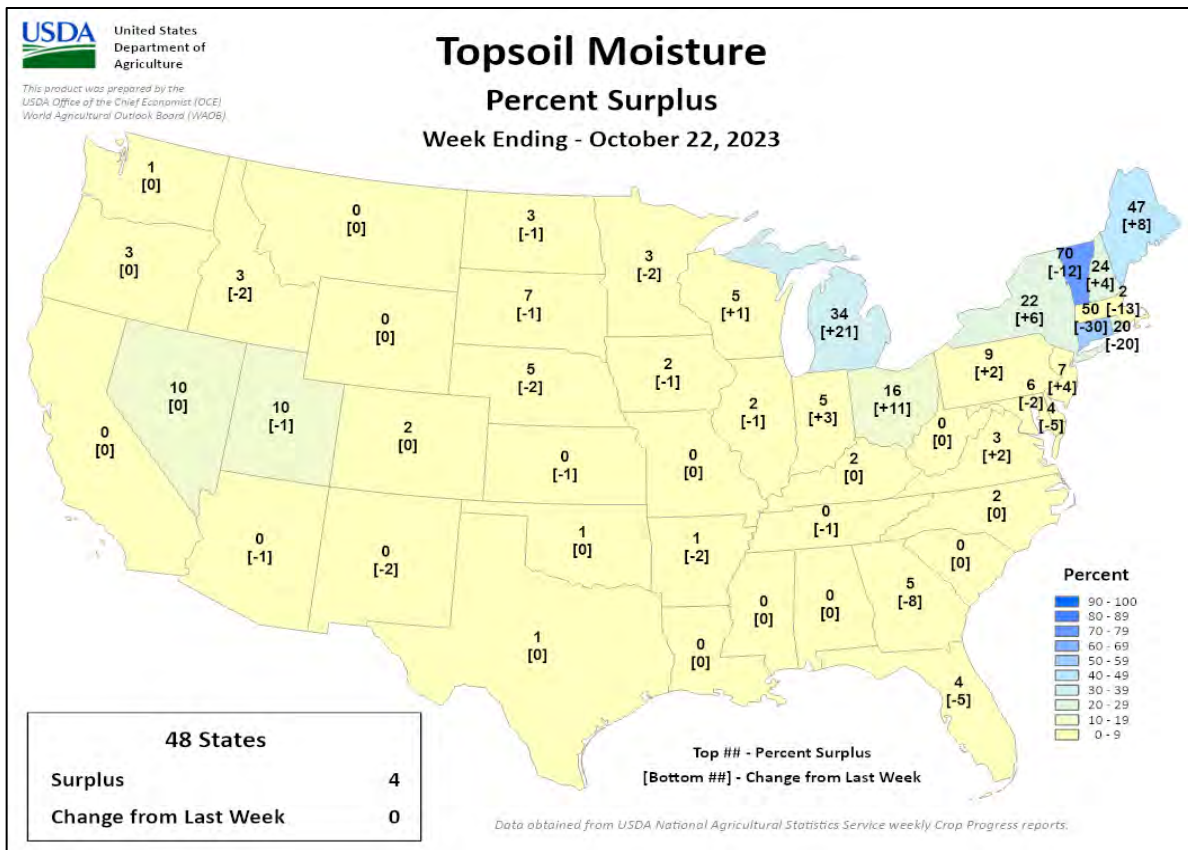
NA - Not Available
* Revised



Crop Progress and Condition

Week Ending October 22, 2023

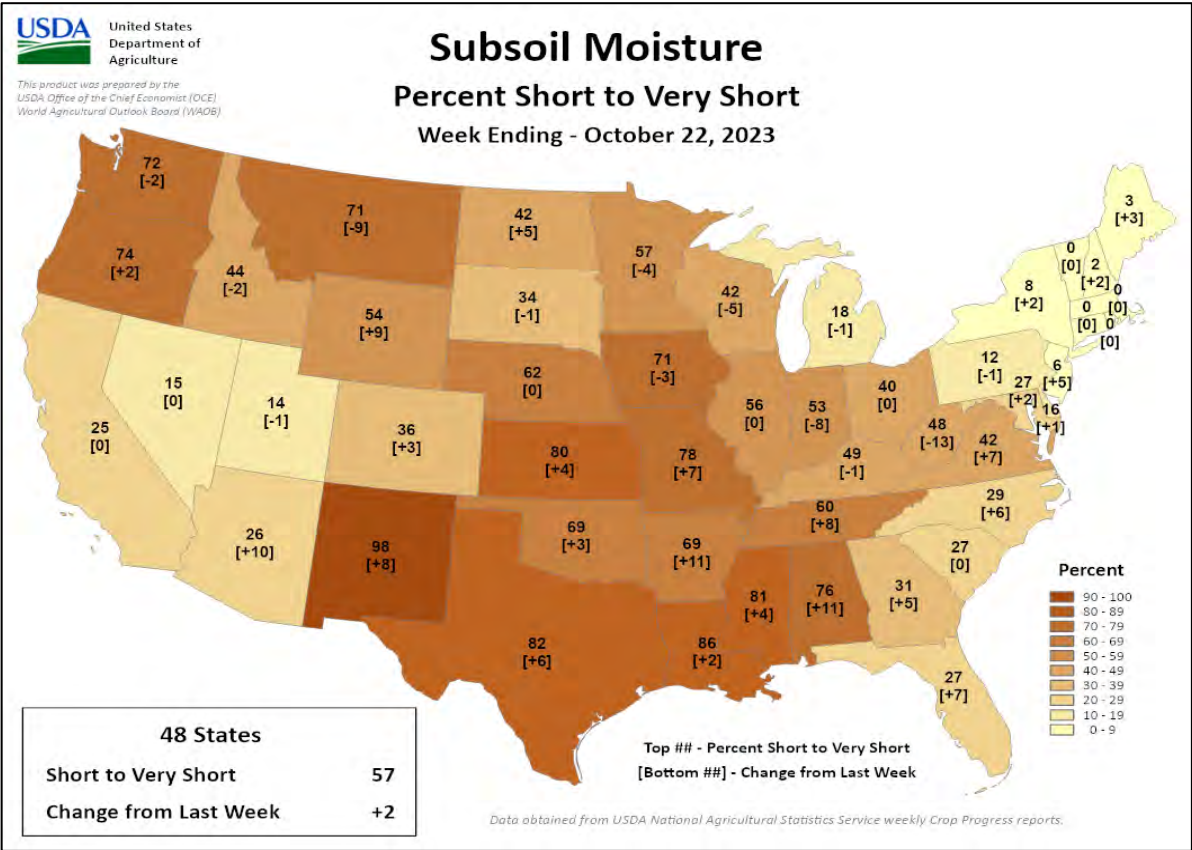
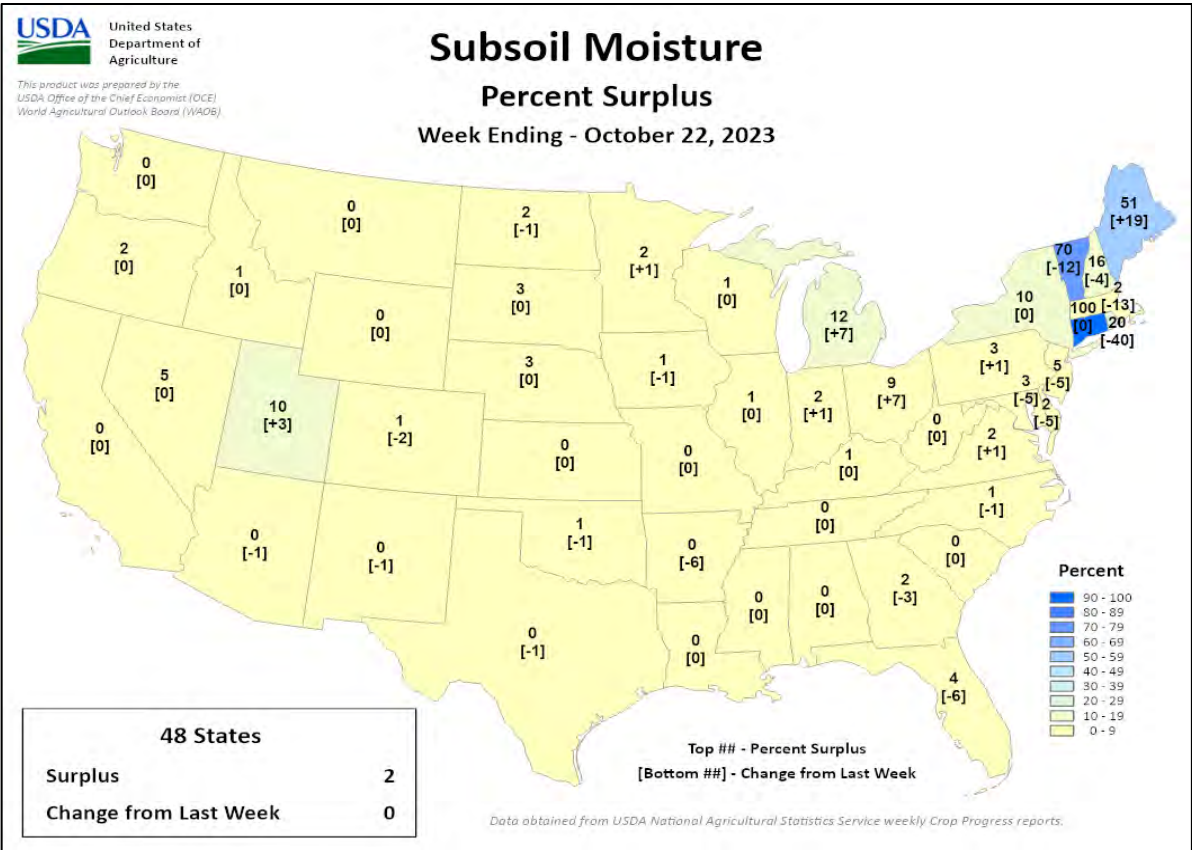
Weekly U.S. Progress and Condition Data provided by USDA/NASS



