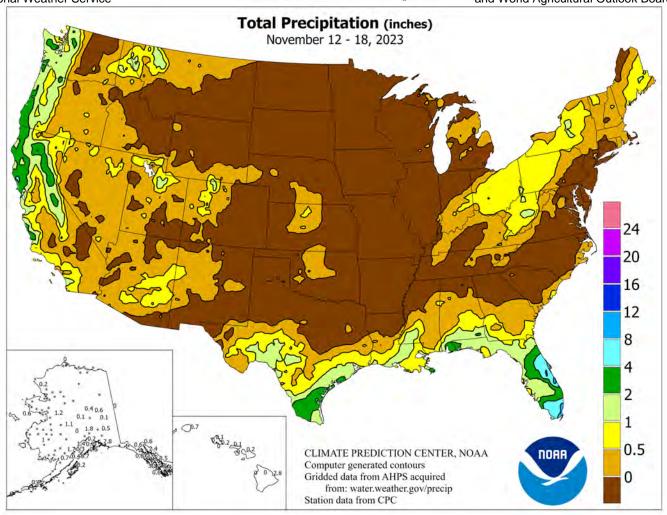
WEEKEWATHER AND CROPEBULLETIN

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 12 – 18, 2023

Highlights provided by USDA/WAOB

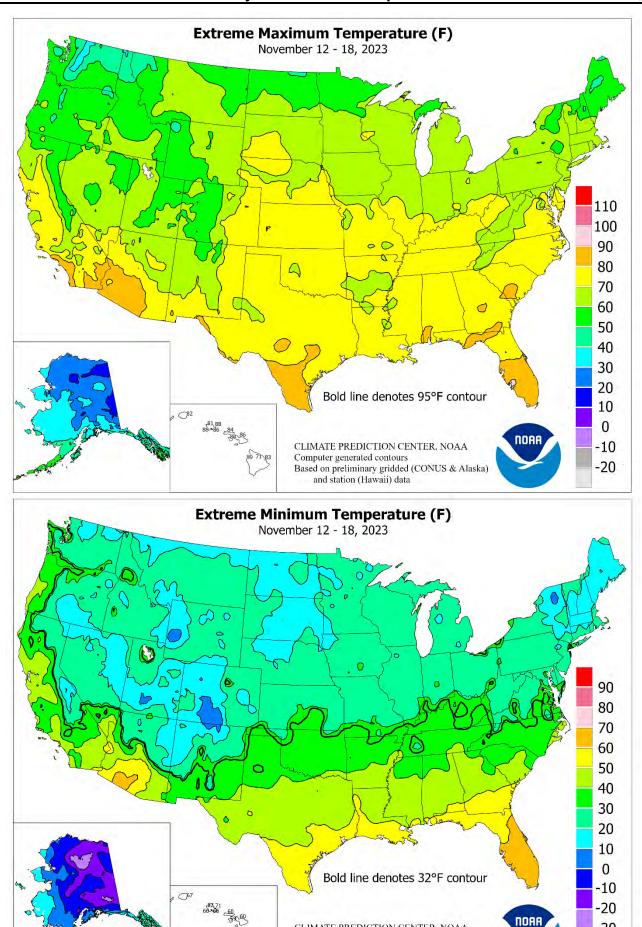
pry weather dominated much of the country, allowing most fieldwork—including summer crop harvesting and winter wheat planting—to near completion. By November 19 the U.S. corn harvest was 93 percent complete, ahead of the 5-year average of 91 percent. On the same date, harvest progress numbers for sorghum (96 percent complete), peanuts (92 percent), and cotton (77 percent) were also ahead of average. Precipitation was mostly confined to the fringes of the country—across the **Deep South** and from the **Ohio Valley into the Northeast**.

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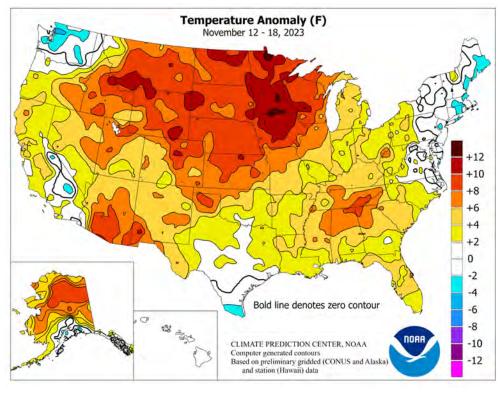


CLIMATE PREDICTION CENTER, NOAA

Computer generated contours Based on preliminary gridded (CONUS and Alaska) and station (Hawaii) data

(Continued from front cover)

However, parts of Florida's peninsula received excessive rainfall (4 to 10 inches or more), as a non-tropical storm system grazed the region. During the mid- to lateweek period, precipitation gradually increased across the West, with the highest totals in portions of the Pacific Coast States. However, Western showers were scattered and generally caused only minor fieldwork delays. For the second week in a row, near- or abovenormal temperatures prevailed nearly Temperatures broadly nationwide. averaged at least 10°F above normal across the northern half of the Plains and the upper Midwest. Readings averaged more than 5°F in a much larger area stretching from the Great Basin and Intermountain West to the northern and central Plains and the Midwest, as well as portions of the Southeast. Elsewhere, near- or slightly below-normal temperatures were limited to a few areas, including parts of southern California, southern Texas, the Northeast, and the Pacific Northwest.



Early-week warmth was focused across **southern Florida**, where daily-record highs on November 12 included 92°F in **Punta Gorda** and 89°F in **Naples**. A few days later, a late-season warm spell developed across the **nation's mid-section**. By November 14, **International Falls, MN**, posted a daily-record high of 58°F. **Midwestern** warmth generally peaked on November 16, when daily-record highs surged to 70°F in **Eau Claire, WI**; 69°F in **Minneapolis-St. Paul, MN**; and 65°F in **Pellston, MI**. Warm weather extended to other regions, with daily records for the 16th reaching 78°F in **Huntsville, AL**, and 63°F in **Ontario, OR**. Late in the week, lingering warmth across the **Deep South** led to a daily-record high of 83°F (on November 18) in **El Paso, TX**.

Florida's heavy rain highlighted an otherwise quiet week. November 13-16 totals in southern Florida reached 12.47 inches in North Fort Lauderdale; 10.76 inches in Fort Lauderdale; 10.26 inches in Pembroke Pines; 9.89 inches in Opa Locka; and 8.84 inches in **Miami**. For all those locations, the heaviest rain fell on November 15, with Miami reporting 7.53 inches. represented the wettest November day in Miami since November 18, 1992, when 7.56 inches fell. It was also Miami's wettest day during any time of year since May 22, 2012, when rainfall totaled 9.70 inches. Meanwhile, Marathon, FL—with 6.68 inches on the 15th—experienced its wettest November day on record (previously, 4.58 inches on November 14, 1954). Significant winds accompanied Florida's rain, with gusts on November 16 clocked to 57 mph in West Palm Beach; 51 mph in Fort Lauderdale; and 48 mph in Miami. Early on the 16th, an unofficial gust to 86 mph was recorded at Carysfort Reef Light, about 8 miles east-southeast of North Key Largo, FL. Florida's rain eventually shifted northward, with Fort Pierce noting a daily-record sum (4.33 inches) for November 16. Fort Pierce collected another recordsetting total, 2.37 inches, on November 17. Farther west, heavy rain lingered early in the week across southern Texas, where recordsetting totals for November 12 included 1.70 inches in Corpus Christi and 1.32 inches in McAllen. November 9-13 rainfall

topped 4 inches in **southern Texas** locations such as **Port Isabel** (4.35 inches) and **Brownsville** (4.31 inches). By mid-week, precipitation arrived in parts of the **West**. In **Montana**, **Chinook** reported precipitation totaling 0.40 inch, including 2.0 inches of snow, in a 24-hour period on November 15-16. Meanwhile in **Utah**, 24-hour precipitation totals on November 15-16 topped an inch in locations such as **Deer Creek Dam** (1.39 inches) and **Mountain Dell Dam** (1.12 inches). At week's end, additional **Western** precipitation led to daily-record totals for November 18 in **Paso Robles**, **CA** (1.74 inches), and **Yuma**, **AZ** (0.25 inch).

Warmer-than-normal weather dominated Alaska, although nearnormal temperatures covered much of the state's southern tier. Readings averaged at least 10°F above normal in a few areas, including much of east-central Alaska. However, periods of stormy weather accompanied Alaska's mild conditions. southeastern Alaska, Ketchikan collected 8.33 inches of rain from November 16-18. In south-central Alaska, Anchorage achieved its snowiest November on record, with 39.1 inches falling by the 18th. The previous November record in Anchorage, set in 1994, had been 38.8 inches. This month's snow in southern Alaska has been wet, with a liquid equivalency of 3.02 inches in Anchorage. Finally, Anchorage netted a daily-record snowfall of 8.7 inches on November 13, the fourth time this month—along with November 5, 8, and 9—that at least 6 inches has fallen on a calendar day. Late in the week, the arrival of colder air resulted in the first sub-zero reading of the season on November 17 in locations such as Fairbanks (-8°F) and Kotzebue (-1°F). In western Alaska, a mid-month highlight (on the 15th) was peak wind gusts to 70 mph in Cold Bay and 63 mph on St. Paul Island. Farther south, a weakening cold front delivered beneficial showers across Hawaii's western islands, including Kauai. Mostly dry weather persisted farther east. Through November 18, month-to-date rainfall at the state's major airport observation sites ranged from 0.02 inch (1 percent of normal) in **Honolulu**, **Oahu**, to 3.13 inches (37 percent) in Hilo, on the Big Island. Lihue, Kauai, received measurable rain each day during the week, totaling 0.72 inch.

