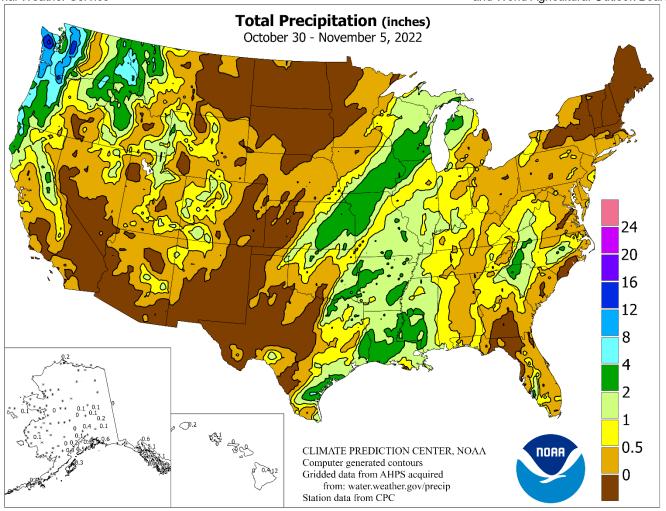
WEEKLY MATHER AND CROP BULLETIN

U.S. DEPARTMENT OF COMMERCE National Oceanic and Atmospheric Administration National Weather Service U.S. DEPARTMENT OF AGRICULTURE National Agricultural Statistics Service and World Agricultural Outlook Board



HIGHLIGHTS

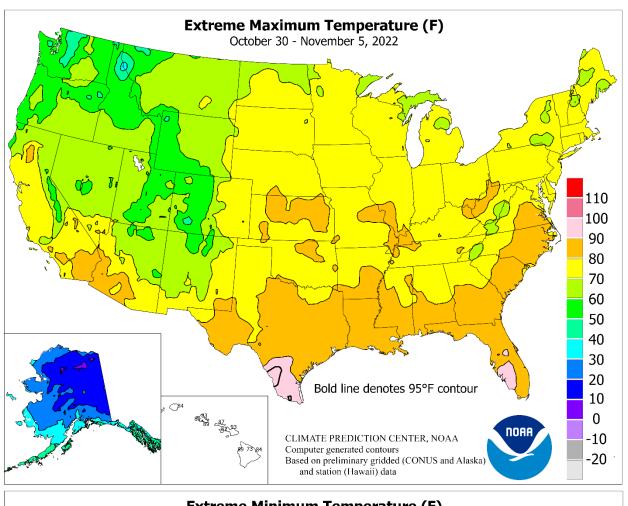
October 30 – November 5, 2022

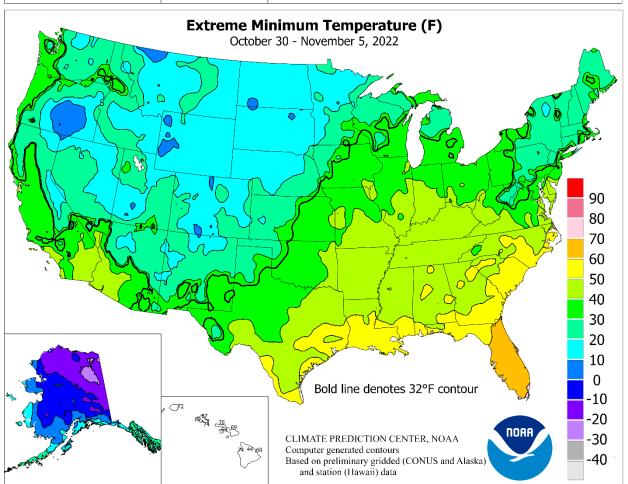
Highlights provided by USDA/WAOB

or the second week in a row, rain provided drought relief from the western Gulf Coast region and lower Mississippi Valley into the Great Lakes States. Two-week rainfall topped 5 inches from northeastern Texas into parts of the middle Mississippi Valley, while a much larger area received at least 2 inches. The rain resulted in modest river rises in the Mississippi Basin, although much of the precipitation initially went into replenishing topsoil moisture rather than running off. Another area of drought-easing precipitation extended

