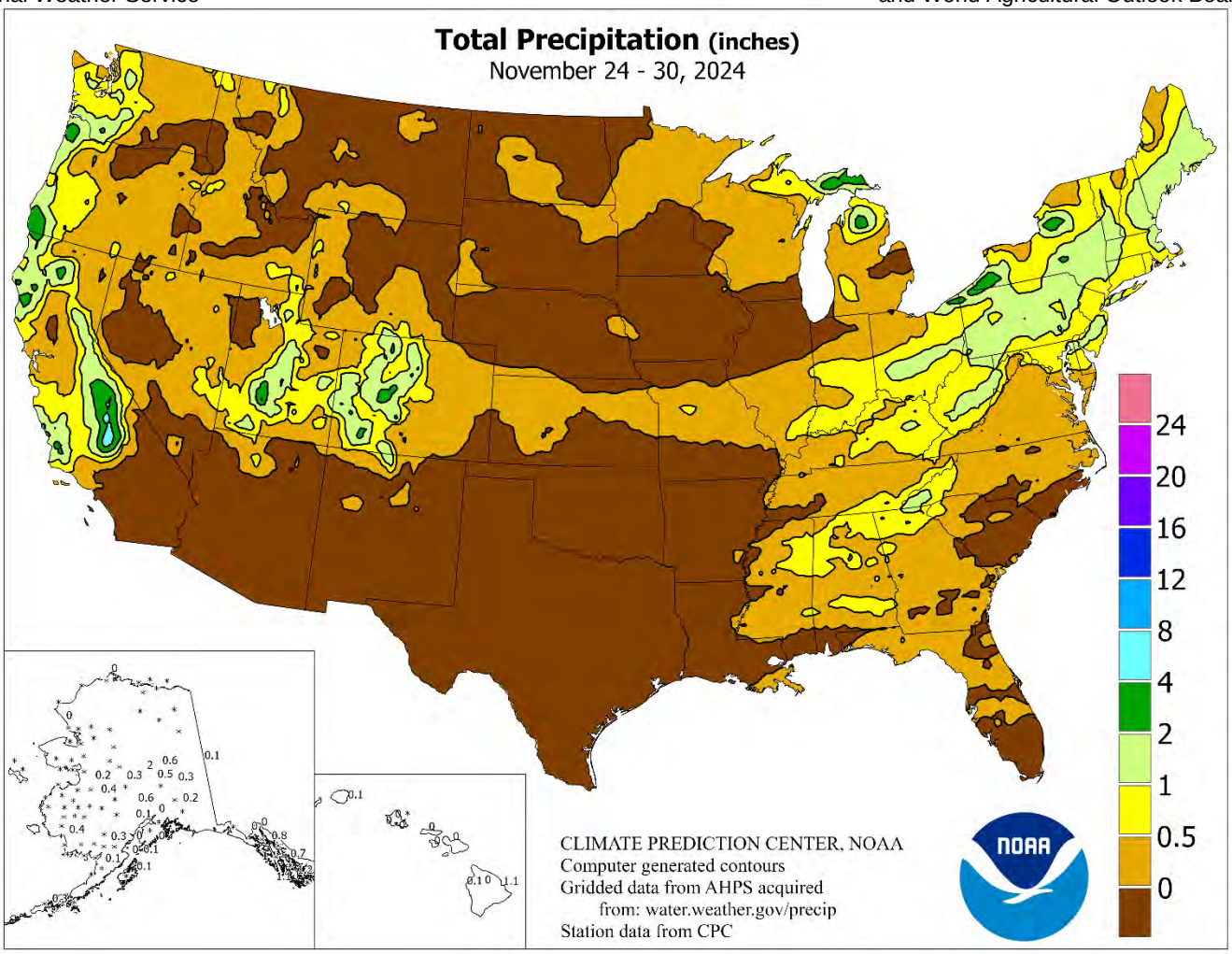
Volume 111, No. 49 www.usda.gov/oce/weather-drought-monitor December 3, 2024

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

November 24 – 30, 2024

Highlights provided by USDA/WAOB

Heavy precipitation subsided early in the week across the **West**, although heavy, high-elevation snow lingered from the **southern Sierra Nevada to the central Rockies**. Thereafter, any meaningful precipitation shifted eastward, from the **Ohio Valley into the Northeast**, with impressive snow squalls developing downwind of the **Great Lakes**. A late-week streak of snow dusted areas from **Kansas to the central Appalachians**, while snow from earlier storm systems remained on the ground across parts of the

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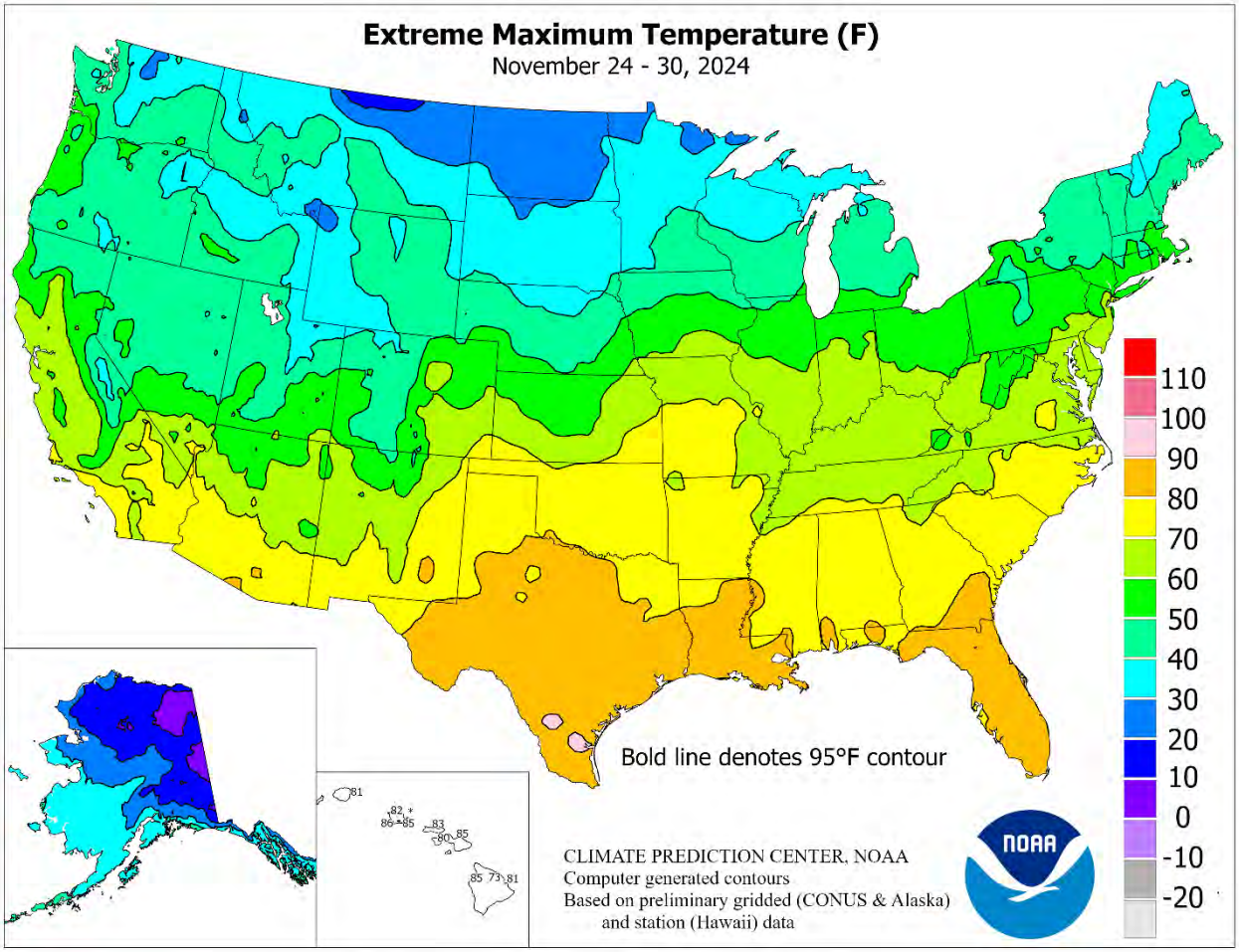
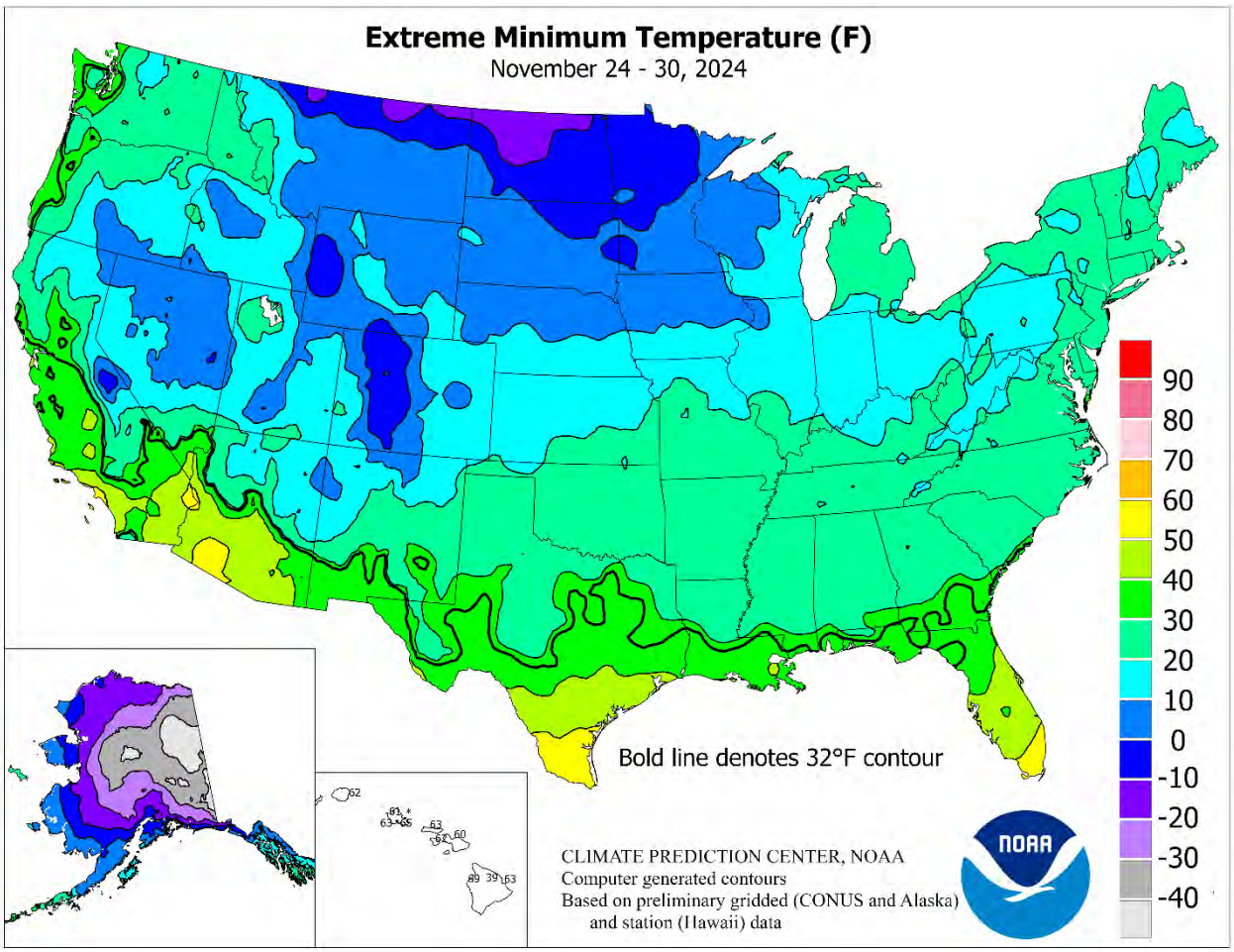
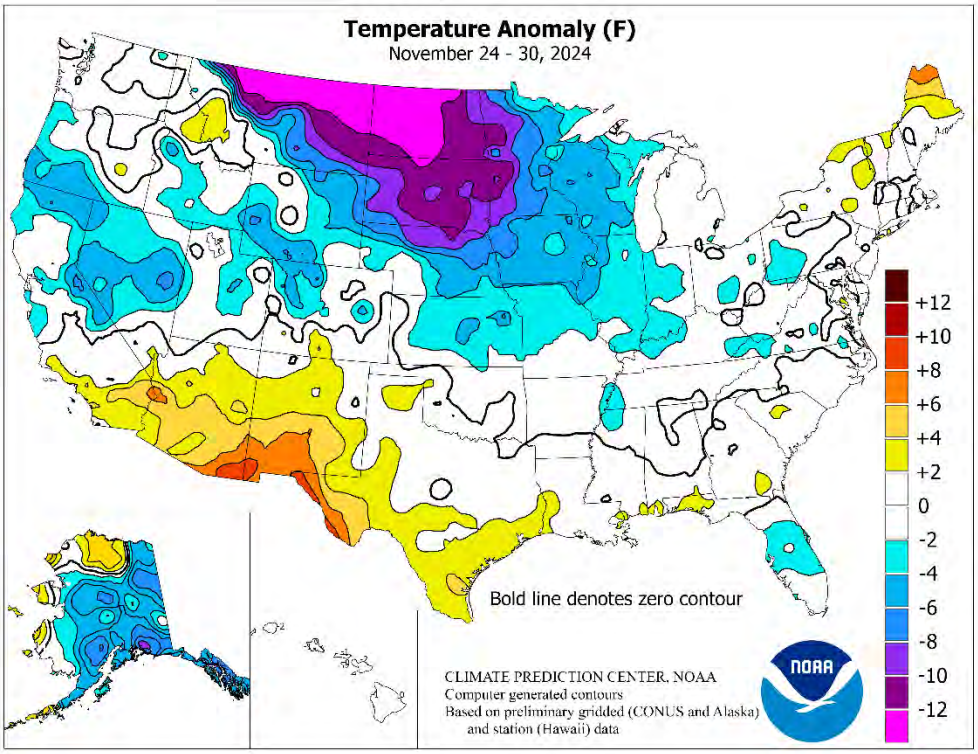

Extreme Maximum Temperature (F)
November 24 - 30, 2024
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
Bold line denotes 95°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS & Alaska)
and station (Hawaii) data
NOAA


Extreme Minimum Temperature (F)
November 24 - 30, 2024
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
Bold line denotes 32°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS and Alaska)
and station (Hawaii) data
NOAA

(Continued from front cover)

nation's northern tier. In fact, snow covered approximately one-quarter of the **Lower 48 States** by the end of November, including higher elevations of the **West** from the **Cascades and Sierra Nevada to the northern and central Rockies**. However, large parts of the country experienced dry weather in late November, favoring farm maintenance and late-season fieldwork, as well as holiday-week travel. Following a wet November across much of the **nation's mid-section**, winter wheat continued to recover from drought-related problems. Across parts of the **northern Plains**, however, the arrival of cold weather curtailed further development of a drought-affected wheat crop that was struggling with poor establishment. As the coldest air of the season settled across areas **east of the Rockies**, weekly temperatures averaged 10 to 20°F below normal from **northern and eastern Montana into the upper Midwest**. Cold air arrived later in the week in other areas, although readings still averaged at least 5°F below normal as far south as **Nebraska** and as far east as **Wisconsin** and **northwestern Illinois**. Elsewhere, lingering warmth from **southeastern Arizona into western Texas** led to weekly temperatures averaging at least 5°F above normal, while there was a gradual erosion of cold air across the remainder of the **West**.

