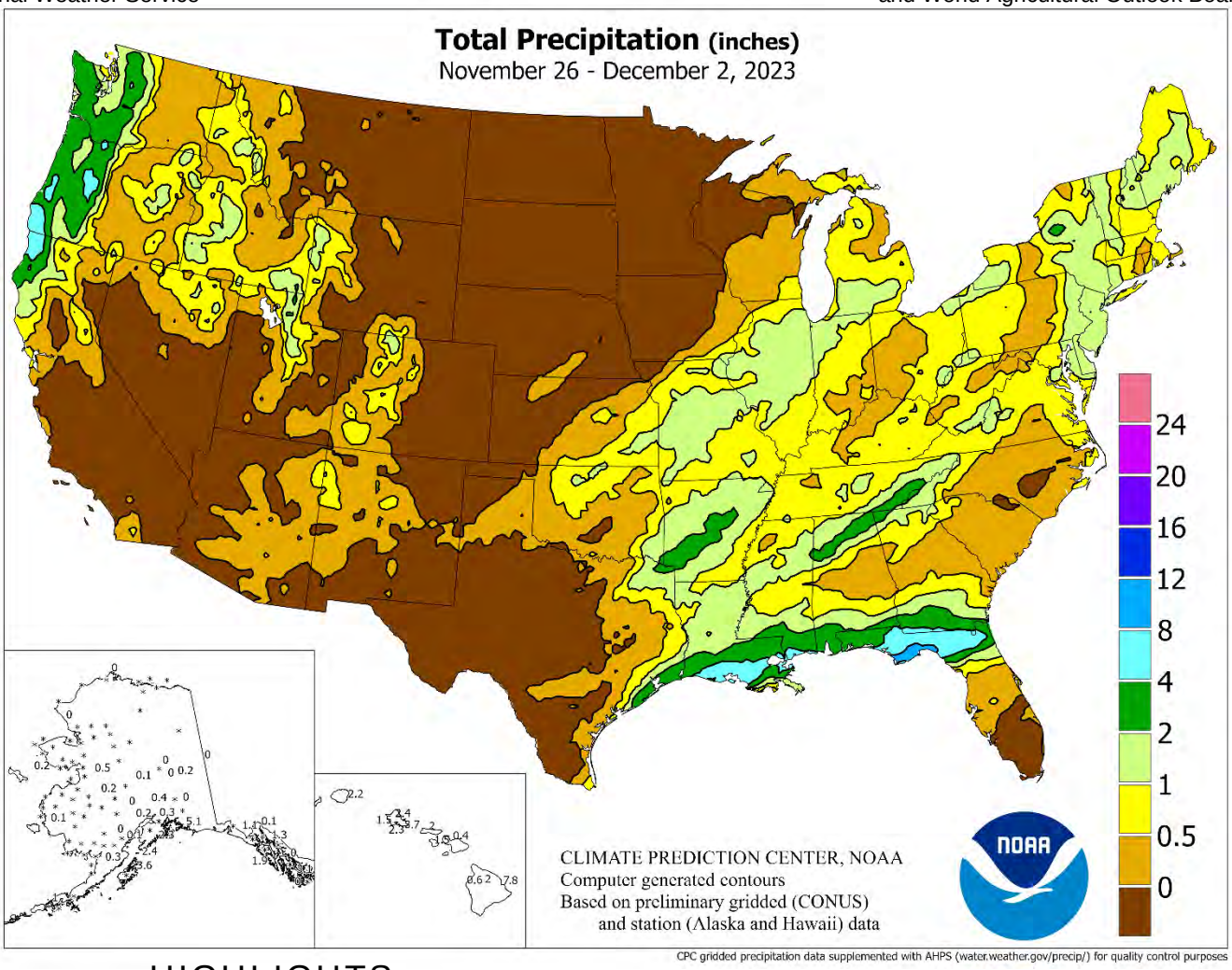
Volume 110, No. 49 www.usda.gov/oce/weather-drought-monitor December 5, 2023

WEEKLY WEATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
National Weather Service

U.S. DEPARTMENT OF AGRICULTURE
National Agricultural Statistics Service
and World Agricultural Outlook Board



HIGHLIGHTS

November 26 – December 2, 2023

Highlights provided by USDA/WAOB

Heavy precipitation developed in late November or early December in several areas, including the **Pacific Northwest** and the drought-affected **Gulf Coast region**. Precipitation extended as far north as the **southern and eastern Corn Belt**, but the **upper Midwest** completed a very dry November, with some locations reporting record-low monthly totals. Mostly dry weather also prevailed across the **northwestern half of the Plains**, as well as **central and southern California**. Other areas experiencing mostly dry weather included the **southern**

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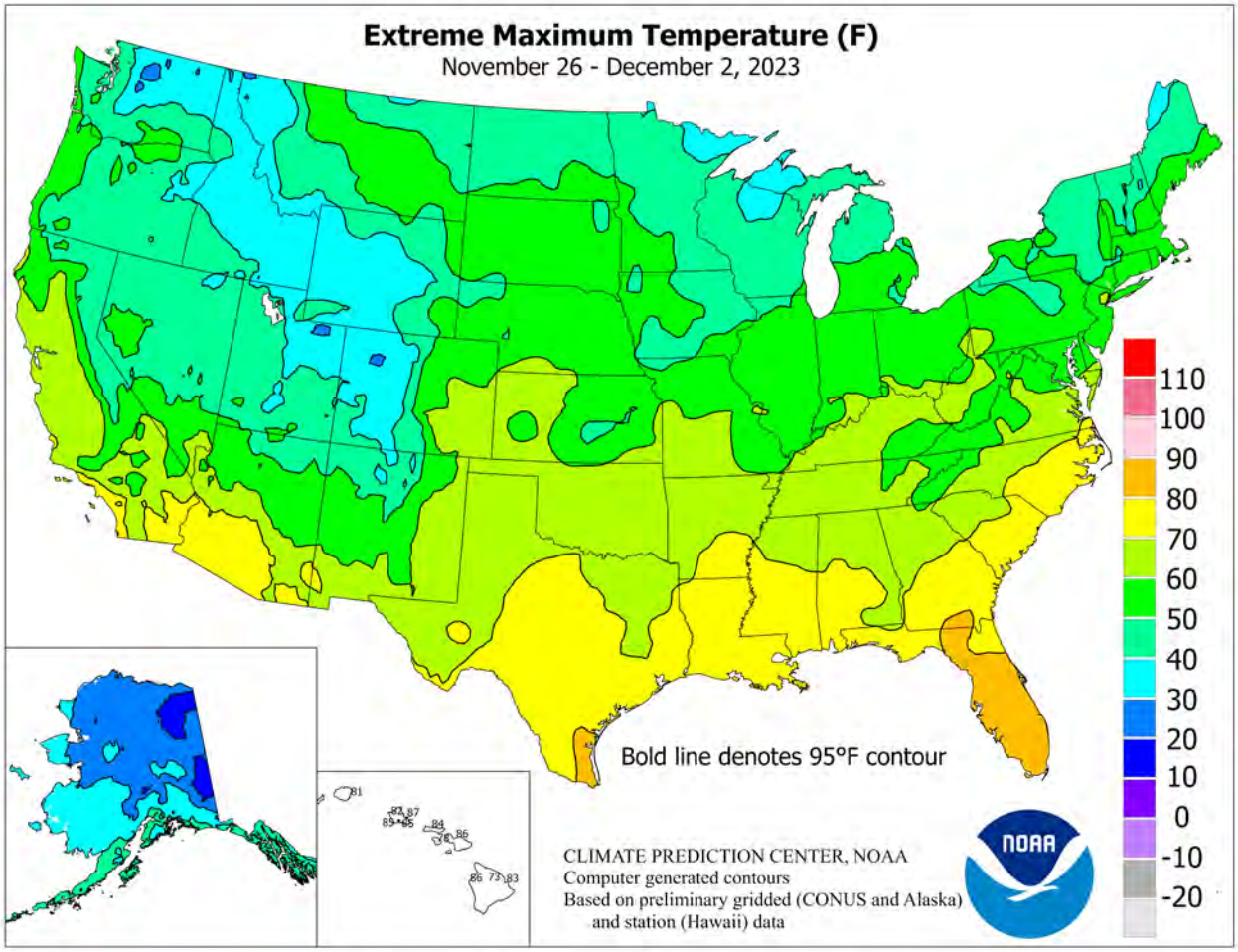
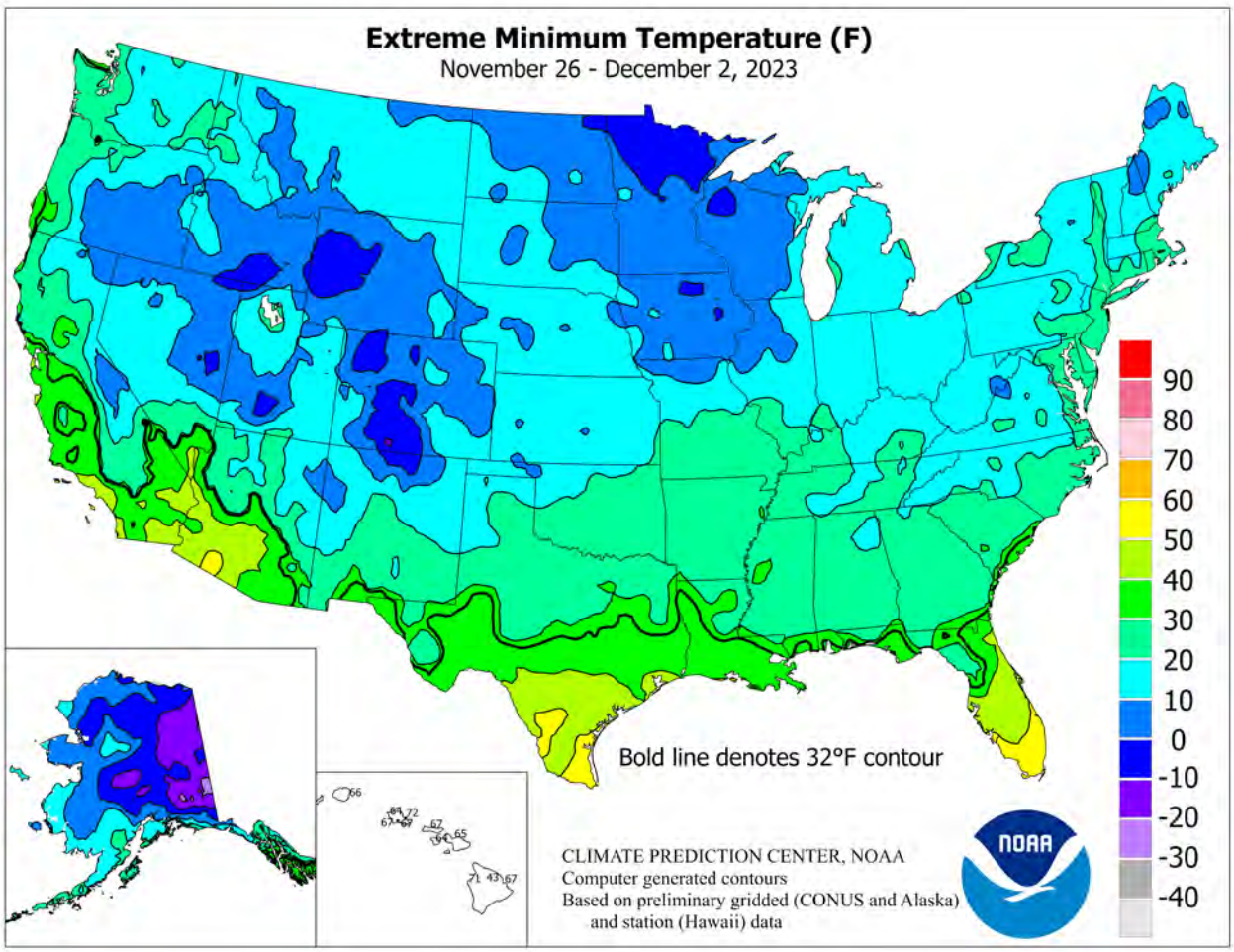
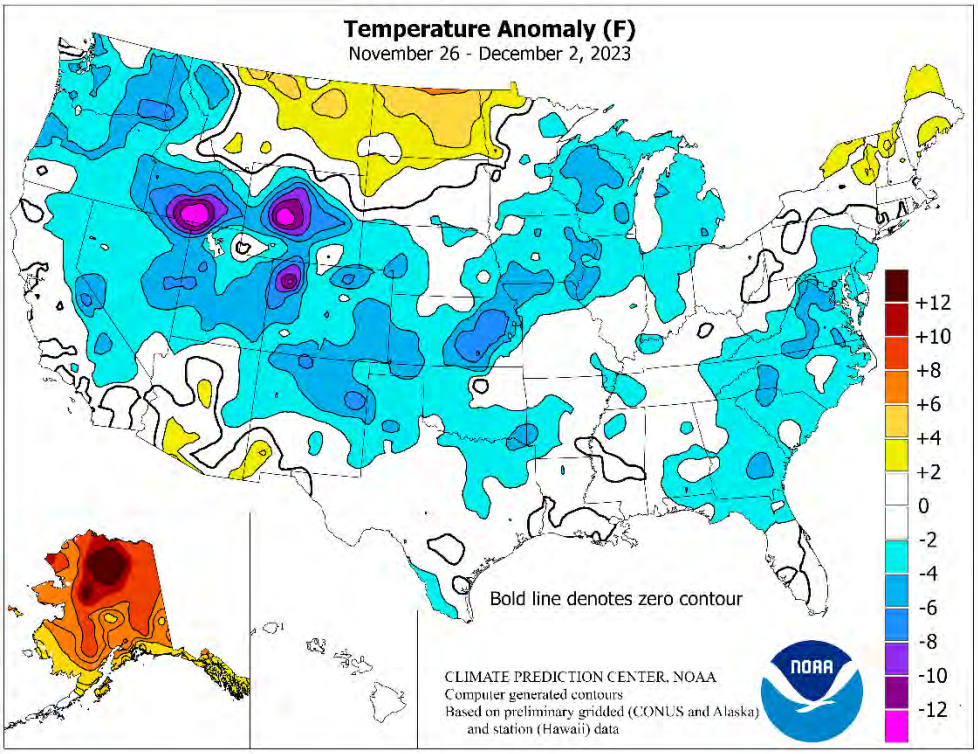

Extreme Maximum Temperature (F)
November 26 - December 2, 2023
110
100
90
80
70
60
50
40
30
20
10
0
-10
-20
Bold line denotes 95°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS and Alaska)
and station (Hawaii) data
NOAA


Extreme Minimum Temperature (F)
November 26 - December 2, 2023
90
80
70
60
50
40
30
20
10
0
-10
-20
-30
-40
Bold line denotes 32°F contour
CLIMATE PREDICTION CENTER, NOAA
Computer generated contours
Based on preliminary gridded (CONUS and Alaska)
and station (Hawaii) data
NOAA