Crop Progress and Condition

Week Ending October 22, 2023

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



International Weather and Crop Summary

October 15-21, 2023

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

HIGHLIGHTS

EUROPE: Widespread moderate to heavy rain moistened soils for winter crops, though unfavorably dry weather lingered over the Danube River Valley.

WESTERN FSU: Rain expanded northeastward across central and northern portions of the region, while dry weather returned to southwestern Russia and environs.

MIDDLE EAST: Widespread albeit highly variable showers in the north contrasted with seasonably dry conditions in central and southern growing areas.

SOUTH ASIA: The southwest monsoon fully withdrew from the region, as seasonably drier weather prevailed in most locales.

EAST ASIA: Light showers aided wheat and rapeseed establishment in China.

SOUTHEAST ASIA: Flooding in central Vietnam contrasted with uncharacteristic dryness in southern Indonesia.

AUSTRALIA: Hot, dry weather favored drydown and harvesting of mature winter crops but deterred sowing of dryland summer crops.

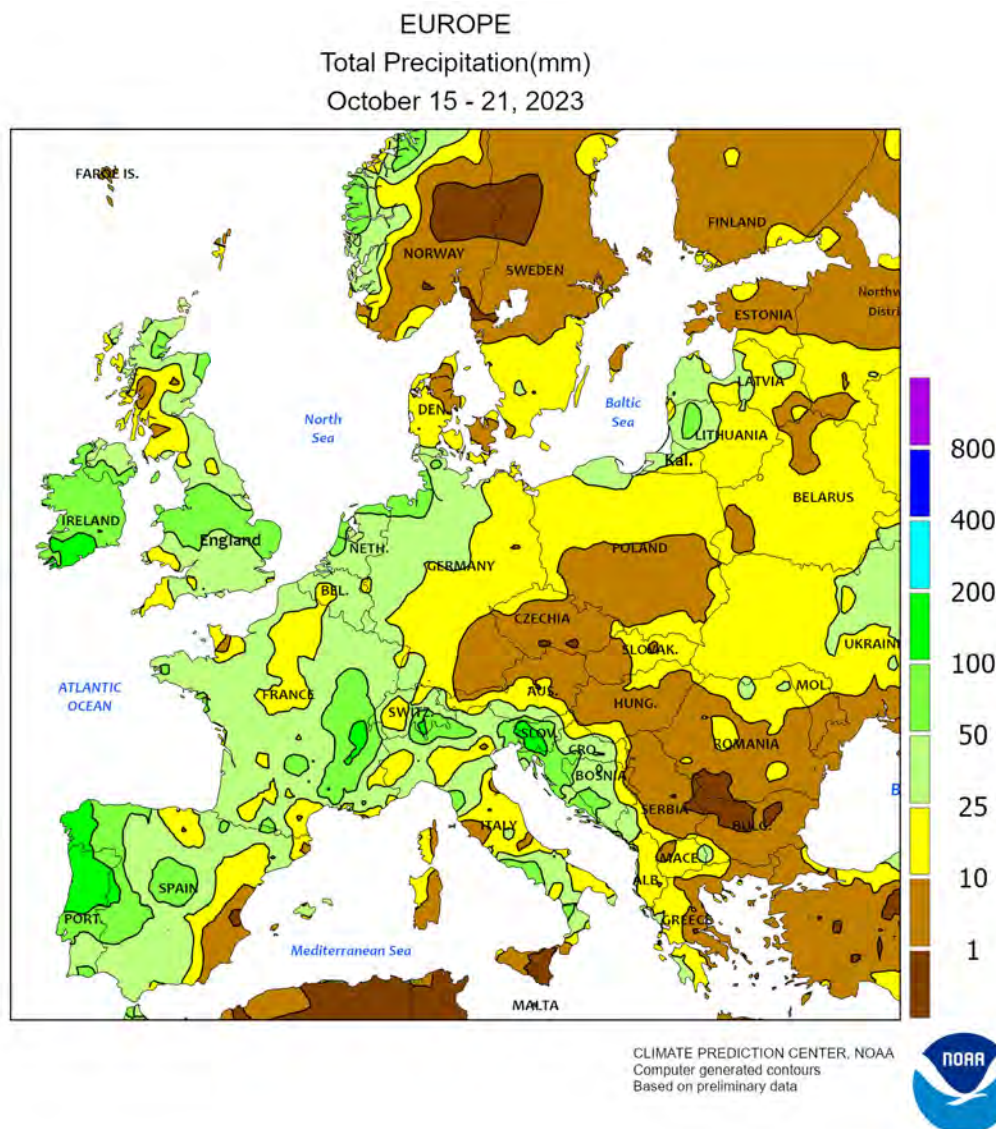
SOUTH AFRICA: Rain benefited summer crops in eastern farming areas.