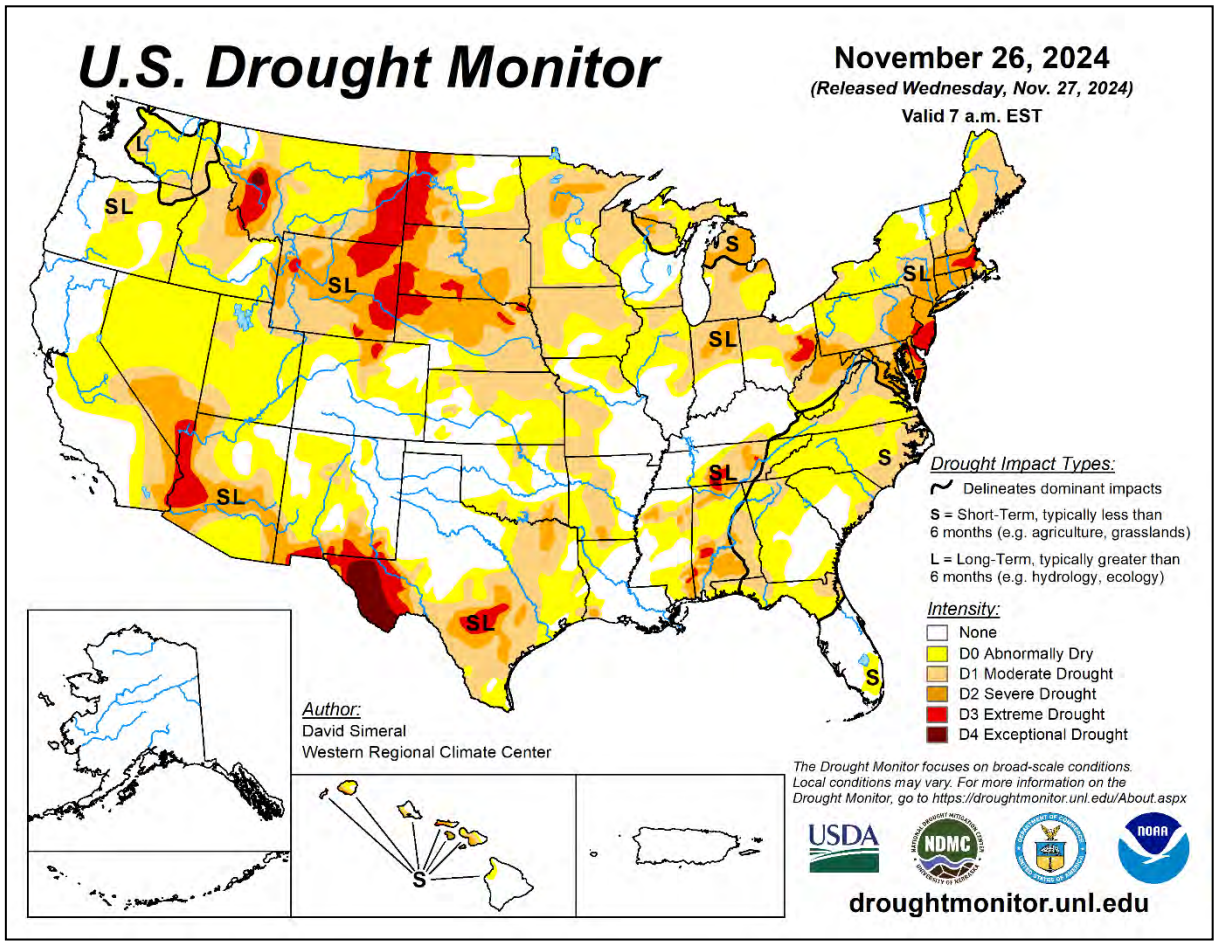


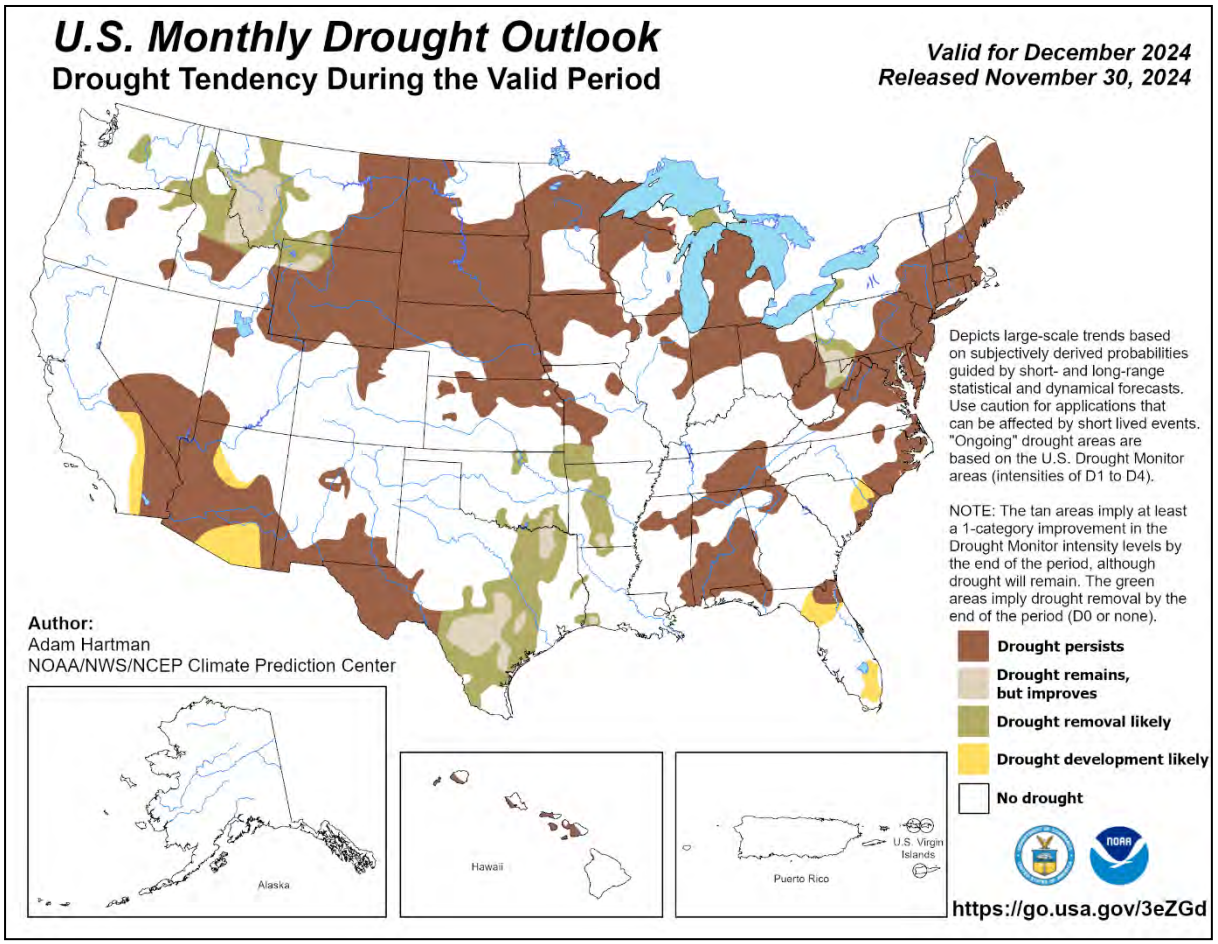
Early in the week, warmth shifted from the **central and southern Plains into the Southeast**. Daily-record highs for November 24 reached 78°F in **Amarillo, TX**, and 74°F in **Chanute, KS**. On the 25th, **Del Rio, TX**, noted its highest temperature of the month (tied with November 4), with the 90-degree reading setting a record for the date. Other **Southern** daily-record highs for November 25 included 89°F in **Victoria, TX**, and 84°F in **Baton Rouge, LA**. On November 27, another surge of warmth—in advance of a cold front—resulted in daily-record highs of 83°F in **Texas** locations such as **Waco** and **Dallas-Ft. Worth**. Despite sharply colder weather late in the week, temperatures largely stayed above record-setting levels for the end of November. For parts of the **South**, consistent warmth until very late in the month resulted in the warmest November on record in many locations from **eastern Texas to western Florida**. With a monthly average temperature of 70.2°F (7.8°F above normal), **New Orleans, LA**, shattered its November 1985 record of 67.3°F. November average temperature records from 1985 were also broken by at least 2°F in several **Mississippi** communities, including **Greenwood** (62.8°F), **Vicksburg** (64.0°F), and **Gulfport** (68.1°F). **Baton Rouge, LA** (69.1°F, or 9.7°F above normal), smashed its November 1919 standard of 66.5°F. It was also the warmest autumn on record in many of the same locations, with September-November average temperatures of 74.9°F in **Baton Rouge**; 73.5°F in **Gulfport**; 70.4°F in **Vicksburg**; and 69.6°F in **Greenwood**.

As the week progressed, increasingly cold air overwhelmed much of the country, with the strongest surge occurring near the end of November. With long trajectories of cold air across the still-warm **Great Lakes**, snow showers raged in squall-prone locations. During the last 6 days of the month, snowfall totaled 42.0 inches in **Sault Ste. Marie, MI**, with 15.7 inches falling on November 29. That marked the second-snowiest November day on record in **Sault Ste. Marie**, behind only 18.2 inches on November 13, 2014. Elsewhere on the 29th, it was the snowiest day on record, during any month, in **Gaylord, MI** (24.8 inches), and **Erie, PA** (22.6 inches). Previous records had been 17.0 inches in **Gaylord** on March 9, 1942, and 21.8 inches in **Erie** on December 26, 2017.

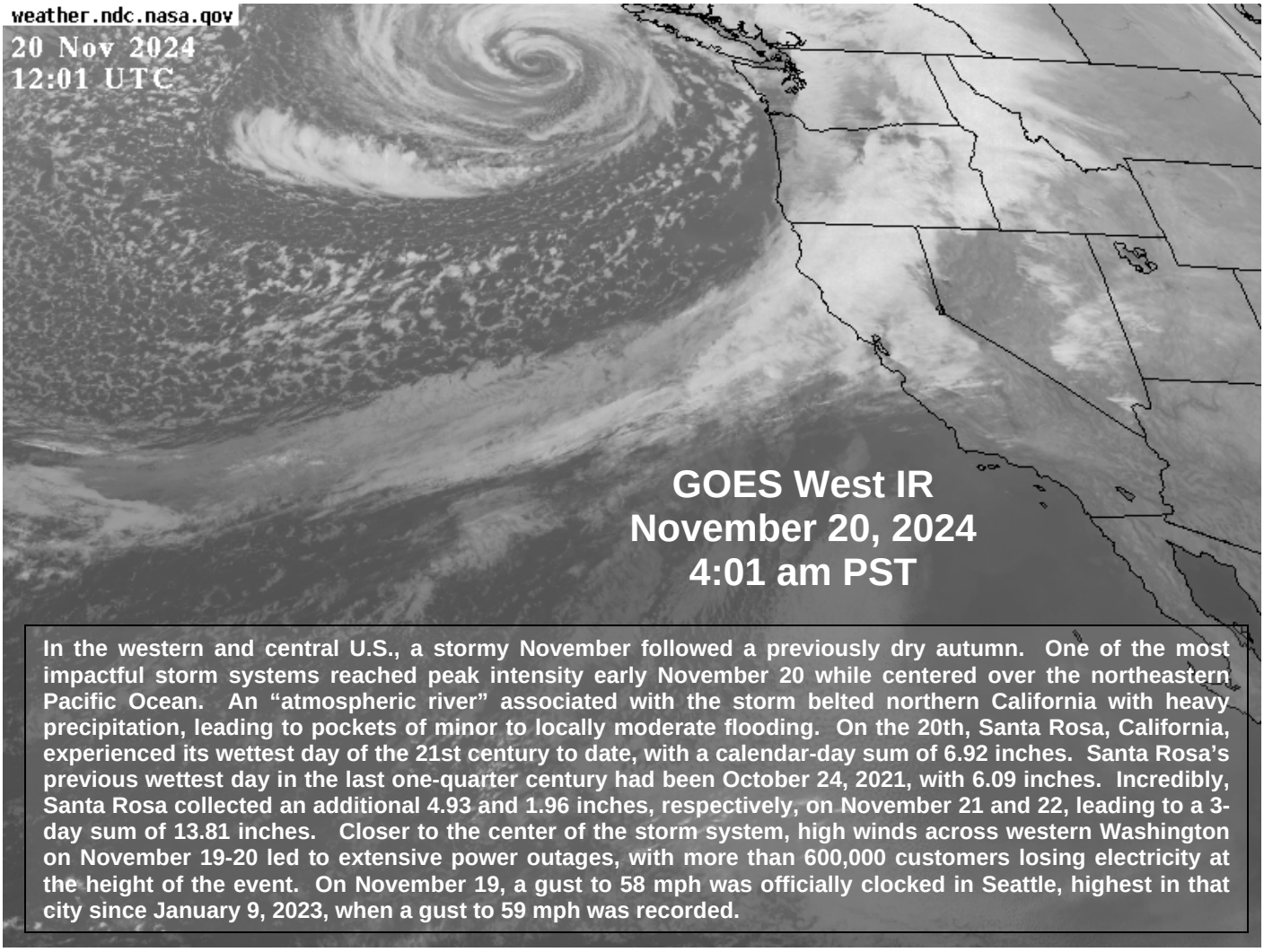
More modest snowfall totals were noted across most of the **northern and western U.S.** In **Montana**, **Billings** measured a daily-record snowfall of 3.3 inches on November 24. Later, **Ely, NV**, noted a record-setting total (6.1 inches) for November 26, followed by a post-storm temperature of -1°F on the 28th. Meanwhile, rain pelted **California's San Joaquin Valley**, where daily-record amounts for November 26 included 1.00 inch in **Hanford** and 0.89 inch in **Bakersfield**. Thanksgiving Day (November 28) featured additional snow in parts of **Montana**, where **Stanford** witnessed 6.0 inches, a record for the date. Late in the week, precipitation was mostly limited to the snow-belt region of the **Great Lakes**. Despite no measurable precipitation during the last 12 days of the month, **Wichita, KS**, completed its wettest November on record, with 6.99 inches (previously, 6.69 inches in 1909). Elsewhere in **Kansas**, **Medicine Lodge** (7.17 inches) also broke a November precipitation record originally set in 1909, while **Chanute** (8.56 inches) edged its November 1931 standard of 8.35 inches. Conversely, many **mid-Atlantic** locations completed their driest autumn on record, with September-November totals of 1.78 inches in **Georgetown, DE**; 2.94 inches in **Atlantic City, NJ**; 3.58 inches in **Allentown, PA**; and 4.13 inches at **JFK Airport in New York**.