National Weather Data for Selected Cities

Weather Data for the Week Ending November 18, 2023

Data Provided by Climate Prediction Center

1		Data Provided by Climate Prediction Center RELATIVE TEMPERATURE °F PRECIPITATION HUMIDITY									NUN	/IBER	OF D	AYS						
1		1	TEMP	PERA	TUR	E °	F			PREC	CIPITA	NOITA	ı		HUM	IIDITY		IP. °F		ECIP
	STATES										I				PER	CENT				\blacksquare
	AND	3E M	»E	ΨE	ΨE	3E	JRE RMAL	> ≧	JRE RMAL	N N	7. Y.	MAL EP 1	. × ≥ . ×	MAL W 1	N N	3E M	SOVE	мот.	표분	표
S	STATIONS	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	ARTU A NOF	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMAL	GREATEST I 24-HOUR, IN	TOTAL, IN., SINCE SEP	PCT. NORMAL SINCE SEP 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
		A W	₹ A	Ã	Ã	ΑV	DEPARTURE FROM NORMAL	₹ C	DEF	GRE 24-F	2 SIN	PCT. SIN	70 SIN	PCT. SIN	A W	ΑÑ	90 AI	32 AN	0.0	3.
AK	ANCHORAGE	29	18	39	4	23	0	0.65	0.38	0.55	9.22	162	23.43	158	92	68	0	7	4	1
	BARROW FAIRBANKS	19 24	7 5	27 30	-6 -10	13 15	0 11	0.00 0.36	-0.08 0.18	0.00 0.27	0.00 2.52	0 97	4.59 9.42	93 87	89 85	67 73	0	7 7	0	0
	JUNEAU	39	30	42	25	35	1	2.36	0.89	0.70	27.93	130	62.04	107	96	82	0	5	6	2
	KODIAK	40	29	48	23	35	-1	0.21	-1.37	0.16	11.20	54	53.96	80	79	42	0	6	3	0
AL	NOME BIRMINGHAM	30 70	20 51	36 77	12 44	25 60	7 6	0.57 0.08	0.28 -0.91	0.24 0.08	6.72 2.56	138 26	21.11 42.93	134 85	90 82	69 45	0	7	6 1	0
	HUNTSVILLE	70	49	78	40	60	7	0.06	-0.87	0.06	1.78	19	36.78	79	81	42	0	0	1	0
	MOBILE	70	57	80	52	64	5	1.69	0.61	0.92	6.33	52	47.15	78	92	68	0	0	4	2
AR	MONTGOMERY FORT SMITH	69 67	53 48	77 70	47 40	61 57	5 6	0.34 0.00	-0.59 -0.90	0.20	6.92 8.72	79 79	42.52 38.41	95 90	92 100	58 53	0	0	2	0
/	LITTLE ROCK	67	49	70	43	58	7	0.00	-1.08	0.00	6.16	60	49.17	113	82	47	0	0	0	0
AZ	FLAGSTAFF	58	28	62	21	43	6	0.16	-0.18	0.16	1.48	34	23.21	129	84	36	0	5	1	0
	PHOENIX PRESCOTT	84 67	64 39	89 71	60 30	74 53	8 6	0.23 0.25	0.11 0.10	0.14 0.25	0.32 0.89	22 35	3.20 9.30	51 80	60 77	28 31	0	0	2	0
l	TUCSON	82	60	86	57	71	9	0.13	0.02	0.09	0.66	30	8.50	91	67	30	0	0	2	0
CA	BAKERSFIELD	78	52	81	45	65	9	0.01	-0.10	0.01	0.33	54	8.59	171	67	21	0	0	1	0
1	EUREKA FRESNO	62 73	48 51	69 77	43 45	55 62	5 7	0.93 0.10	-0.17 -0.09	0.28 0.08	6.90 0.19	125 17	27.81 12.81	93 145	96 77	69 30	0	0	4 2	0
1	LOS ANGELES	73	56	83	53	65	2	0.10	-0.06	0.12	0.17	17	21.80	227	87	39	0	0	1	0
	REDDING	67	46	72	41	56	3	1.85	1.09	1.64	3.83	92	32.34	127	90	48	0	0	4	1
	SACRAMENTO SAN DIEGO	68 73	49 54	73 80	43 48	58 64	5 1	0.25 0.15	-0.09 -0.01	0.21 0.12	1.06 0.21	60 21	14.34 13.10	103 170	93 86	47 43	0	0	4 2	0
	SAN FRANCISCO	68	56	73	51	62	5	1.09	0.65	0.48	1.17	63	21.10	146	86	56	0	0	5	0
	STOCKTON	69	46	74	41	58	3	0.39	0.08	0.31	0.67	44	13.94	134	94	48	0	0	2	0
СО	ALAMOSA CO SPRINGS	58 65	10 32	64 72	4 27	34 48	3 9	0.00	-0.08 -0.08	0.00	1.31 2.43	70 102	3.84 24.85	55 159	77 62	20 16	0	7 4	0	0
	DENVER INTL	66	34	70	31	50	10	0.00	-0.15	0.00	1.10	39	18.18	130	60	18	0	3	0	0
	GRAND JUNCTION	61	32	64	22	47	7	0.17	0.04	0.17	0.79	30	6.34	76	70	29	0	3	1	0
СТ	PUEBLO BRIDGEPORT	69 54	26 34	77 63	20 30	47 44	7 -2	0.00	-0.11 -0.65	0.00	1.68 11.26	97 117	11.39 40.78	98 105	65 90	14 49	0	6	0	0
O1	HARTFORD	53	28	66	21	40	-2	0.04	-0.73	0.03	15.38	141	55.00	132	93	47	0	6	1	0
DC	WASHINGTON	62	41	71	35	51	1	0.02	-0.61	0.01	4.54	48	26.83	72	85	40	0	0	2	0
DE FL	WILMINGTON DAYTONA BEACH	55 75	32 67	68 78	26 63	43 71	-3 4	0.01 9.00	-0.65 8.34	0.01 6.95	6.15 21.40	62 155	40.47 55.46	100 115	92 99	53 75	0	3	1 5	0 2
' -	JACKSONVILLE	70	60	80	56	65	3	1.22	0.76	0.93	12.68	99	42.95	86	95	73	0	0	3	1
	KEY WEST	83	75	85	72	79	2	1.15	0.72	1.07	14.46	101	28.73	76	94	72	0	0	2	1
	MIAMI ORLANDO	83 78	73 68	88 81	69 64	78 73	3 5	8.83 4.90	8.01 4.52	7.78 3.99	27.35 14.35	135 131	73.56 44.71	115 92	90 97	64 72	0	0	4	2 2
	PENSACOLA	71	58	80	56	65	3	2.04	1.02	1.59	7.47	53	51.49	84	89	62	0	0	3	1
	TALLAHASSEE	73	59	81	53	66	6	0.69	-0.03	0.56	8.81	89	46.10	86	96	65	0	0	3	1
	TAMPA WEST PALM BEACH	79 81	68 70	88 87	65 67	74 76	4 3	0.72 2.20	0.41 1.35	0.37 1.55	7.07 19.81	76 122	30.87 66.18	66 116	94 95	72 60	0	0	4 5	0
GA	ATHENS	67	49	77	40	58	5	0.00	-0.91	0.00	2.00	21	43.92	102	87	41	0	0	0	0
	ATLANTA	68	53	74	50	60	6	0.00	-0.96	0.00	3.75	39	35.74	80	80	45	0	0	0	0
	AUGUSTA COLUMBUS	70 67	48 53	79 75	40 50	59 60	3	0.02 0.38	-0.59 -0.57	0.01 0.33	10.40 5.58	134 66	56.42 43.09	144 101	95 90	45 55	0	0	2	0
	MACON	69	51	80	48	60	4	0.17	-0.63	0.17	4.56	55	40.82	99	97	53	0	0	1	0
	SAVANNAH	70	56	79	51	63	4	0.15	-0.39	0.07	3.04	32	36.00	82	91	57	0	0	4	0
HI	HILO HONOLULU	81 83	67 73	83 86	65 66	74 78	0	2.80 0.01	-0.65 -0.55	0.92 0.01	10.66 0.70	38 18	85.35 10.48	83 78	97 81	61 54	0	0	6 1	3
l	KAHULUI	83	69	86	60	76	-1	0.16	-0.26	0.10	0.36	16	9.82	78	84	52	0	0	4	0
IA	LIHUE BURLINGTON	81 62	72 33	82 65	67 25	76 47	0 6	0.70 0.00	-0.26 -0.54	0.35 0.00	3.62 3.26	46 40	35.18 24.72	117 70	84 78	59 34	0	0	6 0	0
IA	CEDAR RAPIDS	62	33	66	25 22	47	10	0.00	-0.54	0.00	4.05	53	17.04	70 50	76 76	31	0	4	0	0
	DES MOINES	64	38	69	31	51	12	0.00	-0.45	0.00	4.32	60	23.00	67	70	31	0	2	0	0
	DUBUQUE SIOUX CITY	59 64	32 29	63 70	23 21	46 46	9 10	0.00 0.02	-0.52 -0.28	0.00	7.91 6.37	97 110	28.99 22.98	81 82	75 93	35 32	0	4	0 1	0
	WATERLOO	62	31	67	24	47	9	0.02	-0.26	0.02	5.22	73	21.16	62	76	33	0	4	0	0
ID	BOISE	62	39	67	36	51	10	0.00	-0.28	0.00	2.05	107	9.12	96	74	31	0	0	0	0
1	LEWISTON POCATELLO	49 59	38 26	56 63	30 22	43 42	1 7	0.22 0.01	-0.07 -0.20	0.22 0.01	4.06 4.02	166 166	9.37 11.61	83 113	90 87	67 33	0	1 6	1 1	0
IL	CHICAGO/O_HARE	61	37	66	31	49	8	0.01	-0.20	0.01	5.69	70	29.58	84	73	35	0	3	1	0
l	MOLINE	63	33	67	23	48	8	0.00	-0.54	0.00	7.91	104	25.40	71	76	31	0	4	0	0
l	PEORIA ROCKFORD	63 60	35 28	69 66	27 20	49	7 5	0.02	-0.62 -0.54	0.02 0.00	4.96 6.96	59 91	29.42 28.09	85 81	77 86	29 32	0	3	1	0
l	SPRINGFIELD	60	32	66 71	20	44 48	5 4	0.00	-0.54 -0.63	0.00	6.96 5.79	91 73	28.09	81 85	76	24	0	4	1	0
IN	EVANSVILLE	66	37	72	33	51	5	0.12	-0.83	0.12	4.09	45	37.49	88	90	40	0	0	1	0
1	FORT WAYNE	59	29	66 67	22	44	3	0.00	-0.70	0.00	5.00	64	30.78	85	84	41	0	6	0	0
l	INDIANAPOLIS SOUTH BEND	61 61	35 31	67 67	31 25	48 46	4 6	0.31 0.01	-0.52 -0.63	0.31 0.01	4.50 7.77	53 87	32.36 35.85	82 100	78 82	40 37	0	2	1	0
KS	CONCORDIA	68	38	72	30	53	11	0.00	-0.26	0.00	3.96	72	21.13	78	81	31	0	1	0	0
ł	DODGE CITY GOODLAND	69 69	36 27	74 75	28 23	52 48	8 8	0.00	-0.16 -0.11	0.00	2.90 0.37	74 11	20.60 19.47	99 105	90 74	32 18	0	2 7	0	0
l	TOPEKA	69	36	75 74	28	48 53	8	0.00	-0.11	0.00	2.38	31	19.47	105 56	84	33	0	2	0	0

Based on 1991-2020 normals

*** Not Available

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending November 18, 2023

									ne Week Ending November 18, 2023						RELATIVE		NUMBER OF DAYS			
	STATES	7	ГЕМБ	PERA	TUR	E '	F			PREC	CIPITA	ATION	I			IDITY CENT	TEN	IP. °F	PRE	CIP
	AND						7b ≅		76	≥	1	7.1	-	7 1			Ē	MO.		
5	STATIONS	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	DEPARTURE FROM NORMAL	WEEKLY TOTAL, IN.	DEPARTURE FROM NORMA	GREATEST IN 24-HOUR, IN.	TOTAL, IN., SINCE SEP	PCT. NORMAL SINCE SEP 1	TOTAL, IN., SINCE JAN	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELO	.01 INCH OR MORE	.50 INCH OR MORE
KY	WICHITA LEXINGTON	67 64	38 39	71 72	32 32	53 51	6 5	0.00 0.04	-0.29 -0.70	0.00 0.04	7.13 3.33	105 37	24.98 36.81	76 83	87 75	41 35	0	1	0	0
K Y	LOUISVILLE	66	41	73	37	54	5	0.04	-0.70	0.04	3.77	40	35.44	82	75 75	33	0	0	1	0
	PADUCAH	68	37	74	32	53	5	0.06	-0.88	0.06	5.07	51	51.35	115	91	37	0	1	1	0
LA	BATON ROUGE LAKE CHARLES	69 69	58 58	79 77	52 54	64 64	4 2	1.67 0.51	0.81 -0.39	1.38 0.41	6.16 4.46	52 35	40.35 35.00	73 65	96 99	73 72	0	0	3	1 0
	NEW ORLEANS	68	61	75	58	65	2	0.85	-0.39	0.41	6.37	57	28.33	49	99	80	0	0	3	0
	SHREVEPORT	69	55	75	52	62	6	***	***	***	***	***	***	***	86	56	0	0	***	***
MA	BOSTON	53	35	66	28	44	-1	0.10	-0.73	0.10	5.00	51	39.91	105	84	47	0	2	1	0
	WORCESTER	51 62	31 34	62 72	23 29	41 48	0	0.07 0.02	-0.82	0.04	12.41 7.57	108 73	54.46	128	87	48 37	0	5 1	2	0
MD ME	BALTIMORE CARIBOU	41	26	52	29	33	1 0	0.02	-0.66 -0.33	0.02 0.36	7.57 8.91	73 94	32.28 35.11	80 98	88 87	61	0	7	2	0
IVIL	PORTLAND	48	25	58	20	37	-4	0.41	-0.55	0.41	8.24	71	45.87	109	97	59	0	7	1	0
MI	ALPENA	56	29	63	26	42	5	0.29	-0.19	0.28	4.52	63	27.14	100	89	42	0	6	2	0
1	GRAND RAPIDS HOUGHTON LAKE	58 54	30 25	66 62	24 22	44 40	4 4	0.06 0.03	-0.67 -0.48	0.06 0.03	7.43 4.17	78 62	32.48 19.44	90 94	90 93	41 47	0	4 7	1	0
	LANSING	54 58	30	66	24	40	4	0.03	-0.48	0.03	7.60	101	33.03	108	93 86	40	0	5	1	0
	MUSKEGON	58	33	63	27	46	5	0.00	-0.68	0.00	7.38	83	28.12	89	83	44	0	3	0	0
1	TRAVERSE CITY	59	31	69	28	45	6	0.21	-0.30	0.21	6.67	79	22.52	84	87	36	0	4	1	0
MN	DULUTH INT_L FALLS	52 48	30 27	62 58	21 20	41 37	11 11	0.00	-0.46 -0.24	0.00 0.08	12.95 5.61	169 91	31.51 22.44	108 93	80 88	44 49	0	5 6	0 1	0
1	MINNEAPOLIS	59	36	69	28	48	13	0.00	-0.24	0.00	9.94	150	26.85	90	73	33	0	2	0	0
	ROCHESTER	58	33	67	24	46	12	0.00	-0.43	0.00	8.20	114	28.03	85	79	36	0	2	0	0
	ST. CLOUD	58	29	65	23	44	12	0.00	-0.31	0.00	6.49	99	24.24	89	83	36	0	5	0	0
МО	COLUMBIA KANSAS CITY	65 65	37 39	70 70	31 32	51 52	5 8	0.00	-0.65 -0.47	0.00	3.44 4.33	38 50	29.75 30.72	77 83	75 77	32 40	0	1	0	0
	SAINT LOUIS	68	38	75	33	53	6	0.01	-0.83	0.01	4.83	58	28.92	76	71	27	0	0	1	0
	SPRINGFIELD	66	39	71	32	53	6	0.00	-0.85	0.00	8.28	80	40.82	99	81	37	0	1	0	0
MS	JACKSON MERIDIAN	69 68	55 54	75 77	42 42	62 61	6 5	0.67 0.22	-0.35 -0.72	0.48 0.10	2.04 2.53	20 26	35.87 50.06	71 100	93 96	61 62	0	0	2	0
	TUPELO	69	50	77	39	60	7	0.22	-0.72	0.10	1.86	18	42.50	85	86	46	0	0	2	0
MT	BILLINGS	59	33	64	29	46	10	0.00	-0.14	0.00	2.61	83	16.54	122	67	24	0	2	0	0
	BUTTE	52	24	57	15	38	10	0.00	-0.14	0.00	4.08	178	17.28	143	82	30	0	7	0	0
	CUT BANK GLASGOW	50 50	27 28	60 55	21 24	38 39	8 9	0.24 0.03	0.13 -0.09	0.23 0.03	1.52 2.19	78 95	7.80 12.72	75 99	80 83	36 44	0	7 6	2	0
	GREAT FALLS	55	33	63	28	44	10	0.16	-0.01	0.13	4.53	159	17.05	121	72	31	0	4	2	0
	HAVRE	50	27	60	19	38	7	0.39	0.27	0.24	3.15	147	11.10	98	87	44	0	7	2	0
NC	MISSOULA ASHEVILLE	49 64	27 42	56 68	22 34	38 53	5 5	0.13 0.00	-0.15 -0.85	0.12 0.00	3.12 2.46	108 25	12.46 30.89	98 70	90 86	56 38	0	7 0	2	0
INC	CHARLOTTE	68	46	76	38	57	6	0.00	-0.80	0.00	1.77	20	36.44	94	78	36	0	0	0	0
	GREENSBORO	65	40	71	35	52	3	0.01	-0.75	0.01	5.84	60	35.98	91	84	36	0	0	1	0
	HATTERAS RALEIGH	65	51	74	40	58	-1	0.68	-0.43	0.67	8.72	54	38.97	71	99	62	0	0	2	1
	WILMINGTON	68 69	41 49	75 78	33 44	55 59	3 3	0.00 0.90	-0.80 0.06	0.00 0.61	7.65 4.96	72 32	36.08 46.74	87 84	86 89	39 51	0	0	0	0 1
ND	BISMARCK	55	22	63	18	39	9	0.00	-0.15	0.00	4.79	132	19.91	109	89	35	0	7	0	0
	DICKINSON	55	25	64	21	40	10	0.00	-0.11	0.00	3.73	118	14.63	95	81	32	0	7	0	0
	FARGO GRAND FORKS	55 51	26 26	60 58	20 20	40 39	11 12	0.00	-0.22 -0.21	0.00	3.50 4.84	63 100	18.63 13.75	82 66	81 81	42 45	0	6 7	0	0
1	JAMESTOWN	39	37	39	37	38	9	0.00	-0.03	0.00	3.74	93	15.89	82	59	57	0	o	0	0
NE	GRAND ISLAND	67	32	72	25	49	10	0.00	-0.26	0.00	2.34	50	13.52	53	84	27	0	4	0	0
	LINCOLN NORFOLK	68 65	32 29	72 70	25 23	50 47	10 10	0.00 0.01	-0.30 -0.28	0.00 0.01	1.99 8.81	33 167	17.82 24.33	64 95	81 85	29 29	0	4 5	0	0
	NORTH PLATTE	69	23	72	20	46	9	0.00	-0.28	0.00	2.28	63	20.36	99	87	23	0	7	0	0
	OMAHA	65	34	70	27	49	9	0.00	-0.34	0.00	3.17	51	22.67	75	85	32	0	4	0	0
1	SCOTTSBLUFF VALENTINE	66 66	28 23	72 76	24 17	47 45	10 8	0.14 0.00	0.01	0.14 0.00	2.74 7.34	95 209	19.07 30.72	127 151	75 82	24 21	0	5 7	1	0
NH	CONCORD	50	22	76 65	17	36	-3	0.00	-0.13 -0.65	0.00	6.94	68	30.72	151 89	97	48	0	7	1	0
NJ	ATLANTIC_CITY	58	31	68	27	44	-3	0.00	-0.72	0.00	9.00	92	32.01	79	91	44	0	5	0	0
1	NEWARK	59	37	70	32	48	1	0.00	-0.73	0.00	9.83	103	40.67	99	79 70	38	0	1	0	0
NM NV	ALBUQUERQUE ELY	62 56	40 28	68 63	35 16	51 42	5 7	0.19 0.12	0.06 -0.02	0.19 0.11	1.68 1.30	71 70	3.78 10.78	46 126	78 75	34 29	0	0 4	1 2	0
INV	LAS VEGAS	70	51	74	46	61	3	0.12	0.02	0.11	1.36	171	4.15	116	60	29	0	0	2	0
	RENO	61	35	68	31	48	4	0.13	-0.01	0.12	0.83	80	9.98	167	76	29	0	3	2	0
NIX.	WINNEMUCCA	63 53	22 28	65 65	20	42	3	0.00	-0.07	0.00	2.44	172 70	7.93	128	64	15 47	0	2	0	0
NY	ALBANY BINGHAMTON	53 49	31	65 61	21 24	40 40	0 2	0.19 0.48	-0.46 -0.21	0.15 0.44	6.54 7.57	70 78	39.56 38.51	109 102	88 84	47 51	0	6 5	2	0
	BUFFALO	53	34	61	31	44	2	0.80	0.00	0.80	7.57	73	34.26	96	83	43	0	2	1	1
	ROCHESTER	54	31	61	26	42	1	0.43	-0.20	0.42	4.24	52	32.21	102	85	44	0	6	2	0
ОН	SYRACUSE AKRON-CANTON	53 55	31 33	65 63	24 28	42 44	1 1	0.89 0.69	0.16 -0.01	0.42 0.69	6.02 3.81	65 43	37.49 33.72	106 90	82 85	44 39	0	4	3 1	0 1
011	CINCINNATI	61	36	68	31	48	4	0.50	-0.22	0.50	5.09	61	36.15	90	87	39	0	1	1	0
1	CLEVELAND	58	35	66	31	47	3	0.69	-0.08	0.69	6.45	67	39.66	108	79	35	0	2	1	1
	COLUMBUS DAYTON	60 60	33 35	68 68	29 30	47 47	3 3	0.68 0.76	0.05 0.06	0.68 0.76	4.63 3.91	60 48	36.76 31.74	98 85	94 76	35 33	0	6 1	1	1
L	MANSFIELD	57	32	65	27	44	3	0.76	0.06	0.78	4.55	54	38.54	100	82	35	0	4	1	1