ARGENTINA: Warm weather spurred growth of winter grains and emerging summer crops, but western crops were growing with limited moisture.

BRAZIL: Conditions remained overall favorable for corn and soybeans in southern production areas, while farming areas in central Brazil were in need of rain.

MEXICO: Mostly dry weather prevailed prior to the arrival of Hurricane Norma.



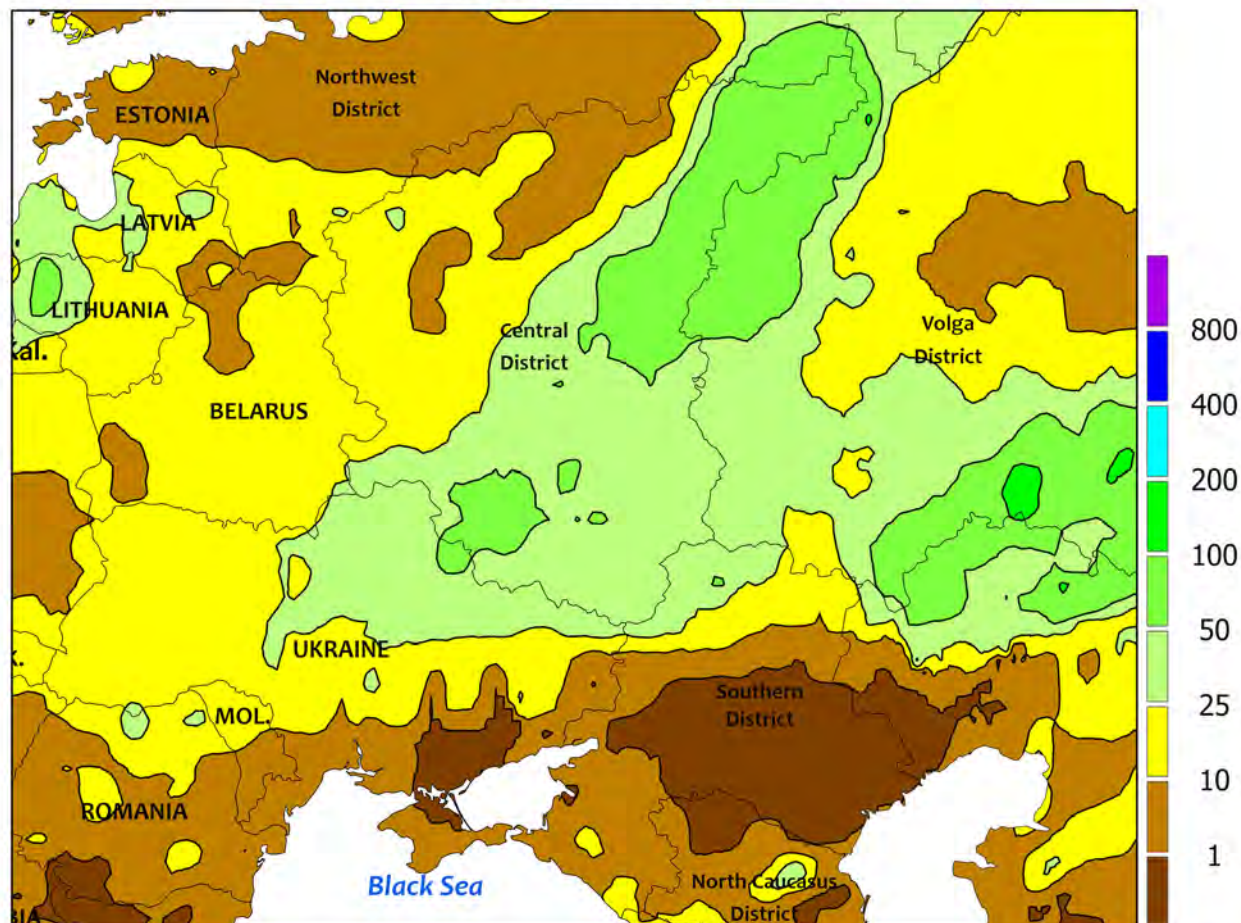


EUROPE

Widespread rain overspread much of the continent, though locally dry conditions persisted across the Danube River Valley. The large area of high pressure which had dominated the weather over Europe for the past month dissipated, allowing a series of potent Atlantic storms to sweep eastward. Rainfall was moderate to heavy, with weekly totals tallying 10 to 100 mm over vast tracts of farmland in western, central, and northern Europe. Furthermore, locally heavy to excessive rain (100-250 mm) was noted in Portugal, Spain, southeastern France, northern Italy, as well as

southern portions of England and Ireland. The widespread soaking eased or eliminated moisture deficits and improved prospects for winter crop establishment. Despite the overall wet weather pattern, dry conditions (5 mm or less) were noted over the Danube River Basin, further reducing soil moisture for winter crops from Hungary into the lower Danube River Valley. Warmer-than-normal conditions (2-4°C above normal) over much of southern Europe contrasted with below-normal temperatures (up to 3°C below normal) in northeastern portions of the continent.