Bitterly cold weather gripped **Alaska**, except across the **North Slope** and the **state's western tier**. Weekly temperatures averaged as much as 10°F below normal across **mainland Alaska**, with minima dipping below -40°F in the **east-central section of the state**. Widespread precipitation preceded the coldest weather, with **Fairbanks** receiving 6.2 inches of snow from November 24-26 before logging a low of -33°F on November 28. Significant precipitation also fell in parts of **southeastern Alaska**, where **Juneau** netted 8.8 inches of snow from November 25-28. A bigger storm struck **southeastern Alaska** on December 1, with **Juneau** receiving an additional 14.1 inches of snow. Farther south, the month ended on a quiet note in **Hawaii**, with leeward areas remaining mostly dry and windward slopes experiencing minimal shower activity. At the state's major airport observation sites, November rainfall ranged from 0.17 inch (9 percent of normal) in **Kahului, Maui**, to 13.36 inches (93 percent) in **Hilo**, on the **Big Island**. However, more than half (7.42 inches) of **Hilo's** rain fell during the first 4 days of November.

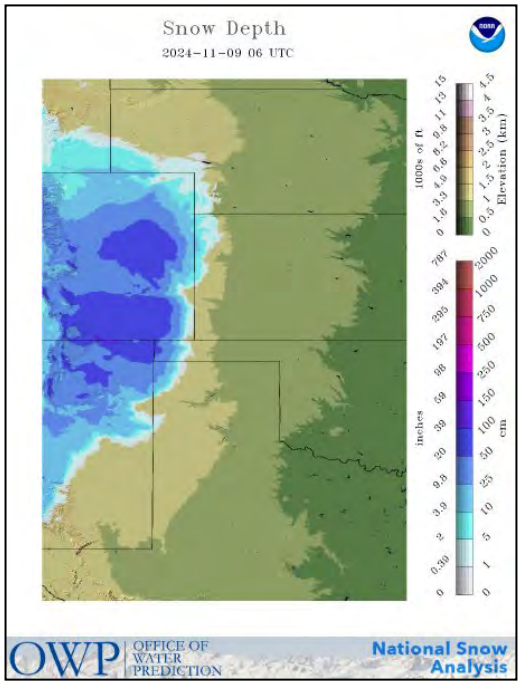

U.S. Drought Monitor
November 26, 2024
(Released Wednesday, Nov. 27, 2024)
Valid 7 a.m. EST
Drought Impact Types:
Delineates dominant impacts
S = Short-Term, typically less than 6 months (e.g. agriculture, grasslands)
L = Long-Term, typically greater than 6 months (e.g. hydrology, ecology)
Intensity:
None
D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D3 Extreme Drought
D4 Exceptional Drought
Author:
David Simeral
Western Regional Climate Center
The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx
droughtmonitor.unl.edu


U.S. Monthly Drought Outlook
Drought Tendency During the Valid Period
Valid for December 2024
Released November 30, 2024
Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Use caution for applications that can be affected by short lived events. "Ongoing" drought areas are based on the U.S. Drought Monitor areas (intensities of D1 to D4).
NOTE: The tan areas imply at least a 1-category improvement in the Drought Monitor intensity levels by the end of the period, although drought will remain. The green areas imply drought removal by the end of the period (D0 or none).
Drought persists
Drought remains, but improves
Drought removal likely
Drought development likely
No drought
Author:
Adam Hartman
NOAA/NWS/NCEP Climate Prediction Center
Alaska
Hawaii
U.S. Virgin Islands
Puerto Rico
https://go.usa.gov/3eZGd

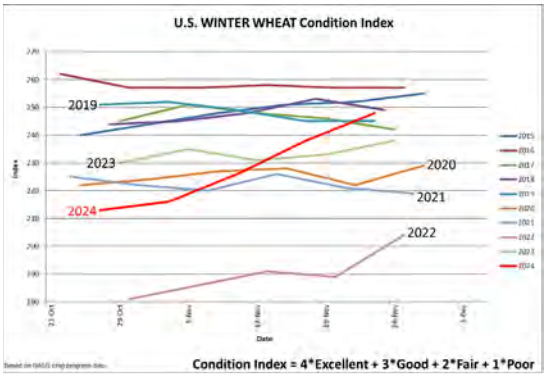
Stormy November Follows a Previously Dry Autumn



In the western and central U.S., a stormy November followed a previously dry autumn. One of the most impactful storm systems reached peak intensity early November 20 while centered over the northeastern Pacific Ocean. An "atmospheric river" associated with the storm belted northern California with heavy precipitation, leading to pockets of minor to locally moderate flooding. On the 20th, Santa Rosa, California, experienced its wettest day of the 21st century to date, with a calendar-day sum of 6.92 inches. Santa Rosa's previous wettest day in the last one-quarter century had been October 24, 2021, with 6.09 inches. Incredibly, Santa Rosa collected an additional 4.93 and 1.96 inches, respectively, on November 21 and 22, leading to a 3-day sum of 13.81 inches. Closer to the center of the storm system, high winds across western Washington on November 19-20 led to extensive power outages, with more than 600,000 customers losing electricity at the height of the event. On November 19, a gust to 58 mph was officially clocked in Seattle, highest in that city since January 9, 2023, when a gust to 59 mph was recorded.



About 2 weeks prior to the arrival of the powerful Pacific system, a multi-day snow event (left) unfolded across the central High Plains and adjacent Rockies. In eastern Colorado, November 5-9 snowfall officially totaled 20.0 inches in Denver, along with 19.3 inches in Colorado Springs and 11.1 inches in Pueblo. Numerous unofficial snowfall totals of 2 to 4 feet or more were reported across the High Plains of Colorado, extending southward into northeastern New Mexico, just clipping western Oklahoma and the northwestern corner of Texas. The heavy, wet snow temporarily increased livestock stress but greatly benefited drought-stressed winter wheat. The remainder of the central and southern Plains received significant rain in early to mid-November, with positive impacts on the wheat crop. In fact, the U.S. winter wheat condition index (right) exhibited its greatest increase of the 21st century to date, when comparing the initial and final autumn reports.



National Weather Data for Selected Cities

Weather Data for the Week Ending November 30, 2024

Accessible Data Available from the Climate Prediction Center

STATES AND STATIONS		TEMPERATURE ˚F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS TEMP. ˚F		NUMBER OF DAYS PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE 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
AK	ANCHORAGE	23	10	38	-3	17	-5	0.29	0.04	0.28	0.00	0	20.88	136	91	66	0	7	2	0
	BARROW	11	-3	21	-11	4	0	0.00	-0.07	0.00	0.00	0	0.02	0	84	73	0	7	0	0
	FAIRBANKS	5	-10	22	-33	-3	-2	0.58	0.43	0.35	0.00	0	18.09	162	88	65	0	7	4	0
	JUNEAU	28	16	34	9	22	-10	0.77	-0.79	0.37	0.00	0	68.98	113	88	63	0	7	3	0
	KODIAK	36	25	38	21	30	-4	0.07	-1.54	0.07	0.00	0	71.27	102	86	64	0	7	1	0
	NOME	18	9	28	3	13	-1	0.00	-0.26	0.00	0.00	0	24.65	152	80	66	0	6	0	0
AL	BIRMINGHAM	64	39	76	27	51	0	0.59	-0.46	0.41	0.00	0	46.92	90	91	49	0	2	2	0
	HUNTSVILLE	61	35	74	26	48	-1	0.50	-0.70	0.41	0.00	0	49.19	101	93	45	0	2	3	0
	MOBILE	69	46	80	31	57	1	0.22	-0.81	0.20	0.00	0	58.19	94	93	44	0	1	2	0
	MONTGOMERY	67	39	79	27	53	0	0.63	-0.32	0.45	0.00	0	46.86	101	94	49	0	2	3	0
AR	FORT SMITH	57	35	75	28	46	-1	0.00	-0.81	0.00	0.00	0	52.74	119	87	51	0	4	0	0
	LITTLE ROCK	59	36	73	27	47	0	0.00	-1.18	0.00	0.00	0	51.98	114	85	47	0	2	0	0
AZ	FLAGSTAFF	50	23	54	12	37	3	0.02	-0.37	0.02	0.00	0	20.31	108	84	40	0	7	1	0
	PHOENIX	77	55	79	51	66	6	0.00	-0.16	0.00	0.00	0	4.43	68	40	17	0	0	0	0
	PRESCOTT	59	33	63	25	46	3	0.00	-0.18	0.00	0.00	0	11.36	95	73	29	0	3	0	0
	TUCSON	77	50	81	45	63	6	0.00	-0.16	0.00	0.00	0	13.36	138	47	21	0	0	0	0
CA	BAKERSFIELD	58	48	65	41	53	0	0.89	0.74	0.89	0.00	0	6.53	123	98	69	0	0	1	1
	EUREKA	54	37	58	30	46	-3	0.66	-0.82	0.35	0.00	0	42.41	130	99	66	0	2	3	0
	FRESNO	57	47	62	40	52	1	1.17	0.94	1.04	0.00	0	10.94	118	95	71	0	0	3	1
	LOS ANGELES	69	55	77	51	62	2	0.00	-0.27	0.00	0.00	0	15.39	152	84	45	0	0	0	0
	REDDING	59	38	65	29	49	-1	0.48	-0.61	0.41	0.00	0	31.85	116	89	42	0	2	3	0
	SACRAMENTO	59	38	61	32	48	-2	0.28	-0.25	0.15	0.00	0	15.88	107	97	52	0	1	2	0
	SAN DIEGO	70	54	75	48	62	1	0.01	-0.24	0.01	0.00	0	11.06	135	88	51	0	0	1	0
	SAN FRANCISCO	59	47	61	43	53	-1	0.41	-0.26	0.31	0.00	0	18.48	118	95	59	0	0	2	0
	STOCKTON	59	38	64	32	48	-3	0.19	-0.22	0.18	0.00	0	12.64	113	96	57	0	1	2	0
CO	ALAMOSA	45	14	53	3	29	5	0.06	-0.02	0.06	0.00	0	11.04	156	88	31	0	7	1	0
	CO SPRINGS	46	23	63	14	34	-1	0.31	0.24	0.19	0.00	0	19.30	122	83	37	0	6	2	0
	DENVER INTL	49	21	65	13	35	0	0.21	0.09	0.15	0.00	0	15.54	109	82	36	0	7	2	0
	GRAND JUNCTION	45	28	58	22	36	2	1.15	1.01	0.99	0.00	0	9.45	111	80	46	0	5	2	1
	PUEBLO	51	22	70	13	37	1	0.29	0.20	0.21	0.00	0	15.08	128	89	37	0	7	2	0
CT	BRIDGEPORT	51	36	57	29	43	1	1.04	0.21	0.74	0.00	0	42.30	105	79	46	0	2	2	1
	HARTFORD	48	33	54	27	40	2	0.70	-0.20	0.55	0.00	0	43.84	101	80	45	0	3	2	1
DC	WASHINGTON	56	41	66	30	49	3	0.46	-0.23	0.38	0.00	0	34.18	88	73	39	0	1	2	0
DE	WILMINGTON	53	33	63	24	43	0	1.33	0.55	0.96	0.00	0	41.10	98	82	44	0	3	2	1
FL	DAYTONA BEACH	75	49	80	42	62	-3	0.46	-0.14	0.46	0.00	0	62.06	126	98	49	0	0	1	0
	JACKSONVILLE	74	45	82	33	59	-1	0.15	-0.37	0.15	0.00	0	65.30	128	95	48	0	0	1	0
	KEY WEST	79	69	83	64	74	-1	0.00	-0.43	0.00	0.00	0	48.00	125	94	69	0	0	0	0
	MIAMI	82	64	85	58	73	0	0.00	-0.67	0.00	0.00	0	70.44	108	86	56	0	0	0	0
	ORLANDO	78	51	83	43	64	-2	0.12	-0.32	0.12	0.00	0	40.01	81	97	44	0	0	1	0
	PENSACOLA	71	50	81	37	60	2	0.04	-1.04	0.04	0.00	0	61.77	97	86	47	0	0	1	0
	TALLAHASSEE	73	45	83	30	59	2	0.18	-0.62	0.10	0.00	0	64.43	117	94	50	0	1	2	0
	TAMPA	74	54	79	49	64	-3	0.67	0.30	0.67	0.00	0	83.12	176	94	53	0	0	1	1
	WEST PALM BEACH	80	59	84	52	69	-2	0.00	-0.75	0.00	0.00	0	66.59	114	99	59	0	0	0	0
GA	ATHENS	64	37	73	28	51	1	0.20	-0.68	0.16	0.00	0	50.03	112	89	40	0	1	2	0
	ATLANTA	63	40	72	31	51	0	0.19	-0.73	0.15	0.00	0	61.29	133	84	44	0	1	2	0
	AUGUSTA	66	38	74	26	52	0	0.03	-0.61	0.02	0.00	0	46.85	117	95	43	0	2	2	0
	COLUMBUS	66	41	75	31	53	-1	0.54	-0.46	0.49	0.00	0	55.65	134	89	45	0	1	2	0
	MACON	67	37	75	26	52	-1	0.31	-0.52	0.20	0.00	0	46.70	109	96	47	0	3	2	0
	SAVANNAH	70	46	80	31	58	2	0.10	-0.48	0.06	0.00	0	56.72	126	91	48	0	1	2	0
HI	HILO	80	66	81	63	73	0	1.07	-2.28	0.70	0.00	0	94.53	86	96	68	0	0	4	1
	HONOLULU	83	69	85	65	76	-1	0.00	-0.49	0.00	0.00	0	11.52	80	86	50	0	0	0	0
	KAHULUI	83	66	85	60	74	-2	0.04	-0.46	0.04	0.00	0	10.81	80	87	56	0	0	1	0
	LIHUE	80	67	81	62	74	-2	0.06	-0.93	0.04	0.00	0	31.79	100	93	62	0	0	3	0
IA	BURLINGTON	40	24	62	14	32	-4	0.00	-0.49	0.00	0.00	0	34.93	96	84	55	0	6	0	0
	CEDAR RAPIDS	37	19	56	8	28	-4	0.00	-0.41	0.00	0.00	0	33.44	97	89	55	0	6	0	0
	DES MOINES	39	21	60	11	30	-5	0.00	-0.41	0.00	0.00	0	38.14	108	83	49	0	6	0	0
	DUBUQUE	35	20	48	9	27	-4	0.00	-0.48	0.00	0.00	0	35.47	97	88	59	0	6	0	0
	SIOUX CITY	33	15	46	5	24	-7	0.07	-0.20	0.07	0.00	0	32.24	113	87	52	0	7	1	0
	WATERLOO	37	20	53	8	28	-4	0.01	-0.36	0.01	0.00	0	38.60	110	79	50	0	6	1	0
ID	BOISE	44	28	51	22	36	-1	0.13	-0.18	0.13	0.00	0	12.61	125	86	48	0	6	1	0
	LEWISTON	44	33	49	28	38	0	0.20	-0.07	0.13	0.00	0	10.11	86	93	66	0	3	2	0
	POCATELLO	39	20	46	13	29	-1	0.22	-0.02	0.21	0.00	0	12.53	116	90	58	0	7	2	0
IL	CHICAGO/O_HARE	39	27	52	14	33	-3	0.00	-0.54	0.00	0.00	0	34.36	95	79	55	0	4	0	0
	MOLINE	40	24	59	13	32	-4	0.00	-0.51	0.00	0.00	0	31.54	86	79	52	0	6	0	0
	PEORIA	42	26	59	16	34	-3	0.00	-0.57	0.00	0.00	0	32.25	91	79	52	0	6	0	0
	ROCKFORD	37	23	51	11	30	-3	0.00	-0.51	0.00	0.00	0	34.69	98	80	53	0	6	0	0
	SPRINGFIELD	43	27	63	16	35	-4	0.00	-0.59	0.00	0.00	0	22.63	64	92	56	0	5	0	0
IN	EVANSVILLE	49	31	66	21	40	-2	0.57	-0.43	0.31	0.00	0	42.60	96	89	49	0	4	3	0
	FORT WAYNE	42	29	60	15	36	-1	0.36	-0.34	0.30	0.00	0	32.54	87	83	59	0	5	2	0
	INDIANAPOLIS	44	28	61	14	36	-3	0.56	-0.22	0.49	0.00	0	39.55	96	89	52	0	4	2	0
	SOUTH BEND	41	29	57	15	35	0	0.19	-0.41	0.17	0.00	0	39.56	107	83	58	0	5	2	0
KS	CONCORDIA	45	25	56	16	35	-2	0.12	-0.13	0.12	0.00	0	23.33	86	87	51	0	6	1	0
	DODGE CITY	49	25	62	19	37	-2	0.19	0.03	0.19	0.00	0	32.22	153	90	52	0	6	1	0
	GOODLAND	50	23	59	17	36	1	0.23	0.14	0.23	0.00	0	15.44	84	87	35	0	7	1	0
	TOPEKA	46	26	69	18	36	-3	0.39	0.01	0.21	0.00	0	26.94	76	85	47	0	6	2	0