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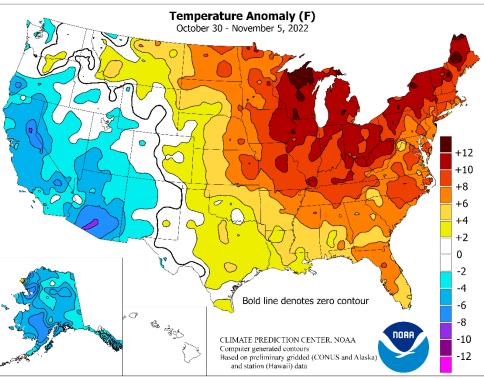


(Continued from front cover)

inland from the Pacific Northwest to the Rockies. Northwestern northern precipitation helped to establish highelevation snowpack and benefited recently planted winter wheat. However, the recent turn toward colder weather in the West limited wheat growth. In fact, weekly temperatures averaged at least 5°F below normal in numerous locations from California into the Southwest. In contrast, readings averaged 5 to 15°F above normal across much of the eastern half of the U.S., except in scattered areas across the Deep South. The warmest weather, relative to normal, covered the Midwest and Northeast. Temperatures rose to near the 80-degree mark as far north as the western Corn Belt, with 80°F readings also dotting the **Ohio Valley**. Temperatures topped 90°F in parts of southern Florida and southern Texas. In other areas of the country-including the East, Southwest, and High Plains-dry weather continued to promote fieldwork, including harvesting of summer crops and planting of winter grains and cover crops.

In late October, daily-record highs were widely scattered across the central and eastern U.S. Marquette, MI, posted a record-setting high (66°F) on October 31, followed the next day in Fort Myers, FL, by a record-tying high of 91°F. In early November, warmth expanded across the Plains and Midwest. November began with consecutive daily-record highs in locations such as Duluth, MN (68 and 71°F), and Sioux Falls, SD (78 and 77°F). Elsewhere in South Dakota, Mobridge set a monthly record with a high of 80°F on the 2nd (previously, 78°F on November 2, 1917, and November 3, 2020). Green **Bay** tied a monthly record—previously achieved on November 8 and 9, 2020—with a high of 75°F on November 2. Unusual warmth also persisted in Florida, where Leesburg tied a monthly record with a high of 90°F on November 1. Fort Myers, FL, noted additional daily-record highs (92 and 91°F, respectively) on November 2-3. Southern Texas also experienced record-setting heat, with November 4 highs soaring to 96°F in Laredo and 93°F in Harlingen. By November 4, warmth in the South and Midwest led to daily-record highs in locations such as Alexandria, LA (88°F), and St. Louis, MO (83°F). Late in the week, warmth further intensified across the eastern U.S. On November 4-5. locations such as Montpelier, VT (72 and 74°F), and Millinocket, ME (71 and 72°F), closed the week with consecutive daily-record highs. Monthly records were established on the 5th in parts of northern New England, where highs in Maine climbed to 76°F in Augusta (previously, 74°F on November 4, 1990) and 75°F in **Portland** (previously, 74°F on November 7, 2020, and earlier dates). Daily-record highs for November 5 reached or exceeded the 80-degree mark in Eastern communities such as Alma, GA (86°F), and Lynchburg, VA (80°F). In contrast, spotty daily-record lows occurred in the West. In Arizona, sub-freezing, dailyrecord lows occurred on November 4 in Kingman (28°F) and Nogales (29°F). A day later in Utah, Marysvale collected a daily-record low (12°F on November 5).