WESTERN FSU
Total Precipitation(mm)
October 15 - 21, 2023



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



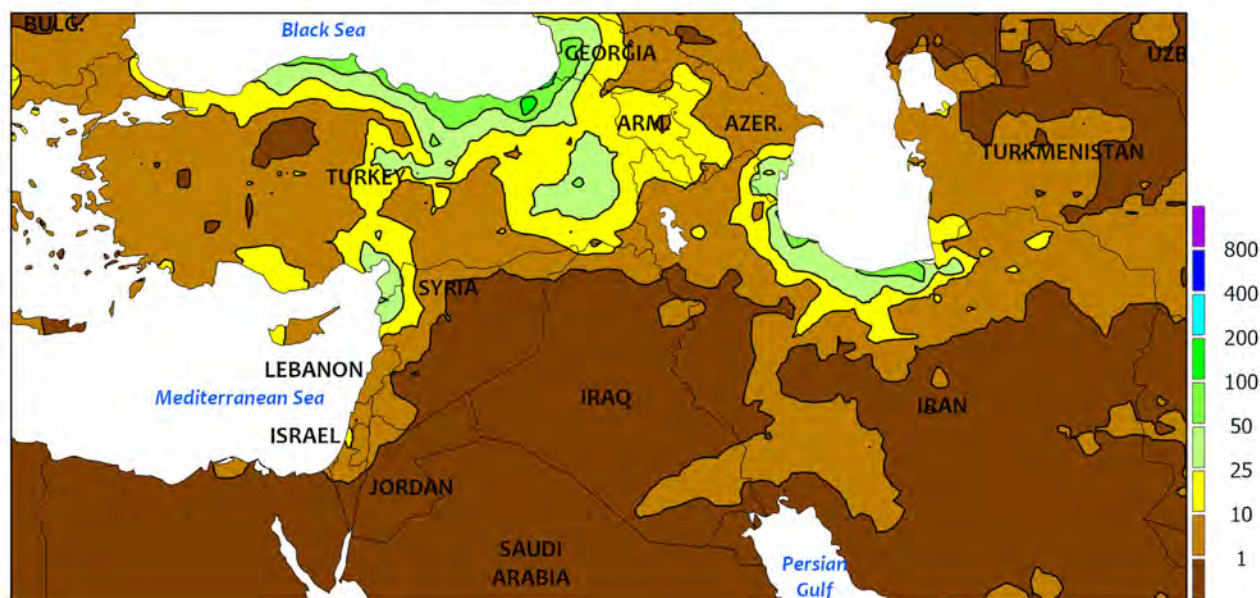
WESTERN FSU

Expanding rain across much of the region contrasted with the return of dryness to southwestern Russia. Moderate to heavy rainfall (10-60 mm, locally more) expanded northeastward across northern Moldova, central and northern Ukraine, Belarus, and western Russia, easing moisture deficits and improving prospects for winter grain and oilseed establishment. Conversely, dry weather returned to southwestern Russia and environs following the preceding week's much-needed rain, renewing concerns over insufficient soil moisture for winter wheat

establishment; winter crops typically go dormant by late November in southwestern Russia's Steppe Region. Temperatures averaged near to above normal over primary winter crop areas adjacent to the Black Sea, with the greatest anomalies (up to 4°C above normal) noted in south-central Ukraine.

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

MIDDLE EAST
Total Precipitation(mm)
October 15 - 21, 2023



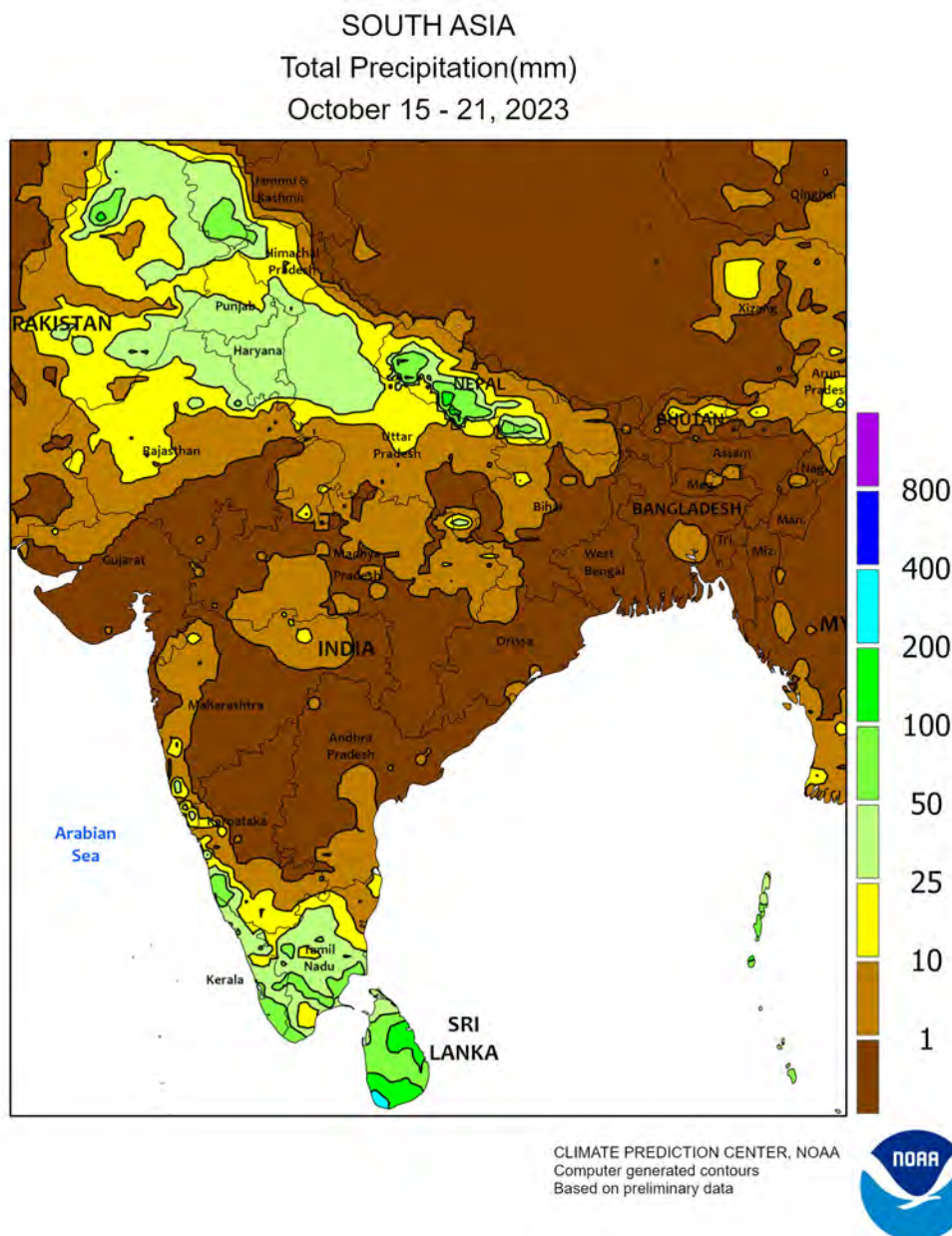
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data



MIDDLE EAST

Showers in the north contrasted with seasonably dry weather in central and southern growing areas. Widespread albeit highly variable showers and thunderstorms were noted from Turkey and the eastern Mediterranean Coast into northern Iran, though the heaviest rain (25 mm or more) fell outside the region's primary winter crop areas along the Black and Caspian Sea Coasts. However, showers totaling 10 to 50 mm were noted in southeastern Turkey and adjacent portions of northwestern Syria as well as the

Armenian Highlands of eastern Turkey; the former conditioned soils for winter grain planting and emergence while the latter improved irrigation reserves. Seasonably dry weather prevailed from eastern Syria into southern and central Iran, with rain and mountain snow typically returning by late-October or early November. Temperatures during the monitoring period averaged near normal save for warmer-than-normal conditions (up to 2°C above normal) in northwestern Turkey and southeastern Iran.