Based on 1991-2020 normals

***** Not Available**

Weather Data for the Week Ending November 30, 2024

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS TEMP. °F		NUMBER OF DAYS PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE SEP 1	PCT. NORMAL SINCE SEP 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	WICHITA	49	28	64	21	39	-2	0.00	-0.28	0.00	0.00	0	31.62	95	86	46	0	6	0	0
KY	LEXINGTON	50	33	63	19	41	-1	0.85	-0.02	0.35	0.00	0	43.58	95	89	52	0	2	4	0
	LOUISVILLE	51	34	65	22	43	-2	0.58	-0.31	0.26	0.00	0	48.46	109	82	43	0	3	4	0
	PADUCAH	53	33	67	24	43	-1	0.25	-0.76	0.23	0.00	0	49.50	107	86	44	0	4	2	0
LA	BATON ROUGE	73	47	84	33	60	3	0.00	-0.93	0.00	0.00	0	62.59	110	87	47	0	0	0	0
	LAKE CHARLES	72	48	82	34	60	2	0.02	-0.95	0.01	0.00	0	60.83	110	88	51	0	0	2	0
	NEW ORLEANS	70	52	81	43	61	1	0.35	-0.56	0.26	0.00	0	76.96	131	94	61	0	0	4	0
	SHREVEPORT	68	41	81	28	55	1	***	***	***	***	***	***	***	88	46	0	2	***	***
MA	BOSTON	48	36	52	32	42	1	1.01	0.09	0.80	0.00	0	40.28	102	76	47	0	1	2	1
	WORCESTER	43	32	48	26	38	1	0.72	-0.26	0.58	0.00	0	47.02	106	81	49	0	4	2	1
MD	BALTIMORE	54	33	64	21	44	0	0.91	0.17	0.64	0.00	0	33.20	80	84	42	0	2	2	1
ME	CARIBOU	39	30	41	25	34	7	1.30	0.51	0.47	0.00	0	31.94	85	88	72	0	4	7	0
	PORTLAND	44	29	47	23	37	0	1.51	0.51	1.20	0.00	0	40.37	92	90	58	0	6	2	1
MI	ALPENA	37	27	42	24	32	-1	1.06	0.61	0.41	0.00	0	32.60	117	90	65	0	7	5	0
	GRAND RAPIDS	37	29	47	23	33	-3	0.80	0.16	0.22	0.00	0	34.67	93	90	71	0	5	6	0
	HOUGHTON LAKE	35	26	41	22	30	-1	0.64	0.17	0.27	0.00	0	17.29	80	94	72	0	6	5	0
	LANSING	37	29	47	22	33	-2	0.14	-0.38	0.14	0.00	0	31.89	101	89	68	0	5	1	0
	MUSKEGON	40	32	49	25	36	-1	0.34	-0.29	0.13	0.00	0	32.85	100	78	59	0	4	4	0
	TRAVERSE CITY	37	30	45	25	34	-1	0.76	0.30	0.30	0.00	0	22.74	83	87	63	0	6	4	0
MN	DULUTH	24	13	34	0	19	-6	0.44	0.05	0.34	0.00	0	27.40	92	85	70	0	7	3	0
	INT_L FALLS	23	12	30	-1	18	-3	0.52	0.26	0.30	0.00	0	27.17	111	88	72	0	7	7	0
	MINNEAPOLIS	28	18	42	6	23	-6	0.00	-0.34	0.00	0.00	0	35.45	116	80	56	0	6	0	0
	ROCHESTER	29	16	42	4	22	-6	0.05	-0.33	0.05	0.00	0	34.83	104	85	63	0	6	1	0
	ST. CLOUD	25	14	40	2	20	-6	0.08	-0.17	0.07	0.00	0	34.48	124	82	60	0	7	2	0
MO	COLUMBIA	46	28	70	19	37	-4	0.46	-0.10	0.31	0.00	0	39.88	101	88	55	0	5	2	0
	KANSAS CITY	43	26	65	18	35	-4	0.29	-0.15	0.18	0.00	0	34.80	92	87	53	0	6	2	0
	SAINT LOUIS	49	32	71	26	40	-1	0.46	-0.26	0.30	0.00	0	46.98	119	79	45	0	4	2	0
	SPRINGFIELD	52	30	72	21	41	-2	0.01	-0.70	0.01	0.00	0	40.87	96	90	48	0	5	1	0
MS	JACKSON	67	41	78	27	54	2	0.24	-0.85	0.24	0.00	0	66.54	127	94	54	0	2	1	0
	MERIDIAN	66	38	78	27	52	-1	0.39	-0.67	0.35	0.00	0	47.58	92	96	51	0	2	3	0
	TUPELO	61	36	77	24	49	-1	0.41	-0.89	0.31	0.00	0	46.65	89	89	48	0	2	2	0
MT	BILLINGS	32	16	41	6	24	-8	0.18	0.06	0.18	0.00	0	12.27	89	90	64	0	7	1	0
	BUTTE	36	13	41	6	25	2	0.08	-0.04	0.08	0.00	0	9.76	80	84	43	0	7	1	0
	CUT BANK	21	1	35	-6	11	-16	0.00	-0.06	0.00	0.00	0	7.41	70	93	75	0	7	0	0
	GLASGOW	17	4	24	-4	10	-15	0.08	-0.01	0.03	0.00	0	11.78	90	82	66	0	7	3	0
	GREAT FALLS	30	10	42	3	20	-10	0.00	-0.13	0.00	0.00	0	15.00	105	98	67	0	7	0	0
	HAVRE	17	0	20	-8	8	-19	0.07	-0.02	0.04	0.00	0	16.09	140	94	76	0	7	2	0
	MISSOULA	40	27	45	23	33	5	0.10	-0.16	0.07	0.00	0	11.45	87	93	58	0	7	2	0
NC	ASHEVILLE	56	31	70	25	44	-1	0.23	-0.69	0.12	0.00	0	61.63	135	89	40	0	5	2	0
	CHARLOTTE	63	34	70	24	49	0	0.18	-0.58	0.15	0.00	0	49.87	124	87	35	0	2	2	0
	GREENSBORO	60	33	69	24	46	0	0.18	-0.57	0.12	0.00	0	54.37	133	90	37	0	2	2	0
	HATTERAS	62	49	71	39	56	0	0.34	-0.75	0.34	0.00	0	48.64	85	91	60	0	0	1	0
	RALEIGH	64	36	73	28	50	1	0.45	-0.30	0.39	0.00	0	53.28	124	87	35	0	2	2	0
	WILMINGTON	67	41	77	27	54	1	0.20	-0.63	0.20	0.00	0	54.07	95	92	44	0	1	1	0
ND	BISMARCK	19	4	28	-6	12	-13	0.18	0.05	0.15	0.00	0	17.83	96	91	64	0	7	2	0
	DICKINSON	20	2	27	0	11	-15	0.00	-0.06	0.00	0.00	0	12.85	83	89	65	0	7	0	0
	FARGO	17	6	31	-8	12	-12	0.19	0.00	0.12	0.00	0	21.82	94	89	71	0	7	2	0
	GRAND FORKS	18	8	31	-6	13	-8	0.13	-0.03	0.07	0.00	0	24.65	116	83	66	0	7	2	0
	JAMESTOWN	18	6	27	-4	12	-11	0.07	-0.01	0.07	0.00	0	20.00	102	89	67	0	7	1	0
NE	GRAND ISLAND	39	20	48	14	29	-5	0.00	-0.24	0.00	0.00	0	27.81	107	88	48	0	7	0	0
	LINCOLN	41	21	56	12	31	-4	0.00	-0.27	0.00	0.00	0	26.69	97	81	45	0	7	0	0
	NORFOLK	35	18	48	8	26	-5	0.05	-0.21	0.05	0.00	0	26.78	102	81	53	0	7	1	0
	NORTH PLATTE	46	16	48	12	31	-1	0.00	-0.08	0.00	0.00	0	21.78	105	82	40	0	7	0	0
	OMAHA	37	22	55	11	29	-6	0.00	-0.30	0.00	0.00	0	32.76	106	85	52	0	6	0	0
	SCOTTSBLUFF	46	16	50	10	31	-2	0.05	-0.06	0.05	0.00	0	12.96	85	83	35	0	7	1	0
	VALENTINE	32	11	38	6	21	-10	0.04	-0.07	0.04	0.00	0	16.95	82	94	61	0	7	1	0
NH	CONCORD	43	26	48	22	35	0	1.04	0.24	0.67	0.00	0	38.43	100	90	57	0	6	3	1
NJ	ATLANTIC_CITY	55	34	63	27	44	1	0.72	-0.11	0.68	0.00	0	39.88	95	81	44	0	3	2	1
	NEWARK	53	37	62	27	45	2	1.09	0.24	0.89	0.00	0	37.87	89	74	39	0	2	3	1
NM	ALBUQUERQUE	56	33	66	26	45	3	0.00	-0.13	0.00	0.00	0	8.72	104	64	28	0	3	0	0
NV	ELY	37	12	42	0	24	-6	0.52	0.40	0.29	0.00	0	9.56	108	88	56	0	7	3	0
	LAS VEGAS	62	46	69	39	54	2	0.00	-0.08	0.00	0.00	0	2.15	57	48	26	0	0	0	0
	RENO	46	23	49	18	34	-6	0.12	-0.06	0.12	0.00	0	6.91	109	88	36	0	7	1	0
	WINNEMUCCA	44	19	46	9	32	-3	0.08	-0.09	0.08	0.00	0	9.98	145	87	43	0	7	1	0
NY	ALBANY	44	30	49	22	37	0	2.06	1.33	1.15	0.00	0	40.58	108	86	51	0	4	3	2
	BINGHAMTON	38	29	49	18	34	0	1.50	0.78	0.81	0.00	0	42.13	107	90	62	0	6	5	2
	BUFFALO	44	31	52	24	38	1	0.66	-0.15	0.25	0.00	0	32.18	86	85	53	0	3	5	0
	ROCHESTER	43	31	50	24	37	0	0.63	0.00	0.24	0.00	0	34.37	105	86	53	0	3	3	0
	SYRACUSE	44	34	51	27	39	3	1.31	0.59	0.50	0.00	0	41.50	113	83	54	0	3	4	1
OH	AKRON-CANTON	41	29	53	18	35	-3	1.11	0.40	0.33	0.00	0	36.55	94	89	64	0	4	6	0
	CINCINNATI	46	31	61	16	39	-2	0.82	0.01	0.34	0.00	0	40.33	96	93	56	0	3	4	0
	CLEVELAND	43	31	55	20	37	-3	0.60	-0.16	0.22	0.00	0	32.08	84	85	58	0	2	3	0
	COLUMBUS	44	31	59	19	38	-2	1.45	0.79	0.56	0.00	0	32.77	85	89	58	0	3	3	2
	DAYTON	44	31	60	16	38	-2	1.08	0.35	0.78	0.00	0	37.20	96	94	59	0	3	3	1
	MANSFIELD	41	30	55	19	35	-2	0.88	0.15	0.32	0.00	0	31.20	78	86	59	0	4	4	0