(Continued from front cover)

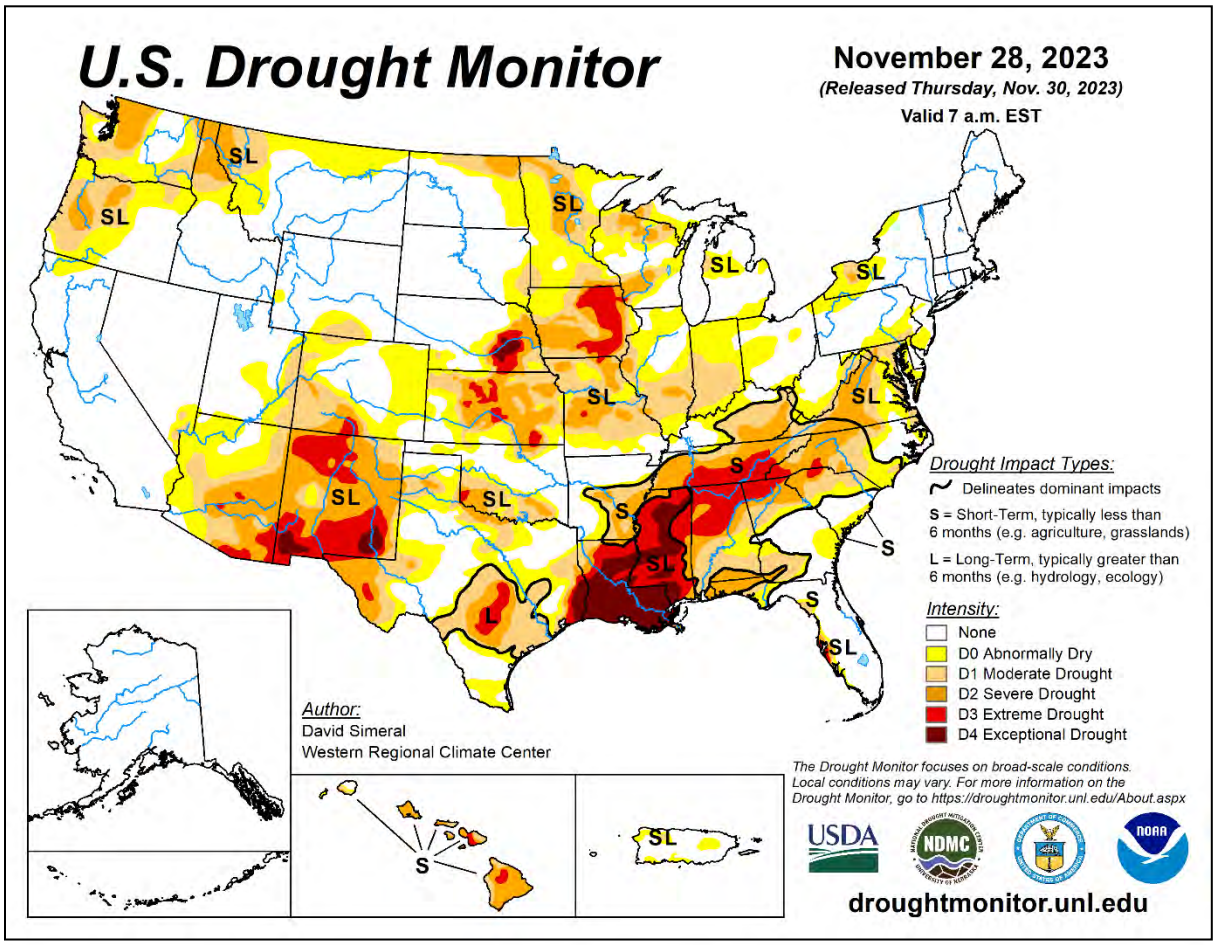
High Plains and **southern Florida**. In **Southern** areas that remained largely dry, fieldwork included late-season winter wheat planting and summer crop harvesting. Meanwhile in the **Northwest**, multiple disturbances moving inland maintained unsettled weather. Before warmer conditions arrived in early December, snow blanketed some lower-elevation sites, including **Northwestern** winter wheat production areas. In fact, near- or below-normal weekly temperatures covered much of the country, despite the late-week warming trend. Readings averaged at least 10°F below normal in scattered locations across the **central Rockies** and **Intermountain West**. In contrast, cold air eroded more quickly across the **northern Plains**, where temperatures averaged at least 5°F above normal in parts of **Montana** and **North Dakota**.

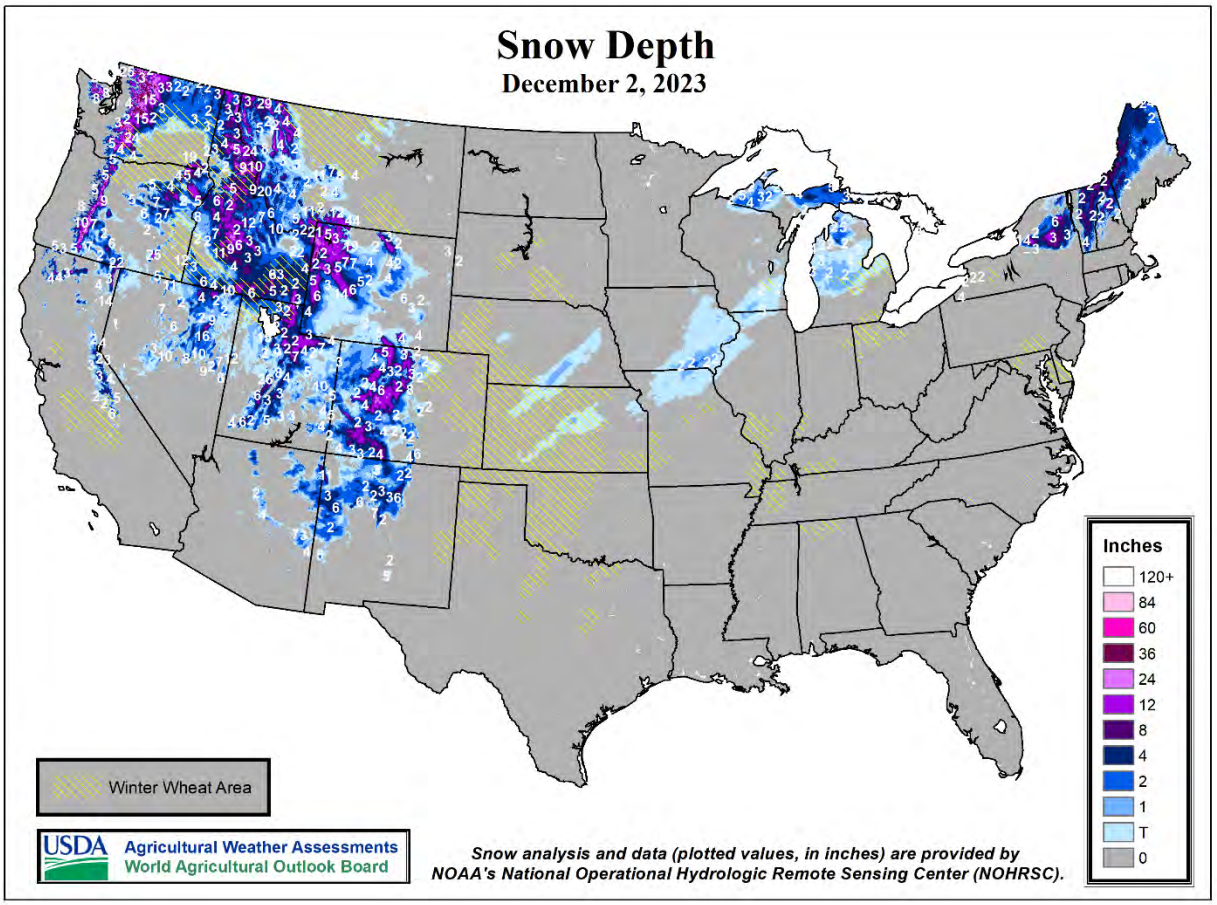


Cold weather was particularly persistent across the **Rockies** and **Intermountain West**. **Riverton, WY**, reported low temperatures ranging from -1 to -9°F on each of the last 6 days of November. Elsewhere in **Wyoming**, **Lander's** four consecutive lows of -1°F (from November 26-29) followed 22.9 inches of snow on November 23-24. Farther east, snow dusted parts of the **Midwest** on November 25-26. In **Iowa**, 2-day snowfall totals included 2.6 inches in **Des Moines and** 2.1 inches in Waterloo. Subsequently, **Waterloo** noted a low of 0°F on November 28. Sub-zero lows occurred on the 28th in **Iowa** locations such as **Mason City** (-1°F) and **Fayette** (-5°F). Chilly air eventually settled into the **East**, where record-setting lows for November 29 dipped to 15°F in **Danville, VA**, and 21°F in **Elizabeth City, NC**. In contrast, temperatures quickly rebounded in the **north-central U.S.** By November 29, **Grand Forks, ND**, posted a daily-record high of 50°F, just 2 days after recording a low of 0°F. Late-week warmth was prominent across **Florida**, where record-setting highs for December 2 soared to 88°F in **Punta Gorda**, 87°F in **Brooksville**, and 86°F in **Miami**. The following day, on December 3, **Miami's** high of 89°F tied a monthly record mostly recently achieved on December 10, 2009.

As the week began, rain drenched parts of the **eastern U.S.** Record-setting precipitation totals for November 26 included 2.28 inches in **Jacksonville, FL**, and 0.84 inch in **Scranton, PA**. On the 27th, **Bangor, ME**, reported rainfall totaling 0.94 inch, accompanied by a south-southeasterly wind gust to 60 mph. Meanwhile, snow squalls developed downwind of the **Great Lakes**. **Sault Ste. Marie, MI**, received at least an inch of snow each day from November 26-29, totaling 17.6 inches. The bulk of **Sault Ste. Marie's** snow, 11.7 inches, fell on the 27th. By mid-week, precipitation developed in several areas, including the **western Gulf Coast region** and areas along the **West Coast**. On November 29, **Harlingen, TX**, netted a daily-record sum of 1.09 inches. On the last day of November, rain continued along the **Gulf Coast** and spread across the **mid-South** and **lower Midwest**. **Galveston, TX**, collected a record-setting total (3.93 inches) for the 30th, along with **Little Rock, AR** (2.23 inches). Windy weather trailed the heavy rain in **Harlingen**, where a southerly gust to 58 mph was reported on November 30. As downpours shifted eastward along and near the **Gulf Coast**, **Lafayette, LA** (6.56 inches on the 1st), endured its second-wettest December day on record, behind only 7.10 inches on New Year's Eve 1933. Daily-record amounts in **Louisiana** on December 1 reached 5.54 inches in **New Iberia** and 2.53 inches in **New Orleans**. An additional 2.76 inches in **New Orleans** on December 2 boosted the city's 2-day total to 5.29 inches. Similarly, **Gulfport, MS**, measured 6.23 inches on December 1-2, aided by a 5.65-inch sum on the latter date. For **Gulfport**, it was the wettest December day since 1994, when 5.80 inches fell on the 3rd. At week's end, precipitation—mostly rain—was widespread across the **eastern one-third of the U.S.**, while periods of stormy weather affected the **Northwest** and **Intermountain West**. On December 2, daily-record totals topped the 2-inch mark in locations such as **Mobile, AL** (3.10 inches), and **Knoxville, TN** (2.26 inches). Meanwhile, **Spokane, WA**, received 5.6 inches of snow from November 30 – December 2. In **Utah**, **Alta** received more snow during the first 4 days of December—36.3 inches—than during all of November, when the total of 35.2 inches was 65 percent of normal.

Southeastern Alaska got a reprieve from recent heavy precipitation, while unsettled weather prevailed across much of the **state's mainland**. Mild weather accompanied the pattern shift, with weekly temperatures averaging at least 10 to 15°F above normal in many locations across **northern and interior Alaska**. On the **Arctic Coast**, **Utqiagvik**—without the benefit of sunshine this time of year—posted a daily record-tying high of 28°F on November 28. The following day, on the 29th, **Kodiak** netted a daily-record precipitation total of 1.80 inches. **Anchorage** completed its wettest and snowiest November on record, with 3.44 and 39.3 inches, respectively. Previous records in **Anchorage**, 2.84 and 38.8 inches, respectively, had been set in 1976 and 1994. However, **Anchorage** only received 1.3 inches of snow during the second half of the month, with the snow depth decreasing from 23 to 10 inches between November 14 and 30. Elsewhere, **southeastern Alaska's** November precipitation ranged from 140 to 150 percent of normal in **Ketchikan** (24.86 inches), **Yakutat** (19.27 inches), and **Sitka** (14.80 inches), despite less stormy weather late in the month. Farther south, **Hawaii** also experienced a marked, late-November pattern shift, as a "Kona low" dented an autumn dry spell. November 30, the last day of meteorological autumn, featured 6.24 inches of rain, a record for the date, in **Hilo**, on the B**ig Island**. That boosted **Hilo's** November rainfall to 11.17 inches (78 percent of normal). At the state's other major airport observation sites, November rainfall ranged from 0.90 inch (50 percent of normal) in **Kahului, Maui**, to 5.18 inches (129 percent) in **Lihue, Kauai**. In several locations, including **Honolulu, Oahu** (1.54 inches), and **Lihue** (1.45 inches), the wettest day of the month occurred on November 29.


U.S. Drought Monitor
November 28, 2023
(Released Thursday, Nov. 30, 2023)
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


Snow Depth
December 2, 2023
Inches
120+
84
60
36
24
12
8
4
2
1
T
0
Winter Wheat Area
Agricultural Weather Assessments
World Agricultural Outlook Board
Snow analysis and data (plotted values, in inches) are provided by NOAA's National Operational Hydrologic Remote Sensing Center (NOHRSC).

