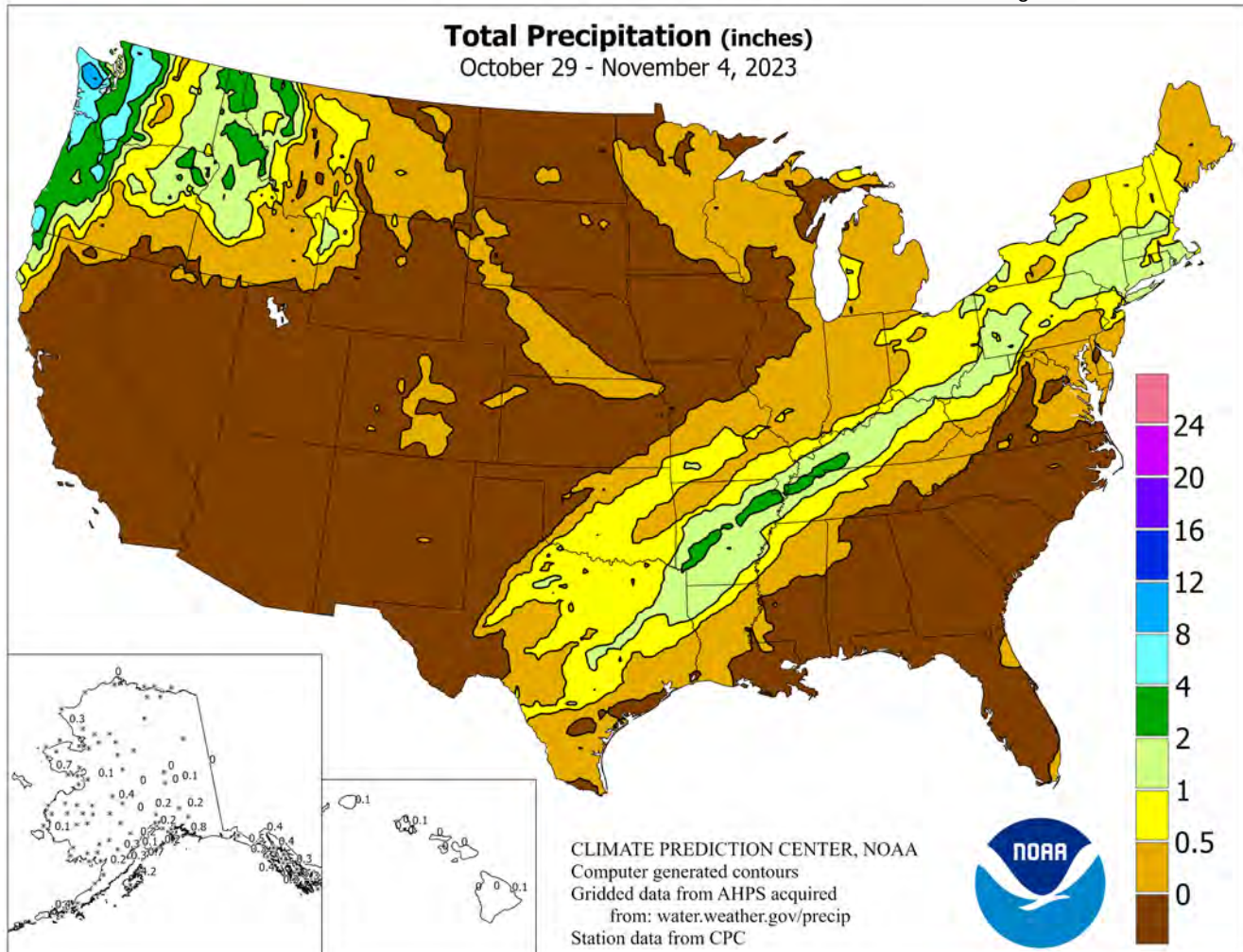


WEEKLY WEATHER AND CROP BULLETIN

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 29 – November 4, 2023

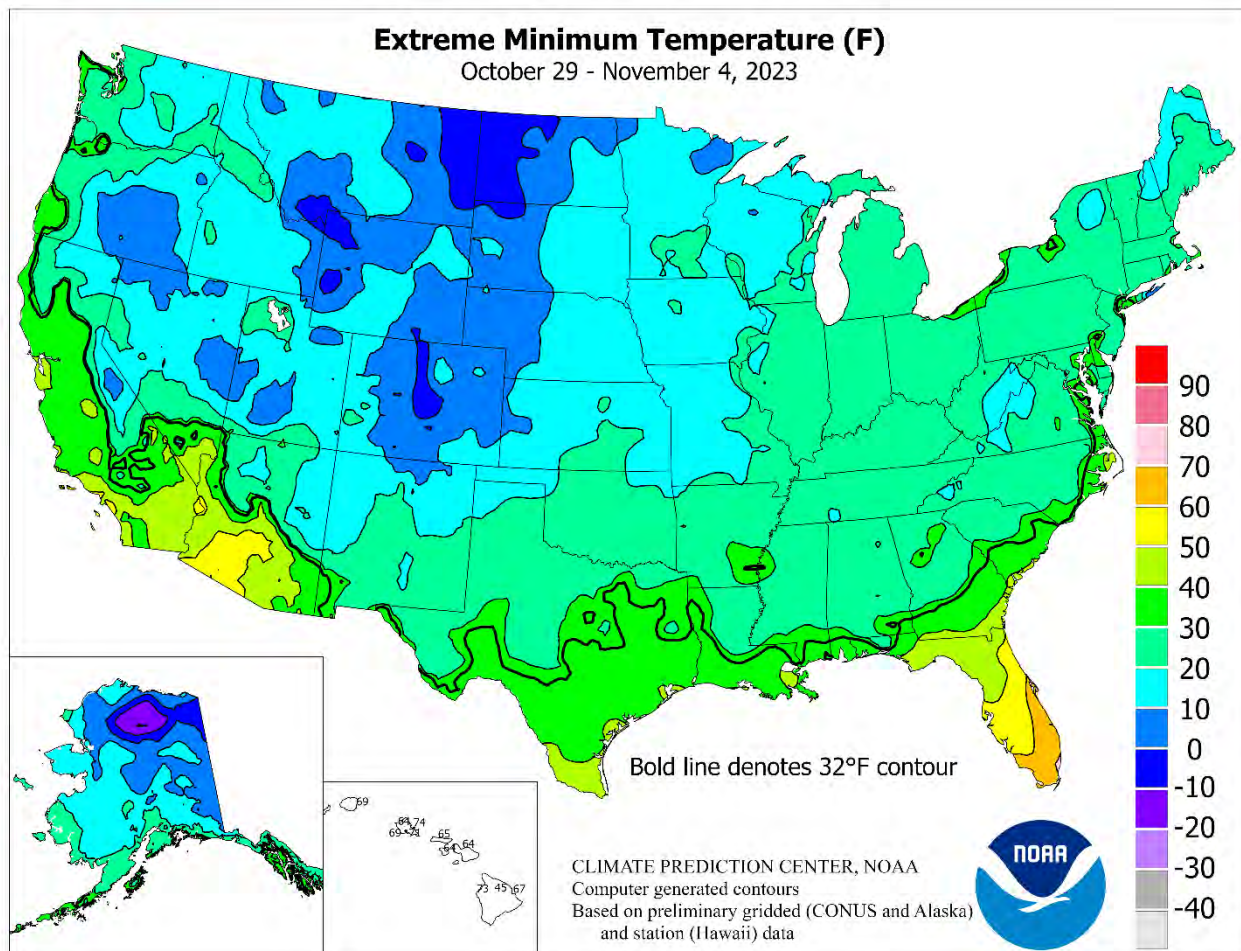
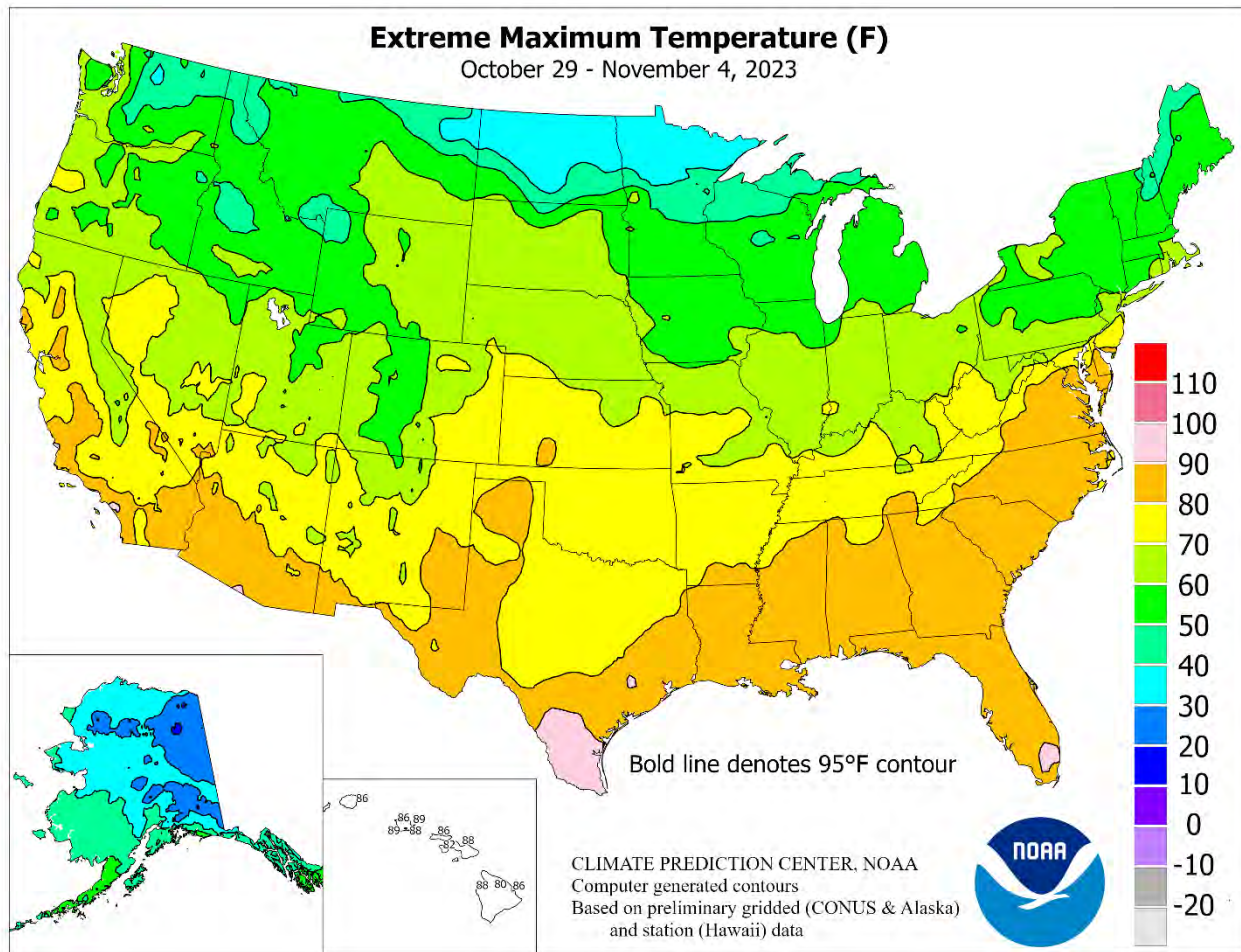
Highlights provided by USDA/WAOB

Shower activity in the vicinity of a strong cold front diminished early in the week, although localized totals of 1 to 2 inches or more were observed in late October from parts of **Texas to New England**. Dry weather persisted, however, in much of the **Southeast**, where worsening drought favored fieldwork but hampered the emergence and establishment of recently planted winter grains and cover crops. Dry weather also covered large sections of the **Plains** and **upper Midwest**, allowing autumn fieldwork—including harvest activities and winter wheat

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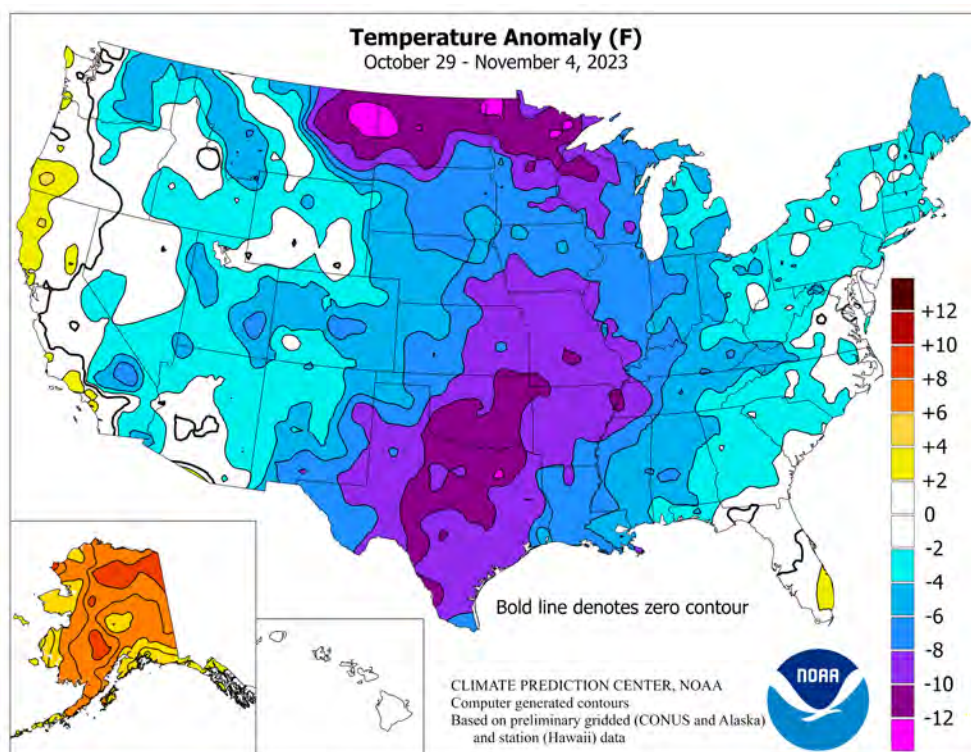


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planting—to near completion in many areas. By November 5, U.S. corn and soybeans were 81 and 91 percent harvested, respectively, versus the 5-year averages of 77 and 86 percent. Dry weather also stretched from **California to the central and southern Rockies**, while showery weather unfolded from the **Pacific Northwest to the northern Rockies**. Precipitation was especially heavy from the **Cascades westward**, although periods of snow blanketed higher elevations of the **northern Rockies**. By early November, the growing season had ended nationwide, except in traditionally warmer areas of the **Deep South, Far West, and Desert Southwest**. For many areas, the first autumn freeze occurred roughly on par with average or on a later-than-normal date. In parts of the **South**, however, the freeze was a bit ahead of schedule. Weekly temperatures averaged at least 10°F below normal across portions of the **nation's mid-section**. Some of the coldest weather, relative to normal, stretched from **eastern Montana to northern Minnesota**. In contrast, warmer-than-normal weather covered parts of the **Far West**, especially near the **Pacific Coast** and across **northern California** and **western Oregon**.

Numerous daily-record lows were set or tied during the final days of October across the **Plains, Midwest, and Northwest**. October 29 featured daily records in **Winnemucca, NV** (7°F); **Burlington, CO** (9°F); **Provo, UT** (12°F); and **Montague, CA** (16°F). On the **High Plains**, record-setting lows for October 30 dipped to 1°F in **Sidney, NE**; 7°F in **Yuma, CO**; and 11°F in **Garden City, KS**. In **Missouri**, **Vichy-Rolla** tallied a trio of daily-record lows (22, 22, and 19°F) from October 30 – November 1. Farther north, daily-record lows on October 31 included -4°F in **Dickinson, ND**, and 5°F in **Hibbing, MN**. Another daily record (4°F) occurred in **Hibbing** on November 1. In fact, November began with a slew of daily-record lows in the **central and eastern U.S.**, including two in a row in **Macon, GA** (31 and 26°F); **Parkersburg, WV** (26 and 23°F); **Bristol, TN** (26 and 21°F); and **Lynchburg, VA** (25 and 21°F). Similarly, a pair of daily-record lows occurred on November 2-3 in **Danville, VA** (23 and 24°F), and **Martinsburg, WV** (20 and 21°F). Farther west, **Midwestern** daily-record lows below the 20-degree mark occurred on November 1 in locations such as **St. Joseph, MO** (15°F); **Appleton, WI** (16°F); and **Ottumwa, IA** (17°F). Earlier, a few sub-zero readings had been observed in late October across the **north-central U.S.** including **eastern Montana** and **western North Dakota**. **Dickinson, ND**, reported minimum temperatures below the 10-degree mark on 5 of the last 6 days of October, including a daily-record low of -4°F on the 31st. In contrast, the month ended with lingering warmth in the **Southeast**, with a pair of daily-record highs occurring on October 29-30 in **Richmond, VA** (86°F both days), and **Charleston, SC** (85°F both days). By October 31, heat retreated into **southern Florida**, where daily-record highs surged to 91°F in **Miami** and 90°F in **Fort Lauderdale**. In early November, warmth developed along the **Pacific Coast**, resulting in daily-record highs in **Oceanside, CA** (85°F on the 1st), and **Portland, OR** (68°F on the 2nd). Subsequently, record-setting warmth spread across the **southern High Plains**, including the **northern panhandle of Texas**, where highs for November 3 rose to 84°F in **Borger** and 82°F in **Dalhart**.