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

Weather Data for the Week Ending November 30, 2024

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS TEMP. °F		NUMBER OF DAYS PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE SEP 1	PCT. NORMAL SINCE SEP 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
	TOLEDO	42	31	57	20	37	-2	0.13	-0.50	0.10	0.00	0	34.33	105	84	57	0	4	3	0
	YOUNGSTOWN	42	29	53	20	36	-2	0.88	0.19	0.38	0.00	0	43.23	113	88	61	0	4	4	0
OK	OKLAHOMA CITY	57	33	75	23	45	0	0.00	-0.34	0.00	0.00	0	37.97	109	87	41	0	4	0	0
	TULSA	57	34	76	24	45	-1	0.00	-0.51	0.00	0.00	0	48.08	124	86	45	0	4	0	0
OR	ASTORIA	51	38	55	31	44	-1	1.12	-1.61	0.56	0.00	0	62.57	104	93	70	0	1	4	1
	BURNS	42	23	46	17	32	2	0.21	-0.07	0.19	0.00	0	11.76	132	85	53	0	7	2	0
	EUGENE	46	37	56	31	41	-2	0.57	-1.07	0.43	0.00	0	32.32	95	95	75	0	1	3	0
	MEDFORD	44	31	56	25	37	-5	0.24	-0.50	0.14	0.00	0	17.98	120	95	65	0	4	2	0
	PENDLETON	42	33	52	29	38	0	0.04	-0.28	0.04	0.00	0	12.74	111	94	69	0	4	1	0
	PORTLAND	47	39	52	34	43	-1	0.92	-0.48	0.75	0.00	0	33.85	108	90	70	0	0	4	1
	SALEM	47	38	53	31	42	-2	0.20	-1.39	0.19	0.00	0	36.96	111	89	68	0	1	2	0
PA	ALLENTOWN	48	32	59	21	40	0	0.81	-0.05	0.62	0.00	0	37.91	87	83	49	0	2	3	1
	ERIE	44	33	54	23	39	-1	2.97	2.09	1.68	0.00	0	34.56	88	90	60	0	2	7	2
	MIDDLETOWN	49	33	58	26	41	0	0.96	0.23	0.77	0.00	0	41.64	101	82	49	0	2	3	1
	PHILADELPHIA	53	36	62	27	44	1	1.20	0.43	0.85	0.00	0	37.60	93	79	43	0	2	2	1
	PITTSBURGH	44	30	56	21	37	-2	1.24	0.56	0.36	0.00	0	40.81	110	86	56	0	4	4	0
	WILKES-BARRE	43	31	55	21	37	-2	1.15	0.48	0.71	0.00	0	39.37	109	93	59	0	2	4	1
	WILLIAMSPORT	45	29	54	20	37	-1	1.76	0.95	0.91	0.00	0	42.70	105	90	57	0	5	5	1
RI	PROVIDENCE	47	32	52	28	40	-1	0.72	-0.40	0.62	0.00	0	53.50	124	87	52	0	5	2	1
SC	CHARLESTON	68	44	76	30	56	1	0.03	-0.59	0.03	0.00	0	52.95	107	97	47	0	1	1	0
	COLUMBIA	66	41	75	27	53	2	0.03	-0.64	0.03	0.00	0	51.92	124	94	45	0	1	1	0
	FLORENCE	66	40	74	25	53	1	0.00	-0.62	0.00	0.00	0	47.69	113	92	46	0	1	0	0
	GREENVILLE	63	35	72	25	49	0	0.19	-0.77	0.15	0.00	0	50.57	112	90	34	0	2	2	0
SD	ABERDEEN	23	7	31	-4	15	-11	0.17	0.03	0.15	0.00	0	21.17	99	83	61	0	7	2	0
	HURON	27	9	35	2	18	-10	0.02	-0.15	0.02	0.00	0	21.39	94	87	54	0	7	1	0
	RAPID CITY	31	13	35	7	22	-8	0.00	-0.08	0.00	0.00	0	14.15	82	87	60	0	7	0	0
	SIOUX FALLS	29	13	40	4	21	-8	0.07	-0.18	0.07	0.00	0	30.55	112	84	57	0	7	1	0
TN	BRISTOL	53	28	66	22	41	-2	0.47	-0.36	0.37	0.00	0	41.41	102	93	49	0	6	3	0
	CHATTANOOGA	60	36	71	27	48	0	0.84	-0.46	0.28	0.00	0	40.93	81	88	44	0	2	4	0
	KNOXVILLE	56	33	68	22	45	-1	0.52	-0.66	0.24	0.00	0	52.21	110	91	49	0	3	4	0
	MEMPHIS	57	38	68	27	47	-2	0.10	-1.18	0.10	0.00	0	51.93	104	85	46	0	2	1	0
	NASHVILLE	56	36	69	24	46	-1	0.19	-0.89	0.09	0.00	0	44.54	96	81	41	0	2	3	0
TX	ABILENE	65	41	80	31	53	1	0.00	-0.25	0.00	0.00	0	23.61	98	80	38	0	1	0	0
	AMARILLO	58	32	78	25	45	2	0.00	-0.13	0.00	0.00	0	22.83	120	79	32	0	5	0	0
	AUSTIN	71	46	84	39	59	1	0.00	-0.62	0.00	0.00	0	27.01	80	79	38	0	0	0	0
	BEAUMONT	73	50	85	39	62	3	0.00	-0.92	0.00	0.00	0	66.30	115	91	50	0	0	0	0
	BROWNSVILLE	80	62	87	55	71	3	0.11	-0.21	0.09	0.00	0	38.17	149	86	51	0	0	2	0
	CORPUS CHRISTI	76	57	88	51	66	3	0.00	-0.38	0.00	0.00	0	26.00	87	84	46	0	0	0	0
	DEL RIO	74	48	90	41	61	4	0.00	-0.18	0.00	0.00	0	11.12	59	69	29	1	0	0	0
	EL PASO	70	47	77	40	59	9	0.00	-0.11	0.00	0.00	0	6.76	82	52	22	0	0	0	0
	FORT WORTH	66	43	83	33	54	2	0.00	-0.51	0.00	0.00	0	35.17	102	76	38	0	0	0	0
	GALVESTON	73	58	84	49	65	3	0.00	-1.02	0.00	0.00	0	46.72	108	90	62	0	0	0	0
	HOUSTON	74	50	86	39	62	3	0.01	-0.87	0.01	0.00	0	57.00	118	89	47	0	0	1	0
	LUBBOCK	63	35	82	29	49	3	0.00	-0.16	0.00	0.00	0	23.34	132	83	29	0	2	0	0
	MIDLAND	64	40	81	32	52	2	0.00	-0.16	0.00	0.00	0	10.35	81	73	25	0	1	0	0
	SAN ANGELO	67	40	83	28	53	1	0.00	-0.20	0.00	0.00	0	17.97	89	86	33	0	1	0	0
	SAN ANTONIO	71	48	85	41	60	2	0.00	-0.42	0.00	0.00	0	22.02	72	76	40	0	0	0	0
	VICTORIA	75	51	89	44	63	3	0.00	-0.65	0.00	0.00	0	32.29	84	93	44	0	0	0	0
	WACO	68	43	83	31	55	2	0.00	-0.56	0.00	0.00	0	35.65	105	78	35	0	1	0	0
	WICHITA FALLS	64	36	81	29	50	2	0.00	-0.34	0.00	0.00	0	32.91	124	85	36	0	3	0	0
UT	SALT LAKE CITY	45	29	47	25	37	-1	0.44	0.13	0.30	0.00	0	13.59	95	84	47	0	6	2	0
VA	LYNCHBURG	57	30	67	24	44	1	0.21	-0.61	0.21	0.00	0	36.63	93	83	34	0	5	1	0
	NORFOLK	61	42	69	31	51	1	0.17	-0.51	0.17	0.00	0	49.04	106	84	43	0	1	1	0
	RICHMOND	61	34	72	24	47	1	0.23	-0.51	0.14	0.00	0	49.31	117	88	34	0	2	2	0
	ROANOKE	55	35	69	27	45	0	0.15	-0.62	0.15	0.00	0	37.30	93	79	35	0	2	1	0
	WASH/DULLES	53	31	64	20	42	0	0.39	-0.35	0.27	0.00	0	33.33	83	85	41	0	4	3	0
VT	BURLINGTON	42	32	46	28	37	2	0.95	0.35	0.54	0.00	0	37.02	105	84	55	0	4	3	1
WA	OLYMPIA	46	37	50	31	42	1	0.96	-1.00	0.60	0.00	0	39.70	92	98	77	0	1	3	1
	QUILLAYUTE	48	39	49	35	44	1	0.36	-3.24	0.17	0.00	0	89.88	102	97	73	0	0	5	0
	SEATTLE-TACOMA	45	38	47	32	41	-3	0.76	-0.72	0.55	0.00	0	28.30	83	95	75	0	2	3	1
	SPOKANE	37	31	44	28	34	1	0.46	-0.05	0.46	0.00	0	13.71	96	99	83	0	4	1	0
	YAKIMA	38	28	44	22	33	-1	0.09	-0.15	0.09	0.00	0	6.31	95	94	80	0	6	1	0
WI	EAU CLAIRE	27	17	40	6	22	-6	0.13	-0.25	0.13	0.00	0	34.96	110	84	63	0	7	1	0
	GREEN BAY	33	24	44	17	29	-3	0.36	-0.08	0.28	0.00	0	32.97	110	85	65	0	5	2	0
	LA CROSSE	33	21	46	11	27	-5	0.00	-0.41	0.00	0.00	0	33.93	100	79	53	0	6	0	0
	MADISON	34	23	46	13	28	-3	0.05	-0.43	0.05	0.00	0	47.59	133	81	56	0	6	1	0
	MILWAUKEE	38	26	50	16	32	-4	0.06	-0.44	0.06	0.00	0	38.42	117	77	55	0	5	1	0
WV	BECKLEY	48	30	63	18	39	-1	0.67	-0.05	0.27	0.00	0	35.48	87	87	51	0	4	5	0
	CHARLESTON	52	32	64	23	42	-1	1.39	0.57	0.39	0.00	0	37.93	88	90	49	0	4	6	0
	ELKINS	48	26	59	16	37	-2	1.57	0.82	0.58	0.00	0	43.23	98	96	56	0	6	6	1
	HUNTINGTON	52	34	64	22	43	0	0.82	0.01	0.31	0.00	0	40.17	96	84	47	0	2	5	0
WY	CASPER	37	16	41	3	27	-3	0.00	-0.13	0.00	0.00	0	10.17	87	87	52	0	7	0	0
	CHEYENNE	42	19	48	14	31	-1	0.04	-0.08	0.04	0.00	0	10.50	70	78	32	0	7	1	0
	LANDER	41	16	46	14	29	2	0.00	-0.16	0.00	0.00	0	10.39	82	73	32	0	7	0	0
	SHERIDAN	35	10	40	2	23	-6	0.17	0.01	0.17	0.00	0	11.48	80	83	57	0	7	1	0

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

International Weather and Crop Summary

November 24-30, 2024

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

HIGHLIGHTS

EUROPE: Warmer but continued unsettled weather prevailed across much of the continent, with locally heavy rain falling in parts of southeastern Europe.

MIDDLE EAST: Very cold temperatures and locally heavy snow in Turkey contrasted with warm and dry conditions in central and eastern Iran.

NORTHWESTERN AFRICA: Dry and hot weather in western growing areas exacerbated drought and worsened prospects for winter grain establishment.