National Weather Data for Selected Cities

Weather Data for the Week Ending December 2, 2023

Data Provided by Climate Prediction Center

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS			
																	TEMP. °F		PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE DEC 1	PCT. NORMAL SINCE DEC 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	35	28	40	14	32	10	0.31	0.05	0.31	0.00	0	23.85	155	89	65	0	5	1	0
	BARROW	20	9	28	1	15	0	0.00	-0.07	0.00	0.00	0	4.59	90	94	82	0	7	0	0
	FAIRBANKS	18	3	25	-10	11	12	0.01	-0.13	0.01	0.00	0	9.48	85	86	73	0	7	1	0
	JUNEAU	40	32	47	25	36	4	1.35	-0.22	0.80	0.00	0	65.12	106	96	81	0	4	4	1
	KODIAK	41	33	44	30	37	4	3.56	1.88	1.89	0.93	178	59.20	84	98	77	0	2	7	2
	NOME	28	18	34	6	23	10	0.24	-0.01	0.08	0.02	31	21.42	131	90	69	0	7	5	0
AL	BIRMINGHAM	59	40	69	24	50	-1	0.34	-0.71	0.17	0.18	61	43.71	84	85	47	0	2	3	0
	HUNTSVILLE	57	37	66	23	47	-2	2.32	1.07	2.06	2.22	606	40.83	83	91	48	0	3	3	1
	MOBILE	65	46	78	32	56	0	4.28	3.28	3.09	3.68	900	53.50	86	90	55	0	1	3	3
	MONTGOMERY	61	41	74	26	51	-2	0.25	-0.70	0.16	0.09	35	44.86	96	92	55	0	2	3	0
AR	FORT SMITH	54	36	68	28	45	-2	1.17	0.35	1.15	0.00	0	39.57	89	93	53	0	4	2	1
	LITTLE ROCK	58	37	69	29	48	1	2.33	1.13	2.22	0.01	3	52.30	114	88	45	0	2	3	1
AZ	FLAGSTAFF	42	24	49	19	33	-1	0.35	-0.04	0.22	0.07	67	23.94	127	84	51	0	7	3	0
	PHOENIX	71	52	78	47	61	2	0.04	-0.12	0.04	0.00	0	3.24	49	63	29	0	0	1	0
	PRESCOTT	53	28	60	20	41	-1	0.00	-0.19	0.00	0.00	0	9.30	78	83	34	0	6	0	0
	TUCSON	67	46	76	39	56	0	0.19	0.02	0.19	0.19	320	8.83	91	79	33	0	0	1	0
CA	BAKERSFIELD	64	41	70	36	52	0	0.00	-0.16	0.00	0.00	0	8.59	161	69	32	0	0	0	0
	EUREKA	56	39	61	32	47	-1	2.03	0.43	1.47	1.70	338	29.90	91	92	62	0	1	4	1
	FRESNO	63	39	67	36	51	0	0.00	-0.26	0.00	0.00	0	12.82	138	78	33	0	0	0	0
	LOS ANGELES	67	52	73	49	60	0	0.00	-0.30	0.00	0.00	0	21.80	215	75	33	0	0	0	0
	REDDING	59	34	65	28	46	-2	0.61	-0.59	0.60	0.61	155	32.95	119	86	42	0	3	2	1
	SACRAMENTO	62	37	63	31	49	0	0.12	-0.47	0.11	0.12	62	14.46	97	91	39	0	2	2	0
	SAN DIEGO	67	49	70	46	58	-2	0.33	0.07	0.19	0.07	85	13.45	164	83	41	0	0	3	0
	SAN FRANCISCO	63	50	65	46	56	3	0.28	-0.45	0.24	0.04	18	21.38	135	79	51	0	0	2	0
	STOCKTON	63	36	66	30	50	-1	0.07	-0.37	0.07	0.07	51	14.01	125	91	39	0	3	1	0
CO	ALAMOSA	41	0	45	-7	20	-3	0.00	-0.08	0.00	0.00	0	3.84	54	81	23	0	7	0	0
	CO SPRINGS	45	18	59	12	32	-3	0.00	-0.07	0.00	0.00	0	24.88	158	72	24	0	7	0	0
	DENVER INTL	46	18	59	10	32	-2	0.00	-0.11	0.00	0.00	0	18.36	129	77	25	0	7	0	0
	GRAND JUNCTION	37	18	41	12	28	-6	0.06	-0.08	0.06	0.06	136	6.92	81	90	58	0	7	1	0
	PUEBLO	49	14	63	10	31	-4	0.00	-0.09	0.00	0.00	0	11.43	97	75	20	0	7	0	0
CT	BRIDGEPORT	48	33	55	27	41	-1	0.51	-0.36	0.30	0.30	111	43.56	107	83	55	0	4	3	0
	HARTFORD	48	29	54	21	39	1	0.51	-0.42	0.27	0.08	29	56.59	130	83	48	0	4	3	0
DC	WASHINGTON	49	33	55	24	41	-5	0.39	-0.33	0.16	0.23	101	29.37	76	78	50	0	3	3	0
DE	WILMINGTON	47	29	54	19	38	-5	1.13	0.30	0.82	0.31	121	43.65	104	88	55	0	6	3	1
FL	DAYTONA BEACH	72	54	83	44	63	-1	0.15	-0.42	0.15	0.00	0	55.63	113	94	59	0	0	1	0
	JACKSONVILLE	67	45	80	32	56	-3	3.35	2.80	2.01	1.34	829	46.57	91	96	56	0	1	3	2
	KEY WEST	80	73	84	67	76	1	0.00	-0.44	0.00	0.00	0	28.80	75	88	71	0	0	0	0
	MIAMI	82	67	86	59	75	2	0.12	-0.55	0.12	0.00	0	73.70	113	84	58	0	0	1	0
	ORLANDO	75	56	86	46	66	0	0.14	-0.32	0.14	0.00	0	44.89	91	91	54	0	0	1	0
	PENSACOLA	66	49	75	34	57	-1	3.53	2.45	2.46	2.50	795	55.63	88	83	52	0	0	3	2
	TALLAHASSEE	65	43	77	27	54	-3	6.65	5.83	4.17	4.28	900	53.02	96	96	57	0	2	3	2
	TAMPA	73	56	82	44	65	-3	1.05	0.65	1.05	0.00	0	32.03	68	88	56	0	0	1	1
	WEST PALM BEACH	79	64	84	55	72	1	0.17	-0.60	0.16	0.16	68	68.56	117	93	60	0	0	2	0
GA	ATHENS	56	37	67	25	46	-3	0.21	-0.65	0.11	0.10	41	44.99	100	86	44	0	3	3	0
	ATLANTA	58	40	67	28	49	-2	0.23	-0.68	0.14	0.14	55	37.20	80	82	45	0	2	2	0
	AUGUSTA	60	35	73	25	47	-5	0.24	-0.41	0.24	0.00	0	57.47	142	95	45	0	3	1	0
	COLUMBUS	59	41	67	28	50	-3	0.39	-0.60	0.28	0.10	37	44.81	101	92	49	0	2	3	0
	MACON	60	37	71	25	49	-3	0.29	-0.55	0.21	0.07	31	41.73	98	92	48	0	3	3	0
	SAVANNAH	63	42	78	29	52	-4	0.17	-0.42	0.16	0.01	6	36.85	81	91	48	0	2	2	0
HI	HILO	81	69	83	67	75	2	7.76	4.54	6.14	0.15	17	93.40	85	98	71	0	0	6	2
	HONOLULU	80	70	85	67	75	-2	2.26	1.79	1.45	0.35	290	12.88	89	98	71	0	0	6	1
	KAHULUI	83	69	86	65	76	0	0.36	-0.15	0.32	0.00	0	10.46	77	91	60	0	0	2	0
	LIHUE	79	70	81	66	74	-1	2.17	1.15	1.12	0.35	116	38.44	120	93	73	0	0	5	1
IA	BURLINGTON	37	23	54	5	30	-6	0.81	0.31	0.38	0.60	410	25.73	71	92	72	0	6	3	0
	CEDAR RAPIDS	35	20	45	-1	28	-4	0.27	-0.15	0.15	0.15	118	17.46	50	91	69	0	6	2	0
	DES MOINES	40	24	53	11	32	-1	0.03	-0.38	0.03	0.00	0	23.24	66	85	56	0	6	1	0
	DUBUQUE	33	20	46	5	27	-4	0.37	-0.11	0.18	0.19	136	29.57	80	90	66	0	7	3	0
	SIOUX CITY	42	15	56	8	29	-1	0.00	-0.27	0.00	0.00	0	23.17	81	92	52	0	7	0	0
	WATERLOO	37	19	49	0	28	-3	0.15	-0.22	0.14	0.01	11	21.41	61	83	59	0	7	2	0
ID	BOISE	38	23	43	19	31	-5	0.41	0.09	0.24	0.41	416	10.08	100	86	61	0	7	2	0
	LEWISTON	36	26	50	23	31	-7	0.14	-0.13	0.08	0.14	180	9.57	81	89	65	0	7	2	0
	POCATELLO	32	10	38	2	21	-9	0.19	-0.06	0.16	0.19	252	13.24	123	94	70	0	7	2	0
IL	CHICAGO/O_HARE	38	27	51	14	32	-3	0.81	0.27	0.65	0.65	412	30.95	86	84	64	0	5	2	1
	MOLINE	38	25	53	11	31	-3	0.85	0.33	0.31	0.55	368	26.64	73	88	65	0	5	3	0
	PEORIA	40	27	56	11	33	-3	1.09	0.53	0.44	0.63	402	31.04	87	90	65	0	4	4	0
	ROCKFORD	36	23	50	12	29	-4	0.72	0.20	0.44	0.52	356	29.39	82	88	67	0	5	3	0
	SPRINGFIELD	42	29	55	14	36	-2	1.33	0.77	0.94	0.98	655	31.73	88	92	66	0	4	4	1
IN	EVANSVILLE	48	31	59	22	40	-2	0.55	-0.41	0.39	0.39	156	38.51	86	88	56	0	4	2	0
	FORT WAYNE	41	26	55	16	33	-3	0.55	-0.13	0.28	0.32	180	31.70	85	89	66	0	5	3	0
	INDIANAPOLIS	44	29	58	17	36	-2	0.39	-0.35	0.20	0.19	102	32.99	80	87	55	0	4	2	0
	SOUTH BEND	39	26	54	15	33	-2	0.90	0.30	0.71	0.75	454	37.16	100	91	70	0	5	4	1
KS	CONCORDIA	48	24	60	18	36	0	0.00	-0.25	0.00	0.00	0	22.41	81	85	45	0	7	0	0
	DODGE CITY	47	22	60	15	35	-3	0.01	-0.15	0.01	0.00	0	21.06	99	88	45	0	7	1	0
	GOODLAND	46	18	62	11	32	-2	0.00	-0.09	0.00	0.00	0	19.76	105	79	33	0	7	0	0
	TOPEKA	43	23	53	14	33	-6	0.36	-0.03	0.19	0.10	89	20.89	59	93	62	0	6	4	0