Precipitation in the **Pacific Northwest** was generally heaviest on October 30 and November 4. **Bellingham, WA**, netted daily-record amounts both days, with respective totals of 1.67 and 1.91 inches. In fact, a slew of **Northwestern** stations received record-setting totals on November 4; among them: **Astoria, OR** (4.07 inches), and **Hoquiam, WA** (2.99 inches). For **Astoria**, it was the wettest November day since November 28, 1998, when 5.56 inches fell. Many inland locations across the **Northwest** reported significant rain on November 1, when daily-record amounts included 1.08 inches in **Walla Walla, WA**; 0.98 inch in



Pendleton, OR; and 0.44 inch in Alturas, CA. Some snow also fell. In western Wyoming, November 3 snowfall totaled 3.2 inches in Lander and 2.6 inches in Riverton. On the same date, Denver, CO, received 4.5 inches. Alta, UT, measured more than 15 inches of snow during the first 5 days of November. On November 4, Boise, ID, reported daily-record totals for precipitation (0.55 inch) and snowfall (0.2 inch). Mid-week showers briefly spread as far south as southern California, where Santa Ana (0.42 inch) and Oceanside Harbor (0.29 inch) collected recordsetting rainfall totals for November 2. Meanwhile, locally heavy showers returned across parts of the nation's mid-section. Corpus Christi, TX, registered a daily-record total of 2.92 inches on November 1. The following day in Florida, Punta Gorda—with 3.49 inches—reported its wettest November day since November 16, 2002. On November 4, a severe weather outbreak produced as many as three dozen tornadoes across northeastern Texas, eastern Oklahoma, northwestern Louisiana, and western Arkansas. Two deaths—one in Texas and one in Oklahoma—represented the nation's first tornado-related fatalities since May 20. Daily-record rainfall totals on the 4th included 3.01 inches in Dallas-Ft. Worth, TX, and 2.43 inches in Kansas City, MO. The week ended with rain shifting into the Midwest and the lower Mississippi Valley; record-setting amounts for November 5 reached 2.45 inches in McComb, MS; 1.61 inches in Memphis, TN; and 1.34 inches in Rhinelander, WI. The Mississippi River in Memphis, with a stage near -7.0 feet on November 5, has risen approximately 3.8 feet since a record-low water level was established on October 17.

Cold, mostly dry weather blanketed much of Alaska. In southeastern Alaska, Ketchikan reported a daily-record low of 24°F on November 2. Meanwhile, Kotzebue began November with its first five sub-zero minima of the season, with low temperatures ranging from -1 to -7°F. Anchorage received 4.3 inches of snow on November 2-3, followed by its first single-digit temperature of the season (6°F) on November 6. Farther south, heavy rain developed in some of Hawaii's windward locations. On the Big Island, Hilo's November 1-5 rainfall totaled 9.44 inches, aided by a daily-record sum of 4.30 inches on the 3rd. However, warm, dry weather persisted in many leeward areas. In Kahului, Maui, where no measurable rain fell during the first 5 days of the month, daily-record highs included 92 and 93°F, respectively, on November 2 and 3. Honolulu, Oahu, also attained a daily-record high, reaching 89°F on October 31.