Based on 1991-2020 normals

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending November 18, 2023

			'	veal	IICI L	Jalo	1 101 1	IIIE VV	CCN E	namy	NOVE	iiinei	18, 20	JZJ	RFI	ATIVE	NUN	/IBFR	OF D	AYS
		7	ГЕМБ	PERA	TUR	E °	F			PREC	CIPITA	ATION	ı		HUM	IDITY		IP. °F		CIP
	STATES			1						1		1		1	PER	CENT				0
\$	AND STATIONS	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 YOUNGSTOWN	60 57	30 30	69 66	26 26	45 44	2	0.12 0.80	-0.50 0.15	0.12 0.80	4.73 5.13	66 57	28.41 32.22	90 87	83 83	36 36	0	6 5	1	0
ОК	OKLAHOMA CITY	68	40	72	36	54	5	0.00	-0.35	0.00	6.33	77	31.73	93	93	42	0	0	0	0
OR	TULSA ASTORIA	69 56	40 40	72 59	37 36	54 48	4 1	0.00 2.50	-0.61 -0.20	0.00 1.34	8.60 13.93	91 88	34.19 44.39	90 80	88 95	40 64	0	0	0	0 2
OIX	BURNS	57	27	62	22	42	7	0.26	0.03	0.26	1.61	94	11.88	141	91	38	0	7	1	0
	EUGENE	57	45	65	43	51	6	0.52	-0.90	0.16	6.84	87	21.37	69	94	67	0	0	5	0
	MEDFORD	56	41	65	35	49	4	0.54	-0.07	0.39	4.88	156	10.57	77	99	66	0	0	3	0
	PENDLETON PORTLAND	47 54	36 42	55 57	33 37	42 48	1 1	0.24 0.46	-0.10 -0.83	0.12 0.31	3.55 8.48	144 105	8.32 26.20	77 91	92 89	70 58	0	0	3	0
	SALEM	54	41	58	36	47	1	0.66	-0.75	0.29	9.72	118	27.78	91	95	70	0	0	4	0
PA	ALLENTOWN	55	26	66	21	41	-3	0.00	-0.70	0.00	5.63	52	34.53	82	90	44	0	7	0	0
	ERIE MIDDLETOWN	55 59	37 32	67 67	33 28	46 46	3 1	0.74 0.02	-0.11 -0.64	0.74 0.02	6.97 6.93	63 66	37.26 29.89	99 75	76 88	42 41	0	0 4	1	1
	PHILADELPHIA	59	37	69	31	48	0	0.00	-0.63	0.00	6.68	70	31.27	80	84	39	0	1	0	0
1	PITTSBURGH	60	33	68	28	46	4	0.68	0.03	0.68	5.06	64	27.26	76	80	34	0	3	1	1
	WILKES-BARRE WILLIAMSPORT	53 54	29 28	65 61	23 25	41 41	-2 -1	0.16 0.20	-0.47 -0.53	0.16 0.17	10.64 5.27	111 51	37.39 34.81	107 89	87 93	46 44	0	6 7	1 2	0
RI	PROVIDENCE	54	29	66	21	41	-3	0.16	-0.80	0.15	9.69	90	47.35	115	99	49	0	5	2	0
SC	CHARLESTON	71	53	79	44	62	4	0.21	-0.41	0.08	10.71	89	45.31	94	91	54	0	0	3	0
	COLUMBIA FLORENCE	70 69	48 49	79 78	38 43	59 59	5 4	0.08 0.28	-0.56 -0.34	0.08 0.28	6.63 4.10	76 43	47.73 36.03	118 88	93 87	43 44	0	0	1	0
	GREENVILLE	67	44	74	36	55	4	0.04	-0.86	0.04	1.73	18	44.72	102	83	33	0	0	1	0
SD	ABERDEEN	60	20	64	15	40	8	0.00	-0.16	0.00	4.67	101	21.68	103	89	34	0	7	0	0
	HURON RAPID CITY	62 63	23 26	66 71	18 21	42 45	9 10	0.00	-0.19 -0.11	0.00	6.06 3.74	123 126	17.25 20.46	77 120	89 78	31 24	0	7 7	0	0
	SIOUX FALLS	64	27	69	20	46	11	0.00	-0.11	0.00	3.74	51	16.80	63	83	32	0	6	0	0
TN	BRISTOL	68	34	74	29	51	4	0.09	-0.61	0.08	2.04	28	34.40	88	92	32	0	4	2	0
	CHATTANOOGA KNOXVILLE	70 70	48	76 76	43	59 57	8 8	0.00 0.01	-1.11 -0.93	0.00	0.48	4 12	37.96	79	83 84	35 29	0	0	0	0
	MEMPHIS	68	45 50	76	38 42	57 59	6	0.01	-0.93	0.01 0.02	1.08 3.76	39	38.57 49.25	85 104	79	43	0	0	1	0
	NASHVILLE	69	45	77	39	57	7	0.04	-0.81	0.04	3.47	37	33.33	75	83	35	0	0	1	0
TX	ABILENE	67	49	73	42	58	2	0.03	-0.28	0.02	5.47	84	21.20	90	93	55	0	0	2	0
	AMARILLO AUSTIN	69 69	40 54	75 81	36 51	55 62	7 1	0.08 0.16	-0.08 -0.52	0.08 0.12	1.09 9.61	27 104	15.40 22.87	82 70	92 97	34 61	0	0	1 2	0
	BEAUMONT	69	57	78	54	63	1	0.57	-0.27	0.43	5.69	39	32.60	58	98	73	0	0	3	0
	BROWNSVILLE	76	59	85	56	67	-3	1.36	0.96	1.26	6.34	58	19.91	79	100	67	0	0	2	1
	CORPUS CHRISTI DEL RIO	73 71	58 57	78 80	53 52	65 64	-1 3	2.24 0.59	1.78 0.39	1.67 0.55	8.33 2.53	84 47	25.64 14.11	88 75	100 89	71 61	0	0	3 2	2
	EL PASO	72	52	83	43	62	8	0.00	-0.09	0.00	1.51	63	3.94	49	75	40	0	0	0	0
	FORT WORTH	67	52	73	50	60	3	0.00	-0.55	0.00	10.58	120	24.46	73	93	53	0	0	0	0
	GALVESTON HOUSTON	68 71	61 57	73 78	60 54	65 64	-1 2	0.90 0.74	-0.01 -0.13	0.80 0.57	5.89 8.49	41 67	21.50 37.63	52 81	94 96	79 67	0	0	2 2	1
	LUBBOCK	65	43	72	36	54	4	0.00	-0.17	0.00	6.86	148	15.85	91	96	54	0	0	0	0
	MIDLAND	61	49	70	49	55	1	0.36	0.20	0.36	5.04	152	6.80	53	99	78	0	0	1	0
	SAN ANGELO SAN ANTONIO	65 69	49 54	73 79	44 49	57 62	1 1	0.56 0.30	0.30 -0.17	0.46 0.30	7.88 4.41	137 49	17.00 18.02	86 60	97 93	70 63	0	0	2	0
1	VICTORIA	71	55	79	51	63	0	1.22	0.54	0.63	10.93	106	28.93	78	96	67	0	0	2	2
	WACO	69	50	75	45	60	3	0.00	-0.62	0.00	9.40	103	25.07	76	96	58	0	0	0	0
UT	WICHITA FALLS SALT LAKE CITY	69 62	43 39	73 68	38 33	56 50	3 8	0.00 0.50	-0.37 0.19	0.00 0.45	5.54 3.29	80 105	20.05 15.65	77 115	93 85	46 37	0	0	0 2	0
VA	LYNCHBURG	64	33	70	29	48	2	0.03	-0.73	0.43	4.46	49	35.74	94	91	35	0	4	1	0
	NORFOLK	64	45	76	39	54	1	0.00	-0.70	0.00	3.76	33	39.70	88	91	46	0	0	0	0
	RICHMOND ROANOKE	65 66	38 38	74 71	34 33	51 52	2 4	0.00	-0.69 -0.65	0.00	6.24 3.44	63 39	31.90 26.61	78 69	89 76	37 28	0	0	0	0
	WASH/DULLES	62	32	73	27	47	1	0.03	-0.62	0.03	7.65	80	26.75	69	91	37	0	5	1	0
VT	BURLINGTON	46	32	62	27	39	-1	0.45	-0.16	0.34	10.13	110	36.67	107	86	52	0	3	3	0
WA	OLYMPIA QUILLAYUTE	53 54	33 35	58 56	29 31	43 44	0	0.79 1.43	-1.23 -2.25	0.50 0.71	11.26 24.66	94 101	29.82 65.40	75 80	93 85	62 65	0	4	3	1 2
	SEATTLE-TACOMA	50	38	52	34	44	-3	0.47	-2.25 -1.09	0.71	11.49	123	25.63	82	96	60	0	0	3	0
	SPOKANE	40	32	48	29	36	0	0.22	-0.27	0.18	2.58	81	10.00	75	96	78	0	4	2	0
WI	YAKIMA EAU CLAIRE	49 58	29 29	56 70	25 24	39 43	1 10	0.07 0.01	-0.12 -0.41	0.04 0.01	1.17 5.91	86 81	5.40 24.65	87 79	89 83	50 34	0	7 6	2	0
VVI	GREEN BAY	58 59	32	66	25	43 45	9	0.01	-0.41 -0.47	0.01	4.10	57	24.65	79 82	78	36	0	4	1 0	0
	LA CROSSE	60	35	68	28	47	9	0.00	-0.43	0.00	5.22	71	22.25	67	77	32	0	3	0	0
	MADISON	59	31	64	24	45	8	0.00	-0.53	0.00	5.99	79	27.15	78	82	35	0	4	0	0
wv	MILWAUKEE BECKLEY	61 60	35 35	67 67	29 28	48 48	8 4	0.00	-0.52 -0.31	0.00 0.27	7.94 7.54	108 100	29.98 36.54	94 93	68 79	31 33	0	3	0 2	0
1	CHARLESTON	65	33	73	29	49	3	0.48	-0.24	0.48	6.26	76	32.20	77	91	29	0	4	1	0
	ELKINS	62	27	71	24	44	2	0.56	-0.06	0.42	6.24	75 45	37.90	89	92	32	0	7	2	0
WY	HUNTINGTON CASPER	65 58	36 27	73 62	31 20	51 43	4 8	0.23	-0.45 -0.15	0.23 0.00	3.56 2.47	45 97	29.73 14.79	74 129	81 66	30 26	0	3 5	1 0	0
1	CHEYENNE	62	30	65	23	46	10	0.00	-0.13	0.00	1.34	46	18.06	123	65	17	0	5	0	0
1	LANDER	56	29	61	25	42	10	0.00	-0.18	0.00	2.54	88	15.79	128	59	26	0	5	0	0
	SHERIDAN	62	27	65	22	44	11	0.00	-0.18	0.00	5.88	166	21.82	154	77	26	0	7	0	0