Based on 1991-2020 normals

***** Not Available**

Weather Data for the Week Ending December 2, 2023

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS TEMP. °F		NUMBER OF DAYS PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE DEC 1	PCT. NORMAL SINCE DEC 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	42	22	52	13	32	-8	0.44	0.15	0.44	0.00	0	27.79	83	94	70	0	6	1	0
KY	LEXINGTON	51	33	61	16	42	1	0.67	-0.22	0.33	0.58	220	38.95	84	82	53	0	3	3	0
	LOUISVILLE	51	35	63	22	43	-1	0.22	-0.68	0.15	0.15	57	36.81	82	74	49	0	2	2	0
	PADUCAH	51	33	61	24	42	-2	0.74	-0.28	0.46	0.46	164	52.67	113	89	56	0	4	3	0
LA	BATON ROUGE	70	48	81	35	59	2	3.67	2.72	3.04	3.18	900	45.50	80	90	51	0	0	4	1
	LAKE CHARLES	67	48	76	38	58	0	4.93	3.94	4.56	0.38	131	40.63	73	90	54	0	0	2	1
	NEW ORLEANS	67	52	78	40	59	0	6.11	5.20	3.00	5.27	900	35.26	60	92	58	0	0	4	3
	SHREVEPORT	64	42	73	36	53	0	***	***	***	***	***	***	***	88	36	0	0	***	***
MA	BOSTON	47	34	55	28	40	0	0.48	-0.47	0.35	0.05	18	41.56	105	84	50	0	4	3	0
	WORCESTER	44	30	52	21	37	1	0.39	-0.60	0.16	0.08	29	55.81	126	86	52	0	5	4	0
MD	BALTIMORE	48	30	58	23	39	-4	0.42	-0.35	0.22	0.20	83	34.97	84	83	49	0	6	3	0
ME	CARIBOU	36	23	43	14	29	3	0.44	-0.37	0.30	0.14	59	36.16	96	87	66	0	7	2	0
	PORTLAND	45	29	56	23	37	2	0.87	-0.14	0.79	0.08	27	48.56	110	86	51	0	4	2	1
MI	ALPENA	36	21	49	17	29	-3	0.22	-0.22	0.14	0.00	0	27.74	99	92	62	0	7	3	0
	GRAND RAPIDS	37	25	51	18	31	-4	0.61	-0.02	0.45	0.49	277	33.83	91	91	71	0	5	4	0
	HOUGHTON LAKE	31	20	46	16	26	-5	0.07	-0.33	0.05	0.00	0	19.52	92	94	75	0	5	3	0
	LANSING	37	25	51	17	31	-4	0.72	0.21	0.54	0.61	442	34.67	109	87	67	0	5	3	1
	MUSKEGON	39	28	51	22	34	-3	0.72	0.09	0.33	0.29	162	29.43	89	83	65	0	6	5	0
	TRAVERSE CITY	37	25	46	19	31	-3	0.17	-0.30	0.11	0.00	0	22.95	83	89	61	0	7	4	0
MN	DULUTH	31	11	42	-2	21	-2	0.02	-0.37	0.02	0.00	0	31.56	105	83	52	0	7	1	0
	INT_L FALLS	29	8	40	-6	19	0	0.07	-0.19	0.07	0.00	0	22.67	92	87	59	0	7	1	0
	MINNEAPOLIS	36	19	48	8	27	-1	0.01	-0.32	0.01	0.00	0	26.87	88	82	48	0	7	1	0
	ROCHESTER	33	15	48	0	24	-3	0.06	-0.31	0.06	0.00	0	28.13	84	93	62	0	7	1	0
	ST. CLOUD	36	12	48	3	24	0	0.01	-0.23	0.01	0.00	0	24.31	87	85	48	0	7	1	0
MO	COLUMBIA	46	29	59	19	38	-3	1.26	0.71	0.64	0.76	507	31.37	79	94	60	0	4	4	1
	KANSAS CITY	43	25	54	17	34	-4	0.81	0.38	0.37	0.38	320	32.63	86	96	65	0	6	4	0
	SAINT LOUIS	49	34	61	23	41	0	0.83	0.15	0.31	0.39	235	30.24	76	78	48	0	3	4	0
	SPRINGFIELD	49	33	63	22	41	-1	0.75	0.06	0.60	0.07	40	41.74	98	90	57	0	3	4	1
MS	JACKSON	64	41	77	29	53	1	0.71	-0.39	0.49	0.54	176	37.24	70	92	50	0	1	4	0
	MERIDIAN	65	40	77	28	52	0	0.95	-0.14	0.40	0.76	237	52.08	100	93	50	0	3	4	0
	TUPELO	59	37	65	27	48	-1	1.27	-0.07	0.92	1.07	270	44.57	85	89	51	0	3	4	1
MT	BILLINGS	41	23	52	20	32	1	0.00	-0.12	0.00	0.00	0	16.54	120	71	36	0	7	0	0
	BUTTE	38	8	45	4	23	1	0.05	-0.07	0.03	0.05	144	17.36	141	86	36	0	7	2	0
	CUT BANK	41	20	54	13	31	4	0.00	-0.07	0.00	0.00	0	7.81	74	79	37	0	6	0	0
	GLASGOW	41	19	49	13	30	6	0.00	-0.09	0.00	0.00	0	12.74	97	83	47	0	7	0	0
	GREAT FALLS	42	19	52	12	31	1	0.00	-0.13	0.00	0.00	0	17.07	119	81	37	0	7	0	0
	HAVRE	42	20	48	12	31	5	0.00	-0.09	0.00	0.00	0	11.12	97	85	44	0	7	0	0
	MISSOULA	34	15	40	9	24	-3	0.05	-0.20	0.05	0.05	68	12.53	95	88	62	0	7	1	0
NC	ASHEVILLE	52	30	60	18	41	-3	0.27	-0.65	0.16	0.27	101	31.93	69	85	48	0	5	2	0
	CHARLOTTE	57	33	68	23	45	-3	0.21	-0.53	0.13	0.17	82	38.98	96	84	39	0	4	3	0
	GREENSBORO	54	31	63	19	42	-4	0.05	-0.67	0.04	0.01	6	37.60	91	83	42	0	5	2	0
	HATTERAS	60	44	70	31	52	-3	1.36	0.28	1.21	0.01	3	42.45	74	90	57	0	2	3	1
	RALEIGH	58	36	69	23	47	-1	0.10	-0.63	0.06	0.06	29	37.60	87	81	44	0	3	2	0
	WILMINGTON	60	39	73	27	50	-3	0.35	-0.45	0.32	0.03	14	49.83	87	90	49	0	3	3	0
ND	BISMARCK	40	15	50	12	28	4	0.00	-0.13	0.00	0.00	0	19.95	107	89	46	0	7	0	0
	DICKINSON	39	17	47	13	28	3	0.00	-0.06	0.00	0.00	0	14.63	94	89	43	0	7	0	0
	FARGO	37	15	50	1	26	3	0.06	-0.13	0.06	0.00	0	18.72	81	80	52	0	7	1	0
	GRAND FORKS	37	14	50	0	26	6	0.03	-0.12	0.03	0.00	0	13.81	65	80	48	0	7	1	0
	JAMESTOWN	38	16	51	11	27	5	0.00	-0.08	0.00	0.00	0	15.89	81	81	49	0	7	0	0
NE	GRAND ISLAND	45	21	60	17	33	-1	0.04	-0.19	0.04	0.04	62	14.30	55	85	45	0	7	1	0
	LINCOLN	47	18	59	13	32	-2	0.01	-0.26	0.01	0.00	0	18.28	64	86	42	0	7	1	0
	NORFOLK	42	19	56	13	30	-1	0.00	-0.25	0.00	0.00	0	24.85	95	83	48	0	7	0	0
	NORTH PLATTE	44	13	56	8	29	-3	0.00	-0.08	0.00	0.00	0	20.87	101	91	44	0	7	0	0
	OMAHA	42	20	52	15	31	-4	0.07	-0.22	0.07	0.00	0	23.09	75	92	53	0	7	1	0
	SCOTTSBLUFF	43	16	51	9	29	-3	0.00	-0.10	0.00	0.00	0	19.45	128	88	47	0	7	0	0
	VALENTINE	42	14	59	11	28	-2	0.00	-0.11	0.00	0.00	0	30.87	150	91	42	0	7	0	0
NH	CONCORD	45	24	53	18	34	1	0.65	-0.16	0.47	0.10	41	34.68	90	91	49	0	6	3	0
NJ	ATLANTIC_CITY	50	30	57	23	40	-3	0.59	-0.30	0.33	0.26	90	34.87	83	86	51	0	6	2	0
	NEWARK	51	33	61	27	42	-1	0.61	-0.27	0.38	0.38	141	43.52	101	81	47	0	4	2	0
NM	ALBUQUERQUE	47	30	53	25	38	-2	0.16	0.03	0.16	0.00	0	4.30	51	78	38	0	5	1	0
NV	ELY	38	10	46	-1	24	-6	0.01	-0.11	0.01	0.01	33	11.40	129	88	43	0	7	1	0
	LAS VEGAS	60	42	62	38	51	-1	0.00	-0.08	0.00	0.00	0	4.15	110	48	22	0	0	0	0
	RENO	48	26	54	19	37	-2	0.00	-0.19	0.00	0.00	0	10.09	159	74	35	0	6	0	0
	WINNEMUCCA	45	18	48	10	31	-3	0.13	-0.05	0.11	0.12	206	8.18	125	86	39	0	6	3	0
NY	ALBANY	44	30	50	20	37	1	0.72	-0.01	0.43	0.07	32	40.99	108	80	49	0	5	4	0
	BINGHAMTON	40	28	52	19	34	1	0.70	-0.02	0.35	0.26	125	39.57	101	87	56	0	5	5	0
	BUFFALO	43	30	50	22	37	0	0.66	-0.17	0.28	0.41	170	36.04	97	88	56	0	4	4	0
	ROCHESTER	44	29	53	18	36	-1	0.59	-0.05	0.29	0.38	210	33.96	104	83	55	0	5	6	0
	SYRACUSE	45	31	54	24	38	2	0.50	-0.23	0.16	0.19	87	38.77	105	81	48	0	5	5	0
OH	AKRON-CANTON	42	27	53	15	35	-3	0.47	-0.23	0.25	0.21	108	34.71	89	91	56	0	5	3	0
	CINCINNATI	46	30	58	15	38	-2	0.36	-0.44	0.29	0.29	127	37.32	89	90	55	0	4	2	0
	CLEVELAND	43	30	54	17	36	-3	0.77	0.04	0.30	0.35	178	40.94	107	85	56	0	4	4	0
	COLUMBUS	45	30	56	17	38	-1	0.40	-0.24	0.25	0.25	139	38.03	98	90	52	0	5	2	0
	DAYTON	45	30	57	17	37	-2	0.39	-0.31	0.29	0.29	155	32.48	84	81	51	0	4	2	0
	MANSFIELD	41	27	52	15	34	-2	0.41	-0.29	0.22	0.19	100	39.54	99	89	60	0	4	2	0

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

Weather Data for the Week Ending December 2, 2023

STATES AND STATIONS		TEMPERATURE °F						PRECIPITATION							RELATIVE HUMIDITY PERCENT		NUMBER OF DAYS TEMP. °F		NUMBER OF DAYS PRECIP	
		AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE DEC 1	PCT. NORMAL SINCE DEC 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	28	57	19	35	-3	0.63	0.01	0.36	0.44	269	29.52	90	86	61	0	5	4	0
	YOUNGSTOWN	43	29	53	16	36	-1	0.47	-0.22	0.21	0.20	102	33.41	87	86	56	0	5	4	0
OK	OKLAHOMA CITY	55	31	66	23	43	-1	0.14	-0.22	0.14	0.00	0	33.05	95	91	50	0	5	1	0
	TULSA	55	34	66	26	44	-1	0.46	-0.07	0.43	0.00	0	35.06	90	90	52	0	3	2	0
OR	ASTORIA	51	36	55	30	43	-1	1.46	-1.20	0.65	1.07	151	46.37	76	96	62	0	3	3	1
	BURNS	40	14	43	4	27	-3	0.30	0.00	0.14	0.20	212	12.25	136	88	53	0	7	3	0
	EUGENE	47	31	55	22	39	-4	1.56	-0.15	0.94	1.23	240	23.09	67	96	72	0	4	3	1
	MEDFORD	49	31	56	24	40	-2	1.06	0.29	0.63	0.94	391	11.73	77	91	56	0	4	3	1
	PENDLETON	37	26	50	20	31	-6	0.29	-0.05	0.13	0.21	212	8.74	76	91	71	0	6	3	0
	PORTLAND	47	34	52	27	40	-4	1.69	0.27	0.95	1.44	349	28.14	89	88	59	0	4	3	1
	SALEM	47	32	53	24	40	-4	1.13	-0.52	0.53	0.87	178	29.27	87	94	64	0	4	3	1
PA	ALLENTOWN	44	26	54	19	35	-5	1.29	0.40	1.07	0.21	81	37.58	85	87	52	0	6	2	1
	ERIE	43	31	50	19	37	-2	1.70	0.81	0.52	0.39	150	39.12	100	86	57	0	4	6	1
	MIDDLETOWN	45	30	55	22	37	-3	0.32	-0.44	0.17	0.18	78	32.54	79	85	54	0	4	3	0
	PHILADELPHIA	48	33	53	25	40	-3	1.29	0.47	0.87	0.42	163	34.35	85	83	50	0	3	2	1
	PITTSBURGH	47	32	61	19	39	1	0.24	-0.43	0.16	0.16	87	28.47	77	78	45	0	5	3	0
	WILKES-BARRE	42	28	52	21	35	-3	0.89	0.21	0.84	0.04	22	39.63	109	84	52	0	6	3	1
	WILLIAMSPORT	41	27	46	20	34	-3	0.14	-0.67	0.07	0.07	30	36.20	89	85	55	0	6	3	0
RI	PROVIDENCE	48	31	55	22	40	-1	0.73	-0.41	0.35	0.04	11	49.88	115	89	49	0	4	3	0
SC	CHARLESTON	64	42	76	33	53	-2	0.26	-0.37	0.25	0.00	0	46.69	94	93	48	0	0	2	0
	COLUMBIA	60	36	71	25	48	-3	0.15	-0.52	0.15	0.00	0	50.08	120	97	49	0	3	1	0
	FLORENCE	59	37	71	27	48	-3	0.17	-0.44	0.14	0.03	17	37.44	89	91	48	0	3	2	0
	GREENVILLE	56	32	67	21	44	-4	0.30	-0.65	0.16	0.27	100	45.82	101	84	41	0	4	3	0
SD	ABERDEEN	40	10	51	4	25	1	0.04	-0.10	0.04	0.00	0	21.76	102	87	48	0	7	1	0
	HURON	40	13	53	6	27	0	0.07	-0.09	0.07	0.00	0	17.37	76	89	48	0	7	1	0
	RAPID CITY	46	16	58	14	31	1	0.00	-0.08	0.00	0.00	0	20.59	120	82	32	0	7	0	0
	SIOUX FALLS	41	14	54	11	28	-1	0.00	-0.24	0.00	0.00	0	16.81	62	81	45	0	7	0	0
TN	BRISTOL	53	27	62	15	40	-3	1.14	0.28	0.91	0.97	390	36.27	89	91	51	0	6	3	1
	CHATTANOOGA	56	37	63	23	47	-1	1.98	0.69	1.61	1.94	561	42.69	85	87	44	0	4	3	1
	KNOXVILLE	52	33	62	21	43	-3	2.85	1.66	2.31	2.55	771	42.94	90	87	52	0	4	3	1
	MEMPHIS	58	37	68	29	48	-1	1.03	-0.26	0.51	0.51	139	51.82	104	88	48	0	2	3	1
	NASHVILLE	56	36	65	22	46	0	0.66	-0.43	0.35	0.61	202	34.94	75	80	48	0	3	4	0
TX	ABILENE	64	37	75	25	51	0	0.02	-0.24	0.02	0.02	26	21.23	88	84	30	0	2	1	0
	AMARILLO	55	24	64	20	40	-3	0.21	0.08	0.21	0.00	0	15.65	82	88	36	0	7	1	0
	AUSTIN	64	45	73	36	55	-3	0.14	-0.47	0.14	0.00	0	23.09	68	87	42	0	0	1	0
	BEAUMONT	68	49	77	39	59	0	3.26	2.28	3.07	0.19	60	35.93	62	94	55	0	0	2	1
	BROWNSVILLE	73	60	82	55	67	-1	0.48	0.18	0.24	0.00	0	20.75	80	92	67	0	0	3	0
	CORPUS CHRISTI	69	57	80	50	63	0	0.12	-0.26	0.08	0.08	75	25.80	86	90	60	0	0	2	0
	DEL RIO	67	49	80	41	58	1	0.00	-0.18	0.00	0.00	0	14.11	73	94	38	0	0	0	0
	EL PASO	62	42	67	38	52	2	0.10	-0.02	0.08	0.02	55	4.04	49	57	30	0	0	2	0
	FORT WORTH	61	40	66	32	50	-2	0.06	-0.48	0.06	0.00	0	24.70	71	88	41	0	1	1	0
	GALVESTON	67	55	74	46	61	-1	5.24	4.20	3.93	1.32	413	26.81	61	90	67	0	0	2	2
	HOUSTON	66	49	74	39	57	-1	1.01	0.10	0.52	0.43	157	38.71	80	88	58	0	0	3	1
	LUBBOCK	59	29	64	24	44	-1	0.00	-0.15	0.00	0.00	0	15.89	90	80	31	0	5	0	0
	MIDLAND	59	37	67	33	48	-2	0.00	-0.15	0.00	0.00	0	6.84	52	88	33	0	0	0	0
	SAN ANGELO	64	36	74	28	50	-1	0.04	-0.15	0.04	0.04	76	17.04	84	89	32	0	1	1	0
	SAN ANTONIO	65	50	74	46	58	1	0.34	-0.09	0.30	0.00	0	18.52	60	82	43	0	0	2	0
	VICTORIA	66	52	77	47	59	0	0.28	-0.35	0.23	0.05	29	29.21	76	89	56	0	0	2	0
	WACO	62	38	72	31	50	-3	0.19	-0.38	0.15	0.00	0	25.79	76	95	43	0	1	2	0
	WICHITA FALLS	60	33	70	24	46	-2	0.04	-0.32	0.04	0.04	35	20.25	76	89	40	0	3	1	0
UT	SALT LAKE CITY	38	28	42	24	33	-3	0.14	-0.18	0.11	0.14	150	16.73	117	97	65	0	7	2	0
VA	LYNCHBURG	50	28	59	21	39	-3	0.36	-0.46	0.26	0.36	149	38.33	97	81	46	0	5	2	0
	NORFOLK	56	38	70	29	47	-2	0.78	0.11	0.66	0.11	58	42.22	91	87	48	0	4	4	1
	RICHMOND	54	31	65	19	42	-3	0.36	-0.40	0.16	0.20	87	34.17	80	85	42	0	3	3	0
	ROANOKE	52	31	63	24	41	-3	0.30	-0.46	0.19	0.30	138	29.12	72	73	41	0	5	2	0
	WASH/DULLES	50	29	60	19	40	-2	0.20	-0.55	0.12	0.20	89	29.10	72	80	45	0	5	2	0
VT	BURLINGTON	41	31	48	23	36	2	1.50	0.91	0.91	0.24	141	38.57	109	80	52	0	4	4	1
WA	OLYMPIA	45	34	52	29	40	-1	1.62	-0.31	0.87	1.46	277	31.73	73	92	75	0	4	3	2
	QUILLAYUTE	51	34	56	27	43	0	2.11	-1.40	1.05	1.76	187	68.28	77	85	67	0	4	3	2
	SEATTLE-TACOMA	46	33	50	28	40	-4	1.09	-0.36	0.53	0.95	248	27.08	79	95	63	0	4	3	1
	SPOKANE	32	24	37	21	28	-4	0.62	0.09	0.33	0.61	394	10.73	75	93	76	0	7	3	0
	YAKIMA	38	23	51	16	31	-3	0.20	-0.07	0.09	0.13	143	5.64	84	88	61	0	7	3	0
WI	EAU CLAIRE	34	13	44	2	23	-4	0.01	-0.36	0.01	0.00	0	24.68	77	85	50	0	7	1	0
	GREEN BAY	34	19	46	10	27	-4	0.09	-0.35	0.09	0.00	0	24.26	80	80	62	0	7	1	0
	LA CROSSE	35	18	47	7	26	-5	0.12	-0.29	0.11	0.00	0	22.39	66	87	53	0	7	2	0
	MADISON	35	21	47	9	28	-3	0.23	-0.24	0.20	0.03	24	27.73	77	86	59	0	7	2	0
	MILWAUKEE	39	27	51	15	33	-2	0.53	0.04	0.41	0.41	297	31.22	95	76	55	0	5	2	0
WV	BECKLEY	47	29	59	14	38	-2	0.48	-0.25	0.21	0.41	187	37.76	93	85	47	0	5	4	0
	CHARLESTON	51	29	63	15	40	-2	0.35	-0.48	0.19	0.16	67	33.36	77	94	50	0	4	3	0
	ELKINS	49	24	62	10	37	-2	0.67	-0.10	0.23	0.24	101	39.71	90	92	52	0	6	5	0
	HUNTINGTON	51	33	62	15	42	-1	0.29	-0.53	0.16	0.20	83	30.56	73	80	46	0	3	3	0
WY	CASPER	31	14	36	3	23	-6	0.00	-0.13	0.00	0.00	0	15.19	130	77	55	0	7	0	0
	CHEYENNE	38	18	50	12	28	-3	0.00	-0.12	0.00	0.00	0	18.65	124	72	36	0	7	0	0
	LANDER	22	2	37	-1	12	-14	0.00	-0.16	0.00	0.00	0	17.05	134	94	67	0	7	0	0
	SHERIDAN	42	17	51	14	29	1	0.00	-0.15	0.00	0.00	0	22.23	154	78	42	0	7	0	0