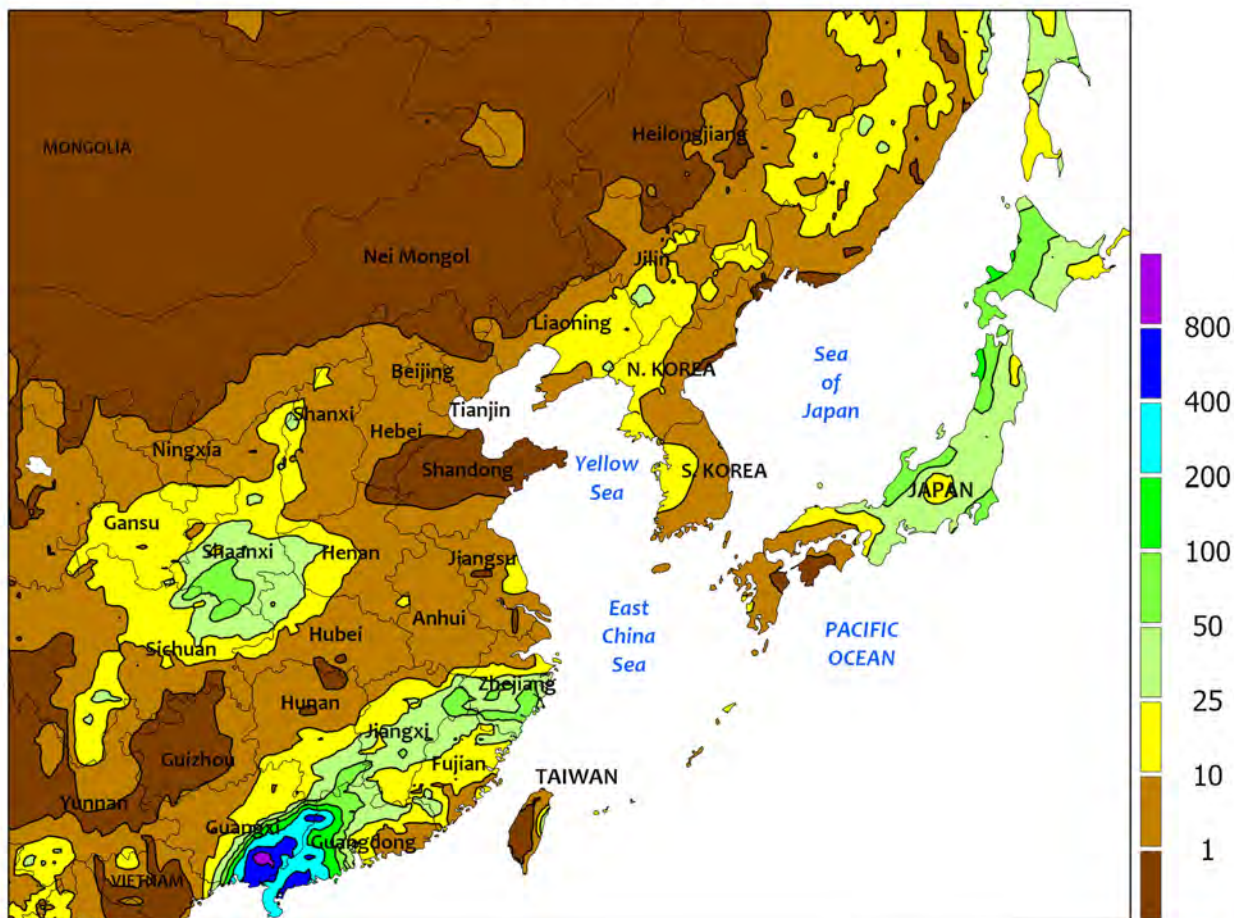


SOUTH ASIA

The southwest monsoon reportedly fully withdrew from India and the surrounding areas on October 19 (according to the Indian Meteorological Department). As such, dry weather extended throughout most of India and environs, benefiting kharif crop maturation as well as the start of rabi crop sowing. However, showers (as much as 70 mm)

lingered in southern-most India up to the point of full monsoon retreat, mainly supporting moisture supplies for rabi crop establishment. Additionally, a brief period of mid-latitude (non-monsoon) showers (in excess of 100 mm locally) in northern India and Pakistan was unfavorable for cotton and rice harvesting.

EASTERN ASIA
Total Precipitation(mm)
October 15 - 21, 2023



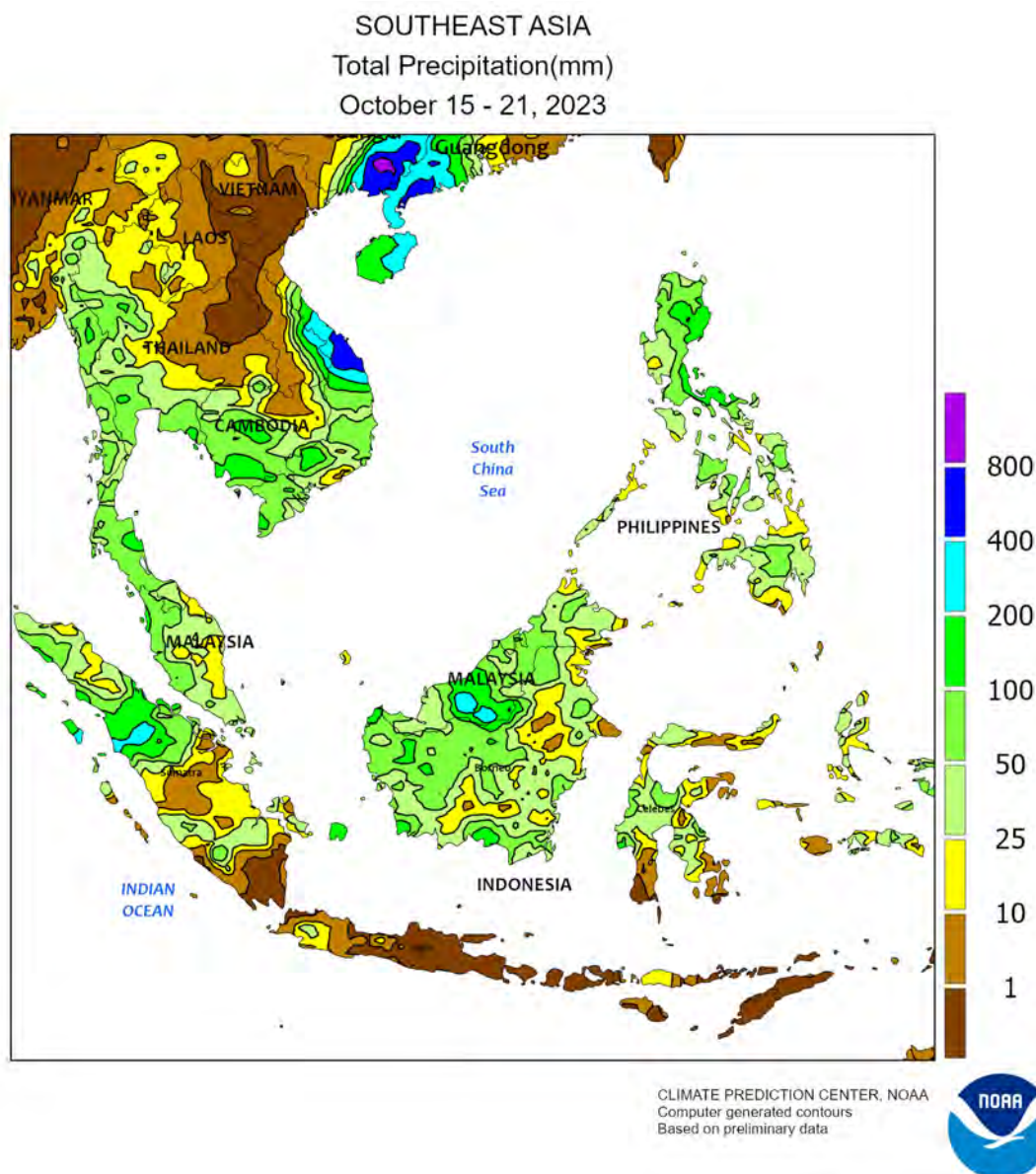
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary data