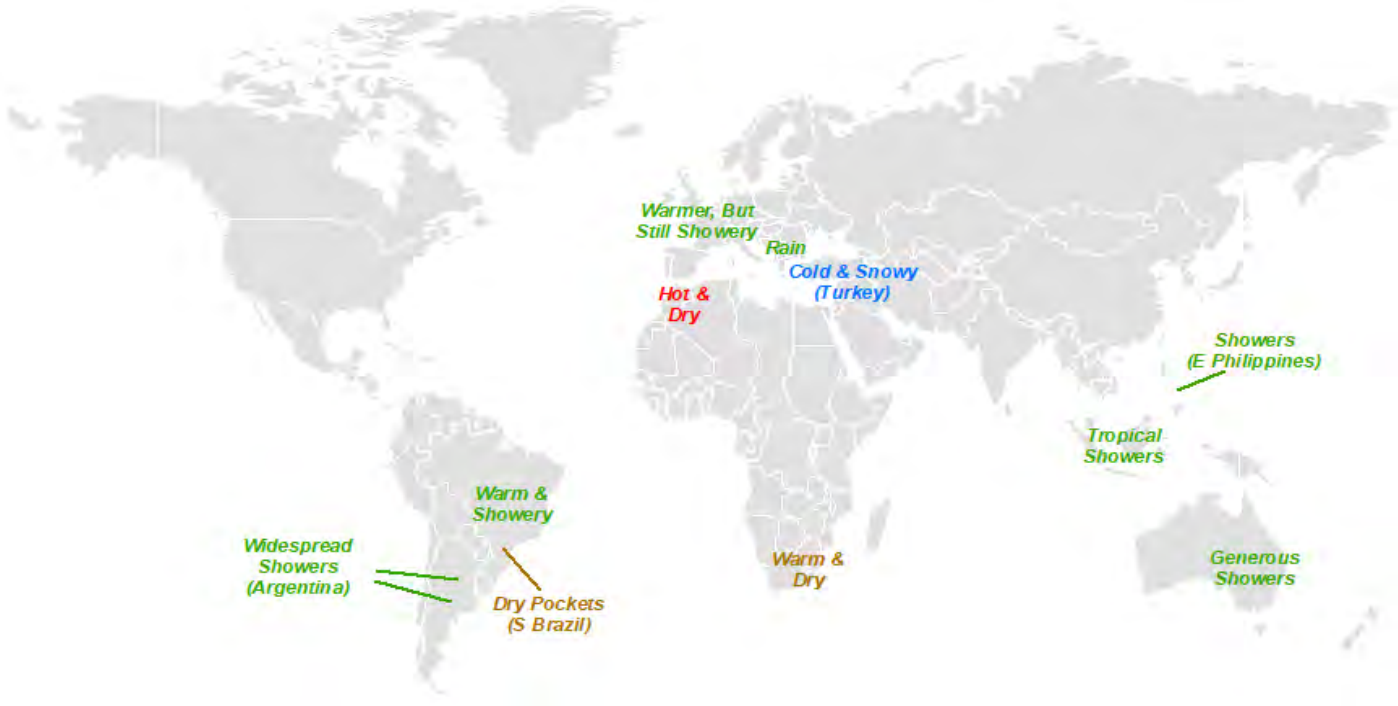
SOUTHEAST ASIA: A tropical disturbance brought widespread downpours to easternmost and southern sections of the region.

AUSTRALIA: Generous rainfall in the south and east slowed winter crop harvesting but further benefited summer crops.

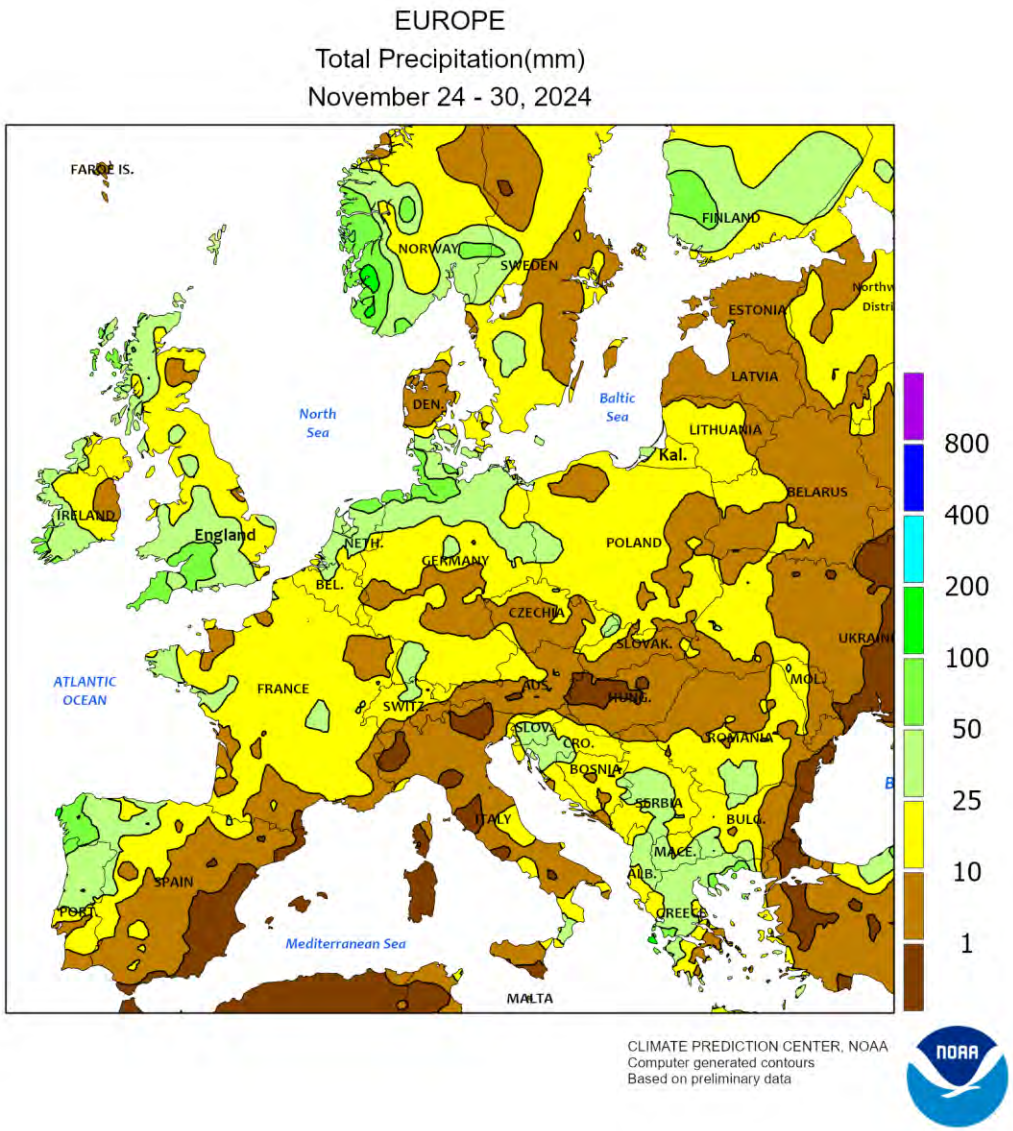
SOUTH AFRICA: Warm and dry weather prevailed across most of the region, with only some light, scattered showers in far eastern sections of the corn belt providing limited moisture.

ARGENTINA: Widespread, locally heavy showers improved conditions for emerging summer crops in all major farming areas.

BRAZIL: Warm, showery weather benefited most summer crops, although pockets of dryness lingered in southern corn and soybean areas.



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



EUROPE

Much warmer but continued wet weather replaced the preceding week's cold and snow, with locally heavy rain reported in some southeastern growing areas. Following a sharp cold snap during the third week of November, temperatures during the monitoring period averaged 1 to 4°C above normal from England and France into Poland and the Baltic States, with readings up to 6°C above normal noted in southwestern France. The abnormal warmth melted most of the recent snow cover and caused this week's precipitation (10-35 mm) to fall as rain. Moisture reserves remained overall favorable for dormant winter grains and oilseeds, though crops in westernmost portions of the continent were still vegetative. Despite the wet weather pattern that prevailed over much of Europe during autumn, rain consistently bypassed Hungary; precipitation since October 1 in southwestern Hungary has tallied a meager 35 percent of normal and was the driest of the past 30 years. Short-term dryness has also settled over northern Italy, where 30-day rainfall has totaled less than 10 percent of normal. Farther east, moderate to heavy rain (10-90 mm) across Greece and the western Balkans eased short-term dryness and favored winter crops but caused localized flooding. On the Iberian Peninsula, light to moderate showers (2-30 mm) over Spain maintained good moisture supplies for winter grain establishment, though some croplands in central portions of the country have trended dry over the past 30 days (10-30 percent of normal).

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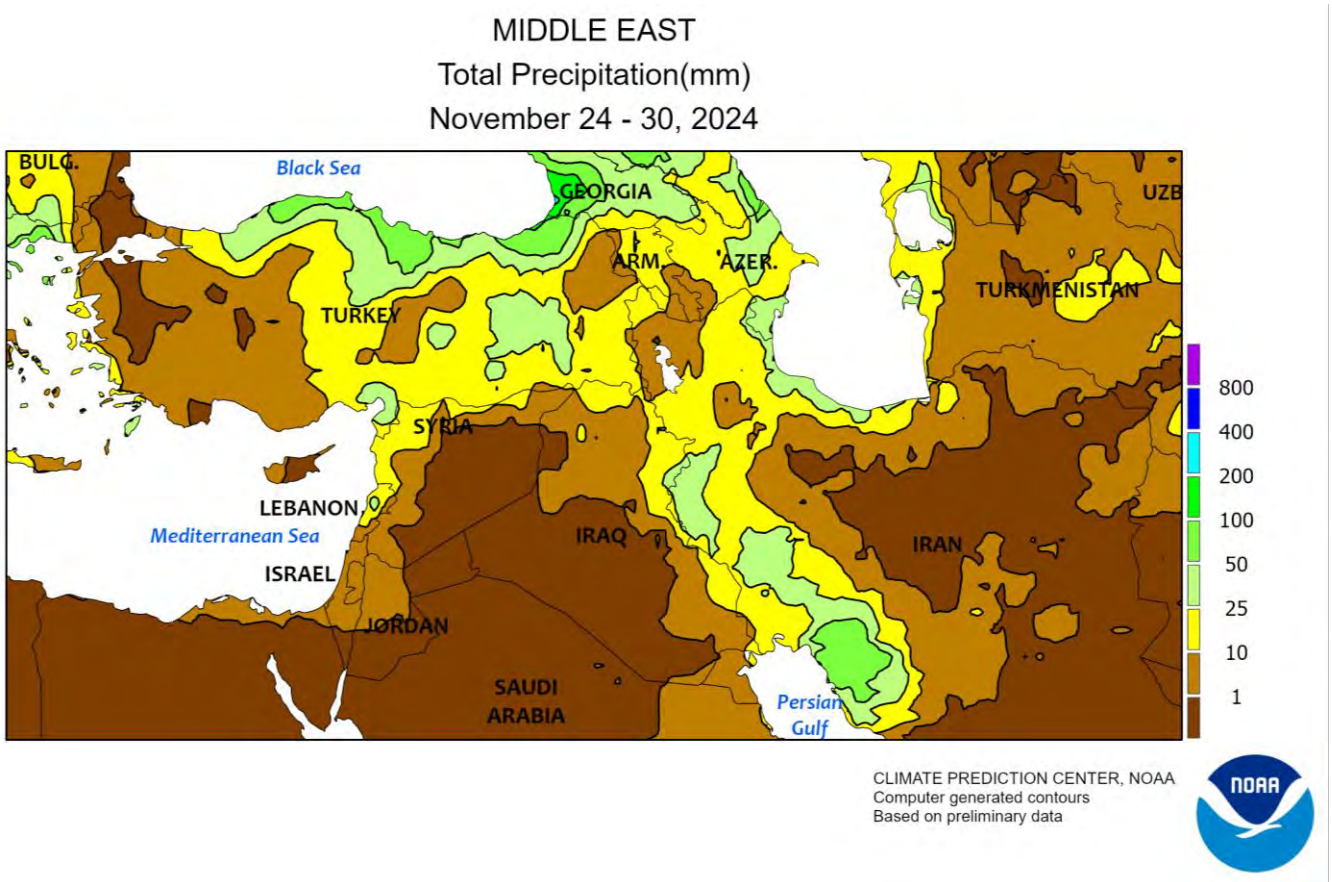

MIDDLE EAST

Very cold and snowy weather in Turkey contrasted with dry and warm conditions in central and eastern Iran. A vigorous upper air low settled over central and eastern Turkey, accompanied by temperatures up to 9°C below normal from the Anatolian Plateau eastward. The abruptly colder conditions (lows from -12 to -4°C) caused much of the storm's precipitation (10-70 mm liquid equivalent) to fall as snow, hampering travel and hastening winter grains into dormancy. However, precipitation from this storm system largely bypassed crop areas from northwestern Turkey to the western Anatolian Plateau, though soil moisture supplies remained overall favorable following good rain during the third week of November. Farther east, rain and mountain snow associated with the storm overspread the eastern Mediterranean Coast (5-30 mm), northern and eastern Iraq (2-20 mm), and western Iran (10-65 mm liquid equivalent). Conversely, dry and warm weather (2-5°C above normal) in central and eastern Iran facilitated fieldwork and winter grain emergence, though topsoil moisture has become limited following acute short-term dryness (30-day rainfall locally less than 25 percent of normal) in Khorasan.

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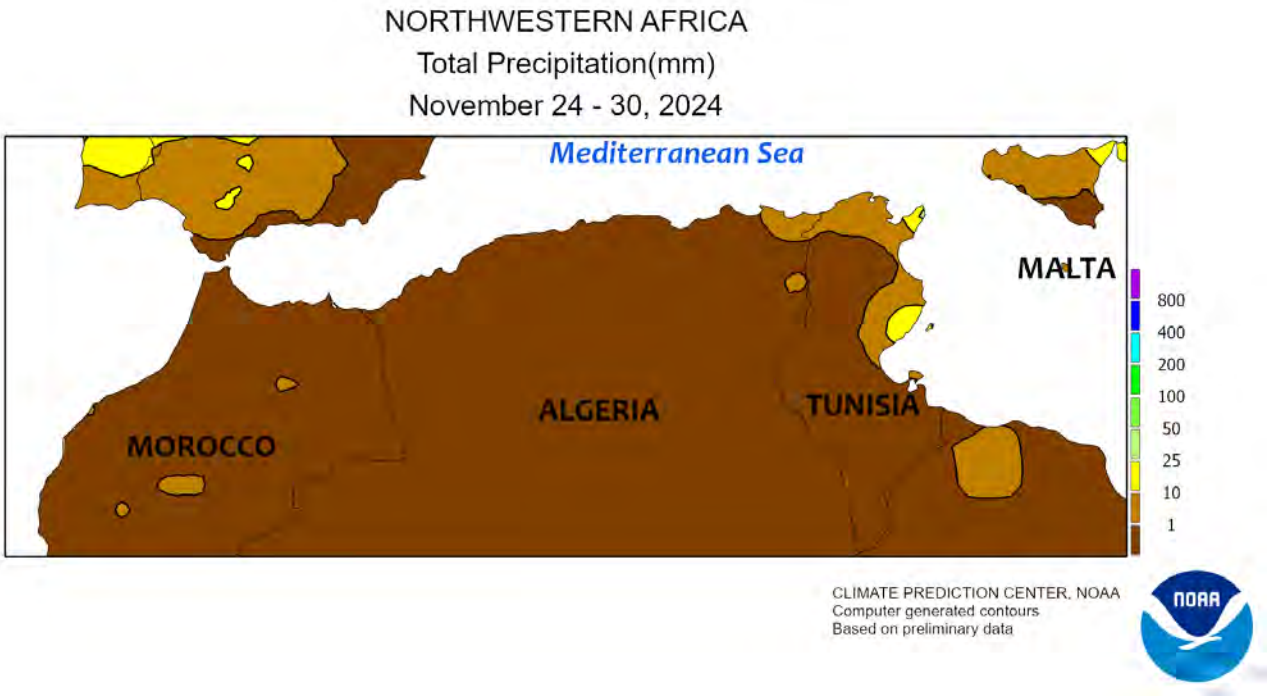

NORTHWESTERN AFRICA

Dry and hot weather prevailed across the region, with record-setting heat afflicting drought-stricken western growing areas. In Morocco, sunny skies and much-above-normal temperatures (5-8°C above normal) exacerbated drought, with daytime highs in the lower and middle 30s (degrees C) heightening evapotranspiration rates and soil moisture losses. The past week was the hottest on record — by far — for this time of year in Morocco's primary growing areas, easily surpassing the previous benchmark set back in 2017. In fact, November 2024 was the warmest and second driest on record in Morocco's primary growing areas. Abnormal warmth (up to 5°C above normal) and dryness also caused drought to intensify in western Algeria, where rain has been largely absent since the end of October. The latest satellite-derived Vegetation Health Index (VHI) continued to depict poor to abysmal crop vigor from Morocco into western Algeria. After a favorable start to the 2024-25 Water Year across the eastern half of the region, acute short-term dryness since mid-November coupled with anomalous warmth (up to 4°C above normal during the past week) increased concerns over developing drought. The most recent VHI depicted highly variable, locally poor crop vigor at this early stage of the winter grain growing campaign over eastern croplands.