Based on 1991-2020 normals

*** Not Available

National Agricultural Summary

November 13 – 19, 2023

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Much of the nation was drier than normal, although large parts of Florida, the Rockies, Southwest, and West recorded at least twice the normal amount of weekly precipitation. Some areas in Florida received rainfall totaling 5 inches or more. Meanwhile, most of the nation was warmer than

normal. Parts of the upper Midwest, northern Plains, and Rockies recorded temperatures 12°F or more above normal. In contrast, some locations in Maine, Mississippi, and Washington recorded temperatures 3°F or more below normal.

Corn: Ninety-three percent of the 2023 corn acreage was harvested by November 19, three percentage points behind last year but 2 points ahead of the 5-year average. Harvest progress was complete or nearing completion in 13 of the 18 estimating states.

Winter Wheat: Nationwide, producers had sown 95 percent of the intended 2024 winter wheat acreage by November 19, three percentage points behind last year and 1 point behind the 5-year average. Planting progress was complete or nearing completion in 15 of the 18 estimating states. Nationwide, 87 percent of the winter wheat acreage had emerged by November 19, one percentage point ahead of last year and 2 points ahead of the 5-year average. During the week, winter wheat emergence advanced by 15 percentage points or more in California and Missouri. As of November 19, forty-eight percent of the 2024 winter wheat acreage was reported in good to excellent condition, 1 percentage point above the previous week and 16 points above the same time last year.

Cotton: By November 19, seventy-seven percent of the

nation's cotton acreage was harvested, 1 percentage point behind last year but 6 points ahead of the 5-year average. Cotton harvest advanced 10 percentage points or more during the week in eight of the 15 estimating states.

Sorghum: Ninety-six percent of the 2023 sorghum acreage had been harvested by November 19, equal to last year but 4 percentage points ahead of the 5-year average. Harvest progress was at or ahead of the 5-year average in five of the six estimating states.

Other Crops: Ninety-two percent of the nation's peanut acreage was harvested as of November 19, two percentage points behind last year but 1 point ahead of the 5-year average. Peanut harvest progress was complete or nearing completion in seven of the eight estimating states.

By November 19, seventy-eight percent of this year's sunflower crop was harvested, 16 percentage points behind last year but equal to the 5-year average. During the week, sunflower harvest advanced 13 percentage points in North Dakota.

Crop Progress and ConditionWeek Ending November 19, 2023

Corn Percent Harvested										
	Prev	Prev	Nov 19	5-Yr						
	Year	Week	2023	Avg						
СО	93	86	91	94						
IL	97	95	97	95						
IN	94	82	90	91						
IA	97	94	97	92						
KS	97	97	100	96						
KY	99	93	95	97						
МІ	85	52	67	75						
MN	98	93	97	93						
МО	96	94	97	94						
NE	98	91	95	93						
NC	100	100	100	100						
ND	98	76	87	77						
ОН	91	68	81	83						
PA	78	56	70	80						
SD	99	87	93	86						
TN	100	97	98	100						
TX	100	97	100	98						
WI	76	66	78	77						
18 Sts	96	88	93	91						
These 18 States harvested 94%										
of last year's	of last year's corn acreage.									

Cotton Percent Harvested									
	Prev	Prev	Nov 19	5-Yr					
	Year	Week	2023	Avg					
AL	86	79	89	80					
AZ	58	51	62	63					
AR	100	98	100	97					
CA	89	55	75	81					
GA	77	57	67	71					
KS	84	65	73	50					
LA	100	100	100	98					
MS	98	96	99	92					
МО	96	93	98	92					
NC	87	72	86	78					
ок	73	60	74	65					
sc	72	59	73	69					
TN	89	86	95	85					
TX	70	56	68	63					
VA	86	62	71	75					
15 Sts	78	67	77	71					
These 15 States harvested 98%									
of last year's	cotton a	creage.							

Sunflo	wers Per	cent F	larveste	ed					
	Prev	Prev	Nov 19	5-Yr					
	Year	Week	2023	Avg					
СО	88	92	96	89					
KS	92	87	90	89					
ND	94	59	72	77					
SD	96	72	80	77					
4 Sts	94	68	78	78					
These 4 States harvested 87%									

Sorghur	Sorghum Percent Harvested									
	Prev	Prev	Nov 19	5-Yr						
	Year	Week	2023	Avg						
СО	96	85	92	91						
KS	94	90	95	88						
NE	97	90	95	93						
ок	96	83	91	90						
SD	99	86	90	91						
TX	100	100	100	99						
6 Sts	96	92	96	92						
These 6 States harvested 100%										
of last year's s	orghum	acreag	e.							

Pea	nuts Perc	ent Ha	rvested	i						
	Prev	Prev	Nov 19	5-Yr						
	Year	Week	2023	Avg						
AL	97	91	94	93						
FL	100	96	97	98						
GA	95	87	92	93						
NC	99	96	97	91						
ОК	94	95	97	87						
SC	93	84	91	86						
TX	78	66	75	75						
VA	100	99	100	97						
8 Sts	94	87	92	91						
These 8 States harvested 96%										
of last yea	ar's peanut a	acreage.	•							

Crop Progress and Condition

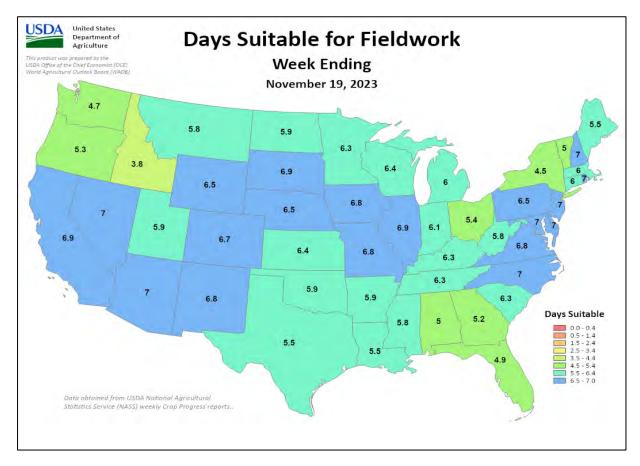
Week Ending November 19, 2023

Winter Wheat Percent Planted										
	Prev	Prev	Nov 19	5-Yr						
	Year	Week	2023	Avg						
AR	91	87	94	88						
CA	60	45	60	59						
СО	100	100	100	100						
ID	100	100	100	100						
IL	96	96	97	96						
IN	99	92	95	96						
KS	99	97	98	98						
MI	100	92	97	96						
MO	96	85	95	89						
MT	100	98	99	99						
NE	100	100	100	100						
NC	78	74	86	70						
ОН	100	99	100	98						
ок	95	91	95	96						
OR	100	95	99	99						
SD	100	100	100	100						
TX	95	82	87	89						
WA	100	100	100	100						
18 Sts	98	93	95	96						
These 18 State	These 18 States planted 88%									

These 18 States planted 88%
of last year's winter wheat acreage.

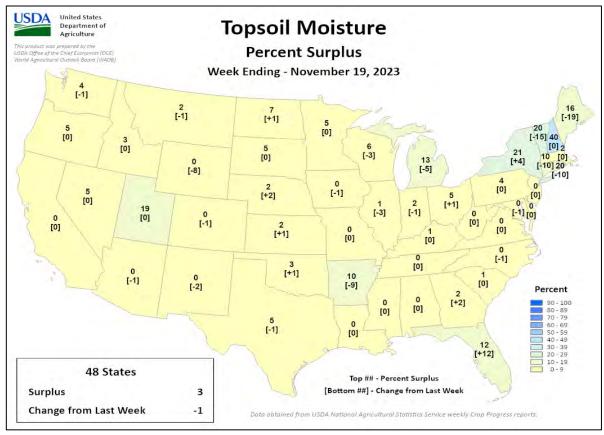
Winter Wheat Percent Emerged										
	Prev	Prev	Nov 19	5-Yr						
	Year	Week	2023	Avg						
AR	73	70	77	72						
CA	42	20	35	36						
СО	99	93	95	94						
ID	94	99	100	95						
IL	78	85	90	83						
IN	85	75	81	85						
KS	80	86	91	85						
MI	97	76	86	89						
MO	81	65	81	74						
MT	98	91	95	89						
NE	100	99	100	99						
NC	59	47	60	51						
ОН	92	90	95	92						
ок	89	79	89	88						
OR	82	68	80	76						
SD	87	93	96	95						
TX	79	66	73	75						
WA	95	99	100	92						
18 Sts 86 81 87 85										
These 18 States planted 88%										
of last year's	winter w	heat acr	eage.							

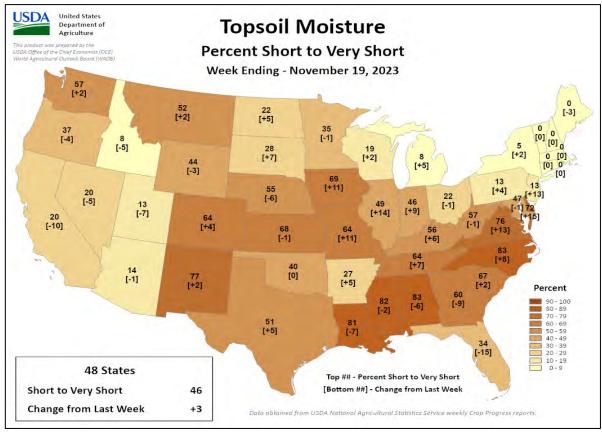
Winter Wheat Condition by						
Percent						
	VP	Р	F	G	EX	
AR	1	11	34	46	8	
CA	0	0	0	40	60	
СО	2	6	31	58	3	
ID	1	1	18	78	2	
IL	0	3	15	64	18	
IN	2	4	23	62	9	
KS	16	16	35	30	3	
MI	0	4	53	41	2	
МО	1	5	33	55	6	
MT	1	4	37	21	37	
NE	2	7	37	38	16	
NC	0	6	38	50	6	
ОН	0	2	14	59	25	
ок	3	8	45	41	3	
OR	0	21	40	35	4	
SD	3	5	39	45	8	
TX	9	11	35	33	12	
WA	2	8	38	45	7	
18 Sts	7	10	35	39	9	
Prev Wk	7	10	36	39	8	
Prev Yr	15	18	35	27	5	



Crop Progress and Condition

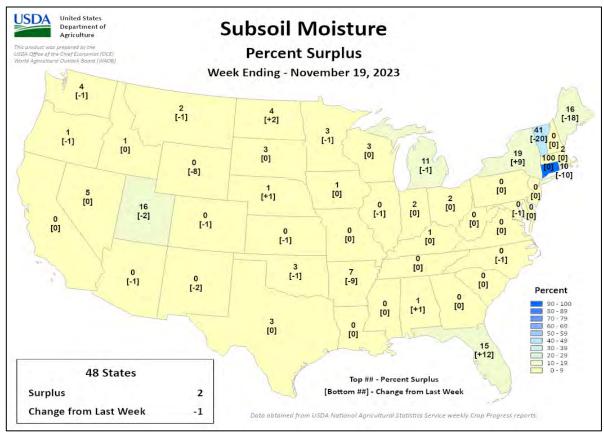
Week Ending November 19, 2023

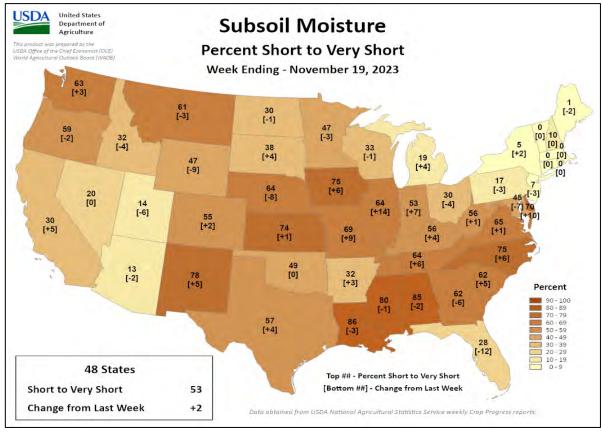




Crop Progress and Condition

Week Ending November 19, 2023





International Weather and Crop Summary

November 12-18, 2023 International Weather and Crop Highlights and Summaries provided by USDA/WAOB

HIGHLIGHTS

EUROPE: Widespread moderate to heavy rain continued over most of central, northern, and eastern Europe, with additional heavy showers easing autumn dryness in the southeastern Danube River Valley.