As warmer weather arrived in **southern California**, gusty winds contributed to several wildfires rapidly spreading. Southwest of **Palm Springs, CA**, the Highland Fire—which started on October 30 and was fully contained by November 6—charred nearly 2,500 acres of



vegetation. That fire and several others in **southern California** were fanned by October 29-30 winds as high as 60 to 80 mph, with a gust to 79 mph reported in **Arrowhead Springs** on the evening of the 29th. Meanwhile, snow blanketed the **central Rockies** and adjacent **High Plains**, with October 28-29 totals in **Colorado** reaching 8.3 inches in **Colorado Springs** and 7.5 inches in **Denver**. Farther east, early-week downpours in the **mid-South** resulted in daily-record totals for October 29 topping 2 inches in **Arkansas** locations such as **Mount Ida** (3.07 inches), **Fort Smith** (2.76 inches), and **Jonesboro** (2.25 inches). Farther north, patchy snow in the **Great Lakes and Northeastern States** produced daily-record totals for October 30 in **Caribou, ME** (3.3 inches) and **Minneapolis-St. Paul, MN** (0.9 inch). An additional 1.8 inches fell in **Minneapolis-St. Paul** on the 31st. Elsewhere, it was the snowiest October 31 on record in parts of the **Great Lakes region**, including **Muskegon, MI** (8.8 inches), and **Appleton, WI** (4.5 inches). For **Muskegon**, it was also the snowiest October day on record, surpassing 4.7 inches on October 27, 1967. During the second half of the week, the focus for precipitation shifted to the **Northwest**, where **Bellingham, WA**, collected a record-setting sum (1.46 inches) for November 2. Additional **Northwestern** daily records (for November 4) included 0.90 inch in **Dallesport, WA**, and 0.70 inch in **Pendleton, OR**. Elsewhere in **Oregon**, **Roseburg's** 2.14-inch total on the 4th represented the wettest November day in that location since November 20, 2012, when 2.19 inches fell.

Warmth returned across **southeastern Alaska** and intensified across the remainder of the state. Weekly temperatures averaged at least 10°F above normal across large sections of **mainland Alaska**, with **King Salmon** posting a daily record-tying high of 53°F on October 30. In the **Aleutians**, **Cold Bay** collected consecutive daily-record highs (53°F both days) on November 1-2. Colder weather returned, however, late in the week, accompanied by widespread precipitation. By Sunday, November 5, **Anchorage** set daily records for precipitation (0.37 inch) and snowfall (6.2 inches). Farther south, increasingly gusty trade winds developed across **Hawaii** in early November, although most of the state remained very dry. On the **Big Island**, for example, **Hilo** received rainfall totaling just 0.01 inch during the first 4 days of November, well below the normal value of 1.79 inches. On **Maui**, **Kahului's** peak daily wind gust increased from 17 mph on November 1 to 41 mph on November 4.

National Weather Data for Selected Cities

Weather Data for the Week Ending November 4, 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	90 AND ABOVE	32 AND BELOW	PRECIP		
																			.01 INCH OR MORE	.50 INCH OR MORE	
AK	ANCHORAGE	39	32	42	29	35	7	0.26	-0.04	0.21	6.40	125	20.60	144	90	70	0	5	3	0	
	BARROW	26	23	34	16	24	0	0.00	-0.11	0.00	0.00	0	4.59	96	89	75	0	7	0	0	
	FAIRBANKS	28	17	35	13	23	10	0.00	-0.17	0.00	2.02	91	8.91	85	81	67	0	7	0	0	
	JUNEAU	44	37	46	32	40	3	0.41	-1.24	0.24	23.25	125	57.36	104	99	79	0	1	4	0	
	KODIAK	47	44	49	33	46	7	4.21	2.30	1.28	10.31	59	53.07	83	98	84	0	0	7	4	
	NOME	35	28	41	15	31	7	0.69	0.35	0.36	6.06	143	20.44	135	85	67	0	4	3	0	
AL	BIRMINGHAM	68	40	85	29	54	-5	0.00	-0.87	0.00	2.23	28	42.60	88	77	30	0	2	0	0	
	HUNTSVILLE	67	38	83	25	53	-5	0.05	-0.79	0.05	1.65	21	36.65	82	82	32	0	2	1	0	
	MOBILE	74	46	85	34	60	-3	0.02	-1.00	0.02	4.42	44	45.23	78	81	31	0	0	1	0	
	MONTGOMERY	72	41	86	28	57	-4	0.00	-0.74	0.00	5.87	83	41.48	97	89	35	0	1	0	0	
	FORT SMITH	59	38	77	30	49	-8	2.51	1.50	2.50	8.72	96	38.41	94	97	43	0	1	2	1	
	LITTLE ROCK	62	37	77	31	50	-6	0.81	-0.24	0.75	5.26	65	48.28	117	82	38	0	1	2	1	
AZ	FLAGSTAFF	60	23	72	18	42	-1	0.00	-0.37	0.00	1.33	37	23.05	133	47	12	0	7	0	0	
	PHOENIX	84	59	89	55	72	1	0.00	-0.12	0.00	0.09	7	2.97	49	28	10	0	0	0	0	
	PRESCOTT	69	32	78	26	50	-2	0.00	-0.17	0.00	0.64	29	9.04	80	40	8	0	4	0	0	
	TUCSON	82	53	90	46	67	0	0.00	-0.13	0.00	0.53	26	8.37	92	40	14	1	0	0	0	
	BAKERSFIELD	77	47	79	43	62	1	0.00	-0.11	0.00	0.31	81	8.57	178	56	18	0	0	0	0	
	EUREKA	63	46	66	38	55	2	0.41	-0.36	0.31	4.60	133	25.51	91	94	63	0	0	3	0	
	FRESNO	76	47	80	44	62	1	0.00	-0.19	0.00	0.00	0	12.62	149	67	20	0	0	0	0	
	LOS ANGELES	78	55	84	49	66	1	0.00	-0.15	0.00	0.05	7	21.69	234	74	19	0	0	0	0	
	REDDING	74	45	81	36	60	1	0.00	-0.60	0.00	1.77	65	30.28	126	66	24	0	0	0	0	
	SACRAMENTO	76	44	80	38	60	1	0.00	-0.28	0.00	0.69	62	13.98	105	84	26	0	0	0	0	
	SAN DIEGO	78	50	82	48	64	-1	0.00	-0.14	0.00	0.06	9	12.95	175	72	17	0	0	0	0	
	SAN FRANCISCO	74	54	78	50	64	4	0.00	-0.31	0.00	0.03	3	19.96	146	77	33	0	0	0	0	
	STOCKTON	76	42	81	38	59	-1	0.00	-0.26	0.00	0.21	22	13.48	137	80	23	0	0	0	0	
	ALAMOSA	54	14	64	5	34	-3	0.04	-0.09	0.04	1.31	77	3.84	57	83	23	0	7	1	0	
	CO SPRINGS	52	24	68	4	38	-7	0.47	0.35	0.47	2.35	107	24.78	161	72	33	0	4	1	0	
	DENVER INTL	56	26	70	11	41	-4	0.09	-0.10	0.09	1.10	44	18.18	133	72	27	0	6	1	0	
	GRAND JUNCTION	56	28	68	20	42	-4	0.00	-0.19	0.00	0.62	27	6.17	77	71	23	0	5	0	0	
	PUEBLO	60	22	75	7	41	-5	0.05	-0.10	0.05	1.65	110	11.36	100	78	26	0	6	1	0	
	BRIDGEPORT	54	39	59	30	47	-4	0.96	0.23	0.54	11.03	134	40.56	108	87	49	0	2	3	1	
	HARTFORD	52	35	59	27	44	-4	1.02	0.20	0.56	15.28	163	54.90	137	89	51	0	3	3	1	
	WASHINGTON	64	43	81	34	54	-1	0.07	-0.70	0.04	4.41	55	26.69	74	78	38	0	0	2	0	
DE	WILMINGTON	59	38	72	28	49	-3	0.06	-0.67	0.06	5.93	70	40.24	103	92	47	0	4	1	0	
	FL	78	63	83	57	70	0	0.00	-0.69	0.00	12.39	100	46.45	99	89	57	0	0	0	0	
	JACKSONVILLE	77	53	89	43	65	-1	0.01	-0.41	0.01	11.46	96	41.72	85	88	49	0	0	1	0	
	KEY WEST	84	76	87	73	80	1	0.04	-0.78	0.04	12.96	97	27.23	74	87	69	0	0	1	0	
	MIAMI	86	75	91	72	81	3	0.39	-0.70	0.31	18.50	100	64.71	104	84	55	1	0	3	0	
	ORLANDO	81	61	87	53	71	0	0.00	-0.49	0.00	9.34	92	39.70	83	92	51	0	0	0	0	
	PENSACOLA	75	51	86	41	63	-2	0.00	-1.02	0.00	4.99	41	49.00	82	75	34	0	0	0	0	
	TALLAHASSEE	78	51	88	44	65	1	0.00	-0.62	0.00	8.13	95	45.41	87	83	40	0	0	0	0	
	TAMPA	84	63	88	53	74	1	0.00	-0.33	0.00	6.35	73	30.15	66	86	43	0	0	0	0	
	WEST PALM BEACH	84	72	89	69	78	3	0.01	-0.99	0.01	17.62	122	63.98	115	90	58	0	0	1	0	
	ATHENS	69	39	84	28	54	-4	0.00	-0.77	0.00	1.39	18	43.31	105	82	29	0	2	0	0	
	ATLANTA	69	43	85	34	56	-3	0.00	-0.82	0.00	3.06	40	35.05	82	70	31	0	0	0	0	
	AUGUSTA	71	40	85	27	55	-5	0.00	-0.55	0.00	9.55	147	55.57	146	97	31	0	3	0	0	
	COLUMBUS	72	44	85	30	58	-4	0.00	-0.70	0.00	4.29	65	41.80	103	83	32	0	1	0	0	
	MACON	72	40	86	26	56	-4	0.00	-0.65	0.00	3.79	56	40.05	101	95	32	0	3	0	0	
	SAVANNAH	74	49	85	39	62	-1	0.01	-0.52	0.01	2.89	34	35.84	83	82	34	0	0	1	0	
HI	HILO	85	69	86	67	77	2	0.13	-2.80	0.07	7.29	35	81.97	85	92	57	0	0	3	0	
	HONOLULU	86	72	88	71	79	0	0.00	-0.50	0.00	0.68	25	10.46	85	93	58	0	0	0	0	
	KAHULUI	86	66	88	64	76	-2	0.01	-0.30	0.01	0.18	12	9.64	81	87	54	0	0	1	0	
	LIHUE	84	71	86	69	78	0	0.06	-0.78	0.02	2.12	35	33.67	120	88	62	0	0	3	0	
	BURLINGTON	48	29	61	20	38	-9	0.00	-0.60	0.00	3.26	46	24.72	72	89	46	0	5	0	0	
	CEDAR RAPIDS	47	25	59	17	37	-7	0.00	-0.55	0.00	4.05	61	17.04	52	88	44	0	6	0	0	
	DES MOINES	49	28	60	20	39	-7	0.00	-0.53	0.00	4.32	68	23.00	68	82	39	0	5	0	0	
	DUBUQUE	45	28	57	20	36	-7	0.00	-0.59	0.00	7.78	110	28.87	83	86	48	0	5	0	0	
	SIOUX CITY	50	24	64	18	37	-6	0.01	-0.31	0.01	6.35	123	22.96	84	90	43	0	6	1	0	
	WATERLOO	48	27	59	20	38	-6	0.00	-0.50	0.00	5.22	84	21.16	63	80	43	0	6	0	0	
	BOISE	55	35	61	24	45	-1	0.49	0.26	0.28	1.90	138	8.97	100	83	43	0	3	3	0	
	LEWISTON	54	37	62	26	46	0	0.93	0.64	0.55	3.35	181	8.65	81	86	54	0	3	2	1	
	POCATELLO	52	24	60	13	38	-2	0.04	-0.17	0.04	3.68	185	11.27	114	91	36	0	5	1	0	
	CHICAGO/O_HARE	50	36	60	29	43	-5	0.06	-0.61	0.03	5.59	80	29.48	87	78	46	0	3	3	0	
	MOLINE	48	31	61	22	40	-7	0.00	-0.59	0.00	7.89	122	25.38	74	81	44	0	5	0	0	
	PEORIA	50	32	64	25	41	-7	0.06	-0.63	0.06	4.94	70	29.40	89	85	44	0	4	1	0	
	ROCKFORD	46	28	57	20	37	-8	0.03	-0.54	0.03	6.72	102	27.85	83	86	48	0	6	1	0	
	SPRINGFIELD	51	31	63	21	41	-9	0.20	-0.48	0.20	5.78	88	29.95	89	86	48	0	4	1	0	
	EVANSVILLE	55	35	68	25	45	-7	0.65	-0.24	0.58	3.98	55	37.37	92	88	44	0	4	2	1	
	FORT WAYNE	51	32	63	24	41	-6	0.75	0.08	0.74	4.9										