National Weather Data for Selected Cities

Weather Data for the Week Ending November 5, 2022

Data Provided by Climate Prediction Center

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	STATES						J		-1							J		_		
S	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
AK	ANCHORAGE BARROW	28 18	18 1	32 24	15 -14	23 9	-5 0	0.32 0.20	0.02 0.09	0.22 0.12	7.76 1.36	151 97	23.45 8.30	164 171	76 90	51 78	0	7 7	2	0
	FAIRBANKS	14	0	23	-14	7	-5	0.20	-0.07	0.12	2.27	101	6.85	65	81	69	0	7	2	0
	JUNEAU	38	30	43	23	34	-2	2.10	0.48	1.11	25.11	134	77.33	140	97	72	0	4	5	1
	KODIAK NOME	37 26	27 10	44 31	18 5	32 18	-6 -6	0.34	-1.52 -0.25	0.16 0.05	15.42 7.11	87 166	65.63 17.48	103 115	78 86	41 62	0	6 7	3	0
AL	BIRMINGHAM	73	57	79	50	65	-0 7	0.08	-0.23	0.05	4.49	56	42.92	89	90	54	0	0	2	0
	HUNTSVILLE	73	54	79	50	63	6	0.69	-0.16	0.39	6.17	80	43.65	97	96	58	0	0	2	0
	MOBILE	80	58	85	53	69	6	1.06	0.01	0.94	5.34	53	48.95	84	92	47	0	0	2	1
AR	MONTGOMERY FORT SMITH	77 74	53 51	81 80	48 47	65 62	4 5	0.26 1.92	-0.50 0.91	0.21 1.92	3.28 8.70	46 94	44.23 43.83	103 107	99 99	53 47	0	0	2	0
,	LITTLE ROCK	75	53	82	47	64	8	1.00	-0.05	0.87	3.84	46	36.45	88	90	48	0	0	3	1
AZ	FLAGSTAFF	54	25	61	13	40	-3	0.65	0.30	0.34	3.40	94	14.48	83	84	32	0	6	2	0
	PHOENIX PRESCOTT	75 60	53 34	83 68	45 25	64 47	-6 -5	0.00	-0.12 -0.09	0.00	1.72 3.59	140 162	3.59 10.53	59 93	53 72	21 29	0	0 4	0 1	0
	TUCSON	74	46	81	36	60	-7	0.00	-0.13	0.00	1.34	65	4.81	52	59	21	0	0	0	0
CA	BAKERSFIELD	66	47	75	41	57	-5	0.26	0.16	0.18	0.26	66	2.11	43	76	34	0	0	2	0
	EUREKA FRESNO	55 66	42 46	58 76	36 41	49 56	-4 -4	2.62 0.13	1.84 -0.06	1.30 0.12	3.22 0.19	90 26	17.26 1.28	61 15	94 81	81 36	0	0	4 2	2
	LOS ANGELES	69	56	76 75	50	62	-4	0.13	0.02	0.12	0.19	76	1.28	21	82	44	0	0	1	0
	REDDING	64	43	84	39	53	-4	0.92	0.32	0.44	1.83	65	6.72	27	83	39	0	0	3	0
	SACRAMENTO	65	43	77	36 48	54 62	-5 -3	0.14	-0.14	0.14 0.07	0.42	37	2.61 3.29	19	90 81	42 39	0	0	1 1	0
	SAN DIEGO SAN FRANCISCO	70 62	55 50	77 66	45	56	-3 -3	0.07 0.30	-0.07 -0.01	0.07	0.81 0.59	115 53	2.41	44 17	90	60	0	0	3	0
	STOCKTON	66	43	78	38	55	-5	0.27	0.02	0.22	0.33	34	1.93	19	88	40	0	0	2	0
CO	ALAMOSA	54	17	63	10	35	-1	0.03	-0.09	0.03	0.96	56	10.19	151	84	22	0	7	1	0
	CO SPRINGS DENVER INTL	61 63	33 33	71 75	22 22	47 48	2 4	0.00 0.19	-0.12 0.00	0.00 0.19	0.66 1.83	29 73	10.65 10.04	69 73	58 63	21 17	0	4	0 1	0
	GRAND JUNCTION	54	35	67	23	44	-1	0.19	0.00	0.19	4.53	196	7.86	98	86	41	0	1	1	0
	PUEBLO	68	29	78	20	49	3	0.00	-0.14	0.00	0.65	43	9.00	79	56	18	0	4	0	0
CT	BRIDGEPORT	66	47	73	36	56	6	0.20	-0.51	0.12	8.95	107	28.72	76	93	61	0	0	2	0
DC	HARTFORD WASHINGTON	71 73	43 53	78 79	28 40	57 63	10 8	0.11 0.15	-0.69 -0.61	0.11 0.15	11.18 4.52	118 55	38.20 34.00	95 94	92 94	41 53	0	0	1	0
DE	WILMINGTON	70	46	76	38	58	7	0.20	-0.52	0.20	7.12	83	33.37	85	96	56	0	0	1	0
FL	DAYTONA BEACH	83	69	87	67	76	6	0.84	0.16	0.60	13.29	106	40.32	86	97	63	0	0	4	1
	JACKSONVILLE KEY WEST	83 85	62 77	86 87	59 72	72 81	7 3	0.16 0.57	-0.26 -0.19	0.12 0.47	6.85 14.59	57 108	44.83 33.41	91 91	98 95	59 73	0	0	2	0