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

International Weather and Crop Summary

November 26 - December 2, 2023

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

EUROPE: The coldest air of the season settled over central and northern Europe, while warm albeit wetter weather returned to southern growing areas.

MIDDLE EAST: Another slow-moving storm brought widespread moderate to heavy rain to western portions of the region.

NORTHWESTERN AFRICA: Localized showers in some coastal locales improved moisture supplies for wheat and barley, though drought persisted over most primary crop areas.

SOUTHEAST ASIA: Seasonal rains became established across western and central Java, Indonesia, after a month-long delay.

AUSTRALIA: Additional rain in the east further benefited recently sown summer crops and triggered more planting.

SOUTH AFRICA: Lingering heat kept topsoils dry in western sections of the corn belt.

ARGENTINA: Showers brought much-needed relief after a nearly week-long heat wave.

BRAZIL: Beneficial rain continued in most farming areas, although unseasonable warmth maintained high losses through evaporation.

November 2023

COUNTRY	CITY	TEMPERATURE (C)						PRECIP. (MM)	
		AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	TOT	DEP NRM
ALGERI	ALGER	23	11	30	6	17	1.7	62	-40
	BATNA	20	6	28	1	13	2.3	71	45
ARGENT	IGUAZU	29	20	36	9	25	0.8	232	49
	FORMOSA	31	22	41	12	26	1.8	474	314
	CERES	29	17	43	8	23	0.2	173	55
	CORDOBA	29	14	44	0	21	0.7	73	-46
	RIO CUARTO	27	14	35	6	20	0.1	92	-38
	ROSARIO	27	15	34	6	21	-0.2	185	73
	BUENOS AIRES	25	13	32	4	19	-0.5	126	27
	SANTA ROSA	28	12	38	4	20	0	72	-8
	TRES ARROYOS	26	10	35	2	18	-0.1	90	2
AUSTRA	DARWIN	34	26	35	24	30	0.8	38	******
	BRISBANE	26	19	34	14	22	-0.1	60	-30
	PERTH	30	17	39	12	24	3.5	3	-26
	CEDUNA	23	13	38	6	18	-1.4	*****	******
	ADELAIDE	22	13	39	8	18	-1.5	*****	******
	MELBOURNE	22	13	33	10	18	0.9	57	3
	WAGGA	28	14	38	4	21	1.4	119	66
	CANBERRA	25	11	33	5	18	1.2	144	81
AUSTRI	VIENNA	10	4	18	-3	7	1.2	71	27
	INNSBRUCK	9	2	17	-4	5	0.2	101	39
BAHAMA	NASSAU	29	23	31	19	26	1.1	226	171
BARBAD	BRIDGETOWN	30	25	32	23	28	0.5	275	134
BELARU	MINSK	4	0	13	-12	2	0.7	75	26
BERMUD	ST GEORGES	23	19	26	16	21	0.3	257	148
BOLIVI	LA PAZ	17	4	22	-1	11	0.9	58	7
BRAZIL	FORTALEZA	32	26	32	24	29	0.7	30	21
	RECIFE	30	26	31	22	28	-0.2	35	11
	CAMPO GRANDE	34	24	38	14	29	2.6	85	-33
	FRANCA	31	21	37	14	26	3	168	-46
	RIO DE JANEI	31	23	41	18	27	2.4	55	-55
	LONDRINA	***	***	39	15	***	*****	197	37
	SANTA MARIA	27	18	35	9	22	0	228	94
BULGAR	SOFIA	11	3	21	-4	7	0.8	116	79
BURKIN	OUAGADOUGOU	38	22	38	0	30	1.2	0	******
CANADA	LETHBRIDGE	9	-4	16	-12	3	*****	3	******
	REGINA	2	-7	5	-19	-3	2.3	22	10
	WINNIPEG	2	-5	10	-15	-1	1.7	27	2
	TORONTO	8	0	16	-6	4	0	54	-13
	MONTREAL	6	-2	14	-9	2	-0.5	65	-17
	PRINCE ALBER	2	-8	9	-20	-3	4.1	5	-12
	CALGARY	8	-4	16	-10	2	4	3	-14
	VANCOUVER	10	3	18	-3	6	-0.3	112	-62
CANARY	LAS PALMAS	26	20	32	17	23	2	17	******
CHILE	SANTIAGO	24	9	32	2	17	-1.1	15	******
CHINA	HARBIN	-4	-11	12	-21	-8	-2.6	65	50
	HAMI	10	-4	16	-9	3	1.2	0	-5
	BEIJING	10	0	23	-8	5	-0.4	9	-7
	TIENTSIN	10	1	22	-7	6	-0.1	22	6
	LHASA	13	-1	17	-4	6	0.6	0	-2
	KUNMING	20	10	25	6	15	2.3	3	-28
	CHENGCHOW	16	6	30	-3	11	1.1	41	13
	YEHCHANG	17	10	27	4	14	1.2	45	-3
	HANKOW	18	8	30	1	13	1	65	9
	CHUNGKING	20	14	26	9	17	2.2	72	21
	CHIHKIANG	19	11	29	6	15	1.3	168	109
	WU HU	18	8	32	2	13	0.9	50	-12
	SHANGHAI	19	10	29	1	14	0.6	37	-20
	NANCHANG	20	12	30	7	16	1.4	104	18
	TAIPEI	25	20	31	13	23	0.7	19	-64
	CANTON	26	16	30	8	21	0.9	22	-17
	NANNING	25	17	31	11	21	1.2	23	-23
COLOMB	BOGOTA	20	10	24	4	15	1.3	34	-70
COTE D	ABIDJAN	31	26	32	22	28	0.6	139	-32
CUBA	CAMAGUEY	***	***	31	19	***	*****	*****	******
CYPRUS	LARNACA	25	16	30	8	20	2.1	17	******
CZECHR	PRAGUE	7	3	15	-6	5	1.3	56	27
DENMAR	COPENHAGEN	7	3	12	-7	5	-0.7	45	-1
EGYPT	CAIRO	27	19	33	14	23	2.5	1	******
	ASWAN	32	20	38	13	26	3	0	******

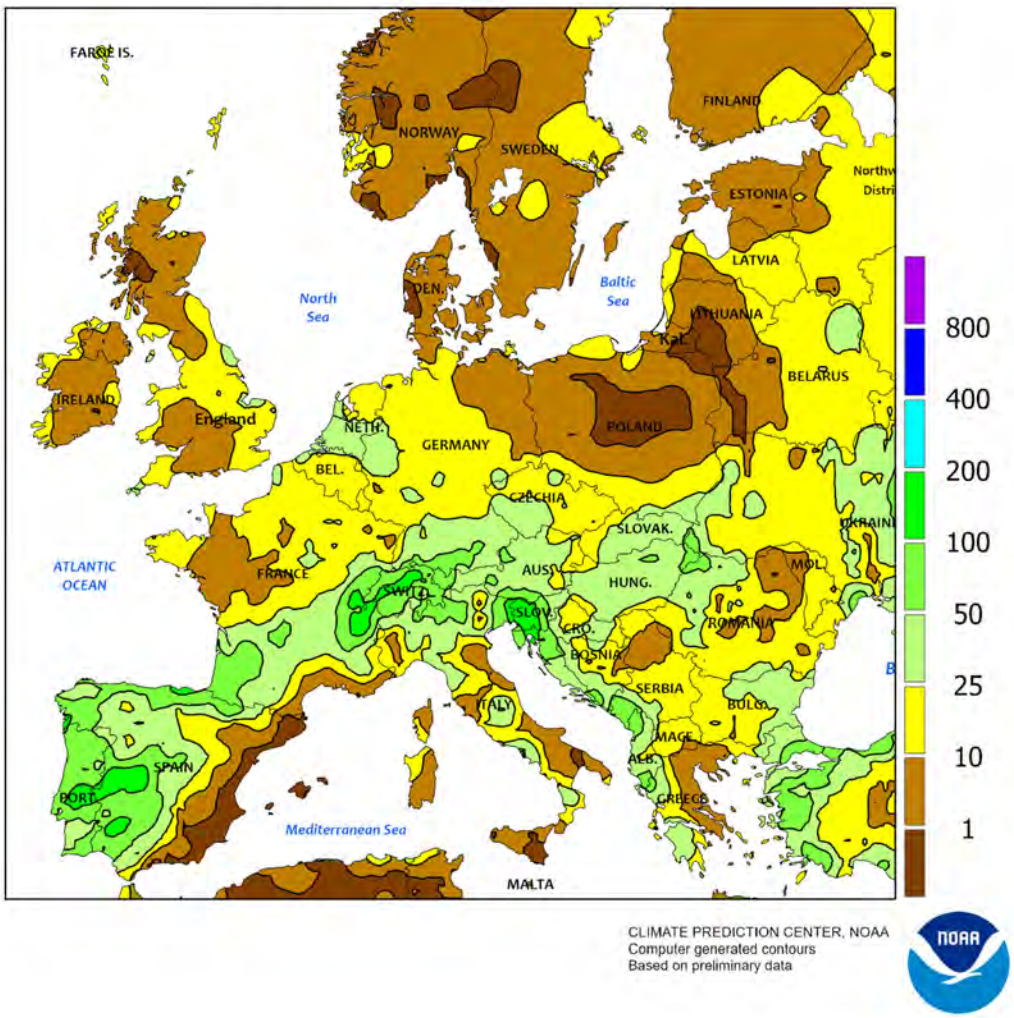
Based on Preliminary Reports

November 2023

COUNTRY	CITY	TEMPERATURE (C) AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	PRECIP. (MM) TOT	DEP NRM
ESTONI	TALLINN	3	-1	10	-12	1	-1.0	76	11
ETHIOP	ADDIS ABABA	***	***	24	8	***	*****	*****	******
F GUIA	CAYENNE	33	24	34	22	28	1.3	118	-18
FIJI	NAUSORI	30	23	34	19	26	1.3	246	9
FINLAN	HELSINKI	1	-2	9	-14	-1	-1.7	70	0
FRANCE	PARIS/ORLY	12	7	17	-1	10	1.6	74	21
	STRASBOURG	10	5	17	-2	8	1.4	35	-12
	BOURGES	12	7	17	-1	10	1.4	69	-1
	BORDEAUX	15	9	20	-1	12	1.3	116	1
	TOULOUSE	15	8	24	-2	11	1.4	63	8
	MARSEILLE	16	7	22	0	12	-0.1	27	-49
GABON	LIBREVILLE	30	24	31	23	27	0.8	616	142
GERMAN	HAMBURG	8	4	13	-6	6	0.6	76	15
	BERLIN	8	4	15	-5	6	0.8	64	23
	DUSSELDORF	10	6	16	-2	8	1.0	155	92
	LEIPZIG	8	4	15	-4	6	1.1	67	27
	DRESDEN	8	4	16	-5	6	1.0	69	21
	STUTTGART	9	4	16	-3	6	1.1	108	57
	NURNBERG	9	4	16	-5	6	1.6	90	43
	AUGSBURG	8	3	15	-3	6	1.8	128	78
GREECE	THESSALONIKA	18	10	27	2	14	2.5	36	-3
	LARISSA	19	8	27	-2	13	2.3	42	-5
	ATHENS	23	16	29	6	19	3.6	29	******
GUADEL	RAIZET	31	24	32	19	27	1.1	72	-114
HONGKO	HONG KONG IN	27	21	32	15	24	1.1	5	-36
HUNGAR	BUDAPEST	10	4	19	-4	7	0.8	90	41
ICELAN	REYKJAVIK	5	2	9	-3	4	1.4	67	-20
INDIA	AMRITSAR	26	13	30	8	20	1.8	22	8
	NEW DELHI	28	13	32	9	20	-0.2	17	9
	AHMEDABAD	33	19	36	16	26	0.9	74	******
	INDORE	29	17	32	15	23	0.9	53	27
	CALCUTTA	30	21	34	18	26	2.3	0	******
	VERAVAL	34	23	38	19	28	1.2	30	******
	BOMBAY	35	23	37	20	29	0.4	7	******
	POONA	31	17	33	14	24	1.3	33	******
	BEGAMPET	30	21	32	18	26	1.5	23	******
	VISHAKHAPATN	32	25	34	23	28	1.6	52	******
	MADRAS	30	24	33	23	27	0.6	510	128
	MANGALORE	32	24	34	23	28	0.5	144	******
INDONE	SERANG	34	25	36	23	30	1.6	150	9
IRELAN	DUBLIN	10	5	14	-2	8	0.8	68	-16
ITALY	MILAN	13	5	19	-1	9	0.0	100	-10
	VERONA	14	4	19	-2	9	0.4	62	-22
	VENICE	13	5	19	-1	9	-0.4	62	-14
	GENOA	17	11	24	5	14	0.9	79	******
	ROME	19	11	22	-2	15	1.2	64	-41
	NAPLES	19	11	22	1	15	0.6	175	43
JAMAIC	KINGSTON	33	25	35	22	29	1.1	304	213
JAPAN	SAPPORO	10	4	22	-5	7	1.8	128	15
	NAGOYA	19	10	26	5	14	1.4	71	-8
	TOKYO	19	11	28	5	15	1.8	42	-54
	YOKOHAMA	19	12	27	6	16	2.2	59	-49
	KYOTO	18	10	26	4	14	1.7	64	-11
	OSAKA	19	11	28	5	15	1.1	94	22
KAZAKH	KUSTANAY	4	-2	15	-16	1	5.7	57	32
	TSELINOGRAD	5	0	12	-10	2	7.5	37	10
	KARAGANDA	7	0	16	-10	3	8.5	37	5
KENYA	NAIROBI	24	16	26	15	20	0.3	446	******
LIBYA	BENGHAZI	26	16	34	8	21	2.5	12	******
LITHUA	KAUNAS	4	0	11	-9	2	-0.4	31	-16
LUXEMB	LUXEMBOURG	8	5	14	-4	6	0.9	198	126
MALAYS	KUALA LUMPUR	33	25	34	24	29	1.0	330	-26
MALI	BAMAKO	37	18	38	13	28	1.5	0	******
MARSHA	MAJURO	31	27	32	25	29	0.9	337	-4
MARTIN	LAMENTIN	31	24	32	20	28	0.6	234	-27
MEXICO	GUADALAJARA	26	13	30	6	19	1.0	7	******
	TLAXCALA	25	9	30	4	17	2.0	17	******
	ORIZABA	23	15	33	11	19	1.0	89	******
MOROCC	CASABLANCA	22	14	26	11	18	1.3	10	******
	MARRAKECH	27	12	33	8	20	2.6	0	******