Weather Data for the Week Ending November 4, 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
KY	WICHITA	54	32	71	22	43	-9	0.03	-0.39	0.03	7.12	116	24.97	78	81	43	0	4	1	0
	LEXINGTON	59	38	68	27	48	-3	0.93	0.14	0.47	3.19	42	36.67	85	77	44	0	3	2	0
	LOUISVILLE	58	38	71	30	48	-6	1.50	0.72	0.92	3.69	47	35.36	85	74	41	0	3	2	2
LA	PADUCAH	57	33	72	26	45	-8	0.82	-0.08	0.77	4.92	61	51.19	120	91	42	0	5	2	1
	BATON ROUGE	73	45	89	34	59	-5	0.00	-1.00	0.00	4.45	45	38.65	72	92	35	0	0	0	0
	LAKE CHARLES	72	45	88	34	59	-7	0.14	-0.89	0.14	3.67	34	34.21	66	88	38	0	0	1	0
MA	NEW ORLEANS	72	53	86	45	62	-5	0.01	-0.89	0.01	5.17	55	27.13	49	86	44	0	0	1	0
	SHREVEPORT	68	42	84	34	55	-6	***	***	***	***	***	***	87	38	0	0	***	***	
	BOSTON	53	40	60	34	47	-3	0.54	-0.32	0.41	4.72	58	39.64	109	81	44	0	0	2	0
MD	WORCESTER	49	35	57	26	42	-3	0.87	-0.11	0.47	12.20	126	54.26	133	87	49	0	2	2	0
	BALTIMORE	64	40	81	29	52	0	0.14	-0.67	0.14	7.33	83	32.04	83	85	39	0	2	1	0
	CARIBOU	40	26	50	21	33	-5	0.28	-0.57	0.27	7.94	100	34.15	99	90	55	0	7	2	0
ME	PORTLAND	49	34	57	26	42	-3	0.83	-0.28	0.69	7.69	79	45.32	113	87	52	0	4	2	1
	ALPENA	45	28	54	22	37	-5	0.26	-0.34	0.18	6.65	59	26.28	100	92	56	0	5	3	0
	GRAND RAPIDS	48	34	57	24	41	-4	0.25	-0.60	0.19	6.71	84	31.76	92	90	53	0	2	3	0
MI	HOUGHTON LAKE	45	30	52	25	37	-4	0.12	-0.50	0.11	4.04	71	19.32	98	91	55	0	5	2	0
	LANSING	47	33	58	24	40	-5	0.33	-0.32	0.24	6.65	105	32.07	109	89	49	0	3	4	0
	MUSKEGON	49	35	55	21	42	-4	0.66	-0.15	0.59	6.86	91	27.59	91	85	52	0	3	4	1
MN	TRAVERSE CITY	46	34	55	29	40	-4	0.08	-0.58	0.05	6.06	82	21.91	86	85	51	0	3	3	0
	DULUTH	35	19	42	15	27	-10	0.07	-0.46	0.05	11.70	174	30.26	107	86	57	0	7	3	0
	INT_L FALLS	32	18	37	12	25	-9	0.06	-0.35	0.03	4.61	84	21.45	92	93	72	0	6	2	0
MO	MINNEAPOLIS	43	26	53	23	35	-7	0.16	-0.27	0.08	9.92	170	26.83	92	84	48	0	7	2	0
	ROCHESTER	42	24	53	16	33	-8	0.08	-0.37	0.07	8.19	130	28.02	88	92	53	0	6	2	0
	ST. CLOUD	41	21	49	19	31	-7	0.12	-0.31	0.10	6.48	110	24.22	91	89	52	0	7	2	0
MS	COLUMBIA	52	30	69	19	41	-10	0.63	-0.04	0.63	3.44	44	29.75	80	86	43	0	4	1	1
	KANSAS CITY	51	30	67	18	40	-9	0.00	-0.54	0.00	4.33	57	30.72	85	80	43	0	5	0	0
	SAINT LOUIS	55	36	71	27	46	-7	0.48	-0.32	0.48	4.81	73	28.91	79	72	40	0	3	1	0
MT	SPRINGFIELD	54	31	70	18	43	-10	0.84	-0.03	0.45	8.28	98	40.82	104	84	43	0	5	2	0
	JACKSON	70	40	84	27	55	-5	0.01	-0.93	0.01	0.94	12	34.77	71	80	31	0	2	1	0
	MERIDIAN	70	38	85	26	54	-6	0.00	-0.94	0.00	2.07	27	49.59	103	91	33	0	3	0	0
NC	TUPELO	66	37	85	27	51	-6	0.13	-0.72	0.13	1.66	20	42.30	88	86	35	0	3	1	0
	BILLINGS	52	30	62	18	41	0	0.04	-0.14	0.03	2.61	92	16.54	125	83	40	0	3	2	0
	BUTTE	45	15	51	-1	30	-4	0.04	-0.11	0.04	3.85	193	17.05	144	91	48	0	7	1	0
ND	CUT BANK	45	25	54	12	35	0	0.14	0.03	0.14	1.27	73	7.54	74	88	53	0	5	1	0
	GLASGOW	34	18	42	5	26	-11	0.01	-0.13	0.01	1.95	95	12.48	99	91	71	0	7	1	0
	GREAT FALLS	49	29	57	14	39	1	0.04	-0.14	0.03	4.37	174	16.89	123	82	45	0	4	2	0
NE	HAVRE	44	22	57	17	33	-3	0.15	0.02	0.13	2.73	145	10.67	97	91	60	0	6	2	0
	MISSOULA	41	23	58	16	32	-5	0.28	0.00	0.21	2.86	124	12.20	101	91	68	0	6	3	0
	ASHEVILLE	64	33	82	21	49	-4	0.00	-0.78	0.00	2.32	29	30.75	72	87	30	0	4	0	0
OH	CHARLOTTE	68	40	84	29	54	-2	0.00	-0.70	0.00	1.69	23	36.36	97	84	30	0	4	0	0
	GREENSBORO	65	39	83	27	52	-3	0.04	-0.71	0.04	5.83	71	35.97	94	82	33	0	4	1	0
	HATTERAS	67	56	77	48	62	-1	0.17	-0.92	0.08	7.74	55	37.99	72	93	67	0	0	3	0
PA	RALEIGH	68	41	85	28	55	-1	0.06	-0.67	0.06	7.62	85	36.06	90	88	34	0	3	1	0
	WILMINGTON	71	46	85	34	59	-1	0.00	-0.75	0.00	3.88	28	45.66	85	88	42	0	0	0	0
	BISMARCK	33	18	37	7	26	-11	0.01	-0.22	0.01	4.70	144	19.83	110	90	69	0	7	1	0
RI	DICKINSON	36	16	53	-4	26	-10	0.00	-0.18	0.00	3.73	129	14.63	97	92	68	0	7	0	0
	FARGO	36	23	43	17	30	-7	0.04	-0.27	0.04	3.46	69	18.59	83	83	64	0	7	1	0
	GRAND FORKS	31	18	33	13	24	-10	0.02	-0.29	0.02	4.80	111	13.71	67	87	68	0	7	1	0
SD	JAMESTOWN	36	22	44	12	29	-7	0.00	-0.21	0.00	3.67	95	15.81	83	82	63	0	7	0	0
	GRAND ISLAND	52	24	66	14	38	-8	0.07	-0.21	0.04	2.34	56	13.52	54	82	38	0	5	2	0
	LINCOLN	52	24	64	17	38	-8	0.00	-0.35	0.00	1.99	38	17.82	65	81	34	0	6	0	0
TN	NORFOLK	52	25	64	20	38	-5	0.03	-0.27	0.03	8.80	187	24.32	97	83	35	0	6	1	0
	NORTH PLATTE	55	20	70	9	38	-5	0.10	-0.10	0.07	2.27	67	20.35	100	87	32	0	5	2	0
	OMAHA	50	26	61	20	38	-9	0.00	-0.39	0.00	3.17	57	22.67	77	85	38	0	6	0	0
TX	SCOTTSBLUFF	57	20	70	5	38	-5	0.01	-0.19	0.01	2.60	101	18.93	129	90	29	0	6	1	0
	VALENTINE	52	18	67	6	35	-7	0.00	-0.17	0.00	7.34	227	30.72	153	90	32	0	7	0	0
	CONCORD	50	32	57	22	41	-3	0.92	0.02	0.75	6.50	75	32.49	92	95	47	0	4	3	1
UT	ATLANTIC_CITY	61	38	80	27	49	-2	0.19	-0.69	0.09	8.91	109	31.91	82	93	46	0	4	3	0
	NEWARK	58	42	63	34	50	-2	0.84	0.06	0.54	9.83	122	40.67	102	80	43	0	0	2	1
	ALBUQUERQUE	61	34	73	30	47	-4	0.00	-0.15	0.00	1.21	57	3.31	42	47	20	0	4	0	0
VT	ELY	60	19	69	5	39	-1	0.00	-0.19	0.00	1.14	74	10.62	129	58	15	0	7	0	0
	LAS VEGAS	72	50	78	46	61	-3	0.00	-0.06	0.00	1.28	192	4.07	117	22	8	0	0	0	0
	RENO	66	33	75	24	50	1	0.00	-0.11	0.00	0.67	87	9.82	172	59	17	0	4	0	0
WA	WINNEMUCCA	63	20	73	9	42	-2	0.00	-0.19	0.00	2.41	208	7.90	133	69	18	0	6	0	0
	ALBANY	51	36	57	25	43	-2	1.03	0.28	0.61	6.08	76	39.10	112	85	48	0	3	3	1
	BINGHAMTON	47	35	57	25	41	-2	0.90	0.10	0.44	7.07	86	38.00	104	80	57	0	3	3	0
WY	BUFFALO	47	37	59	30	42	-4	0.83	-0.02	0.41	6.41	74	33.10	97	88	56	0	3	5	0
	ROCHESTER	50	37	62	29	44	-3	0.59	-0.13	0.39	3.24	47	31.21	103	81	53	0	3	5	0
	SYRACUSE	49	39	61																

Weather Data for the Week Ending November 4, 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	90 AND ABOVE	32 AND BELOW	PRECIP		
																			.01 INCH OR MORE	.50 INCH OR MORE	
OK	TOLEDO	51	34	63	25	42	-6	0.75	0.17	0.60	4.53	77	28.21	93	82	46	0	4	3	1	
	YOUNGSTOWN	50	36	61	28	43	-3	0.75	-0.01	0.51	4.32	56	31.41	88	81	53	0	3	4	1	
	OKLAHOMA CITY	57	32	75	23	45	-10	0.57	0.01	0.57	6.33	86	31.73	95	90	40	0	4	1	1	
OR	TULSA	57	35	73	23	46	-10	0.75	-0.06	0.75	8.60	106	34.19	94	86	40	0	3	1	1	
	ASTORIA	61	44	64	32	52	3	2.18	0.09	1.18	9.79	91	40.25	80	92	68	0	1	2	2	
	BURNS	54	23	61	5	39	-1	0.30	0.10	0.20	1.07	85	11.34	142	83	39	0	4	3	0	
PA	EUGENE	63	40	79	26	52	3	1.26	0.25	0.76	5.58	108	20.11	71	93	59	0	3	4	1	
	MEDFORD	64	42	68	29	53	3	0.24	-0.19	0.13	3.70	188	9.39	74	91	44	0	2	3	0	
	PENDLETON	54	35	67	24	45	0	0.85	0.54	0.60	2.99	167	7.76	76	89	53	0	4	3	1	
RI	PORTLAND	61	43	68	32	52	2	1.98	0.94	0.98	5.73	103	23.44	89	88	49	0	1	4	2	
	SALEM	59	41	64	29	50	1	2.29	1.25	1.48	7.48	135	25.54	92	92	61	0	2	4	1	
	ALLENTOWN	54	34	58	25	44	-5	0.25	-0.48	0.16	5.60	59	34.50	84	87	46	0	4	2	0	
SC	ERIE	50	39	62	32	45	-4	1.46	0.52	0.58	6.20	67	36.48	102	82	45	0	2	5	1	
	MIDDLETOWN	57	39	64	31	48	-2	0.16	-0.55	0.12	6.91	76	29.87	78	82	40	0	2	2	0	
	PHILADELPHIA	59	43	70	34	51	-1	0.16	-0.53	0.12	6.64	80	31.23	83	85	44	0	0	3	0	
SD	PITTSBURGH	53	35	61	26	44	-4	1.05	0.38	0.56	4.34	66	26.55	77	78	48	0	3	3	1	
	WILKES-BARRE	52	35	59	25	43	-4	0.97	0.25	0.54	10.48	126	37.23	111	87	46	0	4	3	1	
	WILLIAMSPORT	53	35	58	29	44	-3	0.99	0.26	0.73	5.07	57	34.61	92	87	45	0	4	2	1	
TN	PROVIDENCE	54	37	62	29	45	-4	1.14	0.24	0.77	9.39	105	47.06	120	95	48	0	3	3	1	
	CHARLESTON	72	48	85	37	60	-2	0.00	-0.64	0.00	10.39	97	45.00	96	80	40	0	0	0	0	
	COLUMBIA	70	41	86	26	56	-3	0.00	-0.58	0.00	6.02	81	47.12	120	95	33	0	4	0	0	
TX	FLORENCE	70	43	86	32	56	-3	0.00	-0.60	0.00	3.27	39	35.19	89	86	33	0	1	0	0	
	GREENVILLE	67	38	85	27	52	-4	0.00	-0.77	0.00	1.48	19	44.48	106	82	27	0	4	0	0	
	ABERDEEN	42	21	62	12	32	-6	0.03	-0.25	0.02	4.52	105	21.52	104	86	59	0	7	2	0	
UT	HURON	47	21	65	15	34	-6	0.00	-0.27	0.00	6.04	133	17.24	78	89	48	0	7	0	0	
	RAPID CITY	51	21	66	7	36	-4	0.04	-0.13	0.04	3.74	137	20.46	122	90	39	0	5	1	0	
	SIOUX FALLS	49	24	60	18	37	-5	0.00	-0.32	0.00	3.01	57	16.80	64	81	41	0	6	0	0	
VA	BRISTOL	62	33	78	21	48	-4	0.27	-0.35	0.27	1.82	31	34.17	91	89	38	0	4	1	0	
	CHATTANOOGA	67	38	84	27	53	-3	0.00	-0.89	0.00	0.41	4	37.90	83	78	29	0	3	0	0	
	KNOXVILLE	63	37	79	25	50	-4	0.16	-0.59	0.16	1.05	15	38.54	89	86	36	0	4	1	0	
WV	MEMPHIS	61	38	75	30	49	-8	0.54	-0.38	0.54	2.80	37	48.29	106	86	38	0	1	1	1	
	NASHVILLE	64	37	80	28	51	-5	0.42	-0.34	0.42	3.11	40	32.97	77	76	35	0	2	1	0	
	ABILENE	63	39	77	30	51	-10	0.11	-0.41	0.11	5.35	92	21.08	92	85	41	0	2	1	0	
WY	AMARILLO	61	30	82	22	45	-8	0.00	-0.27	0.00	0.99	27	15.30	83	76	24	0	4	0	0	
	AUSTIN	67	43	79	35	55	-11	0.63	-0.17	0.41	8.68	111	21.93	70	92	44	0	0	2	0	
	BEAUMONT	71	49	89	38	60	-6	0.00	-1.04	0.00	4.81	37	31.72	59	93	36	0	0	0	0	
WY	BROWNSVILLE	77	56	91	48	67	-8	0.04	-0.51	0.03	2.09	21	15.66	65	85	51	1	0	2	0	
	CORPUS CHRISTI	73	48	90	38	61	-10	0.18	-0.43	0.18	4.42	49	21.72	77	92	50	1	0	1	0	
	DEL RIO	70	46	82	36	58	-9	0.19	-0.08	0.15	1.82	37	13.40	73	82	38	0	0	2	0	
WY	EL PASO	70	38	82	35	54	-6	0.00	-0.11	0.00	1.31	60	3.74	48	52	19	0	0	0	0	
	FORT WORTH	62	39	74	33	51	-11	0.82	-0.07	0.59	10.34	137	24.22	75	83	45	0	0	2	1	
	GALVESTON	69	55	86	48	62	-8	0.32	-0.76	0.30	4.52	36	20.12	51	83	54	0	0	2	0	
WY	HOUSTON	70	46	89	37	58	-9	0.15	-0.93	0.15	6.81	63	35.94	80	91	44	0	0	1	0	
	LUBBOCK	62	34	80	26	48	-8	0.01	-0.26	0.01	6.78	160	15.77	93	80	30	0	4	1	0	
	MIDLAND	62	37	81	31	49	-11	0.11	-0.08	0.11	4.50	150	6.26	50	88	35	0	3	1	0	
WY	SAN ANGELO	64	37	77	28	50	-11	0.51	0.11	0.51	7.13	138	16.25	85	95	44	0	2	1	1	
	SAN ANTONIO	69	46	85	40	57	-8	0.51	-0.18	0.30	3.61	45	17.22	60	84	43	0	0	3	0	
	VICTORIA	71	47	87	39	59	-9	0.02	-0.69	0.01	8.04	90	26.04	73	90	49	0	0	2	0	
WY	WACO	64	39	75	30	52	-10	0.86	0.01	0.71	8.20	106	23.87	76	93	47	0	1	2	1	
	WICHITA FALLS	61	36	77	28	48	-10	0.54	0.04	0.54	5.42	88	19.93	79	83	41	0	3	1	1	
	SALT LAKE CITY	57	34	67	28	46	-2	0.00	-0.30	0.00	2.51	100	14.88	114	81	32	0	4	0	0	
WY	LYNCHBURG	65	35	86	21	50	-1	0.06	-0.70	0.06	4.43	58	35.71	98	87	34	0	4	1	0	
	NORFOLK	65	48	85	36	57	-1	0.05	-0.78	0.05	3.76	38	39.70	91	87	43	0	0	1	0	
	RICHMOND	66	41	86	30	54	-1	0.09	-0.63	0.06	6.24	74	31.90	81	86	34	0	2	2	0	
WY	ROANOKE	65	38	87	24	51	-2	0.00	-0.63	0.00	3.37	45	26.54	71	78	32	0	4	0	0	
	WASH/DULLES	64	36	82	25	50	-1	0.10	-0.67	0.09	7.31	91	26.41	70	84	37	0	4	2	0	
	BURLINGTON	46	36	55	29	41	-4	0.73	-0.01	0.70	9.31	117	35.86	109	84	47	0	3	2	1	
WY	OLYMPIA	59	37	64	26	48	2	2.50	0.87	0.83	8.11	100	26.67	75	94	61	0	3	4	3	
	QUILLAYUTE	61	42	62	30	52	5	5.66	2.45	2.42	19.11	111	59.85	80	85	60	0	2	4	4	
	SEATTLE-TACOMA	57	43	63	34	50	0	2.72	1.44	1.26	9.01	143	23.15	82	91	58	0	0	4	2	
WY	SPOKANE	47	31	53	22	39	-2	1.14	0.73	0.59	2.00	91	9.42	76	89	62	0	4	2	2	
	YAKIMA	50	28	60	17	39	-4	0.40	0.22	0.21	1.09	112	5.32	91	89	52	0	5	4	0	
	EAU CLAIRE	41	22	53	17	32	-9	0.16	-0.30	0.16	5.89	91	24.63	81	89	52	0	7	1	0	
WY	GREEN BAY	44	28	51	21	36	-6	0.06	-0.45	0.06	3.86	62	23.87	84	83	51	0	6	1	0	
	LA CROSSE	44	28	54	22	36	-8	0.00	-0.46	0.00	5.22	81	22.25	69	83	49	0	6	0	0	
	MADISON	44	29	53	20	36	-7	0.00	-0.59	0.00	5.58	85	26.74	79	84	46	0	6	0	0	
WY	MILWAUKEE	47	34	55	27	41	-6	0.33	-0.25	0.29	7.08	113	29.12	94	76	46	0	3	2	0	
	BECKLEY	56	34	73	22	45	-4														

National Agricultural Summary

October 30 – November 5, 2023

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Most of the nation was drier than normal; however, much of the Pacific Northwest, as well as parts of the Mississippi Valley, Ohio Valley, southern Plains, and northern Rockies, recorded at least twice the normal amount of weekly precipitation. Portions of Oregon and Washington received more than 4 inches of rain. Meanwhile, much of the country cooler than normal. Parts of

the upper Midwest, Mississippi Valley, and Great Plains, as well as some locations in the Rockies, recorded weekly temperatures 9°F or more below normal. In contrast, southern Florida and parts of the West were warmer than normal for the week. Some locations in California and Oregon recorded temperatures 6°F or more above normal.

Corn: Eighty-one percent of the 2023 corn acreage was harvested by November 5, four percentage points behind last year but 4 points ahead of the 5-year average. During the week, corn harvesting advanced 10 percentage points or more in nine of the 18 estimating states.

Soybeans: Soybean harvest across the nation was 91 percent complete by November 5, two percentage points behind last year but 5 points ahead of the 5-year average. Soybean harvesting was ahead of the 5-year average pace in 13 of the 18 estimating states.