	MIAMI	88	76	90	73	82	5	0.20	-0.85	0.14	16.55	89	60.12	96	91	58	2	0	4	0
	ORLANDO	88	70	90	68	79	8	0.07	-0.42	0.07	24.20	237	55.76	117	96	50	3	0	1	0
	PENSACOLA TALLAHASSEE	80 84	62 58	84 86	56 55	71 71	6 7	0.84	-0.19 -0.62	0.54 0.00	3.65 1.50	30 17	53.78 49.46	90 95	94 93	52 46	0	0	2	1 0
	TAMPA	87	70	90	67	79	6	0.00	0.57	0.00	12.15	140	49.13	107	90	53	1	0	1	1
	WEST PALM BEACH	87	74	89	69	80	5	0.16	-0.81	0.12	12.67	87	41.26	74	88	59	0	0	3	0
GA	ATHENS	72 74	54	78 79	51 54	63 65	6 7	0.51 0.41	-0.28	0.22	4.09	52 34	33.97	82	97 92	62	0	0	3	0
	ATLANTA AUGUSTA	69	57 58	79	57	64	3	0.41	-0.44 -0.29	0.21 0.01	2.69 4.02	63	39.13 40.96	92 108	99	56 79	0	0	2	0
	COLUMBUS	77	56	82	51	67	5	0.15	-0.58	0.08	4.44	66	37.28	91	94	50	0	0	2	0
	MACON	79	52	83	47	65	6	0.12	-0.55	0.11	2.69	39	38.53	97	99	52	0	0	2	0
н	SAVANNAH HILO	79 82	58 69	83 84	51 68	69 76	6 1	0.07 12.03	-0.46 9.01	0.04 4.35	5.96 20.83	70 98	32.30 77.91	75 81	96 96	52 67	0	0	2 6	0 4
	HONOLULU	87	75	89	74	81	2	0.03	-0.48	0.02	1.24	44	10.30	83	82	53	0	0	2	0
	KAHULUI	90	74 75	93	69 72	82	4	0.00	-0.32	0.00	0.81	53 46	1.63 22.09	13	74 87	44 68	5	0	0	0
IA	LIHUE BURLINGTON	83 68	75 45	84 74	72 37	79 57	2 10	0.16 0.70	-0.69 0.11	0.09 0.57	2.82 7.72	46 109	22.09 24.12	78 70	87 91	68 49	0	0	3	0
	CEDAR RAPIDS	67	43	76	35	55	11	2.28	1.74	1.80	5.01	75	21.28	65	88	48	0	0	2	1
	DES MOINES	66	44	77	38	55	10	2.50	1.98	1.63	5.31	83	27.31	81	84	45	0	0	2	2
	DUBUQUE SIOUX CITY	67 66	41 35	74 78	35 23	54 50	12 8	1.98 0.08	1.40 -0.24	1.59 0.08	3.56 1.31	49 24	26.15 12.43	75 45	90 86	52 38	0	0	2	1
	WATERLOO	67	41	76	32	54	10	2.20	1.69	1.13	4.69	74	31.72	95	85	48	0	1	2	2
ID	BOISE	55	34	69	27	44	-1	0.81	0.57	0.48	1.76	124	7.31	81	85	38	0	1	4	0
	LEWISTON POCATELLO	53 52	40 29	58 63	35 22	47 40	1 0	1.57 0.34	1.28 0.13	0.60 0.19	4.04 2.05	214 101	13.67 9.33	127 94	84 80	53 39	0	0 6	6	2
IL	CHICAGO/O HARE	68	49	73	43	58	11	0.34	-0.33	0.19	4.08	57	9.33 27.71	94 82	88	53	0	0	4	0
	MOLINE	71	46	77	35	59	12	1.79	1.20	1.51	6.32	96	28.87	84	92	44	0	0	3	1
	PEORIA	69	47	78 72	39	58	10	1.34	0.65	0.55	3.17	44	22.56	68	91	49	0	0	4	1
	ROCKFORD SPRINGFIELD	68 69	43 46	73 79	36 39	56 58	11 9	1.05 1.75	0.48 1.07	0.67 0.89	8.43 7.52	126 113	36.24 30.04	108 89	93 93	50 55	0	0	2 4	1 2
IN	EVANSVILLE	72	50	79	45	61	9	0.98	0.08	0.52	7.75	105	40.21	98	94	52	0	0	3	1
	FORT WAYNE	69	44	75	36	56	10	0.31	-0.35	0.17	3.68	56	28.46	82	91	54	0	0	4	0
	INDIANAPOLIS SOUTH BEND	67 68	49 46	76 74	46 38	58 57	10 12	0.33 0.56	-0.47 -0.16	0.14 0.27	3.59 6.35	51 82	30.04 29.56	79 85	92 90	54 53	0	0	3	0
KS	CONCORDIA	69	44	81	32	56	8	0.73	0.43	0.27	3.72	74	20.09	76	76	39	0	1	1	1
	DODGE CITY	68	40	78	31	54	5	0.05	-0.24	0.05	2.71	76	10.94	53	75	34	0	2	1	0
	GOODLAND TOPEKA	62 73	31 46	76 82	22 38	47 59	2 10	0.01 2.17	-0.19 1.69	0.01 1.68	0.76 4.63	25 69	10.10 29.35	55 87	95 84	56 41	0	3	1 2	0
	. OI LIKA	13	40	02	50	J	IU	4.17	1.08	1.00	+.∪∂	υð	23.00	07	04	41	v	U		- 1