EASTERN ASIA

A front moved through eastern China during the latter half of the period, producing light rainfall (less than 10 mm) across the North China Plain and into much of the Yangtze Valley; higher amounts (approaching 60 mm) were recorded in the upper Yangtze Valley and neighboring areas. The moisture along with unseasonable warmth

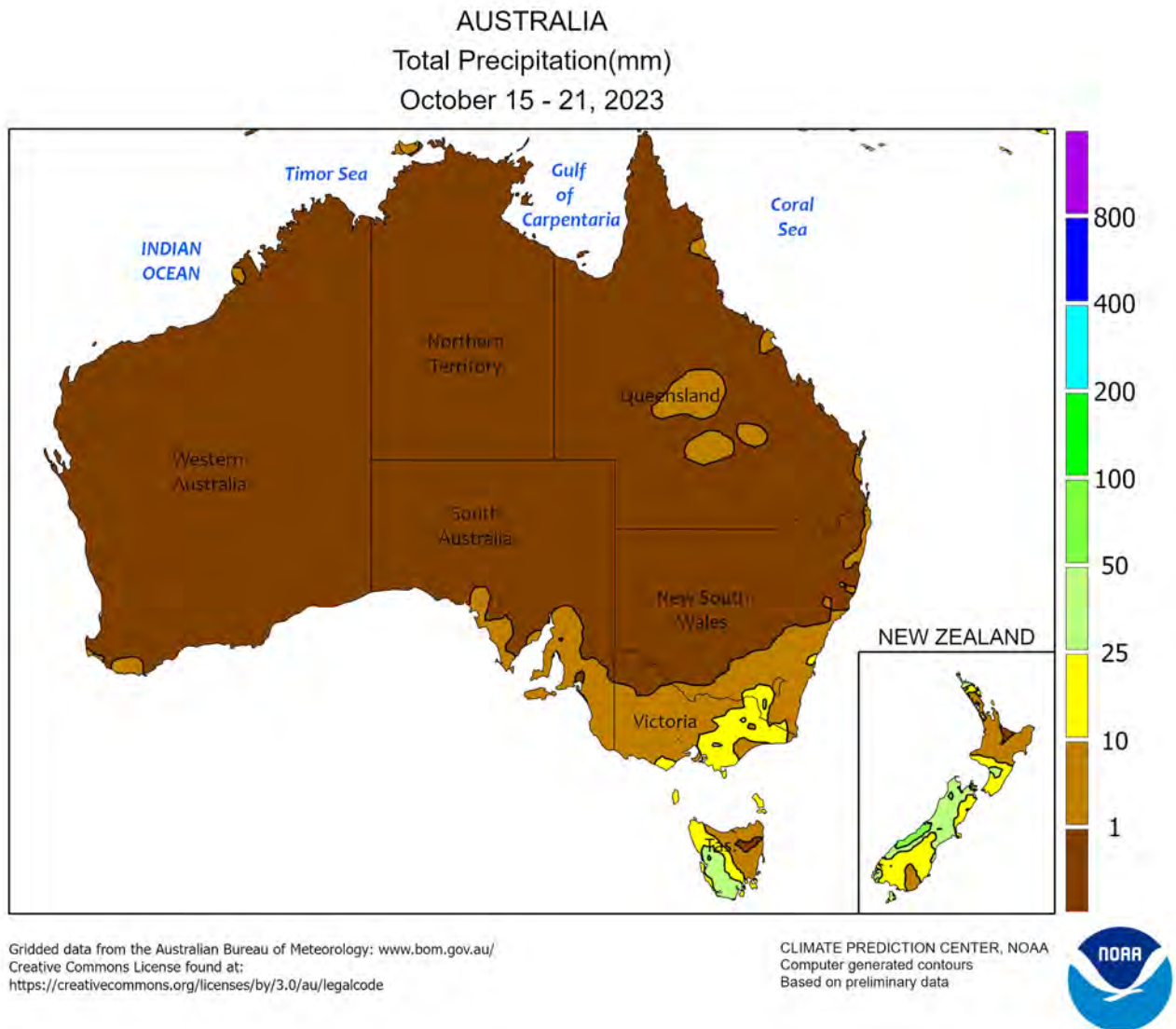
benefited wheat and rapeseed establishment. Meanwhile, a weak tropical cyclone (Sanba) brought downpours (topping 500 mm) and localized flooding to southern-most portions of China before the remnants tracked inland, bringing lesser amounts (approaching 70 mm) to southeastern provinces.



SOUTHEAST ASIA

A weak tropical cyclone (Sanba – maximum sustained winds of 40 kts) brought downpours (topping 450 mm) and flooding to minor rice areas of central Vietnam, while little if any rain occurred in key northern-producing areas. Similarly, showers were generally lighter than normal (less than 25 mm) in northeastern Thailand which was of benefit to ripening wet-season rice. Meanwhile, wet weather (25-100 mm or more) throughout much of the Philippines hampered main-season rice ripening but was not overall detrimental to the crop. In fact, the precipitation boosted irrigation supplies

for the next cropping cycle (beginning in November). Elsewhere, showers (25-100 mm or more) slowed oil palm harvesting in Malaysia and Indonesia but maintained good soil moisture for trees. In contrast, the rainy season had yet to begin in southern Indonesia (Java), which on average begins by October 21 in western Java; dating back to August 1, rainfall deficits are over 170 mm (totals less than 25 percent of normal). The lack of moisture was discouraging rice sowing, with irrigation supplies at a typical low point after the climatological dry season.