Winter Wheat: Nationwide, producers had sown 90 percent of the intended 2024 winter wheat acreage by November 5, one percentage point behind last year but 1 point ahead of the 5-year average. Planting progress advanced 10 percentage points or more during the week in seven of the 18 estimating states. Nationwide, 75 percent of the winter wheat acreage had emerged by November 5, four percentage points ahead of last year and 2 points ahead of the 5-year average. Winter wheat emergence advanced 10 percentage points or more during the week in 13 of the 18 estimating States. As of November 5, fifty percent of the 2024 winter wheat acreage was reported in good to excellent condition, 3 percentage points above the previous week and 20 points above the same time last year.

Cotton: By November 5, ninety-five percent of the nation's cotton had open bolls, 4 percentage points behind last year and

2 points behind the 5-year average. By November 5, fifty-seven percent of the nation's cotton acreage was harvested, 4 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 seven of the 15 estimating states.

Sorghum: Eighty-five percent of the 2023 sorghum acreage had been harvested by November 5, one percentage point behind last year but 4 points ahead of the 5-year average. Harvest progress was ahead of the 5-year average in five of the six estimating states.

Other Crops: Seventy-nine percent of the nation's peanut acreage was harvested as of November 5, six percentage points behind last year but equal to the 5-year average. During the week, peanut harvest advanced 30 percentage points in Oklahoma.

By November 5, sugarbeet producers had harvested 95 percent of the nation's crop, 2 percentage points ahead of last year and 4 points ahead of the 5-year average. Sugarbeet harvest advanced 48 percentage points for the week in Michigan.

By November 5, fifty-three percent of this year's sunflower crop was harvested, 25 percentage points behind last year and 8 points behind the 5-year average. Sunflower harvest advanced 10 percentage points or more during the week in three of the four estimating states.

Crop Progress and Condition

Week Ending November 5, 2023

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

Corn Percent Harvested				
	Prev Year	Prev Week	Nov 5 2023	5-Yr Avg
CO	62	68	79	74
IL	87	81	90	84
IN	81	56	68	76
IA	87	77	89	76
KS	93	89	94	90
KY	94	85	89	92
MI	58	30	40	54
MN	90	75	86	79
MO	89	84	89	86
NE	89	76	84	78
NC	98	97	98	98
ND	89	57	67	64
OH	72	29	45	62
PA	54	37	46	61
SD	90	60	76	70
TN	99	92	96	97
TX	100	93	95	94
WI	52	35	50	55
18 Sts	85	71	81	77
These 18 States harvested 94% of last year's corn acreage.				

Soybeans Percent Harvested				
	Prev Year	Prev Week	Nov 5 2023	5-Yr Avg
AR	93	91	95	82
IL	93	89	95	88
IN	92	79	87	85
IA	97	93	97	92
KS	87	80	88	78
KY	79	62	70	70
LA	100	100	100	98
MI	87	55	70	74
MN	100	94	97	95
MS	96	97	98	92
MO	84	75	84	69
NE	100	92	95	96
NC	54	34	45	48
ND	100	95	95	89
OH	91	80	89	83
SD	99	94	97	94
TN	79	73	80	70
WI	94	77	83	84
18 Sts	93	85	91	86
These 18 States harvested 96% of last year's soybean acreage.				

Sorghum Percent Harvested				
	Prev Year	Prev Week	Nov 5 2023	5-Yr Avg
CO	77	68	78	76
KS	80	69	81	72
NE	85	69	82	79
OK	78	60	72	73
SD	87	77	82	77
TX	100	100	100	97
6 Sts	86	77	85	81
These 6 States harvested 100% of last year's sorghum acreage.				

Peanuts Percent Harvested				
	Prev Year	Prev Week	Nov 5 2023	5-Yr Avg
AL	86	79	85	82
FL	94	84	92	92
GA	88	67	79	82
NC	88	68	84	77
OK	68	55	85	65
SC	78	63	71	71
TX	59	50	56	54
VA	98	88	93	89
8 Sts	85	69	79	79
These 8 States harvested 96% of last year's peanut acreage.				

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

Cotton Percent Harvested				
	Prev Year	Prev Week	Nov 5 2023	5-Yr Avg
AL	68	53	68	61
AZ	48	36	44	45
AR	96	88	96	88
CA	69	25	35	57
GA	56	32	46	54
KS	63	35	42	27
LA	98	98	100	91
MS	91	84	92	81
MO	89	79	84	73
NC	69	36	53	58
OK	43	33	43	38
SC	57	24	42	48
TN	73	62	76	66
TX	51	43	47	49
VA	73	44	52	56
15 Sts	61	49	57	55
These 15 States harvested 98% of last year's cotton acreage.				

Sugarbeets Percent Harvested				
	Prev Year	Prev Week	Nov 5 2023	5-Yr Avg
ID	91	73	92	89
MI	68	32	80	74
MN	100	100	100	95
ND	100	99	100	94
4 Sts	93	84	95	91
These 4 States harvested 87% of last year's sugarbeet acreage.				

Sunflowers Percent Harvested				
	Prev Year	Prev Week	Nov 5 2023	5-Yr Avg
CO	51	74	87	65
KS	76	74	79	70
ND	79	38	48	62
SD	81	34	52	58
4 Sts	78	40	53	61
These 4 States harvested 87% of last year's sunflower acreage.				

Crop Progress and Condition**Week Ending November 5, 2023**

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

Winter Wheat Percent Planted				
	Prev Year	Prev Week	Nov 5 2023	5-Yr Avg
AR	64	54	72	67
CA	43	25	35	37
CO	99	99	100	99
ID	98	100	100	99
IL	93	90	95	87
IN	89	72	84	88
KS	92	91	96	92
MI	97	69	80	91
MO	81	66	78	70
MT	99	96	97	96
NE	100	100	100	100
NC	52	35	55	43
OH	96	87	95	93
OK	89	75	87	89
OR	97	81	88	95
SD	100	97	99	100
TX	87	73	78	80
WA	99	98	100	98
18 Sts	91	84	90	89
These 18 States planted 88% of last year's winter wheat acreage.				

Winter Wheat Percent Emerged				
	Prev Year	Prev Week	Nov 5 2023	5-Yr Avg
AR	40	31	49	48
CA	14	10	15	16
CO	84	83	87	86
ID	86	79	93	86
IL	42	63	77	64
IN	60	41	61	67
KS	67	70	81	74
MI	89	58	68	76
MO	54	36	55	48
MT	92	78	85	80
NE	96	95	96	94
NC	30	16	30	25
OH	71	57	76	78
OK	73	54	72	75
OR	61	47	60	54
SD	74	79	90	87
TX	66	55	60	62
WA	88	74	90	83
18 Sts	71	64	75	73
These 18 States planted 88% of last year's winter wheat acreage.				

Winter Wheat Condition by Percent					
	VP	P	F	G	EX
AR	2	6	37	48	7
CA	0	0	10	60	30
CO	1	4	32	58	5
ID	0	5	22	71	2
IL	1	5	21	56	17
IN	2	4	21	58	15
KS	16	18	35	28	3
MI	1	8	50	38	3
MO	0	3	33	55	9
MT	1	2	31	25	41
NE	3	12	35	39	11
NC	0	2	25	68	5
OH	1	1	17	66	15
OK	4	12	35	46	3
OR	0	26	37	32	5
SD	2	2	30	49	17
TX	8	11	37	38	6
WA	1	12	31	49	7
18 Sts	6	11	33	42	8
Prev Wk	7	11	35	39	8
Prev Yr	15	19	36	25	5

VP - Very Poor;

P - Poor;

F - Fair;

G - Good;

EX - Excellent

NA - Not Available;

*Revised

Crop Progress and Condition

Week Ending November 5, 2023

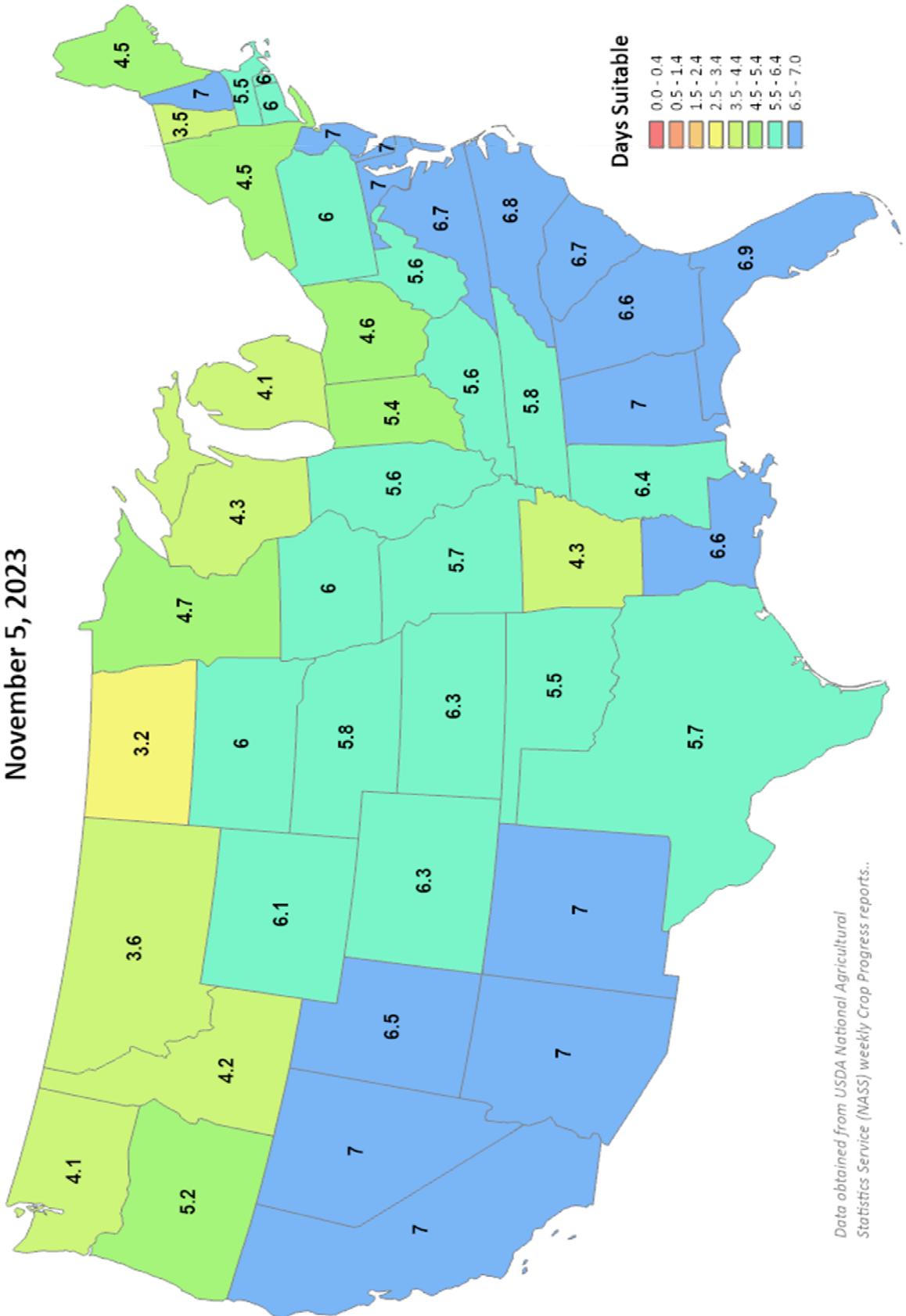
Weekly U.S. Progress and Condition Data provided by USDA/NASS

Days Suitable for Fieldwork

Week Ending

November 5, 2023

Days Suitable

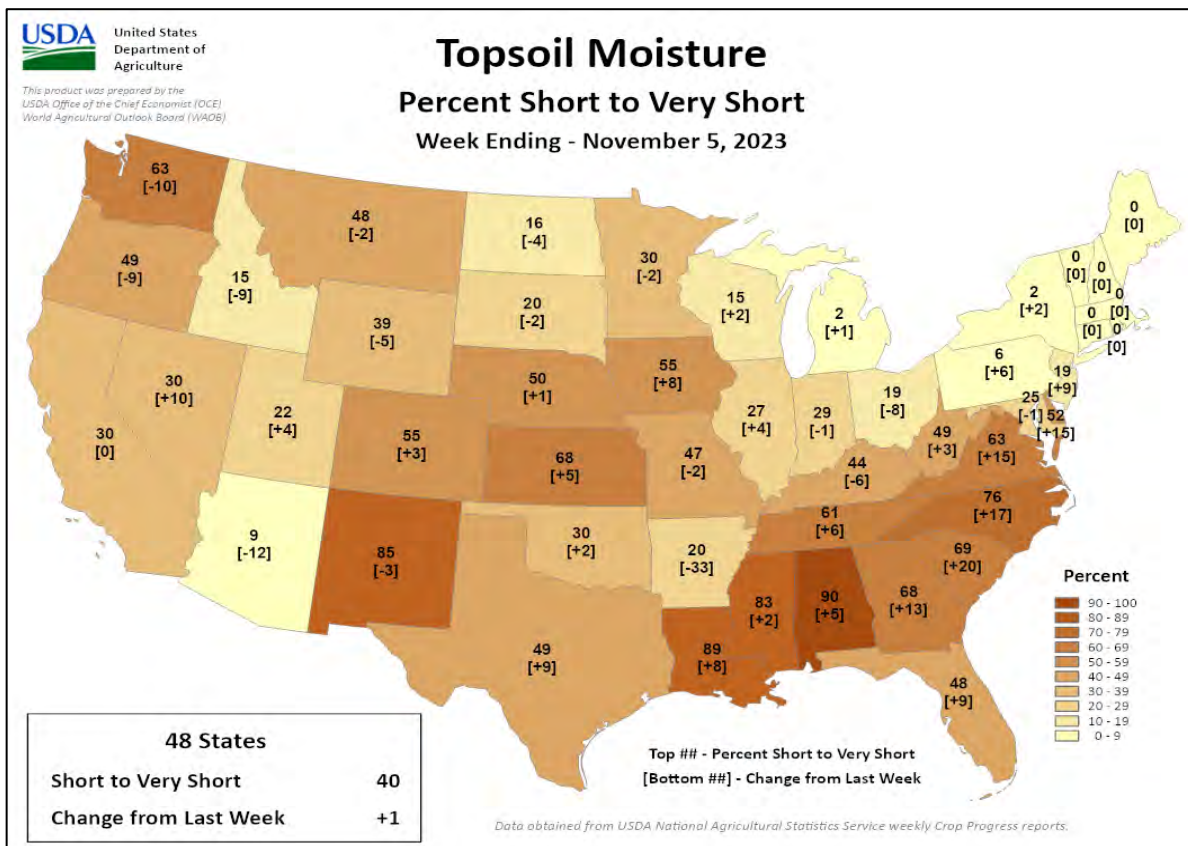
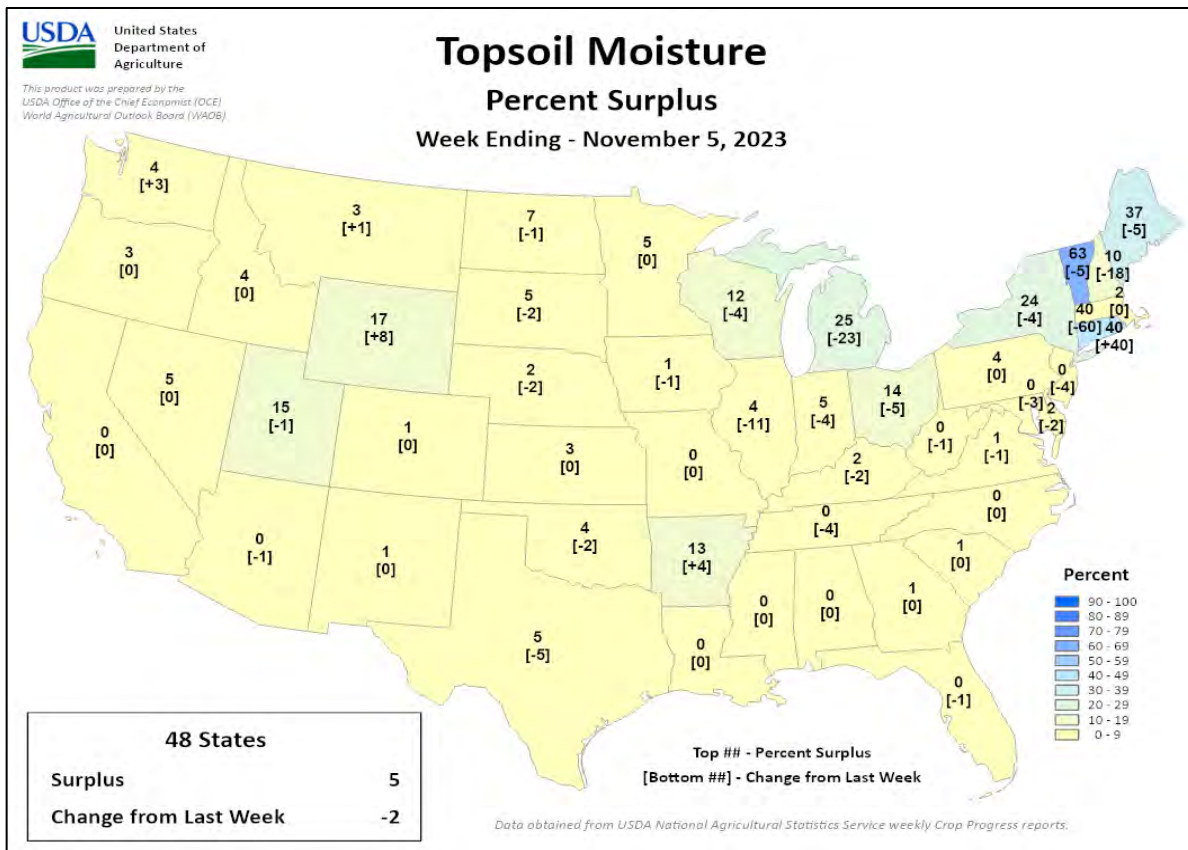


Data obtained from USDA National Agricultural Statistics Service (NASS) weekly Crop Progress reports...