WESTERN FSU: Unsettled weather continued, with unseasonable warmth replaced by seasonally colder weather by the end of the period.

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

NORTHWESTERN AFRICA: Drought intensified and expanded over the region under sunny skies and abovenormal temperatures.

EAST ASIA: Showers in southern China benefited rapeseed, while colder weather in wheat areas farther north slowed crop development.

SOUTHEAST ASIA: Seasonably drier weather moved into northern reaches of the region, while seasonal rains increased in the south.

AUSTRALIA: Scattered, light showers had little impact on winter crop harvesting.

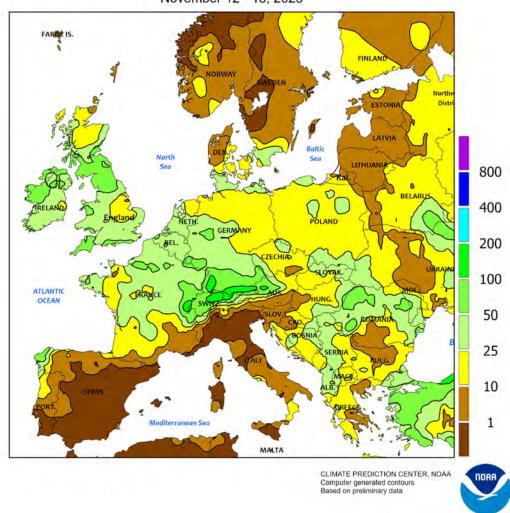
SOUTH AFRICA: Warm, sunny weather favored growth of summer crops in eastern commercial farming areas, following recent periods of beneficial rainfall.

ARGENTINA: Sunny albeit cool weather favored growth of corn and soybeans in southern production areas, while heavy rain overspread the north.

BRAZIL: Unseasonably hot, dry weather dominated key farming areas of central Brazil.



EUROPE
Total Precipitation(mm)
November 12 - 18, 2023

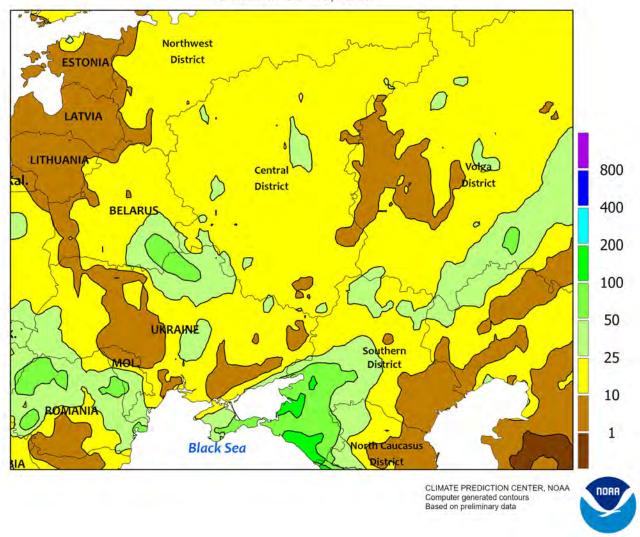


EUROPE

Wet weather continued over most of the continent, with moderate to heavy rain in the previously dry southeastern Danube River Valley. The relentless barrage of Atlantic storms — which began in mid-October — produced an additional 10 to 100 mm of rainfall (locally more) from England and France eastward, though somewhat drier weather (less than 10 mm) was noted in southern Romania and northern Bulgaria. Despite the locally drier conditions in the southern Balkans, moderate to heavy rain (25-110 mm) alleviated short-term dryness and drought in southeastern Romania and northeastern Bulgaria. The recent spell of wet weather has impeded late winter crop establishment as well as

the final stages of summer crop harvesting; 30-day rainfall has totaled 200 to 400 percent of normal over most of Europe save for southern-most growing areas. Despite the continued wet weather pattern, sunny skies in Portugal, Spain, and Italy facilitated winter grain establishment after recent rain. Temperatures averaged 3 to 7°C above normal in southwestern Europe, 1 to 3°C above normal in central and southeastern growing areas, but progressively colder in northern and northeastern portions of the continent (up to 10°C below normal in Scandinavia). In fact, rain changed to snow as colder air arrived over much of eastern Europe, though snow cover was mostly confined to higher elevations.

WESTERN FSU Total Precipitation(mm) November 12 - 18, 2023



WESTERN FSU

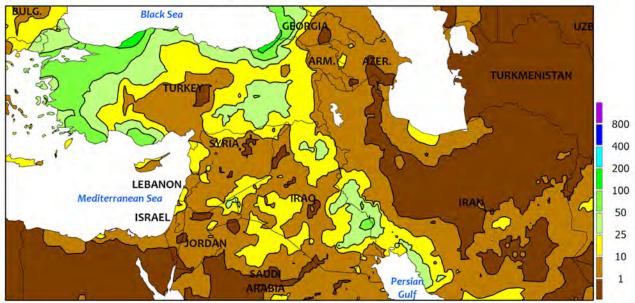
Unseasonable warmth was replaced by sharply colder weather at week's end, with widespread rain and late-week snow boosting moisture reserves for winter crops. Weekly precipitation (rain and snow) tallied 10 to 110 mm (liquid equivalent) over primary growing areas of Moldova, Ukraine, Belarus, and western Russia, further boosting moisture reserves for winter wheat, barley, and rapeseed. Rain was most welcome in southern Russia's North Caucasus District, where acute autumn dryness left soils short of moisture for proper winter wheat establishment. The recent spate of unseasonable warmth continued early in the period, with temperatures for the week averaging 2 to 6°C above normal. However, sharply colder weather settled over the region at the

end of the week, with hard freezes (-2°C or lower) arriving over western and northern portions of the region. Winter crops were hastened into dormancy over these same western and northern crop areas but were still vegetative to semi-dormant in southern Russia and southeastern Ukraine.

This will be the last weekly summary for Western FSU. Coverage will resume in March 2024 to coincide with winter wheat breaking dormancy.

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

MIDDLE EAST Total Precipitation(mm) November 12 - 18, 2023



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



MIDDLE EAST

A slow-moving storm brought widespread rain and mountain snow to western and central portions of the region. Rainfall was moderate to very heavy (15-110 mm) across central and western Turkey, improving soil moisture supplies for winter wheat and barley on the Anatolian Plateau and easing drought in the previously dry northwest (Thrace Region). Similarly, moderate to heavy showers (10-45 mm) in southeastern Turkey benefited winter grain

establishment. From eastern Syria into Iraq and western Iran, the first appreciable rain and mountain snow (10-65 mm liquid equivalent) of the season moistened soils for recently sown winter crops. Conversely, dry weather persisted over northeastern Iran, where little to no rain has fallen since mid-October. Temperatures averaged 2 to 4°C above normal from Turkey into Iraq but 4 to 8°C above normal across central and northern Iran.

NORTHWESTERN AFRICA

Total Precipitation(mm) November 12 - 18, 2023



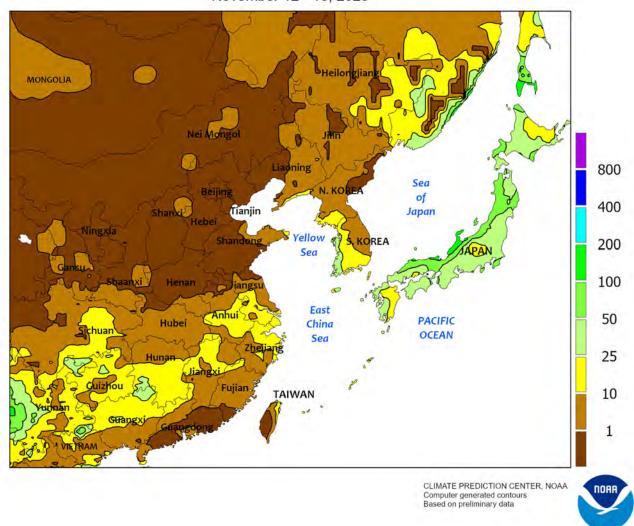
CLIMATE PREDICTION CENTER, NOAA Computer generated contours Based on preliminary data

NORTHWESTERN AFRICA

Drought intensified and expanded across the region during the monitoring period. Despite favorable late-October rains in Morocco, dry conditions since have ushered this primary growing area into drought; season-to-date rainfall (since September 1) in Morocco's primary growing areas slipped to 60 percent of normal following another dry week. Meanwhile, drought intensified across Algeria and Tunisia, with many central and eastern growing areas reporting the driest start to the cool rainy season — by far — of the past 30 years. As of November 18, season-to-date rainfall has totaled: 25 mm in Algeria's central Tell Region (18 percent

of normal); 18 mm in Algeria's eastern Tell Region (13 percent of normal); 19 mm in northern Tunisia's Tell Region (13 percent of normal); and 1 mm in central Tunisia's Steppe Region (1 percent of normal). Compounding the impacts of the drought were temperatures which averaged 2 to 6°C above normal, with daytime highs in the middle 30s (degrees C) in western and southern Morocco more in line with values typically seen in late May and June. Rain is desperately needed for proper winter grain planting and establishment, though crops can be planted as late as December if moisture conditions improve by then.

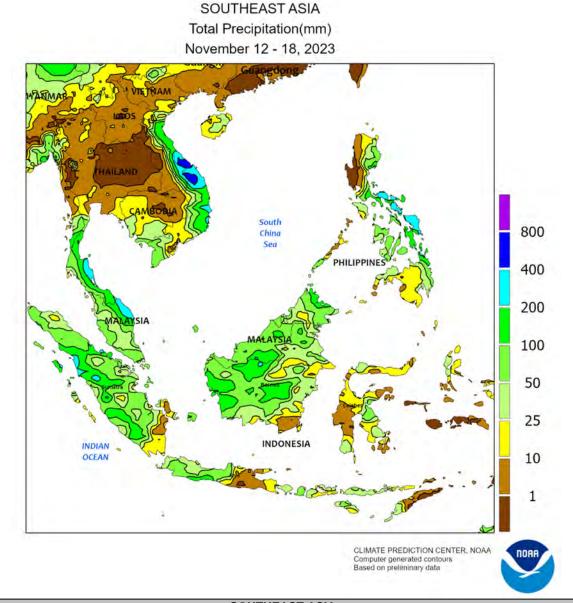
EASTERN ASIA
Total Precipitation(mm)
November 12 - 18, 2023



EASTERN ASIA

Showers pushed through southern China during the early half of the week. Rainfall amounts were generally below 25 mm in most areas, providing beneficial moisture for rapeseed establishment and minor winter crops. Meanwhile, dry

weather prevailed in wheat areas to the north following favorable rainfall last week. Additionally, temperatures averaged as much as 4°C below normal throughout winter crop areas, slowing crop development but not initiating dormancy.

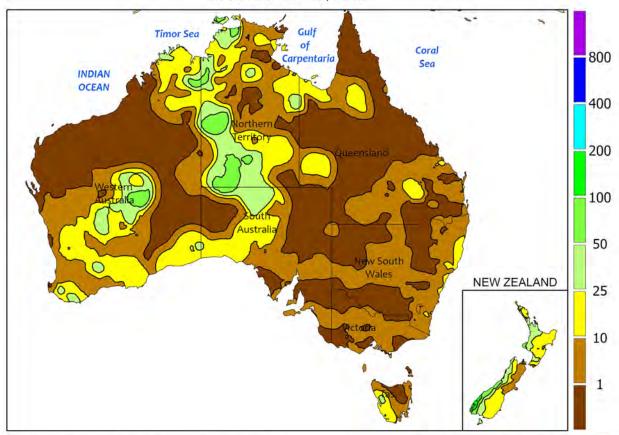


SOUTHEAST ASIA

Seasonably drier weather prevailed in Thailand following a few weeks of late-season showers. The drier conditions supported fieldwork including sowing of the dry-season rice crop. Meanwhile, a strong easterly flow brought more downpours (over 150 mm, locally topping 300 mm) and flooding to minor agricultural areas in central Vietnam. A similarly strong flow produced heavy showers (150-300 mm or more) in eastern sections of the Philippines

(generally minor rice-producing areas) as well. Elsewhere, rainfall increased in southern Indonesia (Java, the largest producer of rice in Indonesia), with many locales recording over 25 mm. Even with the recent precipitation, seasonal rains have yet to become well established in Java, lagging the normal establishment date by nearly a month and forcing growers to switch from rice to other less water-intensive crops.