COUNTRY	CITY	TEMPERATURE (C) AVG MAX	AVG MIN	HI MAX	LO MIN	AVG	DEP NRM	PRECIP. (MM) TOT	DEP NRM
MOZAMB	MAPUTO	30	21	40	14	25	0.3	11	-83
N KORE	PYONGYANG	9	1	26	-8	5	0	148	98
NEW CA	NOUMEA	27	20	31	18	24	-0.2	7	-28
NIGER	NIAMEY	38	22	40	0	30	0.8	0	******
NORWAY	OSLO	-1	-3	5	-12	-2	-2.5	99	10
NZEALA	AUCKLAND	20	13	24	10	17	0.6	74	10
	WELLINGTON	18	12	22	8	15	0.5	44	-23
P RICO	SAN JUAN	31	25	33	24	28	1.2	104	-84
PAKIST	KARACHI	33	22	38	17	27	2.0	6	******
PERU	LIMA	22	18	26	17	20	1.0	0	******
PHILIP	MANILA	32	26	34	24	29	0.6	53	-64
PNEWGU	PORT MORESBY	30	25	32	22	27	-0.6	10	-72
POLAND	WARSAW	6	2	14	-7	4	0.0	62	26
	LODZ	6	2	16	-8	4	0.0	66	24
	KATOWICE	7	3	17	-6	5	0.7	81	29
PORTUG	LISBON	19	14	22	9	16	1.9	100	-6
ROMANI	BUCHAREST	13	3	22	-4	8	2.5	58	14
RUSSIA	ST.PETERSBUR	1	-1	12	-14	0	-0.8	58	1
	KAZAN	2	-1	11	-14	0	2.2	84	39
	MOSCOW	2	-1	16	-10	1	1.1	79	27
	YEKATERINBUR	0	-6	9	-70	-3	2.1	70	38
	OMSK	1	-4	8	-16	-2	5.0	41	7
	BARNAUL	1	-4	10	-16	-2	4.3	46	6
	KHABAROVSK	-6	-12	3	-26	-9	-2.3	50	25
	VLADIVOSTOK	1	-4	11	-14	-1	-0.8	141	106
	VOLGOGRAD	8	3	16	-6	6	4.8	0	-29
	ASTRAKHAN	12	5	20	-6	8	4.9	26	8
	ORENBURG	5	0	15	-17	2	5.0	36	7
S AFRI	JOHANNESBURG	27	15	32	7	21	2.0	55	******
	DURBAN	26	19	35	12	23	0.4	49	-64
	CAPE TOWN	25	15	35	11	20	2.2	11	-15
S KORE	SEOUL	12	4	26	-7	8	-0.3	93	42
SAMOA	PAGO PAGO	32	27	34	25	29	1.0	86	-220
SENEGA	DAKAR	32	24	34	20	28	1.6	0	******
SPAIN	VALLADOLID	14	7	18	2	11	2.6	60	9
	MADRID	16	7	21	-1	12	2.1	22	-25
	SEVILLE	21	10	27	4	16	1.0	20	******
SWITZE	ZURICH	8	4	13	-1	6	1.2	187	111
	GENEVA	10	5	16	-4	7	1.4	176	90
SYRIA	DAMASCUS	***	***	30	3	***	*****	*****	******
TAHITI	PAPEETE	30	24	32	23	27	0.1	90	-3
TANZAN	DAR ES SALAA	31	24	33	22	27	0.0	545	428
THAILA	PHITSANULOK	33	22	35	18	28	0.5	13	-27
	BANGKOK	34	25	36	22	30	0.3	136	82
TOGO	TABLIGBO	34	24	36	23	29	0.9	*****	******
TRINID	PORT OF SPAI	32	24	33	22	28	0.6	200	-20
TUNISI	TUNIS	24	15	32	9	20	2.8	35	-15
TURKEY	ISTANBUL	18	13	28	1	15	3.3	160	97
	ANKARA	15	4	23	-6	9	3.7	70	37
TURKME	ASHKHABAD	21	10	28	4	15	6.4	12	-9
UKINGD	ABERDEEN	8	3	14	-3	6	-0.5	106	18
	LONDON	12	6	16	-2	9	0.4	91	24
UKRAIN	KIEV	7	2	16	-7	4	1.6	99	53
	LVOV	7	1	16	-12	4	0.3	70	20
	KIROVOGRAD	8	3	18	-7	5	2.5	112	78
	ODESSA	11	6	22	-5	9	2.2	136	97
	KHARKOV	7	2	19	-10	4	2.7	120	81
UZBEKI	TASHKENT	20	8	27	3	14	5.0	49	-2
YUGOSL	BELGRADE	14	7	24	0	10	1.7	104	52
ZAMBIA	LUSAKA	***	***	36	0	***	*****	*****	******
ZIMBAB	KADOMA	***	***	36	***	***	*****	*****	******

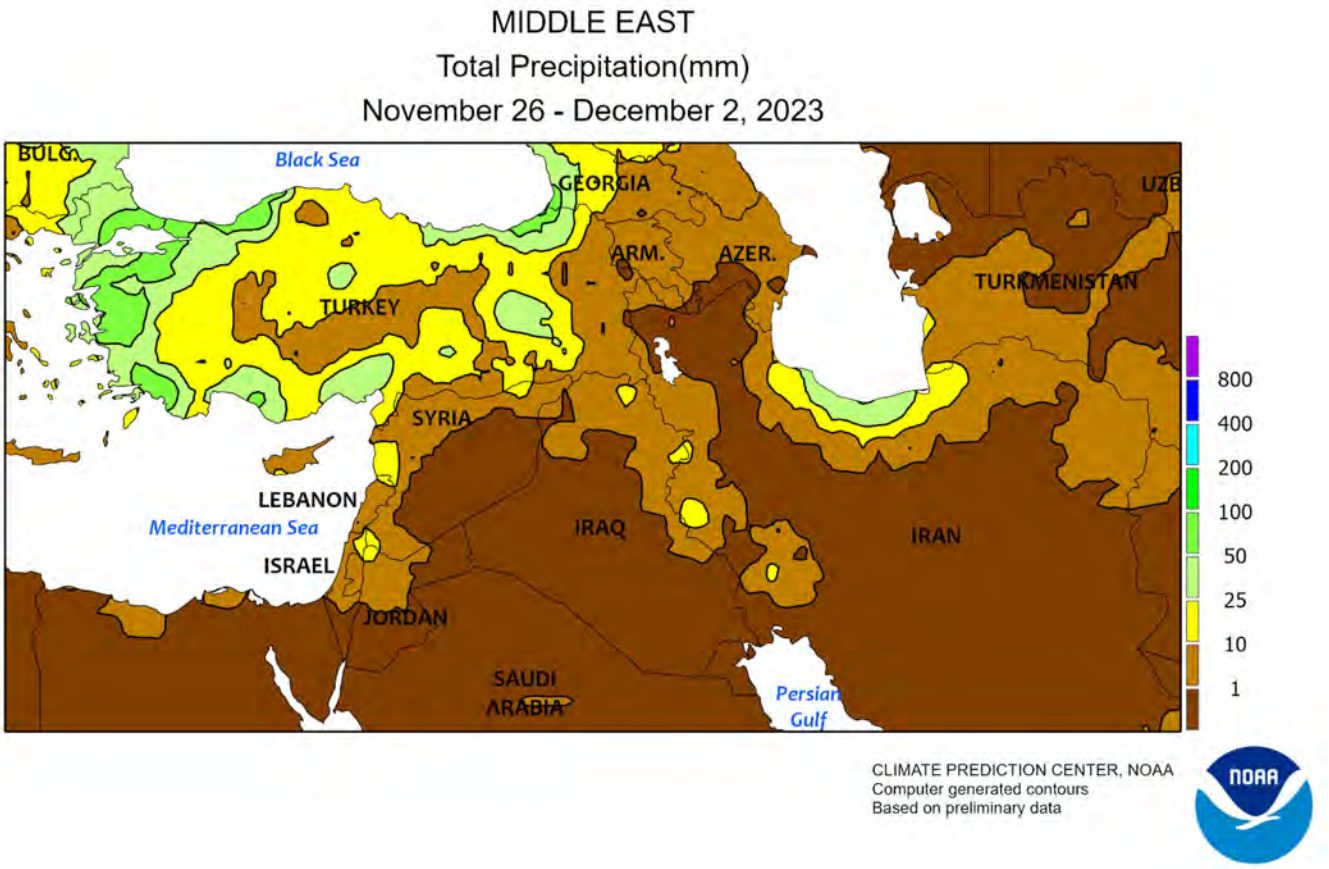
Based on Preliminary Reports



EUROPE

The coldest air of the season arrived over central and northern Europe, while warm and wet weather returned to southern portions of the continent. Temperatures for the week averaged 1 to 3°C below normal in France and 4 to 9°C below normal from England, Scandinavia, and Germany into northeastern Europe. The cold temperatures led to widespread moderate to heavy snowfall from Germany north and eastward, with snow depths at week's end ranging from 2 to 30 cm (locally more). Despite the colder weather, the precipitation in northern France and southeastern England (3-20 mm) fell mostly as rain. Winter crops have gone dormant over central and northern Europe, including previously warmer western portions of the continent's primary winter crop belt. Meanwhile, moderate to heavy showers (10-100 mm, locally more) boosted moisture supplies for vegetative winter grains in Spain, southern France, and western and northern Italy. Farther east, rain in the Balkans (5-50 mm) melted last week's snow but further erased the last vestiges of autumn drought. In contrast to the northern cold, temperatures over many of these southern growing areas averaged 1 to 4°C above normal.

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



MIDDLE EAST

Warm weather prevailed over much of the region, with additional rain in the west contrasting with dry conditions in the east. In Turkey, another week of widespread moderate to heavy showers and thunderstorms (10-100 mm) across many of the country's primary growing areas further boosted prospects for winter wheat and barley establishment. Similarly, light to moderate showers (5-25 mm) were noted along the eastern Mediterranean Coast, keeping soils favorably moist for winter grain germination. Conversely, mostly dry weather returned to Iraq and western Iran, although a small pocket of moderate to heavy showers (10-30 mm) was noted in croplands north of the Persian Gulf. Below-normal rainfall continued in northeastern Iran's Khorasan Province despite a few isolated showers (5-10 mm) which moistened soils locally. Abnormal warmth prevailed over central and northern Turkey (2-4°C above normal) and much of Iran (4-7°C above normal). However, near-normal temperatures lingered from southeastern Turkey into Iraq.

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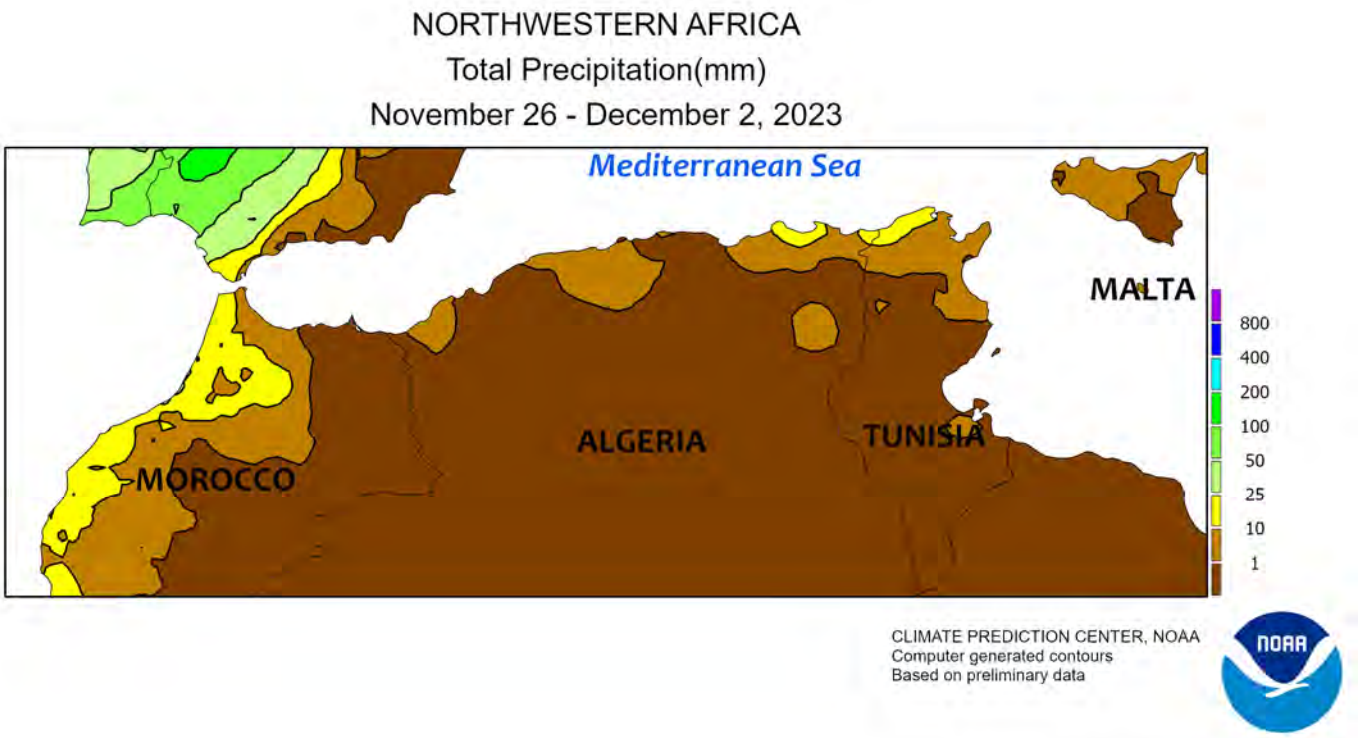

NORTHWESTERN AFRICA

Despite some sorely needed showers, overall dry conditions exacerbated drought in many of the region's primary growing areas. In Morocco, light to moderate showers (1-15 mm) moistened soils locally for winter grains, though season-to-date rainfall (since September 1) remained mired near 50 percent of normal. The preceding four winter crop growing campaigns (September-June) have gotten off to similarly dry starts in Morocco, with all concluding with less than 60 percent-of-normal rainfall except for the 2020-21 Water Year (82 percent). Farther east, moderate to heavy showers (10-40 mm) along the coast of northeastern Algeria and northwestern Tunisia further moistened soils after last week's heavy rain. However, a tight north-to-south gradient meant most inland crop areas reported little — if any — rain during the week in Tunisia and northeastern Algeria. The rest of central and western Algeria was likewise dry. Temperatures averaged near normal in Morocco but as much as 4°C above normal in Algeria and Tunisia. While it remained early in the winter grain growing campaign, the latest satellite-derived Vegetation Health Index continued to depict poor to abysmal crop conditions (and likely some barren fields) over most of the region.