Crop Progress and Condition

Week Ending November 5, 2023

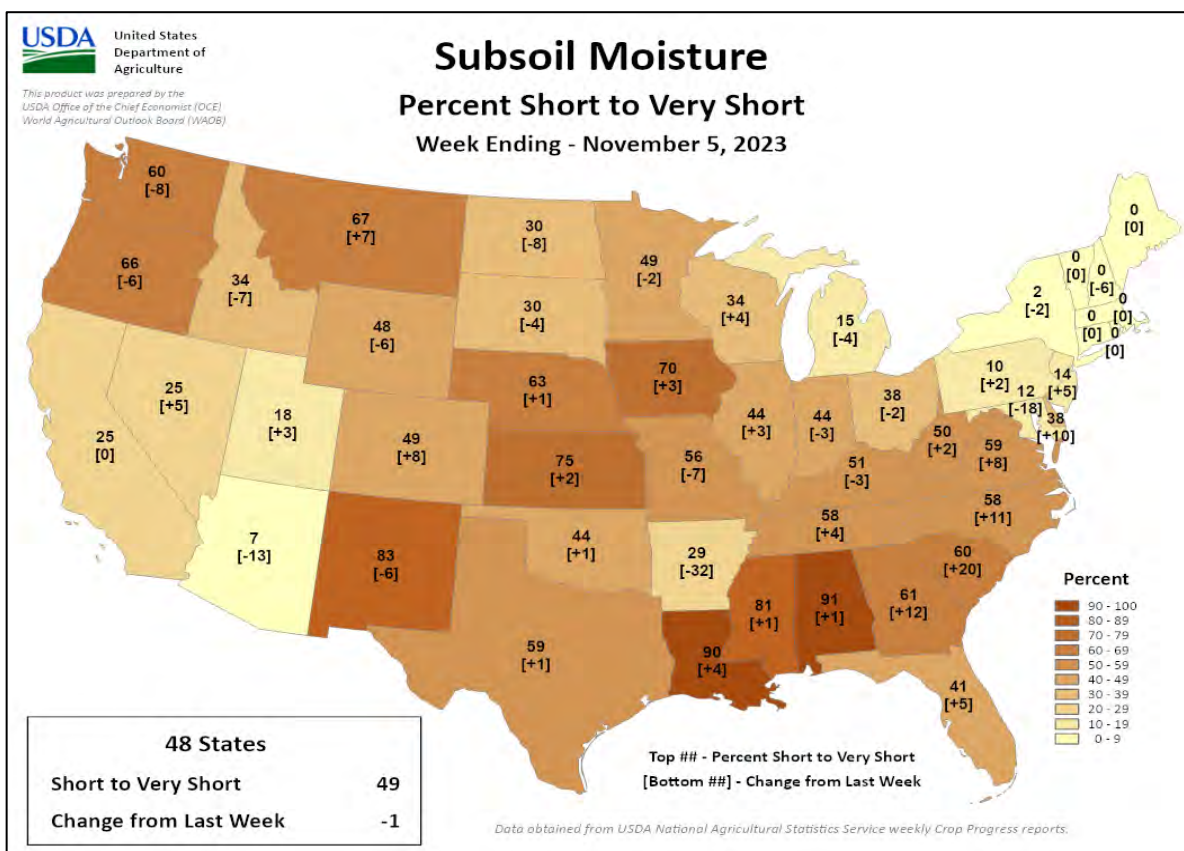
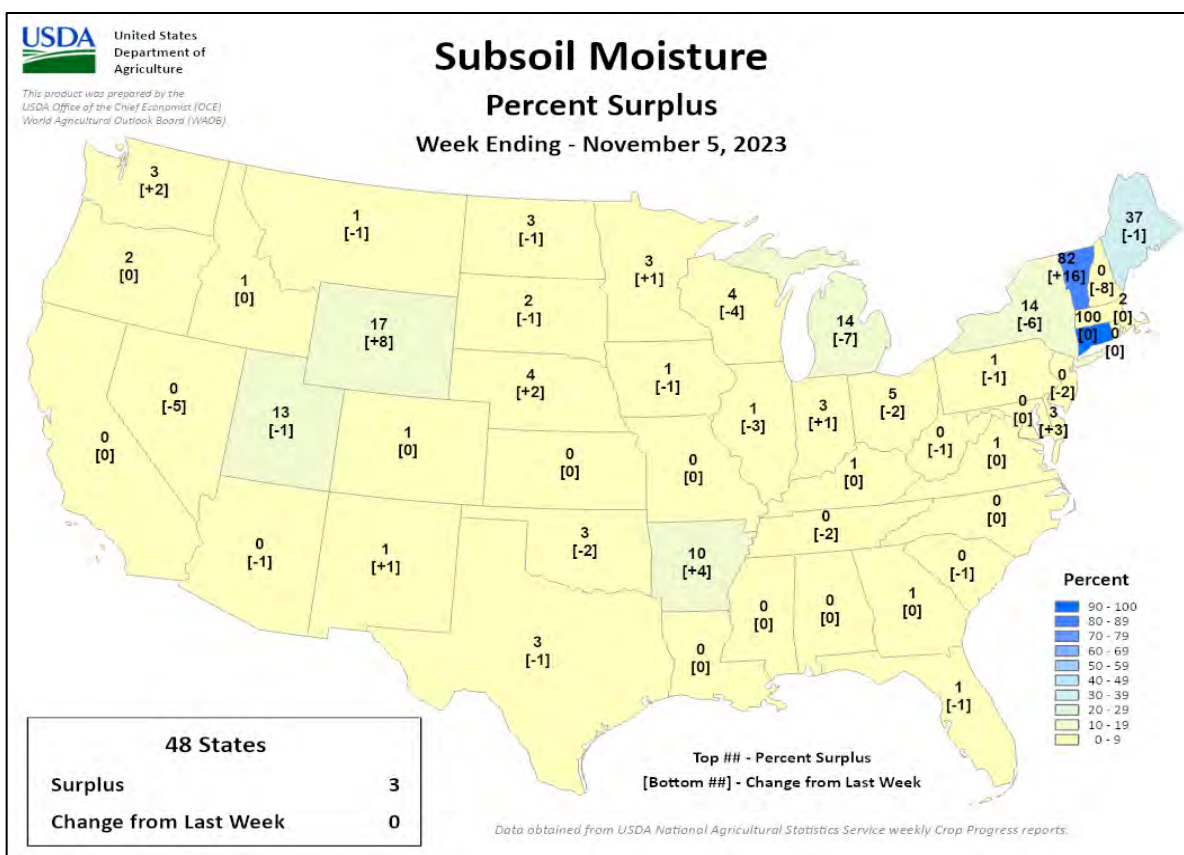
Weekly U.S. Progress and Condition Data provided by USDA/NASS



Crop Progress and Condition

Week Ending November 5, 2023

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



International Weather and Crop Summary

October 29 - November 4, 2023

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

EUROPE: Widespread moderate to heavy rain continued over most of Europe, with much-needed showers returning to the Danube River Valley.

WESTERN FSU: Showers accompanied expanding warmth across the region.

MIDDLE EAST: Showers returned to parts of Turkey and arrived in western Iran as well as Saudi Arabia.

EAST ASIA: Sunny, unseasonably warm weather in China's wheat and rapeseed areas gave way to favorable rainfall by week's end.

SOUTHEAST ASIA: Despite occasional showers in southern Indonesia, the establishment of seasonal rainfall remained delayed.

AUSTRALIA: Much-needed rain in the northeast benefited summer crop planting, germination, and emergence.

SOUTH AFRICA: Rain improved early crop prospects in eastern sections of the corn belt.

ARGENTINA: Locally heavy showers continued, further improving moisture levels for emerging to vegetative summer crops.

BRAZIL: Widespread showers maintained adequate to locally excessive levels of moisture for soybeans, although concerns remained for the condition of unharvested wheat.

October 2023

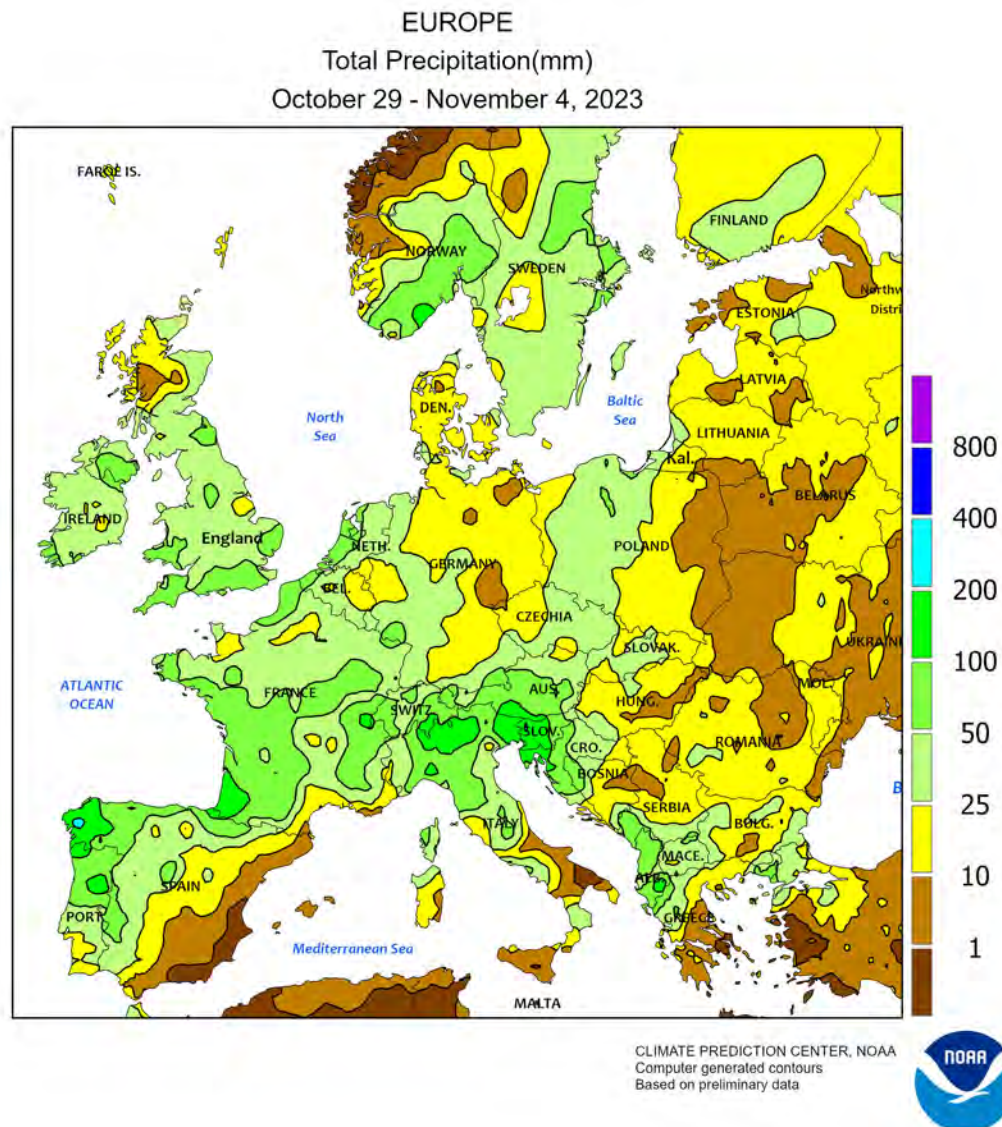
COUNTRY	CITY	TEMPERATURE (C)					PRECIP. (MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM
ALGERI	ALGER	29	16	37	13	22	2.2	4	-48
	BATNA	29	11	35	6	20	3	1	-25
ARGENT	IGUAZU	28	18	38	0	23	0.3	326	54
	FORMOSA	29	19	42	9	24	0.6	87	-63
	CERES	28	15	38	5	22	1.1	28	-55
	CORDOBA	27	11	38	1	19	1.2	16	-51
	RIO CUARTO	24	12	32	4	18	0.4	91	-3
	ROSARIO	25	12	32	3	18	0.1	92	-27
	BUENOS AIRES	23	10	30	0	17	-0.2	35	-72
	SANTA ROSA	24	9	30	4	16	-0.2	92	0
AUSTRA	TRES ARROYOS	22	8	29	-2	15	0.3	41	-40
	DARWIN	34	26	37	24	30	0.9	2	*****
	BRISBANE	25	17	28	12	21	0.5	5	-74
	PERTH	26	13	36	5	20	2.4	6	-28
	CEDUNA	23	10	38	0	16	-1.3	*****	*****
	ADELAIDE	20	11	31	6	16	-0.8	*****	*****
	MELBOURNE	19	10	29	5	15	0.2	74	30
	WAGGA	23	8	33	2	16	0.1	34	-13
AUSTRI	CANBERRA	21	6	29	0	13	-0.2	33	-14
	VIENNA	20	10	27	1	15	4.1	60	11
BAHAMA	INNSBRUCK	20	8	26	0	14	3.4	63	-8
	NASSAU	31	25	34	20	28	0.6	138	33
BARBAD	BRIDGETOWN	32	26	32	24	29	0.9	253	106
BELARU	MINSK	11	5	22	-1	8	1.2	77	22
BERMUD	ST GEORGES	27	22	29	20	24	0.9	300	153
BOLIVI	LA PAZ	18	3	22	-2	11	1.8	28	-19
BRAZIL	FORTALEZA	31	26	32	25	29	0.8	2	-6
	RECIFE	30	25	31	22	27	-0.3	21	-14
	CAMPO GRANDE	34	24	38	18	29	2.7	16	-107
	FRANCA	31	20	34	18	26	1.9	244	94
	RIO DE JANEI	28	22	38	18	25	1.1	141	62
	LONDRINA	***	***	37	17	***	*****	286	130
	SANTA MARIA	24	15	31	7	19	-1.1	222	18
	SOFIA	22	8	29	3	15	3.2	4	-49
BULGAR	OUAGADOUGOU	36	24	39	0	30	0	62	*****
CANADA	LETHBRIDGE	12	-1	28	-23	6	*****	28	*****
	REGINA	10	-2	23	-18	4	0.1	16	-7
	WINNIPEG	11	4	25	-8	7	1	74	39
	TORONTO	17	8	30	-2	13	2.5	40	-26
	MONTREAL	16	9	29	-2	13	3.7	123	27
	PRINCE ALBER	9	-2	20	-14	3	0.9	27	-4
	CALGARY	11	0	26	-17	5	0.2	37	16
	VANCOUVER	14	7	20	-2	11	0.3	118	-4
CANARY	LAS PALMAS	30	23	35	19	26	3.2	9	*****
CHILE	SANTIAGO	22	7	28	3	15	-0.5	1	*****
CHINA	HARBIN	16	3	23	-5	10	2.9	4	-22
	HAMI	23	6	28	1	14	3.3	0	-4
	BEIJING	23	9	28	4	16	1.8	5	-34
	TIENTSIN	24	10	27	2	17	2.1	6	-24
	LHASA	18	5	25	0	12	1.2	13	5
	KUNMING	22	14	28	11	18	1.9	73	-10
	CHENGCHOW	25	13	31	8	19	2.1	11	-31
	YEHCHANG	23	15	28	11	19	0.9	51	-27
	HANKOW	24	15	29	9	20	1.5	61	-5
	CHUNGKING	23	18	29	15	20	1.1	170	74
	CHIHKIANG	24	16	31	11	20	1.1	53	-29
	WU HU	24	15	29	8	20	1.2	26	-30
	SHANGHAI	24	16	28	11	20	0.9	44	-28
	NANCHANG	25	18	30	13	22	1	44	-6
	TAIPEI	27	23	31	0	25	0.3	68	-86
	CANTON	29	21	35	16	25	0.3	77	7
	NANNING	28	21	34	18	25	0.6	128	60
COLOMB	BOGOTA	21	9	27	5	15	1.2	113	13
	ABIDJAN	30	25	31	22	27	0.6	228	45
CUBA	CAMAGUEY	31	24	34	22	27	0.8	148	*****
CYPRUS	LARNACA	30	19	34	16	25	1.6	4	*****
CZECHR	PRAGUE	17	8	28	-3	12	3.5	46	12
DENMAR	COPENHAGEN	13	8	19	2	11	1.1	57	1
EGYPT	CAIRO	30	22	39	16	26	1.2	0	*****
	ASWAN	38	24	43	19	31	1.4	0	*****