AUSTRALIA Total Precipitation(mm) November 12 - 18, 2023



Gridded data from the Australian Bureau of Meteorology: www.bom.gov.au/ Creative Commons License found at; https://creativecommons.org/licenses/by/3.0/au/legalcode CLIMATE PREDICTION CENTER, NOAA Computer generated contours Based on preliminary data

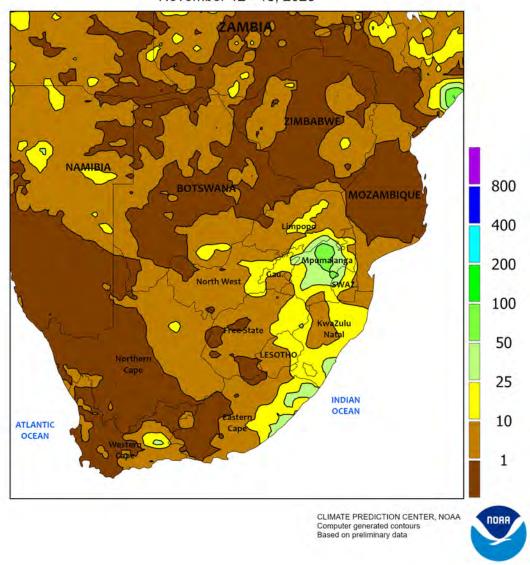


AUSTRALIA

Wet weather overspread sizeable portions of Western Australia and South Australia, but much of the rain fell outside of major winter crop producing areas. Consequently, winter crop harvesting continued to make good progress in the south and west, and the relatively dry weather helped maintain grain quality. Elsewhere in the wheat belt, showers overspread the east late in the week,

but the showers were generally light and widely scattered. As a result, wheat, barley, and canola harvesting proceeded with minimal delays but soil moisture declined for germinating and emerging summer crops. Temperatures averaged up to 3°C above normal in northern portions of the wheat belt and up to 3°C below normal in the south.

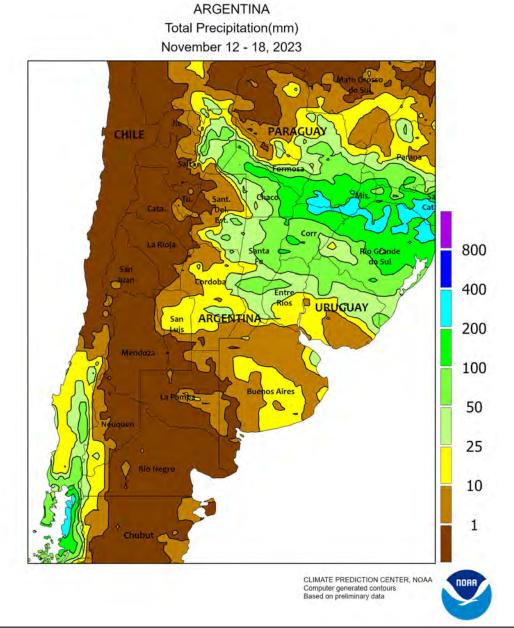
SOUTH AFRICA Total Precipitation(mm) November 12 - 18, 2023



SOUTH AFRICA

Warm, sunny weather spurred growth of summer crops, including emerging to vegetative corn, in key eastern commercial farming areas. Rainfall totaled 5 to 25 mm – locally higher – from southern Limpopo southward into eastern sections of Eastern Cape. Drier weather prevailed elsewhere, including western production areas of North West and Free State. Weekly average temperatures ranged from 1 to 2°C below normal in KwaZulu-Natal and eastern Mpumalanga to as much as 4°C above normal in portions of Western and Northern Cape. Highest daytime temperatures

generally ranged from the upper 20s and lower 30s (degrees C) in the wetter eastern locations to the upper 30s and lower 40s in the farming areas not receiving rainfall. Western sections of the corn belt (North West and neighboring locations in Free State and Limpopo) will need a timely onset of heavier rainfall over the next few weeks to condition fields for planting, which is typically underway in December. Meanwhile, the warm sunny weather in Western Cape aided drydown of wheat while promoting growth of tree and vine crops.

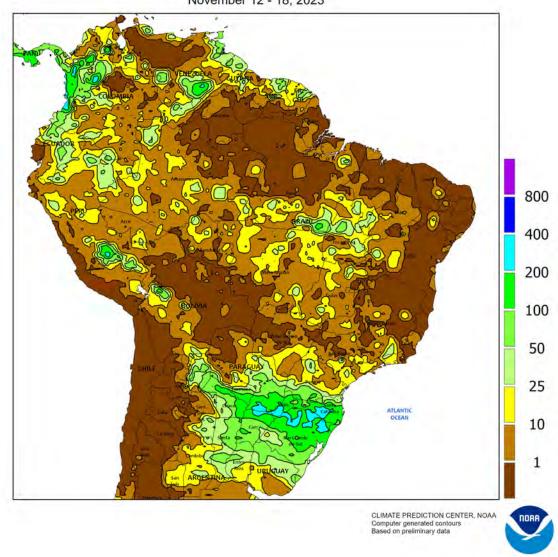


ARGENTINA

Following weeks of beneficial rainfall, sunny albeit cool weather promoted growth of emerging summer crops in southern farming areas. Rainfall totaled below 25 mm in most locations in and around Buenos Aires, promoting fieldwork that had been delayed the past few weeks due to wet weather. Weekly temperatures in the aforementioned areas averaged 1 to 2°C above normal, but while nighttime lows dropped below 5°C in southern-most crop areas, no freeze was reported. In contrast, warm weather, accompanied by unseasonably heavy showers, dominated the north. The heaviest rain (50-150 mm) fell from Chaco

and northern Santa Fe eastward, providing abundant moisture for germination of cotton and other summer crops but likely causing some flooding of low-lying fields. The rain also brought some relief from excessive heat (daytime highs reaching 40°C) that lingered into the early part of the week. According to the government of Argentina, sunflowers and corn were 74 and 34 percent planted as of November 16, respectively, with soybean planting reaching 19 percent completed; cotton was 12 percent planted, compared with 25 percent last year, while wheat was 18 percent harvested, 9 points ahead of last year's pace.

BRAZIL
Total Precipitation(mm)
November 12 - 18, 2023

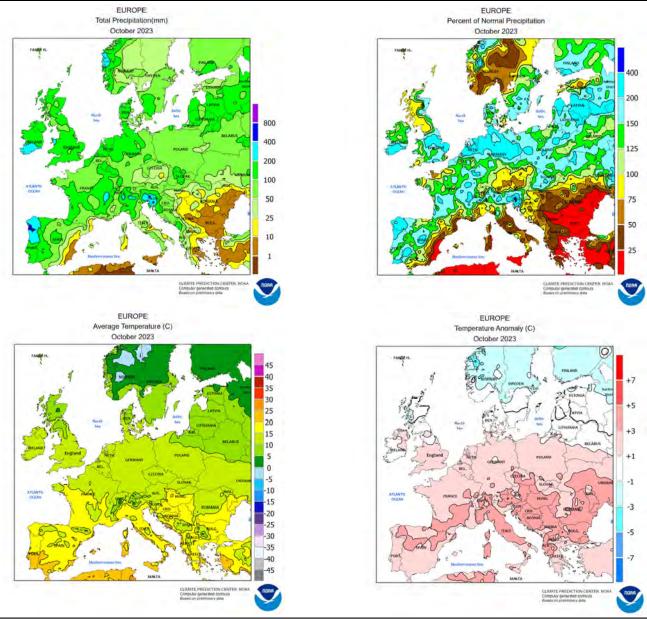


BRAZIL

Unseasonable heat and dryness stressed emerging to early vegetative soybeans and other summer crops over a large section of central and southeastern Brazil. Rainfall was widely scattered and generally light over a broad area stretching from Mato Grosso and Mato Grosso do Sul north and eastward, with many locations recording less than 15 mm. Weekly average temperatures ranging from 2 to 7°C above normal exacerbated the impact of the dryness on evaporative losses; further still, daytime highs reaching the upper 30s and lower 40s (degrees C) posed stress on standing crops and possibly caused some irreversible damage. According to the government of Mato Grosso, soybeans were 96 percent planted as of November 17; while nearing

completion, planting progressed at a lower-than-average pace since mid-October, and a portion of the crop may be harvested later than previously anticipated. The warmth and dryness extended as far south as northern Paraná, while heavy showers (25 to locally more than 100 mm) farther south maintained adequate to locally excessive levels of moisture for summer crops and unharvested wheat. According to the government of Rio Grande do Sul, corn was 81 percent planted as of November 16, while 22 percent of soybeans were planted; wheat was 89 percent harvested, up 7 points from the previous week. In Paraná, first-crop corn and soybeans were 96 and 84 percent planted, respectively, as of November 13, while wheat was 99 percent harvested.

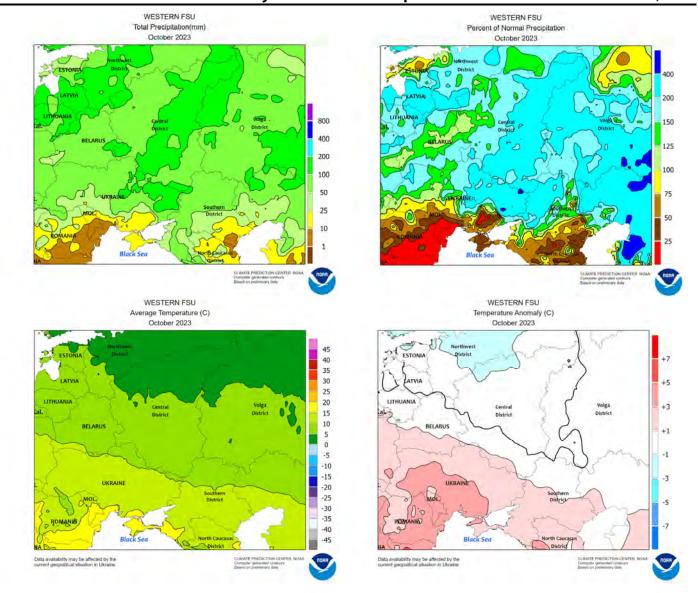
October International Temperature and Precipitation Maps



EUROPE

Increasingly wet but very warm weather prevailed across much of the continent during October, though dry conditions prevailed from southeastern Spain into Greece and the southern Balkans. Temperatures averaged 2 to 5°C above normal over most of Europe, with daytime highs reaching the lower to middle 30s (degrees C) in Portugal, Spain, western and southern France, and the lower Danube River Valley. The summer-like heat accentuated soil moisture losses brought on by acute dryness in southeastern Europe, where monthly rainfall tallied less than 50 percent of normal (locally less than 25 percent). However, dry weather in Greece facilitated flood recovery efforts

following historic September rainfall and promoted cotton harvesting. In contrast, heavy rain across much of the Iberian Peninsula signaled a favorable start to the 2023-24 Water Year and provided some relief from multi-year drought. Likewise, wet weather in northern Italy boosted irrigation reserves for warm-season crops and further eased or erased the last vestiges of long-term drought. Meanwhile, monthly rainfall averaged 100 to 250 percent of normal over most of central and northern Europe, slowing summer crop harvesting and other seasonal fieldwork but boosting moisture supplies for winter grain and oilseed establishment.

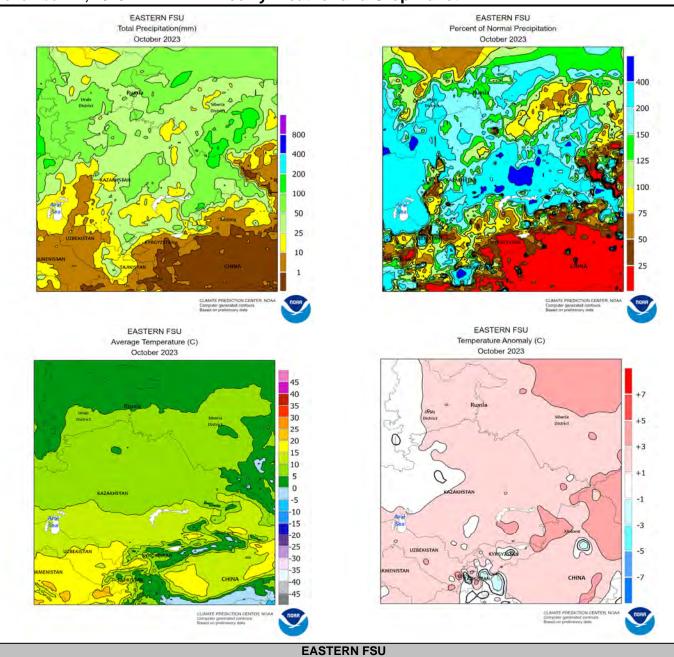


WESTERN FSU

Dry conditions near the Black Sea Coast contrasted with widespread moderate to heavy rain elsewhere during October. Little to no rainfall was reported in southern Moldova and southwestern-most Ukraine (Odessa), with drier-than-normal conditions extending eastward along the Black Sea Coast into southern Russia. Otherwise, near- to above-normal rainfall (90-300 percent of normal) prevailed from Belarus and western Ukraine eastward. The wet weather slowed summer crop harvesting but improved

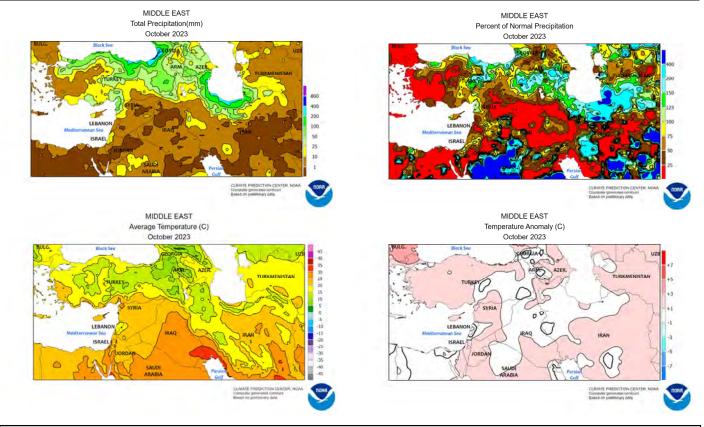
soil moisture for winter grain and oilseed establishment following a very dry September. Temperatures averaged 2 to 5°C above normal over primary winter crop areas of Moldova, southern Ukraine, and southwestern Russia, enabling winter crops to benefit from the late-arriving moisture.