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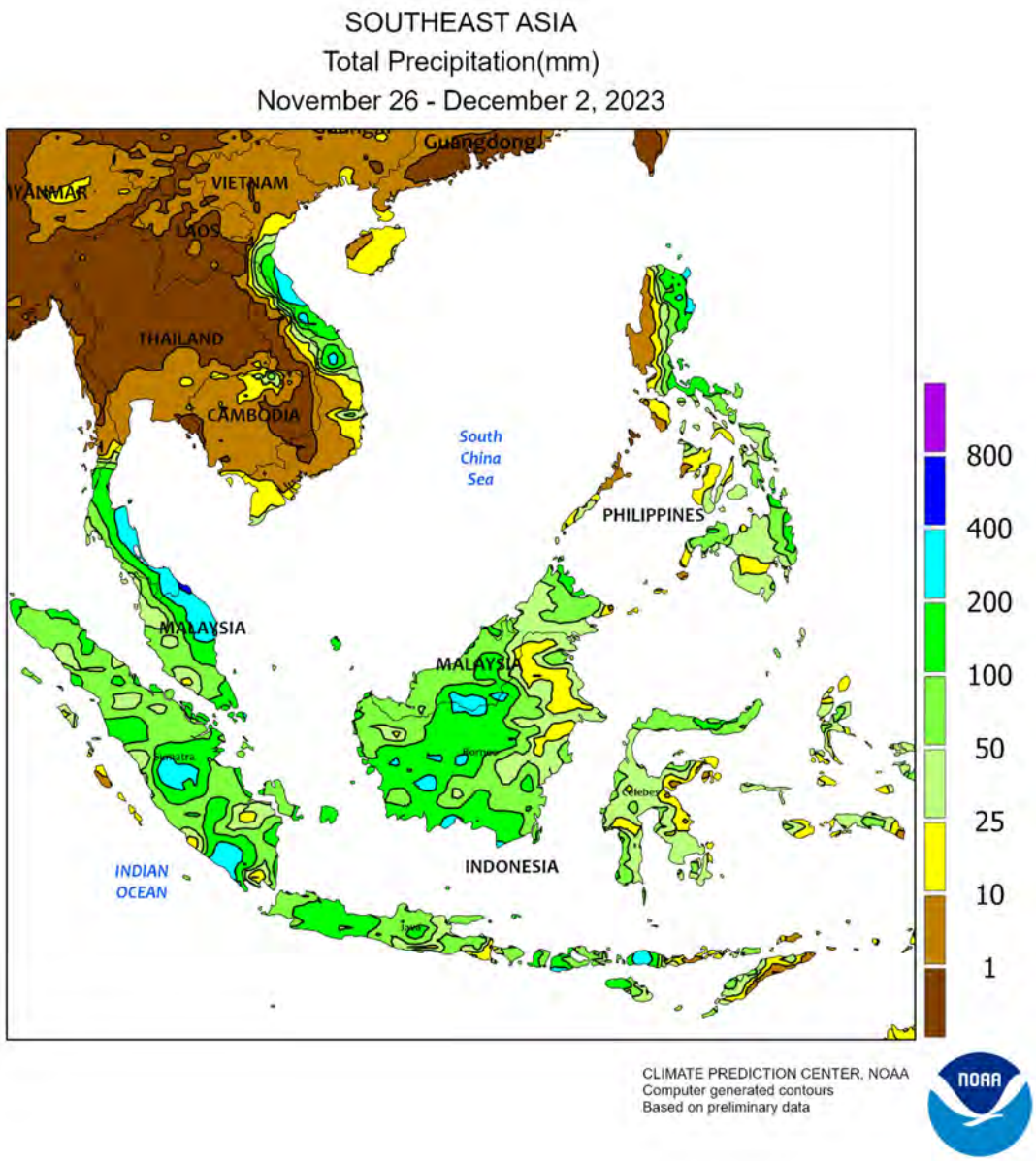

SOUTHEAST ASIA

After a nearly month-long delay, seasonal rainfall became established across western and central Java, Indonesia, averaging about 100 mm for the week. Although, some rice growers opted to switch to other crops due to the delayed establishment of rain, the improved moisture benefited rice that was able to be sown. Even so, showers remained limited in eastern growing areas but not nearly as delayed. Meanwhile, downpours (topping 500 mm locally) continued in eastern locales of the Malaysian peninsula, maintaining localized flooding generally outside major oil palm areas. The remainder of Malaysia and neighboring Indonesia recorded more favorable amounts of precipitation for oil palm (25-100 mm or more). Elsewhere, increased rainfall (upwards of 200 mm) in the northeastern Philippines boosted moisture supplies for second-season rice harvested in the spring.

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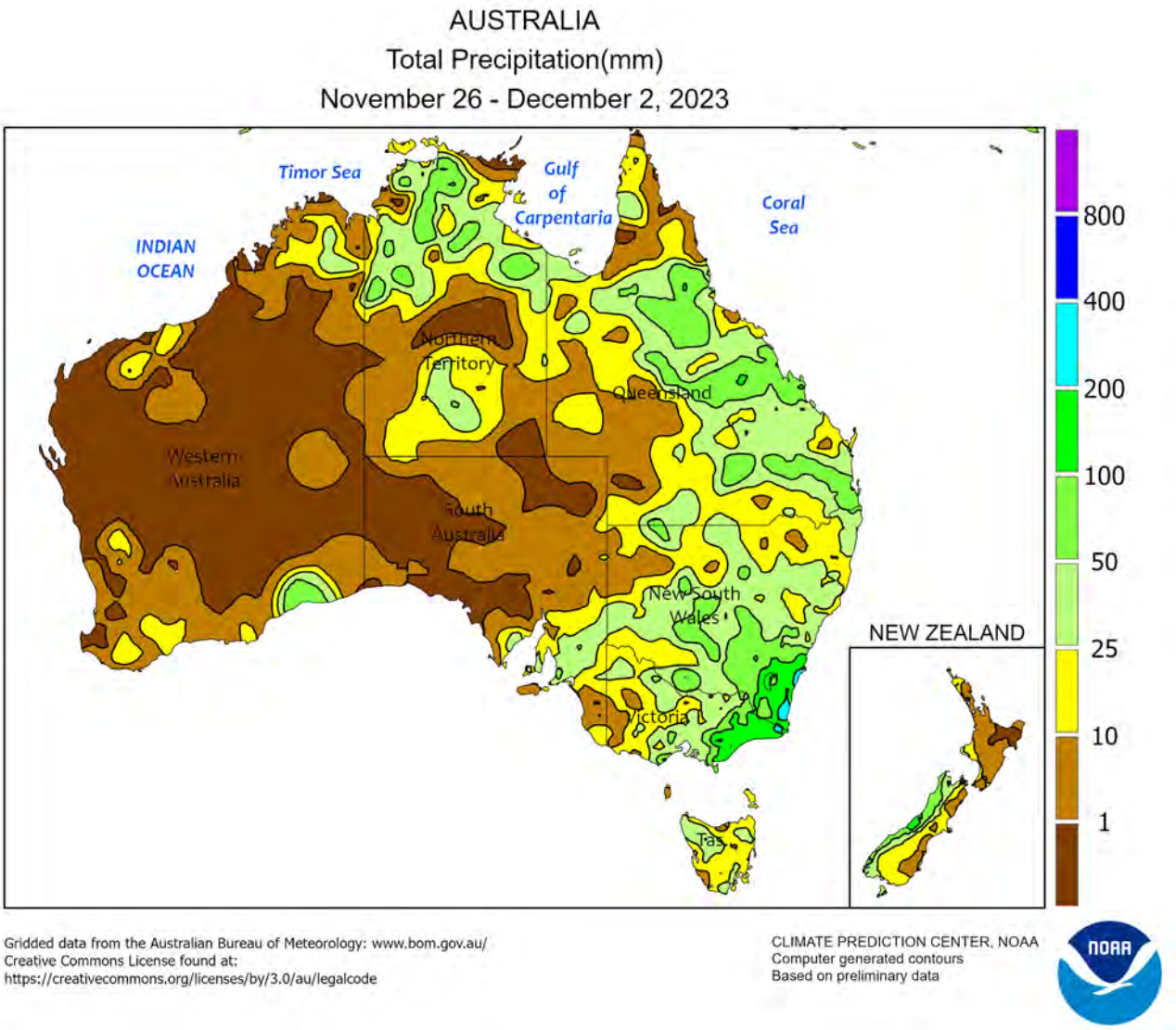

AUSTRALIA

For the second consecutive week, widespread showers (10-50 mm, locally near 75 mm) covered eastern Australia, further increasing moisture supplies for recently sown summer crops and aiding early crop development. Although the primary planting period for cotton has passed, the sorghum sowing window will remain open into early next calendar year. As a result, the recent rain was very timely for sorghum and reportedly triggered additional planting in its wake. Although the rain benefited summer crops, the wet weather was unfavorable for some winter grains and oilseeds. Winter crop harvesting is well advanced in northern portions of eastern Australia, but the rain likely disrupted harvesting in the south and may have reduced crop quality in some areas. Elsewhere in the wheat belt, isolated showers in Western Australia may have interrupted local winter crop harvesting. Any delays were likely brief, however, as dry weather during most of the week allowed fieldwork to progress. Temperatures averaged 1 to 2°C below normal in much of southern and eastern Australia, with maximum temperatures generally in the upper 20s and lower 30s (degrees C). Hotter weather was observed across Western Australia, where temperatures averaged 1 to 2°C above normal and maximum temperatures climbed into the middle 30s.

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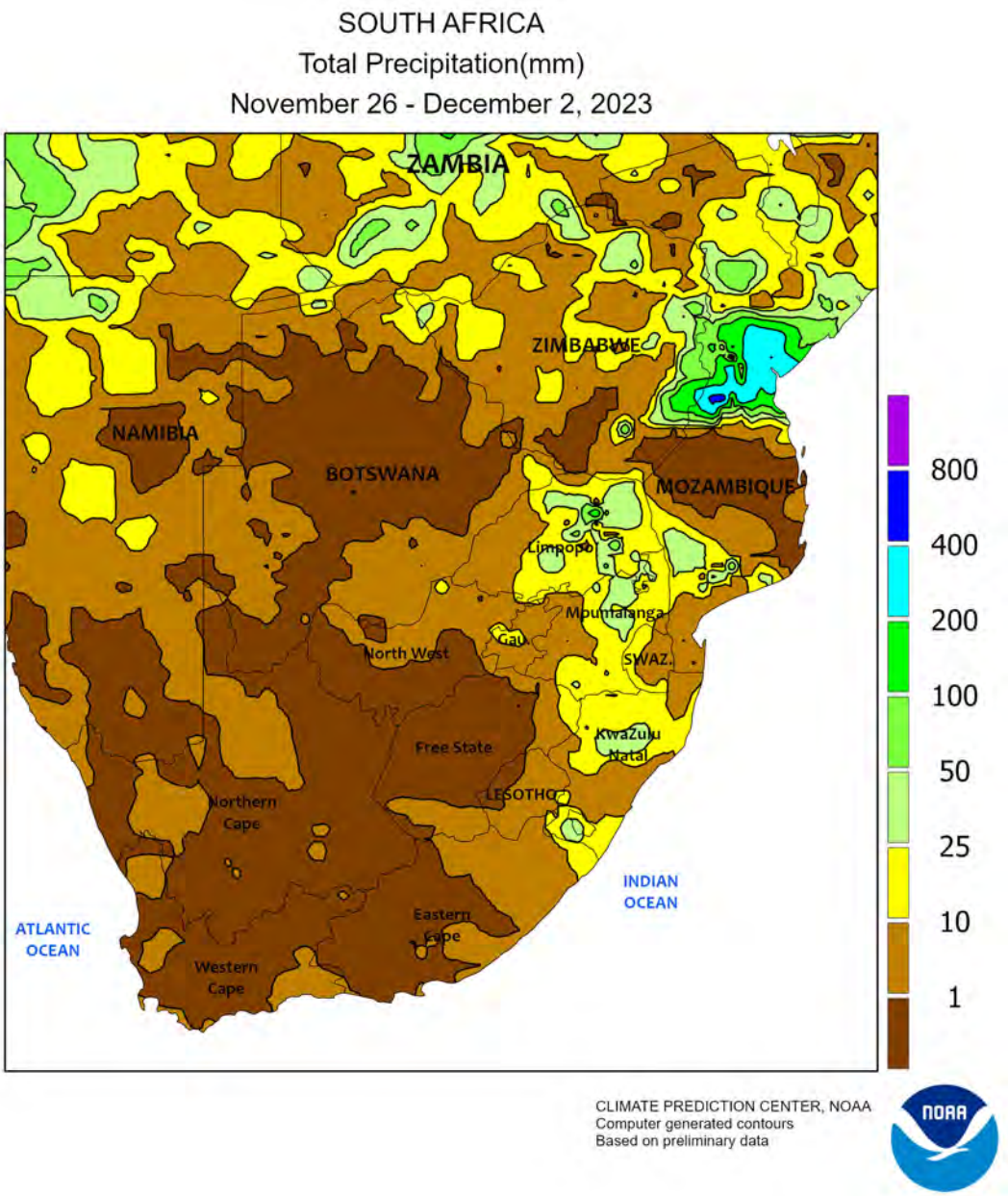

SOUTH AFRICA

Unseasonably warm conditions dominated large sections of southern Africa, reducing moisture available for early growth of corn and other summer crops. Weekly temperatures averaged up to 4°C above normal in western sections of the South African corn belt, with highest daytime temperatures reaching 40°C from western Free State northward through Limpopo. Dry weather accompanied the heat, although showers (5 to locally more than 25 mm) and less intense warmth (highs reaching the lower and middle 30s degrees C) were observed in corn and sugarcane areas in and around Mpumalanga and KwaZulu-Natal. While summer crop prospects are still overall favorable in eastern farming areas enjoying adequate moisture, rain is desperately needed farther west, as a lack of soil moisture is threatening to delay planting. Elsewhere, hot, sunny weather (highs reaching the lower 40s degrees) promoted development of irrigated tree and vine crops in Western Cape.