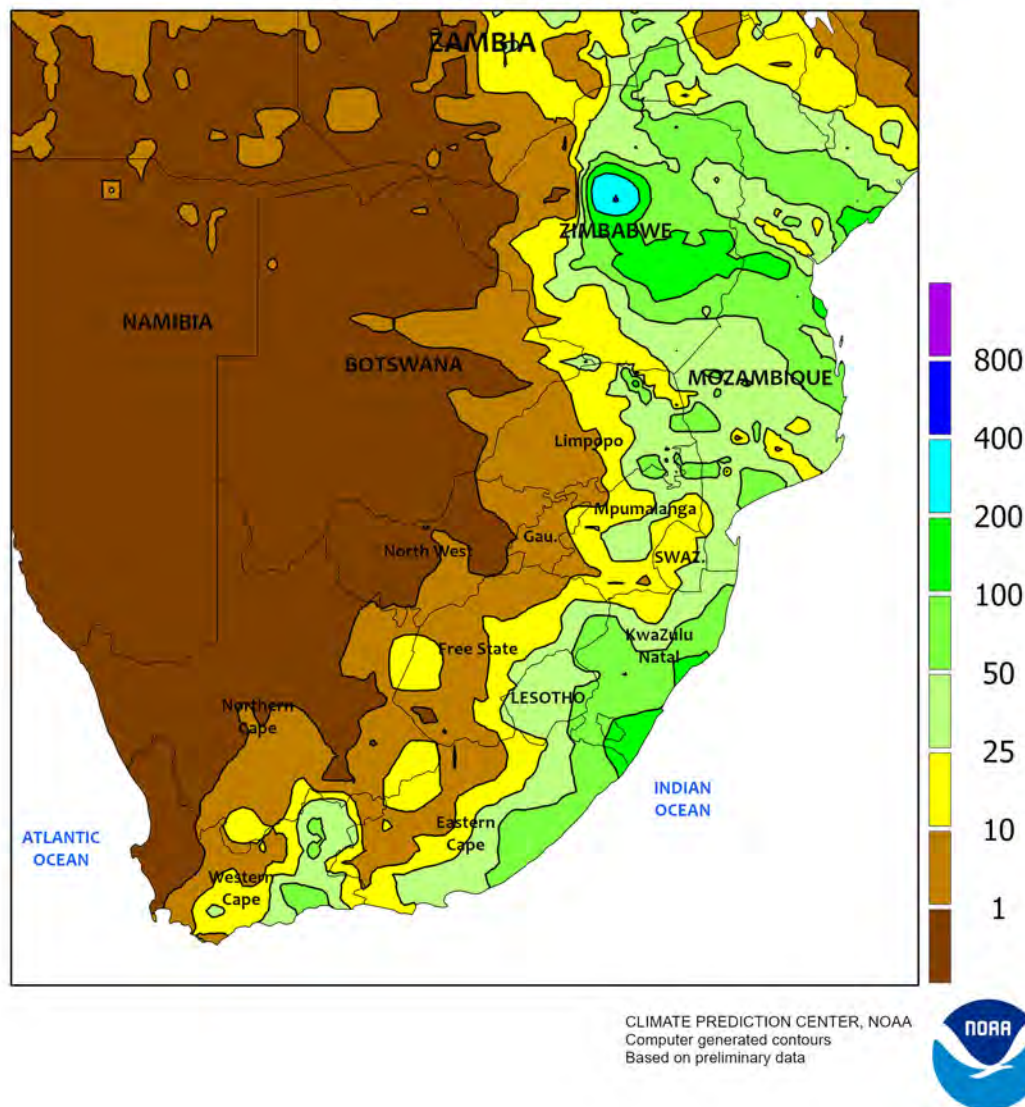


AUSTRALIA

Aside from some light showers (generally less than 5 mm) along the southeastern edge of the wheat belt, dry weather prevailed in most major agricultural areas. Hot weather accompanied the dryness as well, promoting drydown of maturing winter grains and oilseeds. Harvesting was reportedly making good progress in northern portions of the wheat belt and was beginning to gain momentum in the south.

However, the dry weather remained unfavorable for immature winter crops and likely trimmed yield prospects further. In the east, the heat and dryness continued to deter planting of dryland summer crops, including sorghum and non-irrigated cotton. Maximum temperatures were in the lower to middle 30s (degrees C) in southern and eastern Australia and in the middle to upper 30s in the west.

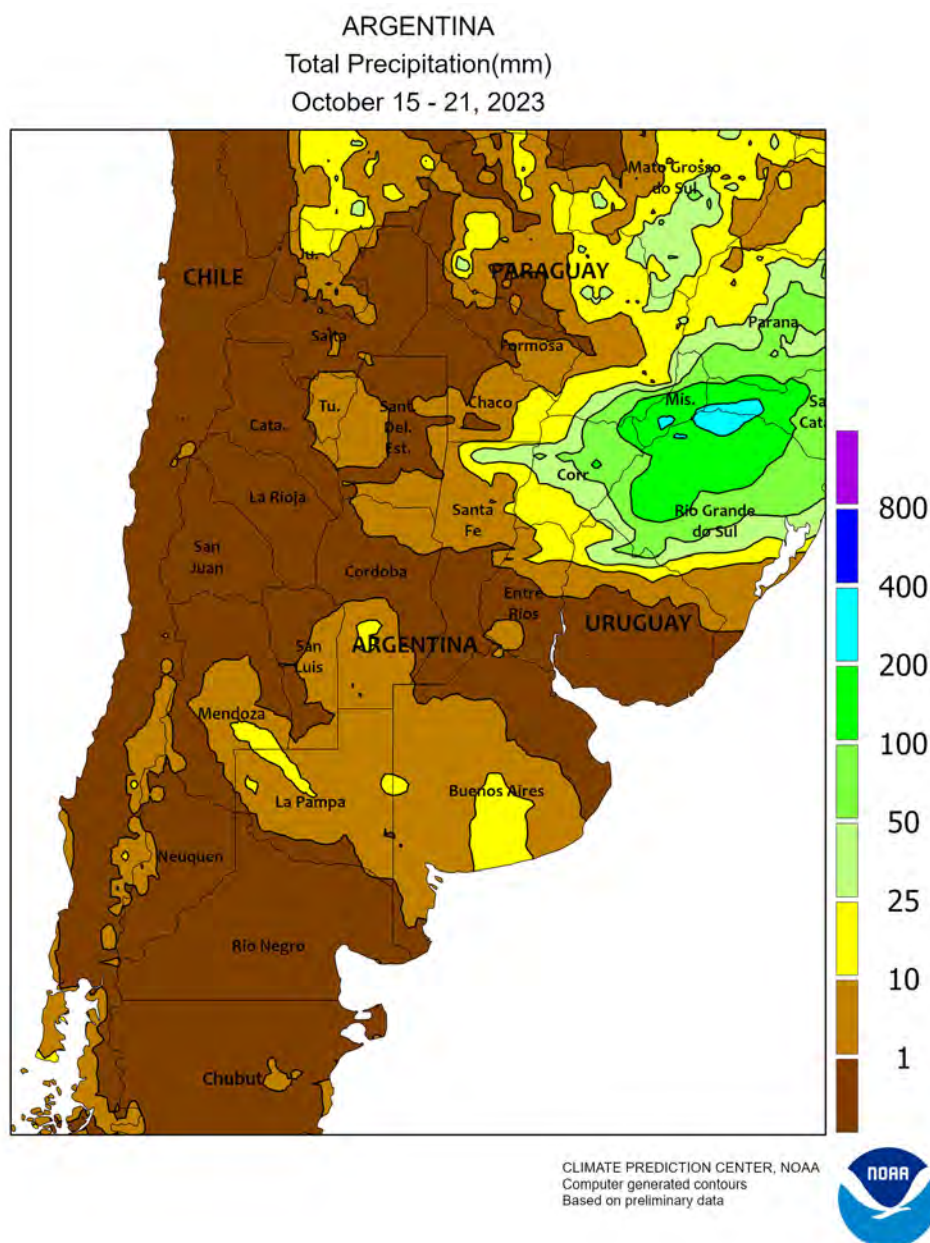
SOUTH AFRICA
Total Precipitation(mm)
October 15 - 21, 2023



SOUTH AFRICA

Showers benefited summer crops in eastern commercial farming areas. The heaviest rainfall (50 to locally more than 100 mm) was concentrated along the coasts of Eastern Cape and KwaZulu-Natal, reaching inland into rain-fed sugarcane areas in southern KwaZulu-Natal. Somewhat lighter rain (5-25 mm) fell farther north, helping to condition fields for summer crop planting and providing moisture for early development of corn and sugarcane in Mpumalanga.