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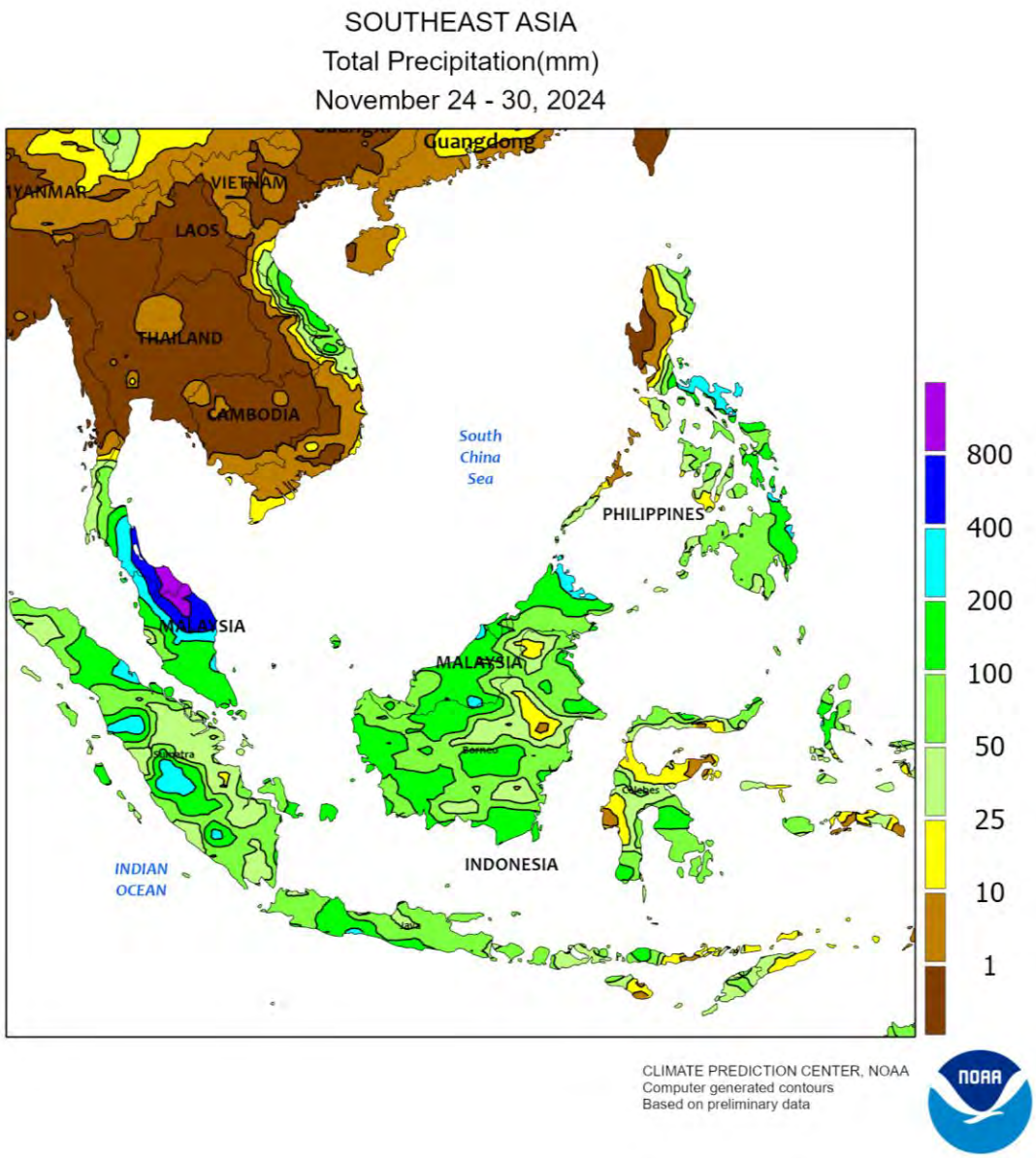

SOUTHEAST ASIA

An intense, wide-reaching tropical disturbance spanned a large swath of the region. Downpours in excess of 200 mm were recorded in the eastern Philippines and across portions of Malaysia and Indonesia. In fact, a locality on the Malaysian peninsula reported a rainfall amount topping 800 mm. While flooding was prevalent where showers were heaviest, most flooding was outside of major agricultural areas, though harvest delays and possible yield reductions for oil palm in Malaysia were notable. Furthermore, the precipitation in Java, Indonesia, was mostly seasonable and beneficial for main-season rice; season-to-date rainfall totals have been trending above average (120 percent of normal) and well above the lackluster amounts from last year (54 percent of normal).

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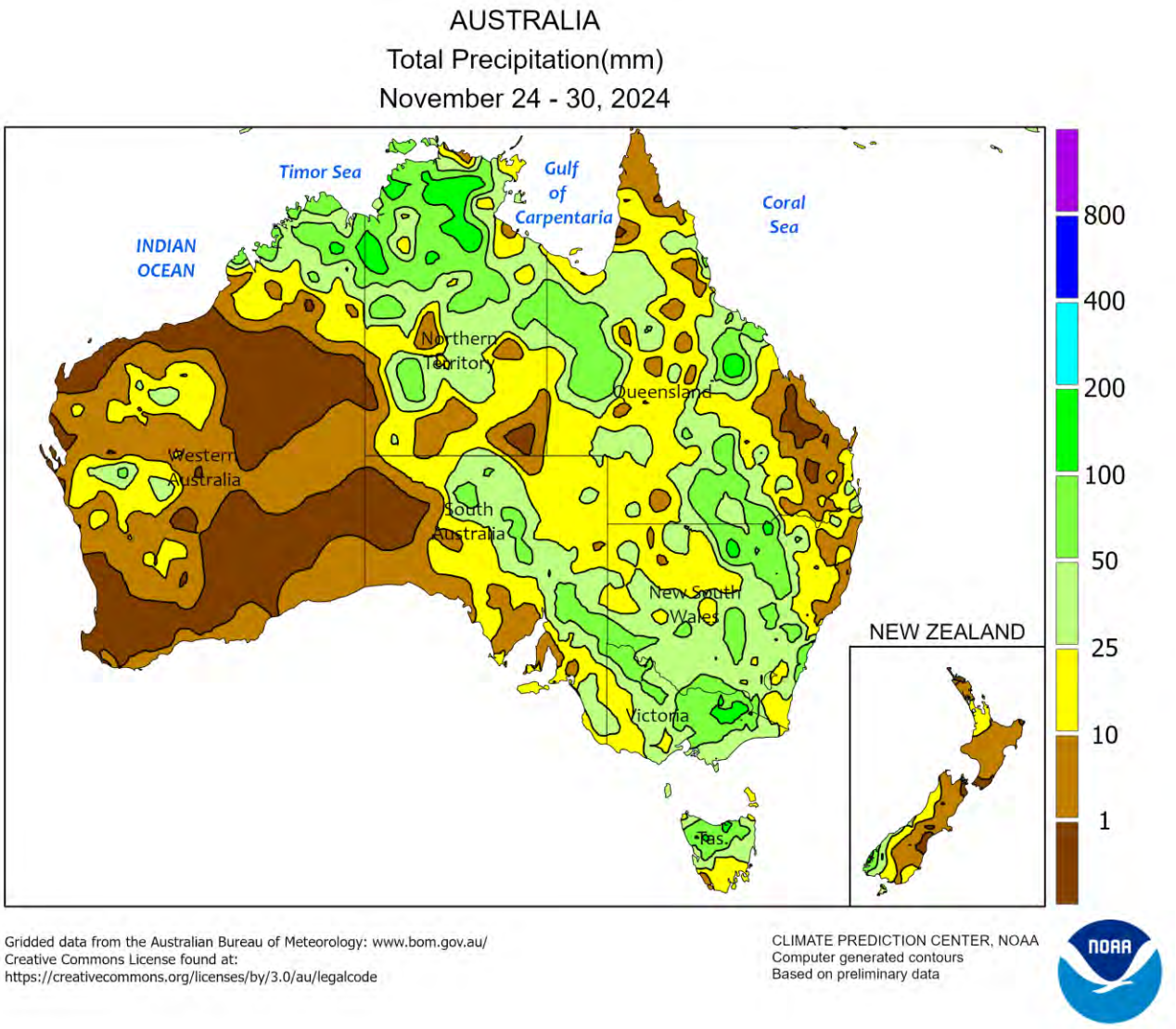

AUSTRALIA

Generous rainfall across a sizable portion of southern and eastern Australia slowed wheat, barley, and canola harvesting and likely increased concerns about grain quality. Rainfall ranged from 25 to 50 mm in many locations, with isolated areas approaching or exceeding 100 mm. Although the rain disrupted local summer crop planting as well, the wet weather was beneficial overall, maintaining adequate to locally abundant soil moisture for cotton and sorghum germination, emergence, and establishment. Elsewhere in the wheat belt, mostly dry weather in the west favored rapid winter grain and oilseed harvesting. Seasonably warm weather prevailed in Western Australia, South Australia, and Queensland. In the southeast, temperatures averaged 2 to 4°C above normal with maximum temperatures creeping into the upper 30s degrees C in the hottest locations.

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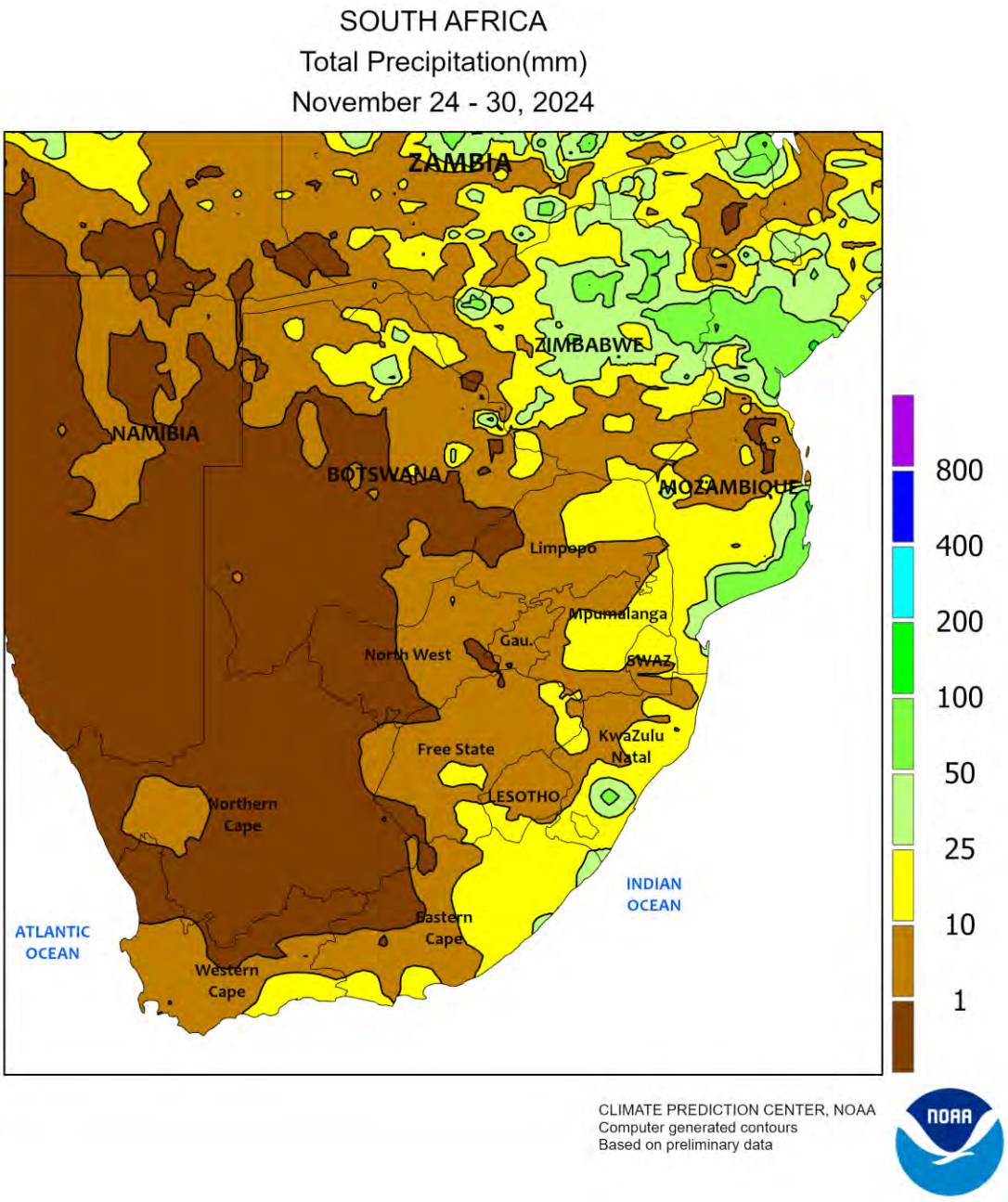

SOUTH AFRICA

Above-normal temperatures dominated the eastern corn belt, with mostly dry weather reducing moisture available for early growth of corn and other summer crops. Weekly temperatures averaged up to 3°C above average for the eastern corn belt and near normal for the rest of the country. Highest daytime temperatures generally ranged from the lower 30s to the upper 30s (degrees C) for most of the region. Light, scattered showers (10-25 mm) were observed in eastern Mpumalanga and down along the coast from KwaZulu-Natal to Eastern Cape. While summer crop prospects are still overall favorable, more rain is needed, especially for the eastern farming areas.