Based on Preliminary Reports

October 2023

COUNTRY	CITY	TEMPERATURE					PRECIP.		
		(C)					(MM)		
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM
ESTONI	TALLINN	8	3	16	-3	6	-0.9	88	10
ETHIOP	ADDIS ABABA	***	***	24	13	***	*****	*****	*****
F GUIA	CAYENNE	34	23	36	20	29	1.2	13	-42
FIJI	NAUSORI	28	21	32	16	25	0.6	52	-187
FINLAN	HELSINKI	7	2	16	-4	5	-1.0	116	36
FRANCE	PARIS/ORLY	20	11	29	5	15	2.7	71	19
	STRASBOURG	20	9	31	2	14	2.8	54	-6
	BOURGES	21	10	32	6	16	2.8	62	-12
	BORDEAUX	23	13	33	8	18	2.9	67	-16
	TOULOUSE	24	13	33	7	19	3.6	26	-28
	MARSEILLE	24	15	28	9	20	2.8	26	-47
GABON	LIBREVILLE	30	25	32	23	27	1.3	394	-12
GERMAN	HAMBURG	15	9	23	1	12	2.0	110	47
	BERLIN	16	10	26	0	13	2.2	92	48
	DUSSELDORF	18	11	26	2	14	2.9	108	47
	LEIPZIG	16	10	27	-1	13	3.0	85	50
	DRESDEN	16	10	28	0	13	3.5	108	58
	STUTTGART	18	7	28	-1	13	2.7	66	9
	NURNBERG	18	8	27	-2	13	3.1	44	-6
	AUGSBURG	18	6	26	-3	12	3.1	48	-5
GREECE	THESSALONIKA	25	15	29	11	20	2.8	8	-36
	LARISSA	25	13	29	9	19	2.1	16	-34
	ATHENS	27	19	30	15	23	2.6	1	*****
GUADEL	RAIZET	31	25	33	23	28	0.9	345	142
HONGKO	HONG KONG IN	29	25	35	21	27	0.0	421	363
HUNGAR	BUDAPEST	20	10	27	0	15	3.4	70	26
ICELAN	REYKJAVIK	8	4	12	-1	6	0.7	193	113
INDIA	AMRITSAR	31	18	36	14	25	0.5	29	8
	NEW DELHI	33	18	37	14	26	-0.3	5	-19
	AHMEDABAD	36	23	38	20	29	0.8	0	*****
	INDORE	33	20	35	17	26	1.3	0	-37
	CALCUTTA	33	25	36	21	29	1.8	94	*****
	VERAVAL	35	25	38	23	30	0.7	0	*****
	BOMBAY	35	25	37	21	30	0.4	3	*****
	POONA	33	19	35	14	26	0.9	7	*****
	BEGAMPET	33	21	34	17	27	0.3	0	*****
	VISHAKHAPATN	34	26	36	24	30	1.6	6	*****
	MADRAS	34	25	36	23	30	0.9	48	-242
	MANGALORE	31	24	34	22	28	0.6	114	*****
INDONE	SERANG	36	25	38	23	30	1.6	0	-99
IRELAN	DUBLIN	15	8	23	1	12	1.7	123	44
ITALY	MILAN	22	13	30	6	18	2.8	82	4
	VERONA	23	12	31	8	18	3.8	116	33
	VENICE	22	14	25	6	18	2.8	55	-15
	GENOA	22	18	27	13	20	2.1	102	*****
	ROME	25	16	28	13	21	3.0	67	-29
	NAPLES	25	16	30	13	21	2.2	113	40
JAMAIC	KINGSTON	33	25	35	22	29	1.2	74	-82
JAPAN	SAPPORO	18	10	24	3	14	1.5	94	-16
	NAGOYA	24	14	27	10	19	-0.1	120	-45
	TOKYO	24	15	30	11	19	0.9	148	-86
	YOKOHAMA	24	16	31	12	20	1.3	136	-89
	KYOTO	24	14	27	10	19	0.7	72	-72
	OSAKA	24	16	27	11	20	0.3	94	-42
KAZAKH	KUSTANAY	11	3	21	-6	7	1.4	65	34
	TSELINOGRAD	12	3	23	-6	8	1.9	23	-1
	KARAGANDA	12	3	23	-6	7	2.4	69	39
KENYA	NAIROBI	28	16	31	13	22	1.5	58	*****
LIBYA	BENGHAZI	29	18	34	10	24	0.7	0	*****
LITHUA	KAUNAS	11	6	24	-2	8	1.0	89	28
LUXEMB	LUXEMBOURG	16	9	24	1	12	2.2	184	107
MALAYS	KUALA LUMPUR	33	24	35	21	29	0.7	427	150
MALI	BAMAKO	35	23	38	21	29	1.8	0	*****
MARSHA	MAJURO	31	27	32	26	29	0.7	282	-68
MARTIN	LAMENTIN	32	25	34	23	28	0.7	452	196
MEXICO	GUADALAJARA	26	16	29	10	21	0.5	19	*****
	TLAXCALA	24	12	29	5	18	1.2	46	*****
	ORIZABA	25	17	31	11	21	1.4	117	*****
MOROCC	CASABLANCA	27	19	33	15	23	2.0	31	*****
	MARRAKECH	31	18	40	13	25	2.6	27	*****
MOZAMB	MAPUTO	27	19	38	14	23	-0.8	97	45
N KORE	PYONGYANG	21	10	26	3	15	2.3	18	-20
NEW CA	NOUMEA	26	20	30	18	23	0.4	17	-15
NIGER	NIAMEY	39	24	41	0	32	0.1	4	*****
NORWAY	OSLO	7	2	16	-3	4	-0.7	60	-35
NZEALA	AUCKLAND	19	12	23	5	15	0.8	60	-26
	WELLINGTON	16	10	20	4	13	0.2	64	-26
P RICO	SAN JUAN	33	27	36	25	30	1.5	246	114
PAKIST	KARACHI	35	26	40	0	31	1.5	0	*****
PERU	LIMA	22	18	23	16	20	1.8	0	*****
PHILIP	MANILA	32	26	34	24	29	0.2	178	-39
PNEWGU	PORT MORESBY	29	25	32	24	27	-0.4	133	95
POLAND	WARSAW	15	7	26	-2	11	2.2	73	33
	LODZ	15	7	26	-4	11	2.0	127	89
	KATOWICE	16	8	25	-2	12	2.8	83	39
PORTUG	LISBON	25	17	34	12	21	2.0	117	21
ROMANI	BUCHAREST	24	7	32	0	16	4.3	11	-50
RUSSIA	ST.PETERSBUR	7	3	17	-4	5	-1.1	101	38
	KAZAN	8	4	22	-3	6	-0.1	78	25
	MOSCOW	8	4	19	-3	6	-0.4	114	44
	YEKATERINBUR	7	2	19	-9	5	0.9	47	6
	OMSK	10	2	20	-8	6	1.7	48	15
	BARNAUL	11	1	23	-9	6	1.6	47	12
	KHABAROVSK	12	2	21	-6	7	1.5	32	-15
	VLADIVOSTOK	15	8	22	1	11	1.9	6	-62
	VOLGOGRADE	14	5	22	-2	10	0.7	0	-34
	ASTRAKHAN	18	8	24	1	13	1.2	14	-5
	ORENBURG	11	4	22	-5	7	0.6	97	63
S AFRI	JOHANNESBURG	25	13	32	4	19	0.5	33	*****
	DURBAN	23	17	28	12	20	-0.7	202	98
	CAPE TOWN	24	13	30	8	18	2.4	100	73
S KORE	SEOUL	21	12	25	5	16	0.9	34	-20
SAMOA	PAGO PAGO	30	25	33	24	28	-0.1	214	-46
SENEGA	DAKAR	33	27	39	23	30	1.7	35	*****
SPAIN	VALLADOLID	22	12	33	6	17	3.3	82	21
	MADRID	24	12	33	6	18	2.7	146	89
	SEVILLE	28	16	37	11	22	1.8	111	*****
SWITZE	ZURICH	17	10	26	3	14	3.3	56	-30
	GENEVA	19	10	26	3	14	3.2	199	106
SYRIA	DAMASCUS	***	***	33	9	***	*****	*****	*****
TAHITI	PAPEETE	30	24	31	22	26	0.2	125	33
TANZAN	DAR ES SALAA	32	23	35	21	28	1.6	76	4
THAILA	PHITSANULOK	33	24	35	23	29	0.3	385	245
	BANGKOK	34	26	36	25	30	0.5	291	14
TOGO	TABLIGBO	33	24	38	21	28	0.7	*****	*****
TRINID	PORT OF SPAI	33	25	35	23	29	1.0	106	-89
TUNISI	TUNIS	31	19	39	16	25	3.1	1	-51
TURKEY	ISTANBUL	23	16	26	12	20	2.8	32	-35
	ANKARA	22	6	27	1	14	1.7	14	-18
TURKME	ASHKHABAD	25	14	34	7	20	3.6	22	11
UKINGD	ABERDEEN	12	7	20	-1	10	0.2	161	66
	LONDON	18	10	26	0	14	1.9	105	40
UKRAIN	KIEV	16	8	22	1	12	2.8	67	20
	LVOV	16	7	23	-2	11	2.6	66	9
	KIROVOGRAD	18	7	28	-3	13	3.7	64	21
	ODESSA	20	13	31	4	16	4.4	4	-33
	KHARKOV	15	7	27	-2	11	2.3	100	56
UZBEKI	TASHKENT	24	11	30	4	18	2.3	26	1
VENEZU	CARACAS	***	***	33	25	***	*****	*****	*****
YUGOSL	BELGRADE	24	13	30	5	19	4.7	9	-45
ZAMBIA	LUSAKA	***	***	36	16	***	*****	*****	*****
ZIMBAB	KADOMA	***	***	38	***	***	*****	*****	*****

Based on Preliminary Reports

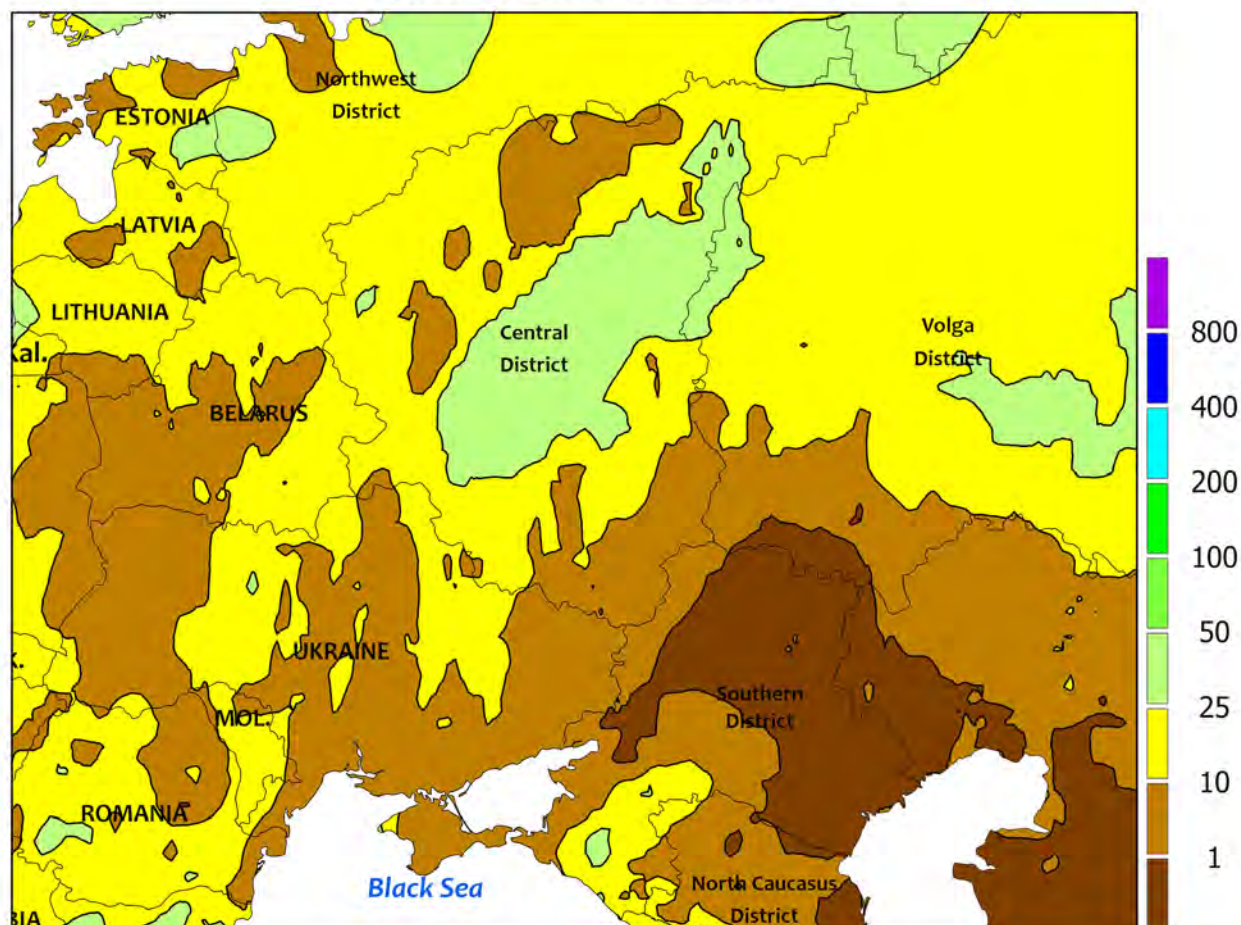


EUROPE

Wet weather continued over the continent, with much-needed showers returning to the previously dry Danube River Valley. For the third consecutive week, the unrelenting barrage of potent Atlantic storms produced an additional 25 to 125 mm of rainfall (locally more) over western, central, and northern Europe. The widespread soaking further eased or erased any lingering long-term moisture deficits from central and southern France eastward into northern Italy and southern Germany, though the wet weather further delayed late summer crop harvesting and other seasonal fieldwork. Additionally, Spain's 2023-24 Water Year (starting September 1) has gotten off to the wettest start of the past 30 years in Castilla La Mancha (173 mm, surplus of 83 mm) and

Castilla y León (183 mm, 86 mm surplus), approaching 200 percent of normal in both regions. In addition, heavy to torrential rainfall (100-500 mm) caused flooding and damage to infrastructure in northwestern Spain as well as western and northern portions of Italy. Unlike the previous two weeks, much-needed rain arrived in the lower Danube River Valley (10-40 mm), improving soil moisture for winter grain and oilseed establishment. Temperatures averaged near to slightly above normal in western Europe but 5 to 7°C above normal from Poland southward into Greece; winter crops typically go dormant by mid-November in Poland and the Baltic States, but weekly average temperatures remained well above 5°C even in these typically colder locales.

WESTERN FSU
Total Precipitation(mm)
October 29 - November 4, 2023



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

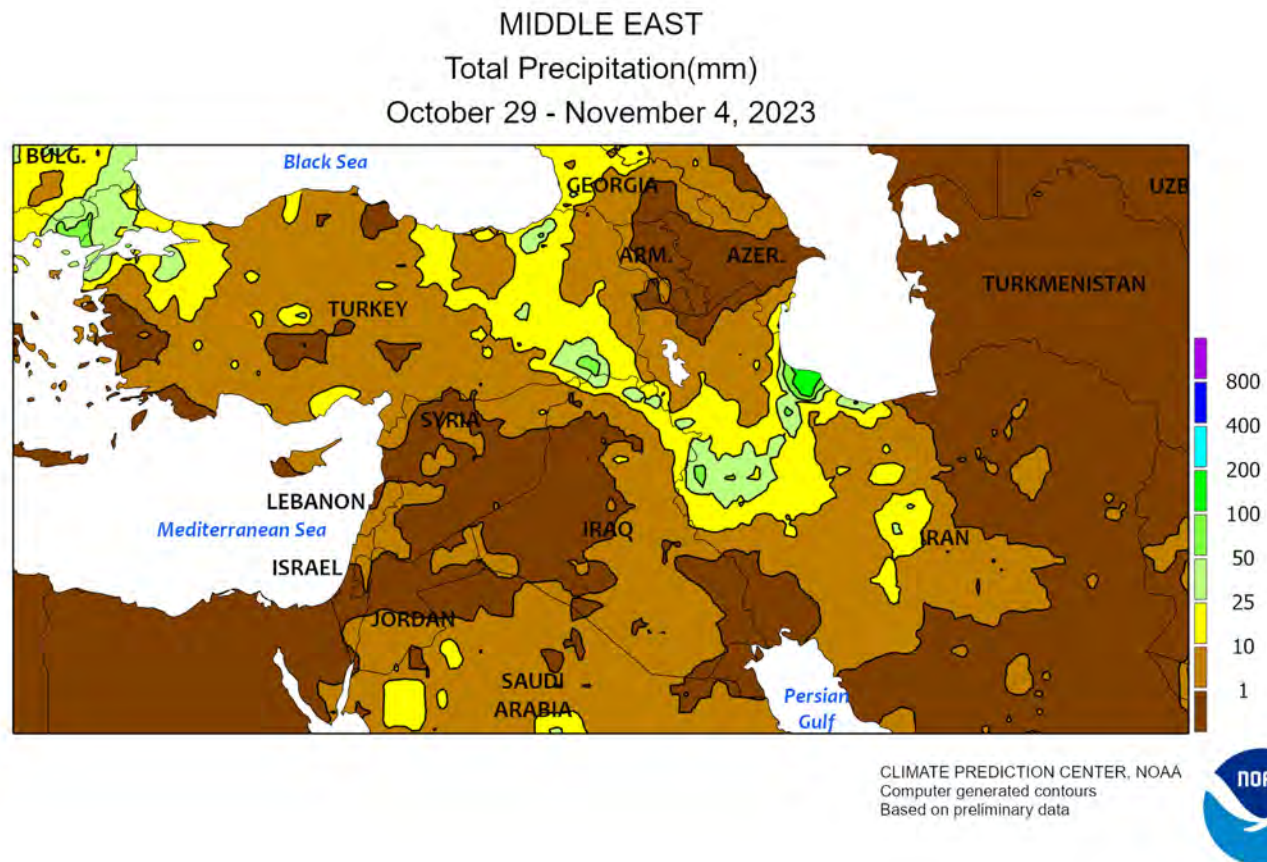


WESTERN FSU

Showers continued but diminished somewhat while warmth expanded across the region. Rain was lighter than previous weeks but still widespread, with 5 to 30 mm reported over primary winter crop areas of Ukraine and southwestern Russia. As a result, soil moisture remained favorable for winter grain and oilseed establishment, though deficits lingered in southern Russia's North Caucasus District. The warmth previously concentrated over the southern third of the region during the preceding week expanded northward, with nearly all of Moldova, Ukraine, Belarus, and western Russia reporting temperature anomalies ranging from 4 to 8°C above normal. The northern reaches of the warmth melted last week's snow,

while southern growing areas (daytime highs in the middle and upper 20s degrees C) were still adding vegetative growth and far from going dormant. Winter crops typically go dormant during early November in west-central Russia and later in November along and adjacent to the Black Sea Coast. However, weekly average temperatures remained well above 5°C across all primary growing areas, even northern-most croplands in Russia and Belarus.