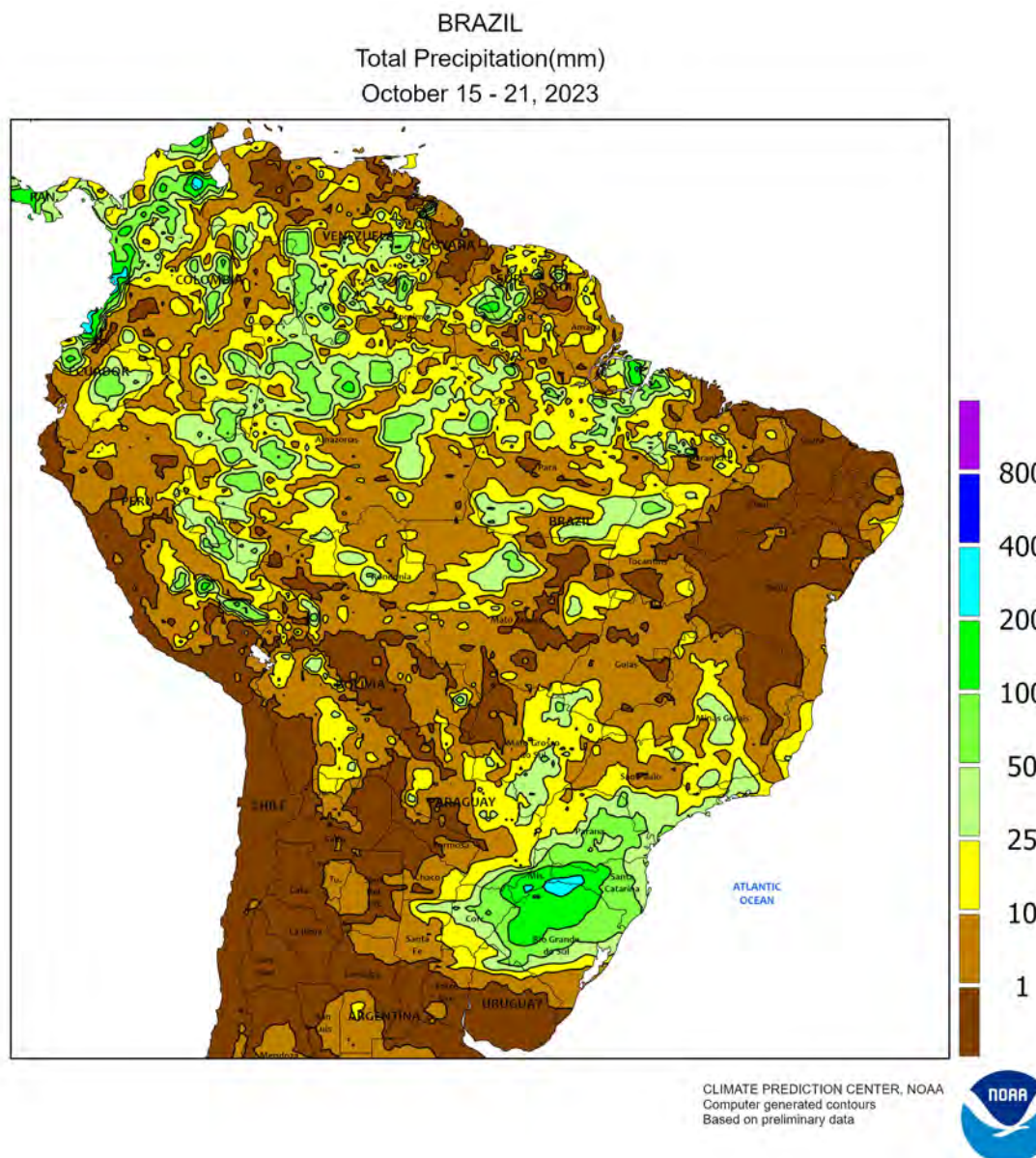
Seasonably drier conditions continued in central and western sections of the corn belt (notably Gauteng, Free State, and North West), where planting generally occurs in November and December. Meanwhile, scattered, locally heavy rain (10-50 mm) increased moisture in southern and eastern sections of Western Cape, as warm, mostly dry weather (daytime highs reaching the middle 30s degrees C) spurred growth of irrigated tree and vine crops farther west.



ARGENTINA

Warm, sunny weather promoted rapid development of winter grains and emerging summer crops, though many locations remained unseasonably dry. As in recent weeks, heavy rain (25-100 mm) was concentrated over the far northeast (Corrientes and Misiones), but mostly dry weather prevailed elsewhere, with few locations reporting more than 5 mm. Seasonal rainfall should be on the rise throughout Argentina's main agricultural areas at this time of year and many locations remained too dry for planting corn and other summer crops, especially in key western

production areas. Weekly temperatures averaged 1 to 2°C above normal nearly regionwide, although hotter weather (temperatures up to 6°C above normal) centered over Paraguay reached into northern farming areas. Highest daytime temperatures ranged from the middle 20s (degrees C) in Buenos Aires to the middle 40s in the far north (Chaco and environs). Freezes were confined to southeastern Buenos Aires, although nighttime lows dropped below 10°C as far north as Santiago del Estero, sustaining low rates of crop growth.



BRAZIL

Wet weather continued in southern farming areas, while farther north, showers remained widely scattered and generally light. Rainfall totaled 10 to 50 mm over much of the region spanning Rio Grande do Sul northward into southern sections of Mato Grosso do Sul and Minas Gerais. Moisture was overall favorable for early development of summer crops, although moisture was excessive in much of Rio Grande do Sul, likely slowing fieldwork and raising concern for the quality of unharvested wheat. According to the government of Rio Grande do Sul, corn was 70 percent planted as of October 19, and 19 percent of wheat had been harvested. In Paraná, first-crop corn and soybeans were 89 and 46 percent planted, respectively, as of

October 17, while wheat was 80 percent harvested. Farther north, aside from a few widely scattered heavy showers (greater than 25 mm), mostly dry weather prevailed, promoting a rapid pace of soybean planting. According to the government of Mato Grosso, soybeans were 60 percent planted as of October 20, still lagging last year's pace (67 percent) but ahead of the 5-year average (51 percent). However, hot weather (daytime highs reaching the upper 30s and lower 40s degrees C) maintained high evaporative losses throughout central and northeastern Brazil. In fact, the heat extended southward into western farming areas of Paraná, speeding germination of crops in fields with sufficient levels of soil moisture.



RECENT RECORD LOW WATER STAGES on the Mississippi River

Gage Location	Record Low Stage (Date)	Previous Record (Year)
Cairo	4.54 ft 10/13/2023	4.83 ft 2022
New Madrid	-6.55 ft 10/15/2023	-5.51 ft 2022
Caruthersville	-2.98 ft 10/15/2023	-1.82 ft 2022
Osceola	-11.80 ft 10/16/2023	-11.60 ft 2022
Memphis	-12.04 ft 10/17/2023	-10.81 ft 2022
Helena	-5.11 ft 10/18/2023	-4.20 ft 1988

According to the National Weather Service and the U.S. Army Corps of Engineers, preliminary modern-day records for low river levels were set in mid-October at several gauges from Cairo, Illinois, just above where the Ohio River joins the Mississippi River, downstream to Helena, Arkansas. In many cases, previous records were set just a year ago, in October 2022. In the case of Helena, the previous low-water mark had been established on July 11, 1988.

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