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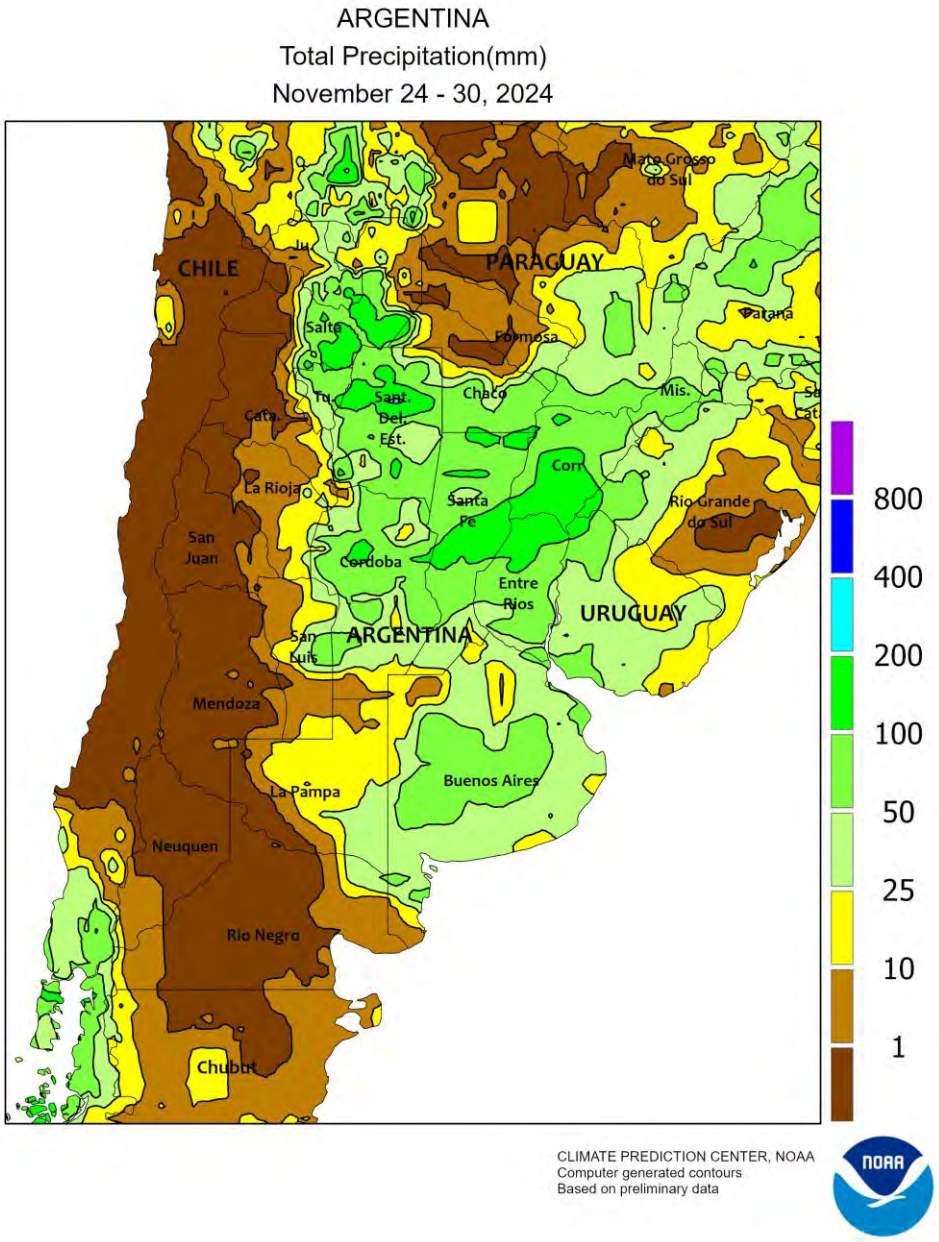

ARGENTINA

Widespread showers benefited emerging summer crops in nearly all major farming areas. Rainfall totaled 50 to locally more than 100 mm throughout much of Argentina, with few farming delegations reporting less than 25 mm. The rainfall was particularly timely in southern Santa Fe and other high-yielding farming areas in or near the lower Paraná River Valley that had been trending dry since late October. Near- to above-normal temperatures accompanied the rain, with highest daytime temperatures ranging from the upper 20s and lower 30s (degrees C) in and around La Pampa and Buenos Aires to the lower 40s near the border with Paraguay. According to the government of Argentina, corn and soybeans were 52 and 47 percent planted, respectively, as of November 28. Sunflowers and cotton were 94 and 32 percent planted, respectively, while wheat and barley were 38 and 5 percent harvested, respectively.

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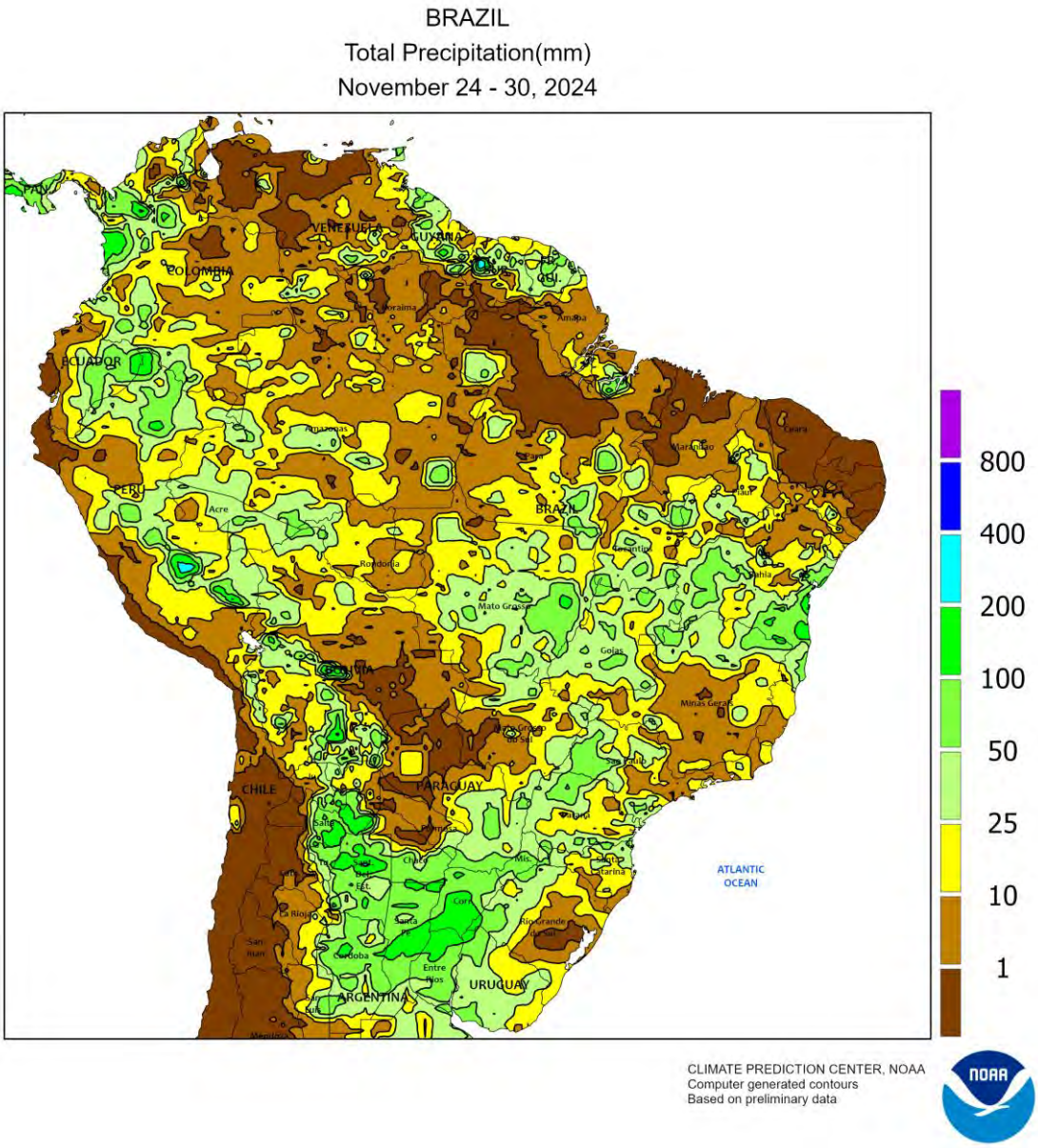

BRAZIL

Widespread, locally heavy showers maintained overall favorable summer crop prospects, although pockets of dryness lingered in many southern farming areas. Many locations from Mato Grosso do Sul and Minas Gerais southward through Rio Grande do Sul recorded less than 10 mm, with heavy showers (25-65 mm) concentrated over western São Paula and near the border with Paraguay. Above-normal temperatures (highest daytime temperatures reaching the middle 30s degrees C) exacerbated the impact of the dryness in areas in need of rain, and reproductive crops would benefit from additional moisture. According to the government of Paraná, first-crop corn and soybeans were rapidly advancing through reproductive stages of development as of November 25. In Rio Grande do Sul, corn was 88 percent planted as of November 28, with over 50 percent reproductive or filling; meanwhile, 64 percent of soybeans were planted, while wheat was 97 percent harvested. Farther north, warm, showery weather maintained overall favorable conditions for emerging to vegetative soybeans in key production areas of central and northeastern Brazil, although amounts were overall lower with less coverage than in recent weeks. Despite the diminished rainfall, temperatures were generally seasonable, with highest daytime temperatures mostly in the lower and middle 30s.

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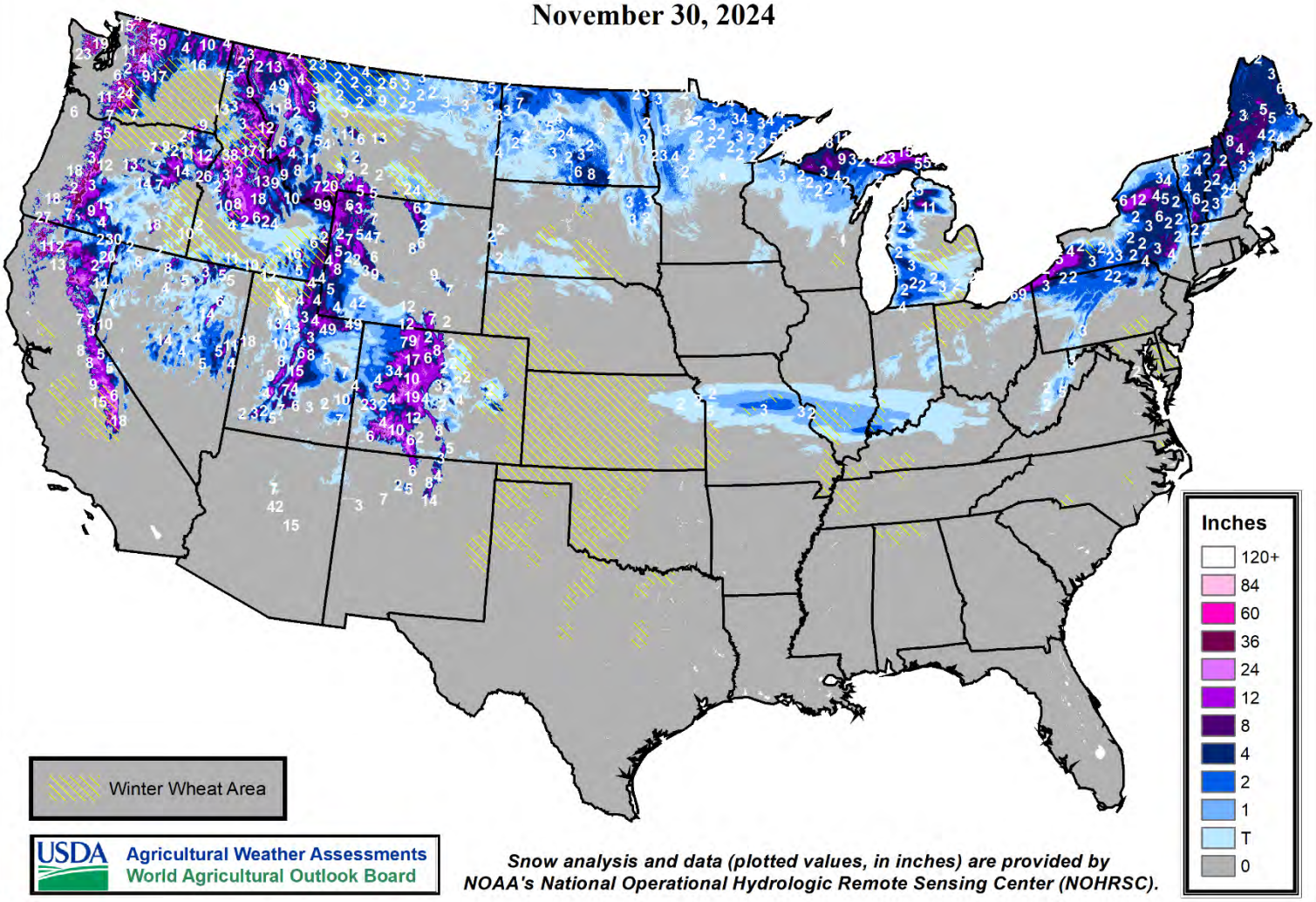
Snow Depth

November 30, 2024



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