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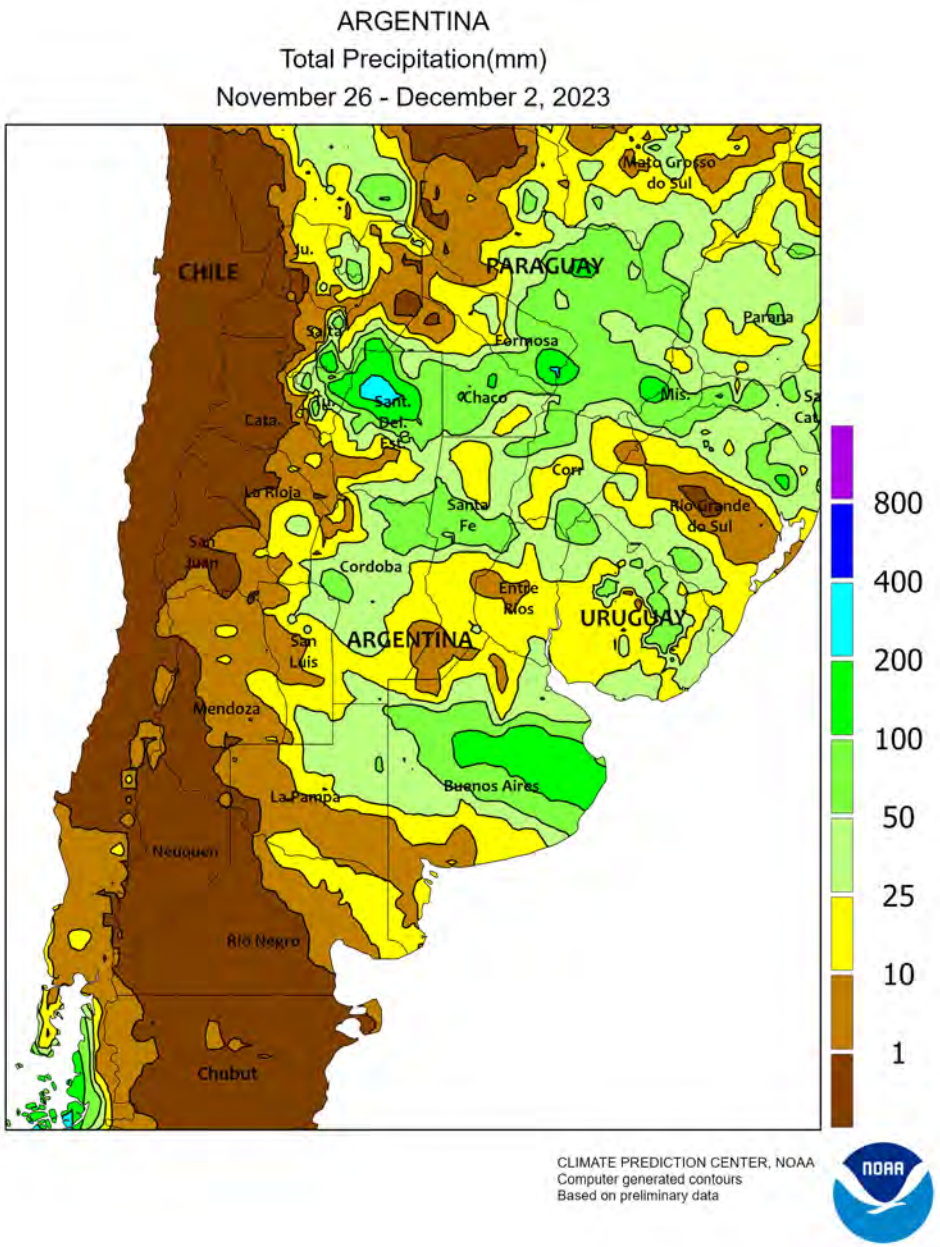

ARGENTINA

Widespread, locally heavy showers brought much-needed relief from a brief outbreak of stressful heat. As the week began, hot, dry weather dominated the region, with temperatures reaching 40°C as far south as La Pampa. However, a wetter pattern followed, with rainfall totaling 25 to well over 100 mm over nearly all major farming areas. The heaviest rainfall (greater than 100 mm) was concentrated over previously dry locations in Buenos Aires, favoring emerging summer grains and oilseeds and likely benefiting late-developing winter grains. Pockets of dryness (rainfall totaling below 25 mm) lingered, however, in the vicinity of southern Santa Fe. According to the government of Argentina, sunflowers and corn were 95 and 46 percent planted, respectively, as of November 30, with soybean planting reaching 46 percent completed; cotton was 31 percent planted, compared with 33 percent last year, while wheat was 37 percent harvested, on par with last year's pace (38 percent).

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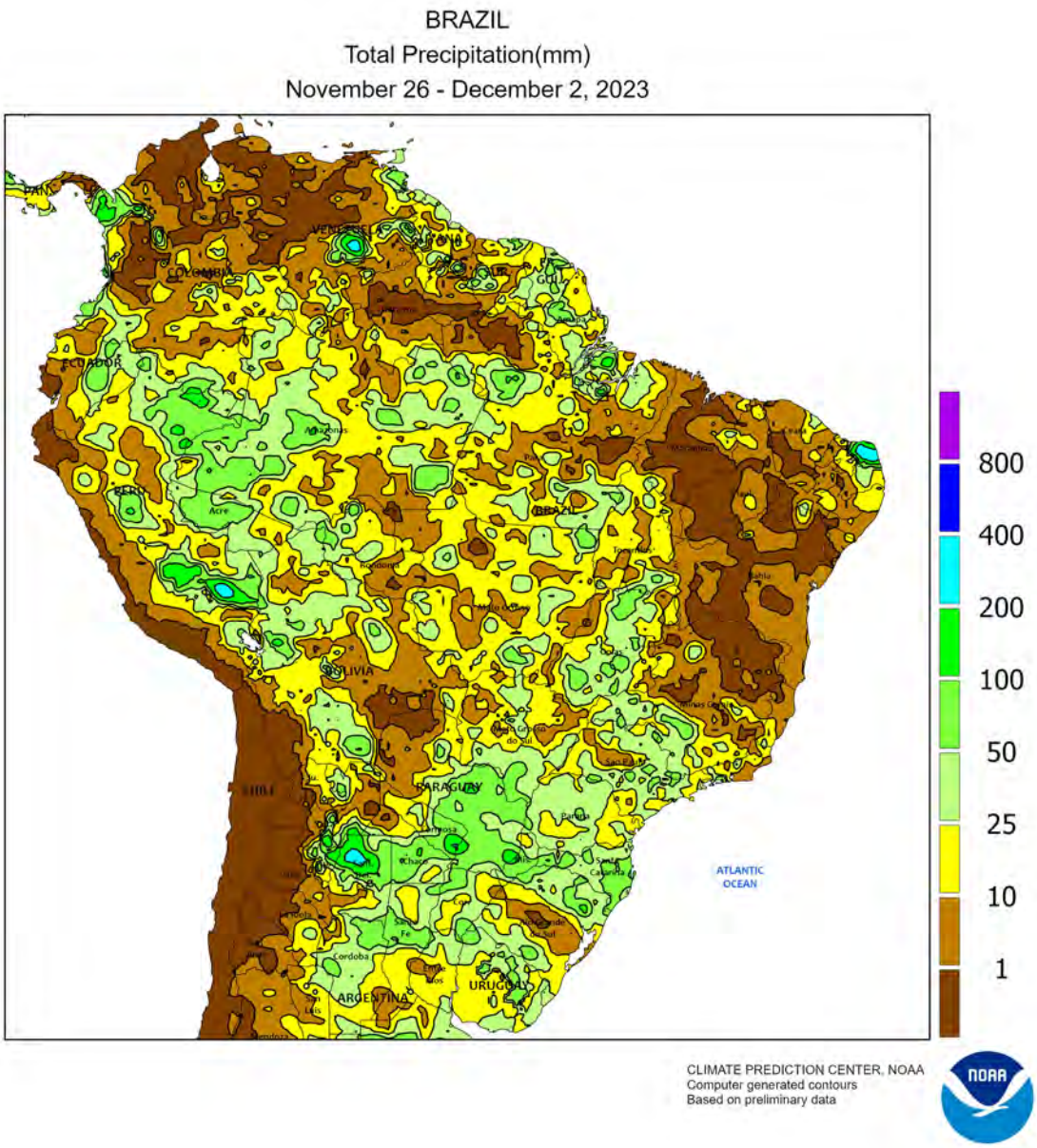

BRAZIL

Warm, showery weather benefited summer crops throughout the region, although some locations needed moisture due to the combination of dryness and heat. Rainfall was highly variable, with many locations recording below 25 mm. In northern production areas (Mato Grosso and Mato Grosso do Sul eastward), seasonal rainfall continued to trend below normal, limiting moisture for development of soybeans and other summer crops. Daytime highs reaching the middle and upper 30s (degrees C) exacerbated the impact of the dryness in areas in most need of moisture. According to the government of Mato Grosso, soybeans were nearly 100 percent planted as of December 1, and early-planted crops were likely advancing through reproductive stages of development. Similar conditions prevailed farther south, with variable rainfall (10 to locally more than 50 mm) and warmth (highest daytime temperatures ranging from the lower to upper 30s). For some locations, the respite from the recent excessive rainfall was welcomed for corn and soybeans in various stages of development. According to the government of Rio Grande do Sul, corn was 85 percent planted as of November 30, while 50 percent of soybeans were planted; wheat harvesting was nearing completion at 98 percent. In Paraná, first-crop corn and soybeans were 99 and 96 percent planted, respectively, as of November 27, with at least 30 percent of both crops having entered reproduction.

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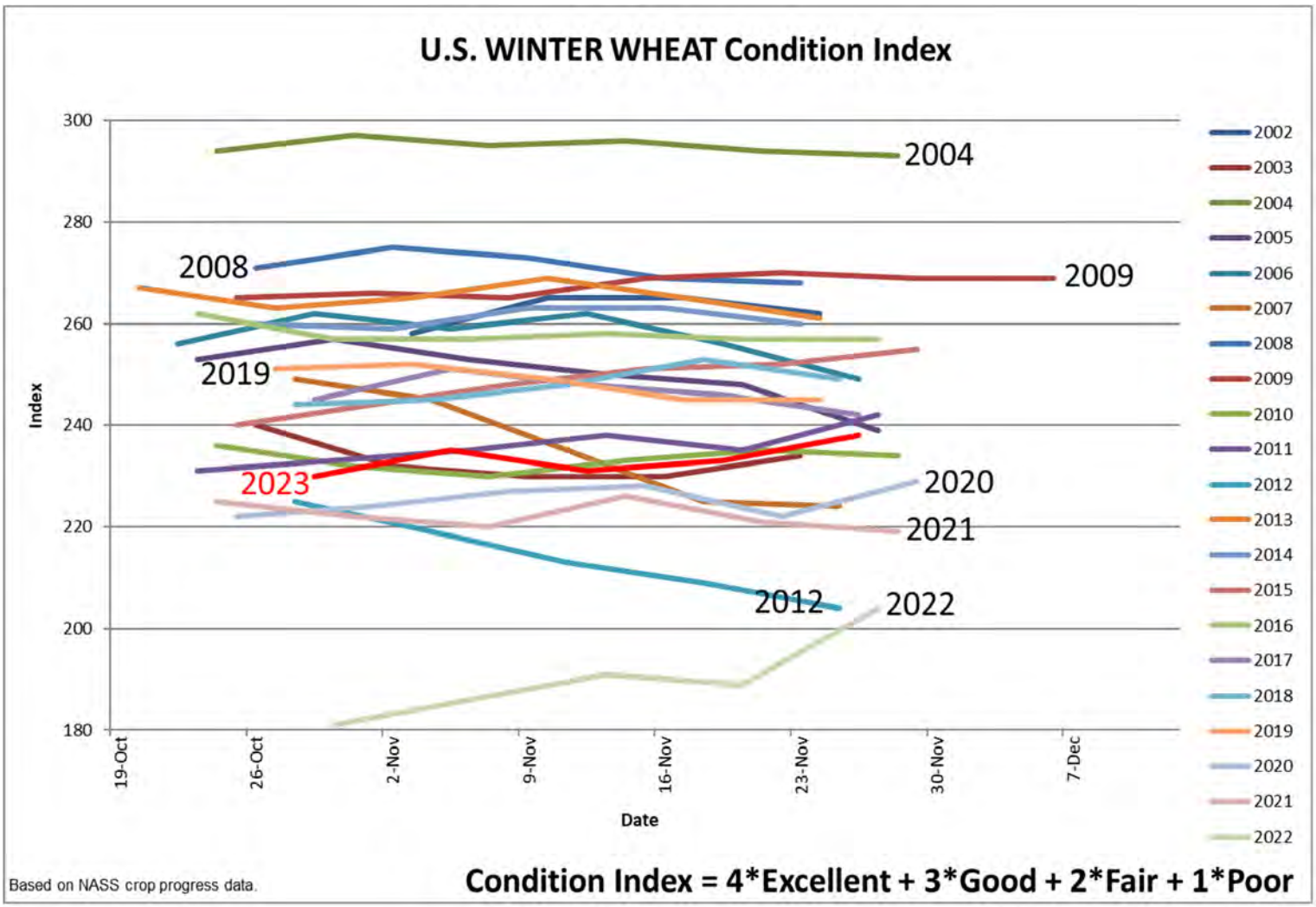

As the USDA/NASS crop reporting season ended in late November, the wheat condition index was exhibiting a slow rise but remained in the lower half of the 2002-2023 distribution (see red line, above, for 2023). Still, it was the best start to the winter wheat growing season, based on perceived condition, since 2019, with one-half of the crop rated in good to excellent condition on November 26.

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