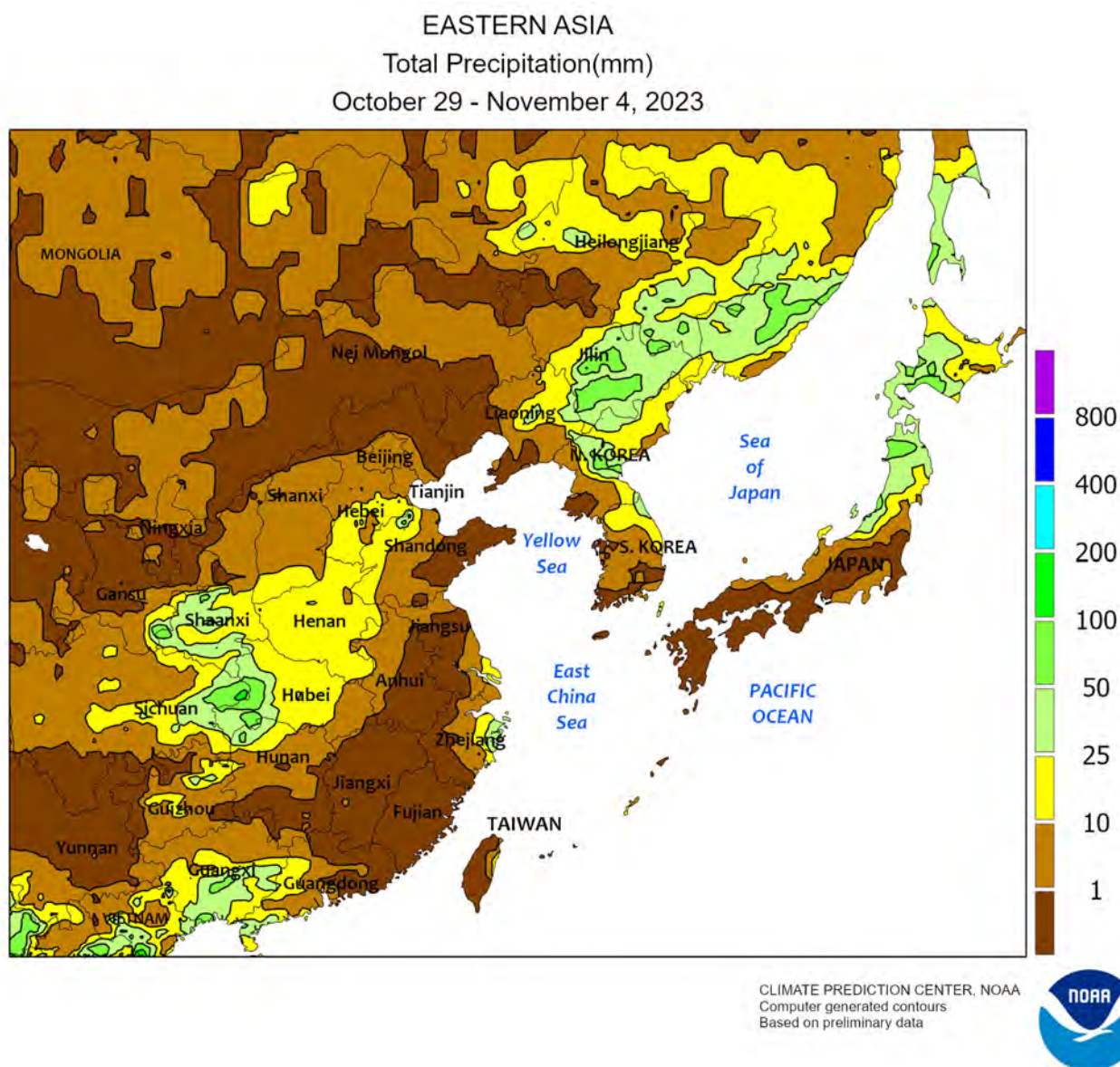
The WWCB focuses entirely on weather and resultant crop conditions; conflict and unrest are beyond the scope of this publication.



MIDDLE EAST

Increasingly warm and showery weather settled over the Middle East, though some locales remained dry. In Turkey, showers totaling 5 to 30 mm from Thrace southeastward onto the western Anatolian Plateau eased acute short-term dryness in the northwest and improved soil moisture for winter wheat and barley establishment. Similar rainfall in western Iran provided the season's first appreciable moisture for winter grain establishment, while sunny skies in northeastern Iran favored winter barley establishment following mid-October

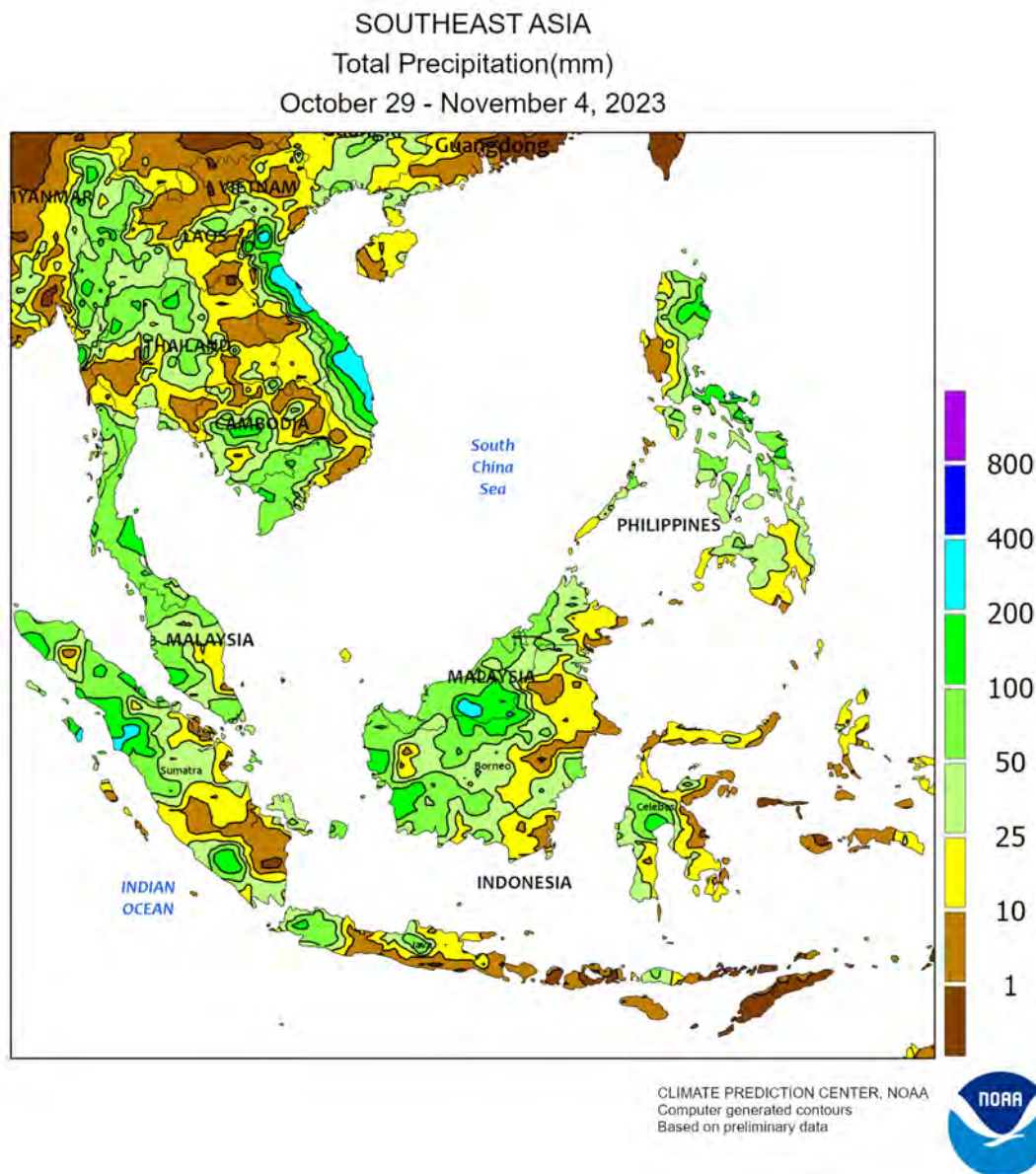
rains. Despite the showery weather, dry conditions favored fieldwork from central Turkey into Syria and northwestern Iraq. More unusually, moderate to heavy showers and thunderstorms (15-125 mm) in Saudi Arabia provided moisture for this country's small winter barley crop but otherwise did not impact major growing areas. Temperatures during the monitoring period averaged 4 to 7°C above normal across the region, with northern winter crops typically going dormant in December.



EASTERN ASIA

High pressure dominated winter growing areas of China for much of the period. Sunny, unseasonably warm conditions prevailed, with daytime temperatures topping 30°C at times (nearly 10°C above average). Although promoting establishment of wheat and rapeseed, the warm,

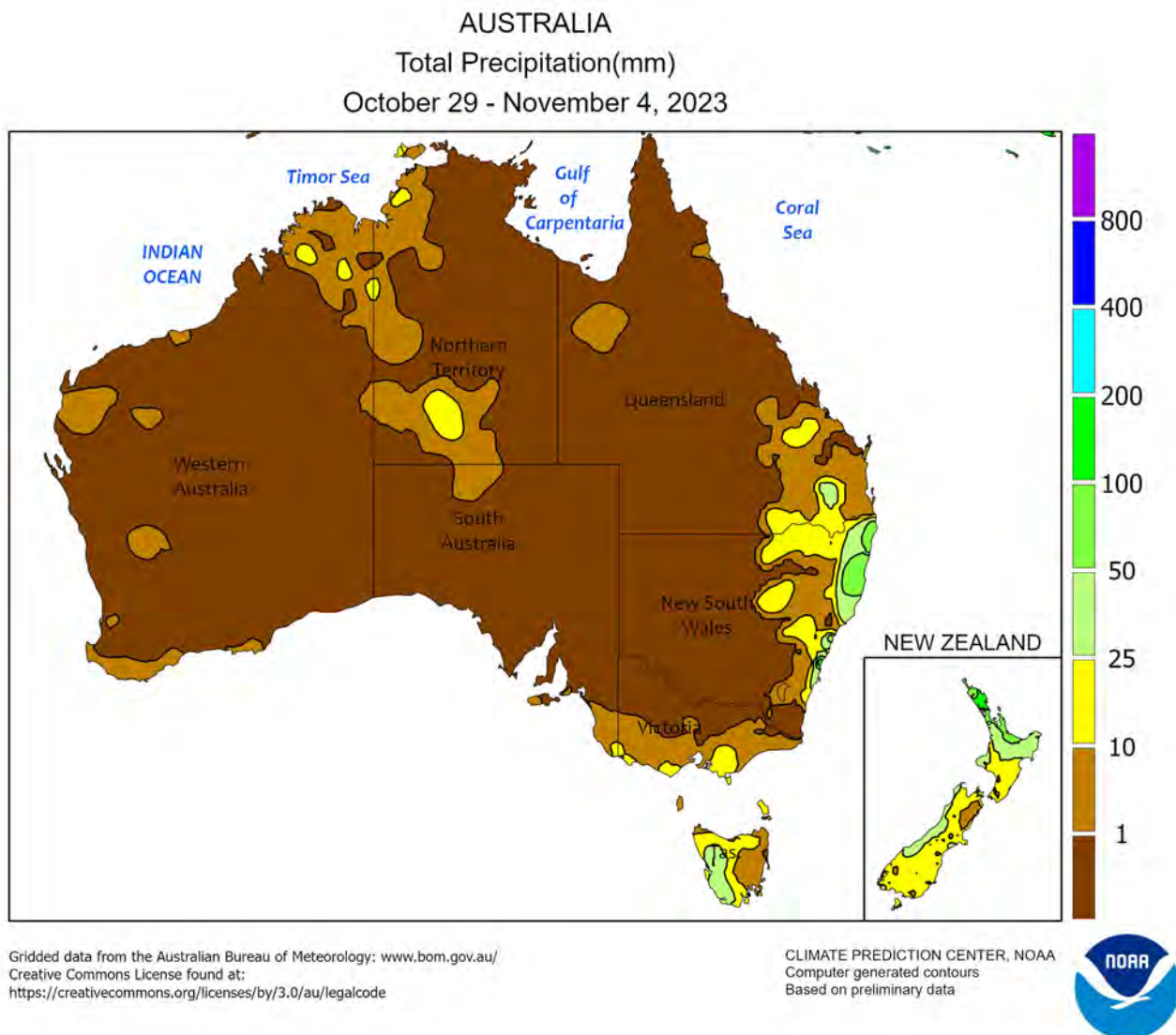
dry weather increased evaporative losses. However, by week's end the high pressure gave way to a storm system moving into the area that brought favorable rainfall (topping 40 mm locally for wheat and 50 mm for rapeseed) as well as cooler weather.



SOUTHEAST ASIA

Showers increased in western Java, Indonesia, with indications the delayed rainy season may soon begin; the ongoing delay has extended to two weeks. Even with the recent precipitation (averaging 35 mm), rainfall deficits for the season (beginning August 1) were over 200 mm, discouraging widespread first-crop rice sowing. In contrast, rainfall was more plentiful (25-100 mm or more) in oil palm areas of Indonesia and neighboring

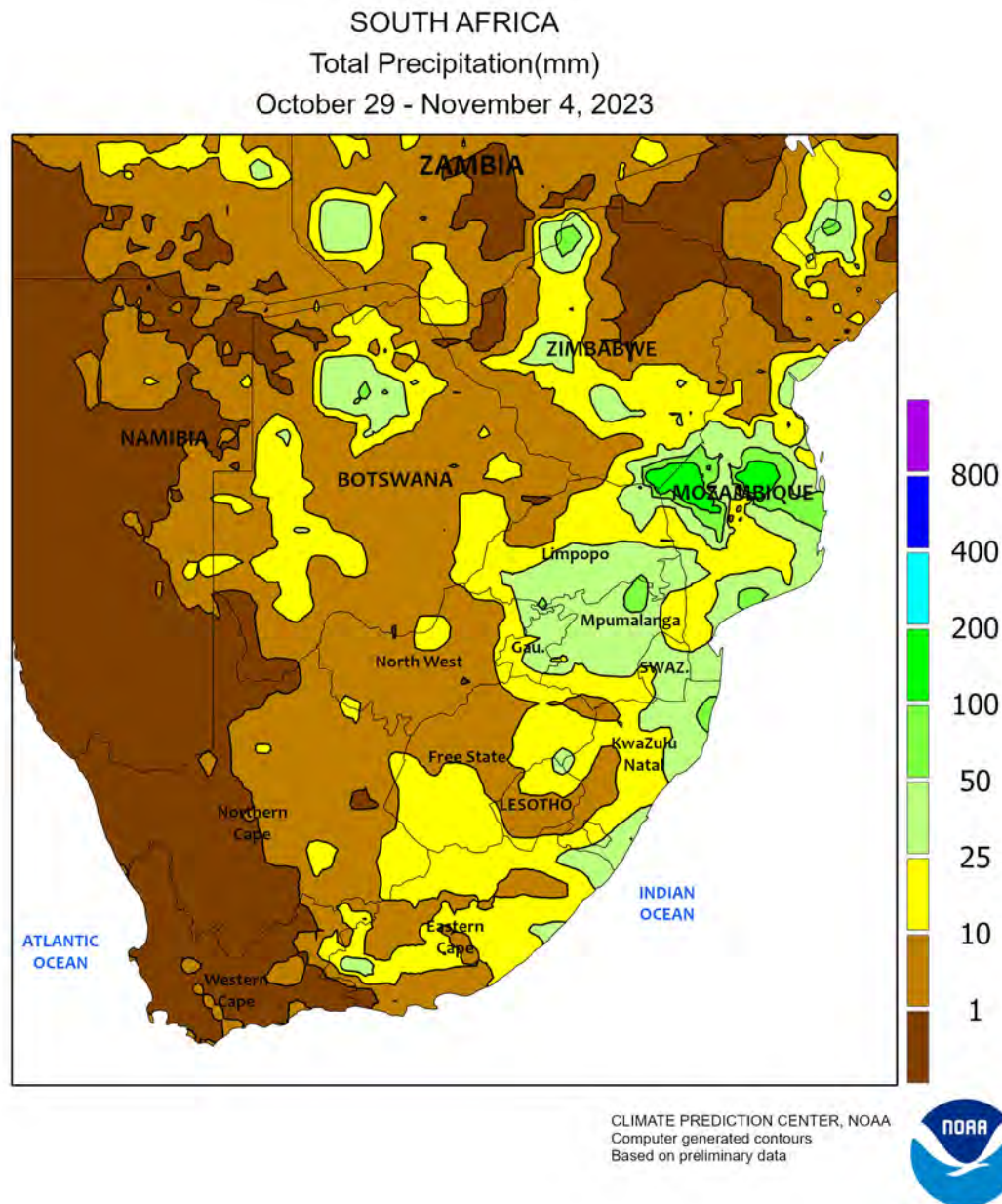
Malaysia while also benefiting second-season rice establishment in the Philippines. Additionally, wet weather (10-50 mm) lingered during the early half of the week in Thailand and environs, aiding establishment of second-season rice and boosting irrigation supplies. Meanwhile, the onshore flow of tropical moisture in minor crop areas of central Vietnam continued to cause flooding with some locales topping 300 mm.