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



Moderate to heavy rainfall continued into October over the spring grain belt, while the first rain of the season arrived farther south across the region's cotton and winter wheat areas. Wet weather (90-300 percent of normal, locally more) persisted for a second consecutive month from the southern Urals District in Russia eastward across northern Kazakhstan into the Siberia District. The rain further hampered spring grain harvesting and lowered crop quality and yield prospects somewhat. Farther south across the Commonwealth of

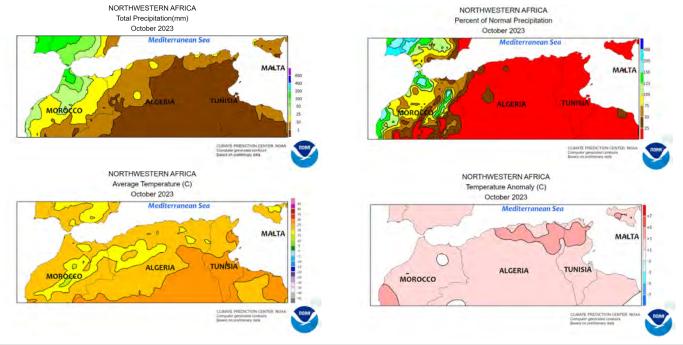
Independent States (CIS), the first widespread rain and mountain snow of the 2023-24 Water Year arrived from central Turkmenistan eastward across Uzbekistan, southern Kazakhstan, and western portions of Kyrgyzstan and Tajikistan, though eastern-most portions of the CIS were dry. The bulk of the cool-season rain and snow in the CIS falls from November into May. Temperatures for the month averaged 2 to 4°C above normal nearly everywhere save for near-normal temperatures in Russia's Urals District and northwestern Kazakhstan.



MIDDLE EAST

Mostly dry and warm weather prevailed during October. Appreciable rain (25 mm or more) was limited to the Black and Caspian Sea Coasts as well as eastern Turkey and the adjacent eastern Mediterranean Coast. Otherwise, dry conditions favored seasonal fieldwork but reduced soil moisture for winter wheat and barley establishment,

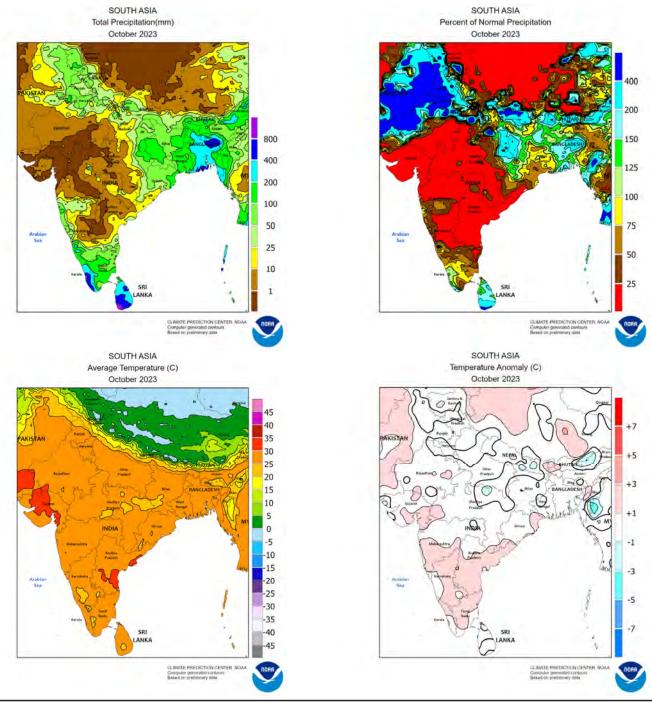
especially in western and northwestern Turkey where winter crops are typically sown first. However, light to moderate showers in northeastern Iran (Khorasan) moistened soils for winter barley. Temperatures averaged near normal in central growing areas but up to 3°C above normal in central and western Turkey as well as central and eastern Iran.



NORTHWESTERN AFRICA

Outside of some rain in Morocco, the historically dry start to the 2023-24 Water Year continued into October across much of the region. October showers (10-50 mm) in western and northern Morocco conditioned soils locally for winter grain sowing later in autumn. Conversely, little to no rainfall was reported across Algeria and Tunisia,

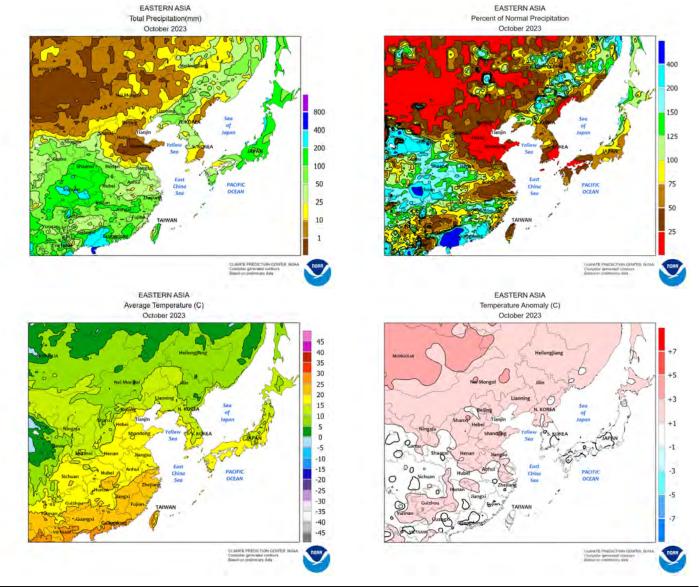
where cool-season rains typically arrive in October and September, respectively. Exacerbating the near-complete dryness in central and eastern croplands were temperatures which averaged 2 to 4°C above normal for the month, with daytime highs (35-38°C) more on par with values seen during the summer months.



SOUTH ASIA

The withdrawal of the southwest monsoon from India and the surrounding areas proceeded at a near-normal pace in October, fully withdrawing by October 19 (according to the Indian Meteorological Department). As such, seasonably drier weather overspread much of the region, supporting maturation and harvesting of kharif crops in

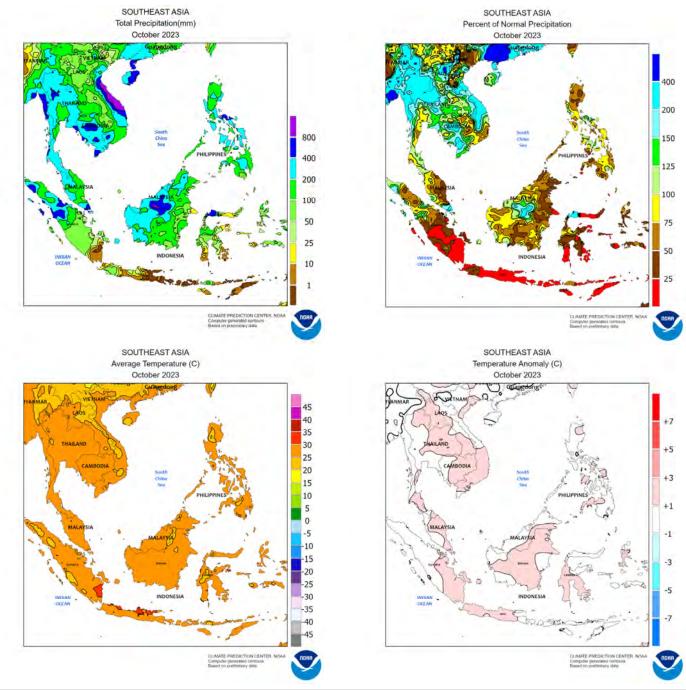
India and Pakistan as well as the beginning of rabi crop sowing in both countries. Notable wetness (topping 150 mm of rain, as much as 300 percent of normal), however, continued in some outer reaches of the north, northeast, and south through month's end, causing some fieldwork delays but overall benefiting irrigation supplies.



EASTERN ASIA

Despite widespread showers across eastern and southern China during October, rainfall totals were well below average in some key agricultural areas. In particular, the lower Yangtze Valley received less than half the normal rainfall, while little if any rain occurred on much of the North China Plain. While the dryness facilitated fieldwork, more moisture would have been welcome to

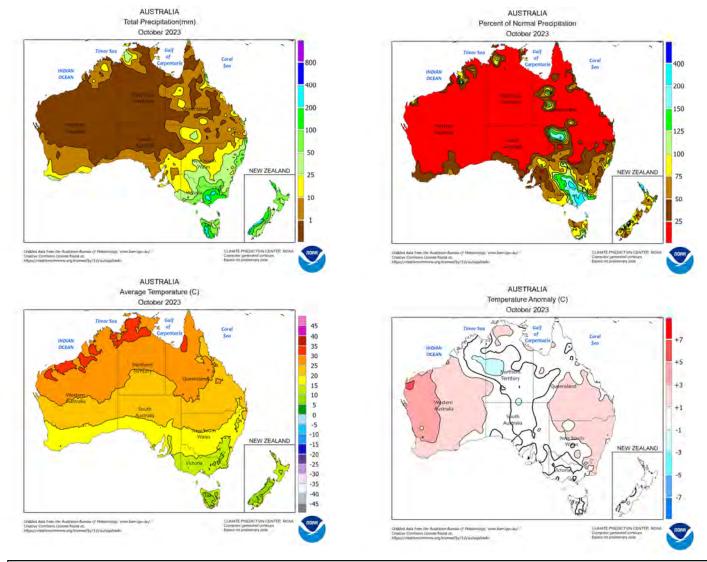
aid winter crop establishment, especially toward the end of the month when temperatures peaked over 30°C (10°C above normal) in wheat areas. Meanwhile, precipitation was above to well above average in the upper Yangtze Valley (150-400 percent of normal) and southern-most locales (over 400 percent of normal) where a pair of tropical cyclones made landfall.



SOUTHEAST ASIA

Unseasonably heavy October rainfall across Thailand and southern Indochina provided favorable moisture for rice planted later in the season; harvesting of the earliest planted rice was underway. Rainfall totals topped 200 mm (about 200 percent of normal) in many locales which also bolstered irrigation supplies prior to sowing activities for the dryseason crop. Indeed, the wet weather was most pronounced in minor agricultural areas of central Vietnam where over 1,000 mm was reported. Meanwhile in the Philippines,

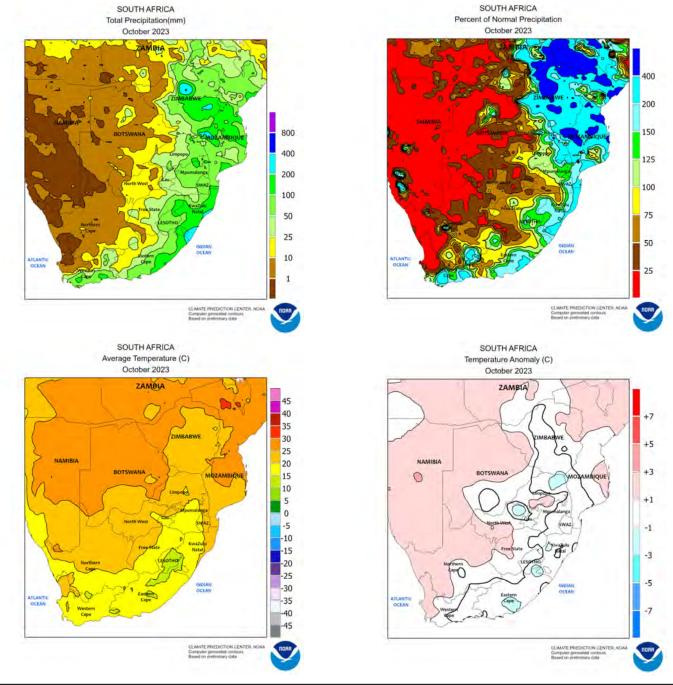
similar rainfall totals to Thailand were recorded, but were below average (locally below 50 percent of normal) in this part of the region. The drier-than-normal conditions benefited the bulk of main-season rice that was maturing and actively being harvested. Elsewhere, lighter-than-normal precipitation in Malaysia and neighboring portions of Indonesia supported oil palm harvesting, while dryness in southern Indonesia (Java) reflected the delayed onset of seasonal rainfall, discouraging first-crop rice sowing.