AUSTRALIA

A concentrated area of rain (5-25 mm) overspread the border region of southern Queensland and northern New South Wales, providing a much-needed boost in root zone soil moisture for summer crop planting, germination, and emergence. The rain may have triggered more widespread summer crop sowing in its wake, but follow-up rain is needed to completely eliminate soil moisture deficits and to further

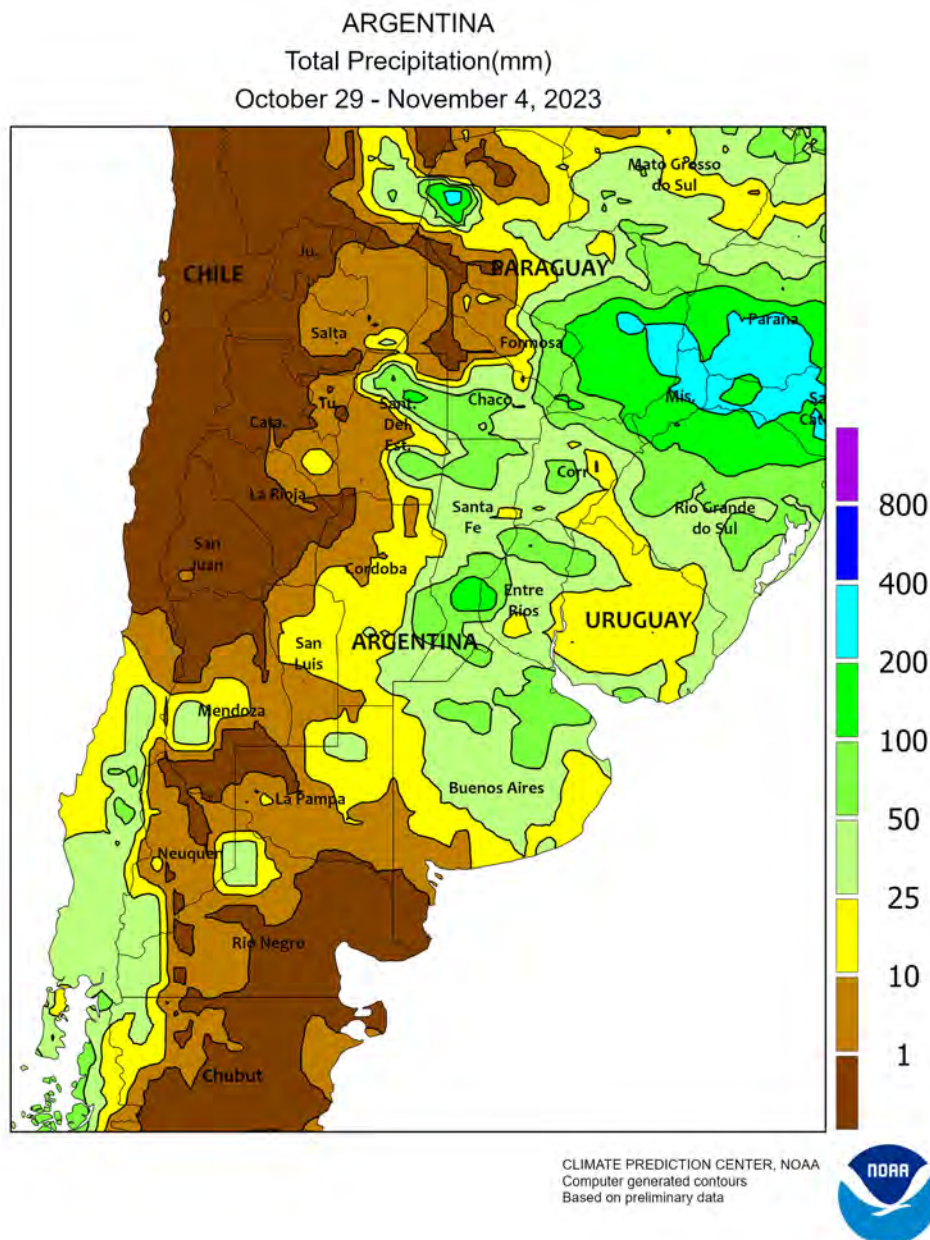
improve early season prospects for dryland summer crops. Elsewhere in the wheat belt, mostly dry weather favored wheat, barley, and canola maturation and harvesting. The relative dryness helped maintain crop quality as well. Temperatures averaged near normal in the northeast, generally 2 to 3°C below normal in the southeast, and roughly 2 to 4°C above normal in the far west.



SOUTH AFRICA

Moderate to heavy showers increased moisture for corn and other summer crops in major commercial production areas in the east. Rainfall totaled 10 to 75 mm from Limpopo southward through KwaZulu-Natal, extending westward across Free State. Planting was likely underway in central sections of the corn belt (Gauteng and environs) in response to the rain. Seasonably drier weather (rainfall totaling below 10 mm) continued farther west, including white corn areas in North West and Free State, where planting typically occurs later in

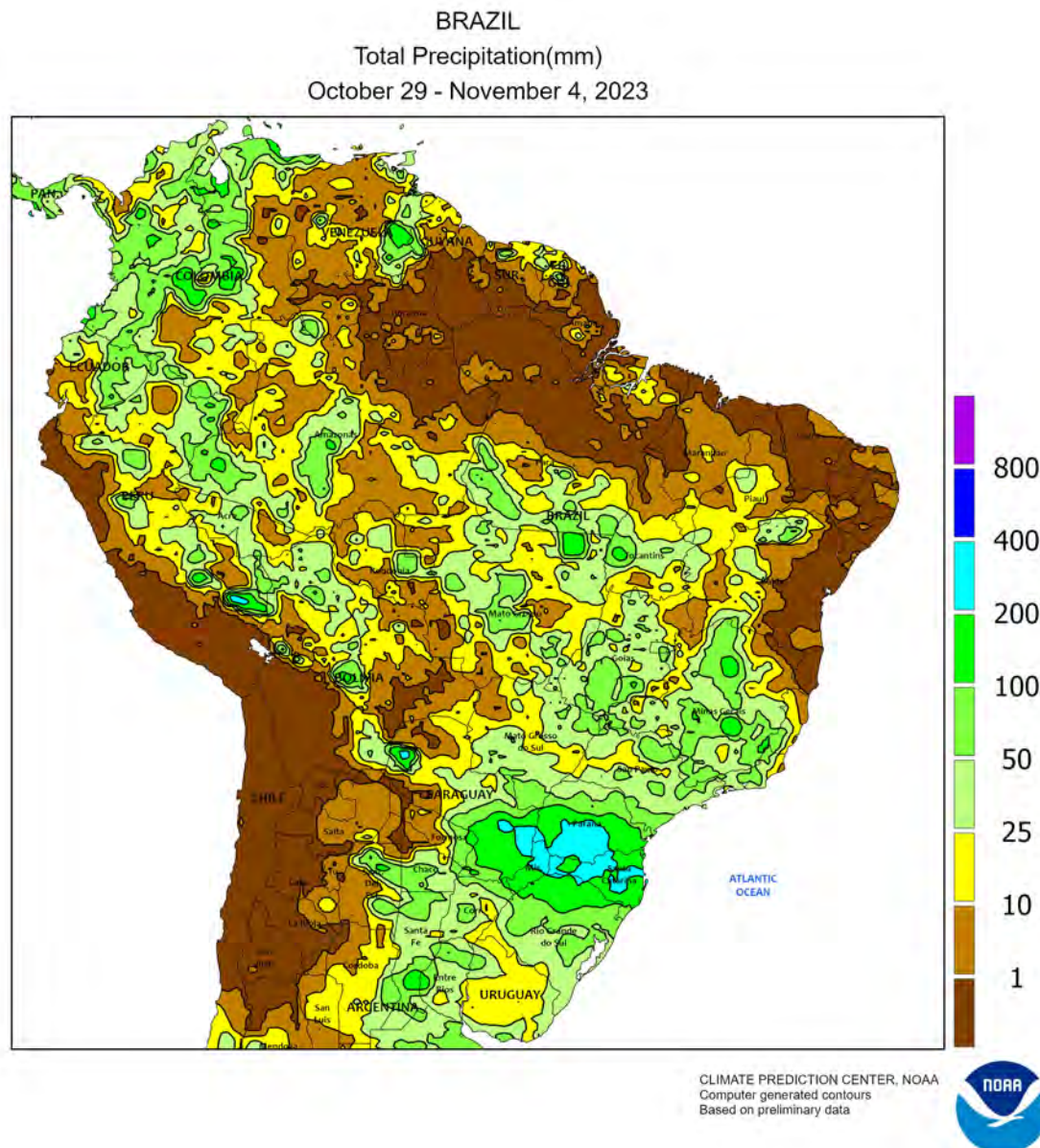
the season. Cooler-than-normal weather (temperatures averaging 4-7°C below normal) lowered evaporative losses in the drier locations; nighttime lows dropped into the lower single digits (degrees C) in and around southern Mpumalanga but no significant damage to emerged summer crops was likely. Elsewhere, locally heavy rain (10-65 mm) fell in sugarcane areas of KwaZulu-Natal and eastern Mpumalanga, while abundant sunshine spurred development of immature wheat, as well as developing tree and vine crops, in Western Cape.



ARGENTINA

For a second week, widespread showers increased moisture for germination of summer crops, while also helping to replenish long-term moisture reserves. The heaviest rainfall (50-150 mm) was concentrated over a large area extending from northern Buenos Aires northward into eastern Paraguay, where amount exceeded 200 mm locally. Most other farming areas recorded 10 to 25 mm, though drier conditions persisted in parts of the northwest. Weekly

average temperatures ranged from 2 to 6°C below normal, with lingering frost in southern farming areas of Buenos Aires. Despite the overall trend of cooler weather, highest daytime temperatures again reached the lower 40s (degrees C) in the far northwest, exacerbating the impacts of the dryness. According to the government of Argentina, sunflowers and corn were 37 and 24 percent harvested, respectively, as of November 2.



BRAZIL

Widespread, locally heavy showers maintained adequate to locally excessive levels of moisture for crops in key farming areas of central and southern Brazil. Showers were highly variable in the Center West and northeastern interior regions (Mato Grosso eastward), with amounts ranging from below 10 mm to more than 50 mm. Despite the showers, daytime highs reached the upper 30s and lower 40s nearly regionwide, maintaining high evaporative losses in the drier spots. According to the government of Mato Grosso, soybeans were 83 percent planted as of November 3, still lagging both last year's pace (89 percent) and the 5-year average (94 percent).

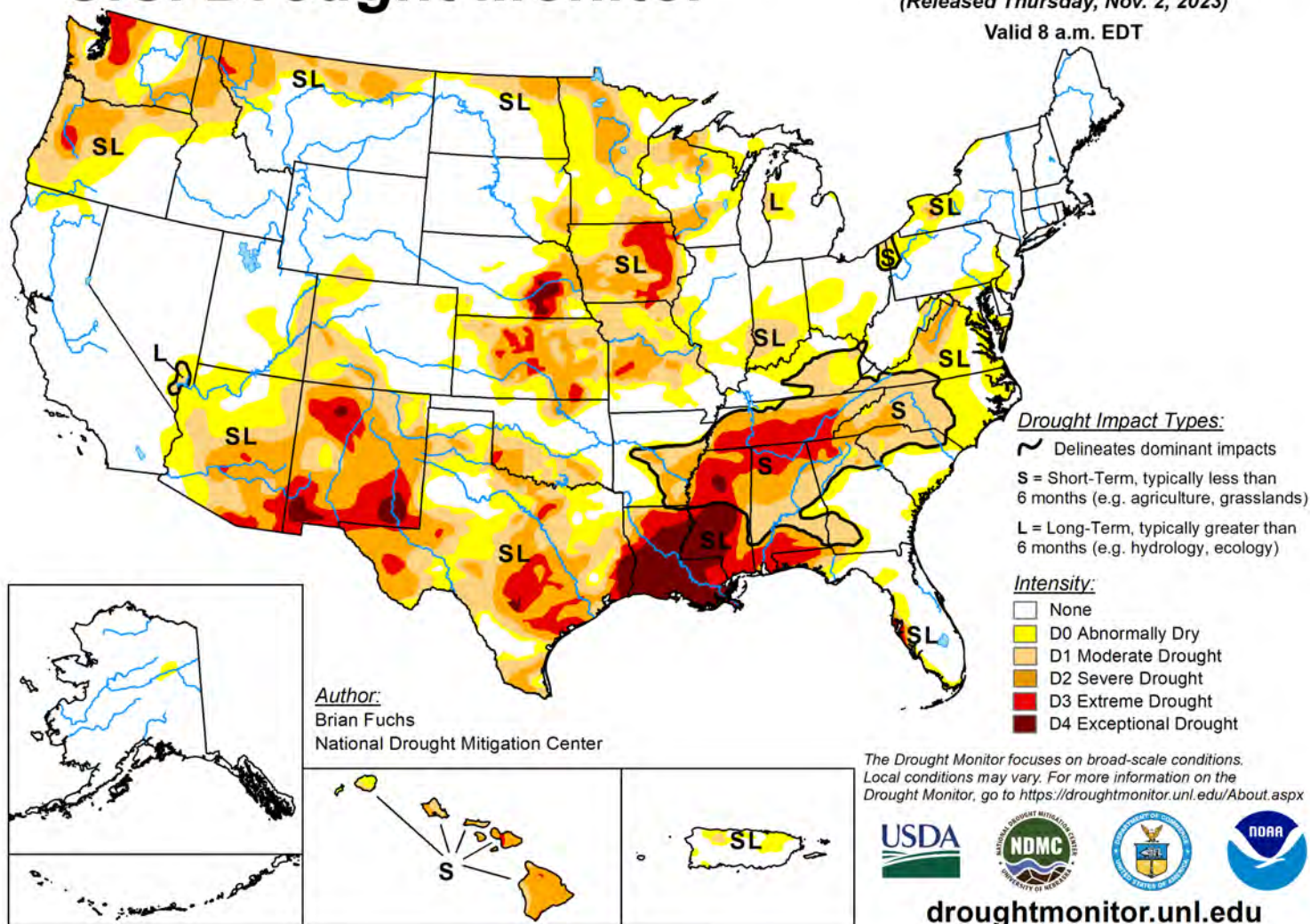
Elsewhere, heavy rain (25-100 mm, locally exceeding 200 mm) stretched from Rio Grande do Sul and Paraná northeastward through Minas Gerais, providing ample moisture for summer crops – including sugarcane and coffee – but keeping unharvested wheat unfavorably wet. According to the government of Rio Grande do Sul, corn was 78 percent planted as of November 1, while 3 percent of soybeans were planted; wheat was 58 percent harvested, up 15 points from the previous week. In Paraná, planting of first-crop corn and soybeans were 93 and 69 percent planted, respectively, as of October 30, while wheat was 89 percent harvested.

U.S. Drought Monitor

October 31, 2023

(Released Thursday, Nov. 2, 2023)

Valid 8 a.m. EDT



The *Weekly Weather and Crop Bulletin* (ISSN 0043-1974) is jointly prepared by the U.S. Department of Commerce, National Oceanic and Atmospheric Administration (NOAA) and the U.S. Department of Agriculture (USDA). Publication began in 1872 as the *Weekly Weather Chronicle*. It is issued under general authority of the Act of January 12, 1895 (44-USC 213), 53rd Congress, 3rd Session. The contents may be redistributed freely with proper credit.

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