AUSTRALIA

Soaking rain overspread parts of southeastern Australia at the beginning of October, providing timely moisture for flowering to filling winter grains and oilseeds. The rain was very beneficial for wheat, barley, and canola, helping to maintain good crop conditions and yield prospects in Victoria and southern New South Wales. Elsewhere in the wheat belt, mostly dry weather dominated throughout October, reducing the amount of soil moisture available to winter crops. Additionally, frequent heat plagued western and northeastern

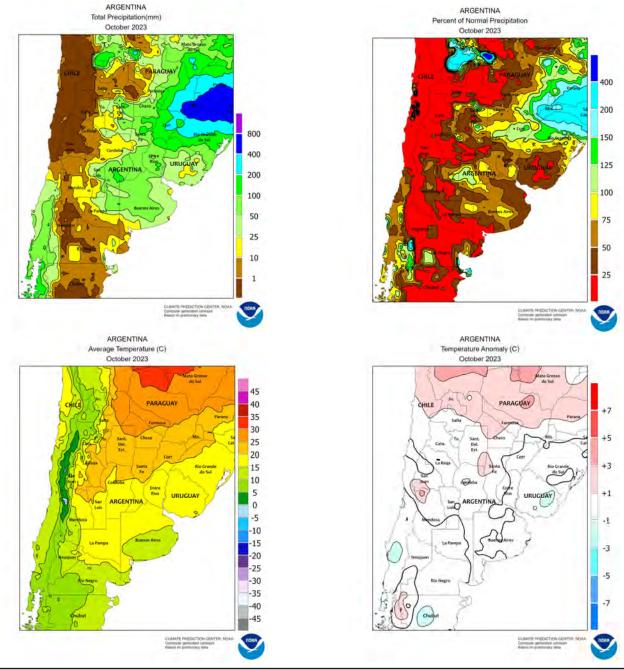
portions of the wheat belt. The combined heat and dryness were unfavorable for immature winter grains and oilseeds, leading to further reductions in yield prospects while accelerating crops toward maturity. Indeed, the hot and dry weather promoted early winter crop harvesting in some areas. In the east, the dryness allowed summer crop planting to proceed, but sowing was skewed toward irrigated crops, such as cotton, while the lack of soil moisture deterred planting of dryland crops, such as sorghum.



SOUTH AFRICA

The timely onset of seasonal rainfall benefited summer crops in areas that typically begin receiving rainfall in October. This included eastern sections of the corn belt (Mpumalanga and environs) and the main sugarcane areas in KwaZulu-Natal. However, near- to above-normal temperatures maintained high evaporative losses, particularly in the drier western corn areas (North West and neighboring locations in Free State) where highest daytime temperatures reached the middle and upper 30s (degrees C).

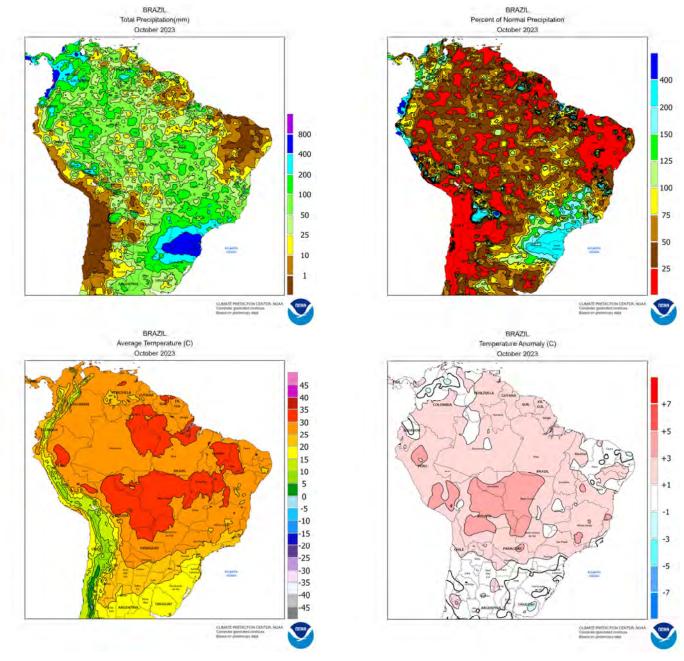
The planting window for corn in the western half of the corn belt is November and December, so farmers still have time to gain sufficient moisture to avoid planting delays. Elsewhere, unseasonably heavy rainfall provided a late-season boost in moisture for irrigated summer crops over much of Eastern and Western Cape; by month's end, however, drier conditions — combined with seasonal warming — favored growth of wheat and other crops in Western Cape benefiting from the increased sunshine.



ARGENTINA

Following a protracted period of dryness, moderate to heavy showers developed nearly region wide toward the latter half of October. While providing a much-needed boost in moisture for germination and establishment of summer crops, much of the moisture arrived too late for wheat and barley in Argentina's more northerly production areas. An exception was Buenos Aires, where, according to government reports, little wheat had reached flowering before the onset of the rainfall. October

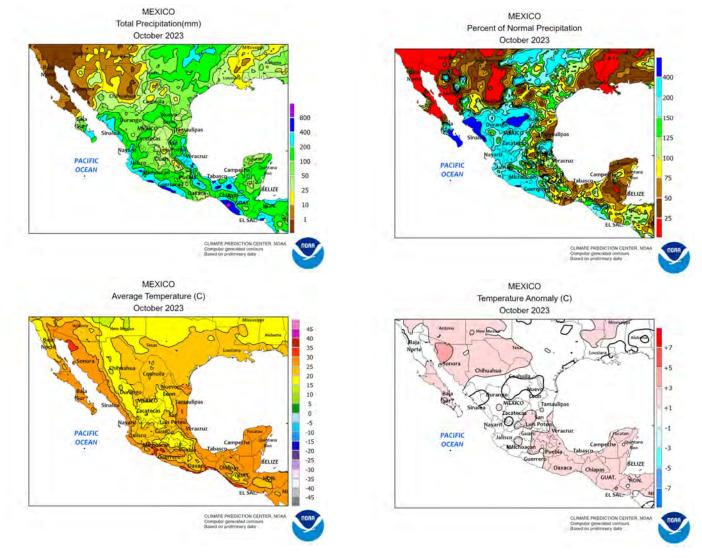
temperatures averaged near to slightly above normal, although frost was common throughout the month in the climatologically cooler southern farming areas; although freeze damage was noted, no irreversible damage had been reported. In contrast to the southern coolness, daytime highs reached the lower and middle 40s (degrees C) on numerous occasions in the far north, stressing early planted summer crops and keeping fields too dry for additional plantings.



BRAZIL

In October, frequent, occasionally excessive rain in southern farming areas contrasted with erratic showers and heat in key summer production areas in central and northeastern Brazil. The heaviest rainfall (monthly accumulations exceeding 200 mm) was concentrated over Paraná, Rio Grande do Sul, and eastern Paraguay; while maintaining abundant levels of moisture for corn and soybeans in early stages of development, the moisture was untimely for unharvested wheat. Rainfall was both below normal and late in arriving farther north,

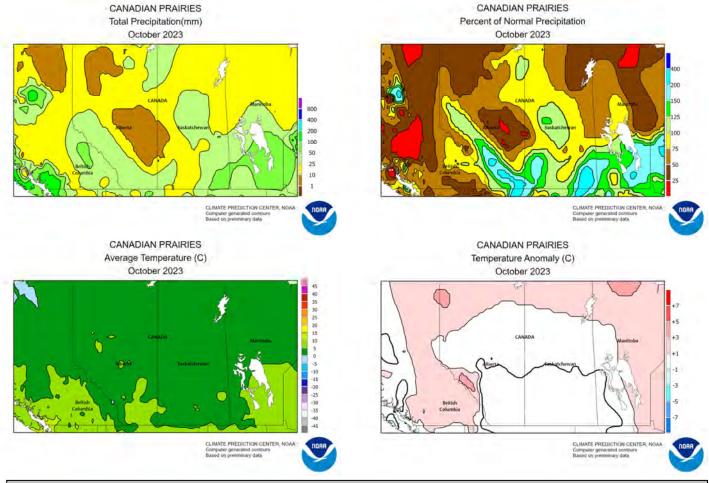
reducing moisture for soybean germination and resulting in some localized planting delays, as noted by reporting from the government of Mato Grosso. Monthly average temperatures were as much as 2°C above normal as far south as Paraná, with daytime highs frequently reaching the upper 30s and lower 40s (degrees C), exacerbating the effects of the low rainfall in the drier northern locations. In Mato Grosso, October average temperatures were the highest in at least 30 years, averaging 2 to 4°C above normal throughout the state.



MEXICO

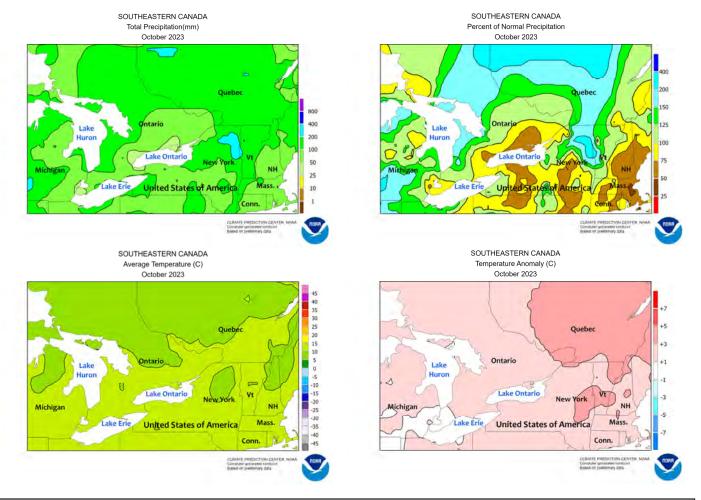
Four tropical storm systems made landfall during the month of October, causing local damage to crops and infrastructure along the southwestern coast but bringing much-needed moisture to many inland farming areas still struggling with season-long drought. The strongest and deadliest of these storms was Hurricane Otis, which struck on October 25 near Acapulco, with maximum sustained winds of 145 knots. While the influx of moisture helped to replenish reservoirs at a time when seasonal rainfall is typically diminishing, several

pockets of dryness lingered. Notable dry spots included Sonora and northern farming areas of Chihuahua – most recently impacted by the weaking monsoon circulation – and farming areas in and around northern Veracruz, an important producer of sugarcane. According to the government of Mexico, reservoirs were at 48 percent capacity nationally as of October 31; Sinaloa reservoir levels were at 33 percent capacity, well below last year's levels (73 percent) but up 5 points from the previous month due to runoff from the storms.



CANADIAN PRAIRIES

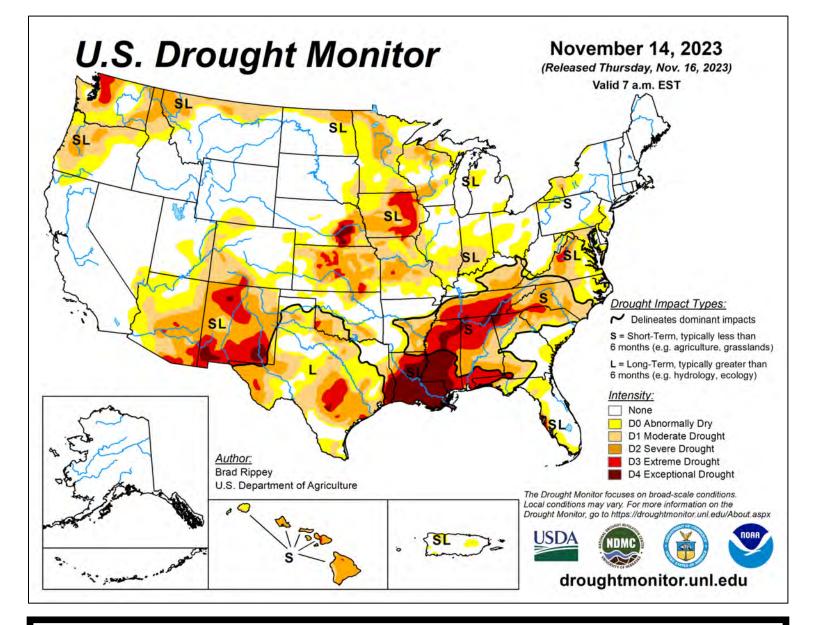
During October, extended periods of dryness supported the final stages of spring grain and oilseed harvesting, with provincial reports depicting near completion of all fieldwork by mid-month. One notable exception was in Manitoba, where corn and sunflowers were 49 and 58 percent harvested, respectively, as of October 24. Above-normal rainfall brought some relief from drought to farming areas in Manitoba and southern Alberta, although much of the region remained in drought as the drier albeit colder winter months approached. According to the Canadian Drought Monitor, the majority of the Prairie agricultural districts were recording some degree of drought as of October 31, with Extreme to Exceptional Drought (D3 and D4) persisting in southern Alberta and neighboring locations in Saskatchewan.



SOUTHEASTERN CANADA

A warmer-than-normal October, accompanied by periods of dry, sunny weather, favored the latter stages of summer crop harvesting and spurred growth of emerging winter wheat. Monthly average temperatures ranged from 1 to 4°C above normal, with the warmest locations concentrated in southern Quebec and easternmost Ontario. Despite the unseasonable warmth,

however, all locations recorded a season-ending freeze (temperature at or below -2°C) by the end of October. In Ontario, the hard freeze, combined with a drying trend during the latter half of the month, aided drydown and harvesting of corn and soybeans, although additional moisture would be welcome for winter wheat establishment before crops enter dormancy.



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