Based on 1991-2020 normals

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending November 5, 2022

		Weather Data for the Week Ending November 5, 2022									OF D	AYS								
		1	ГЕМЕ	PERA	TUR	E °	F			PREC	CIPITA	ATION	l		HUM	IDITY		IP. °F		CIP
	STATES		ı												PER	CENT				
S	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
KY	WICHITA LEXINGTON	71 71	46 52	79 76	34 42	58 61	6 10	2.37 0.44	1.96 -0.34	2.25 0.44	3.81 2.44	61 32	27.98 37.79	87 88	86 88	45 51	0	0	2	1 0
	LOUISVILLE	71	54	79	48	62	9	0.93	0.15	0.72	3.61	45	34.96	84	91	55	0	0	3	1
LA	PADUCAH BATON ROUGE	74 80	52 56	81 86	44 54	63 68	10 5	1.25 1.50	0.34 0.50	0.90 1.44	3.42 2.74	41 27	36.67 35.45	86 66	89 97	49 49	0	0	2 2	1
	LAKE CHARLES	77	57	83	51	67	2	1.70	0.69	1.56	4.81	45	28.63	55	98	59	0	0	3	1
	NEW ORLEANS SHREVEPORT	78 76	61 55	84 84	55 50	70 65	3 4	1.47 0.00	0.55 -1.00	1.46 0.00	4.76 2.36	50 27	42.07 37.74	76 87	96 92	58 52	0	0	2	1 0
MA	BOSTON	68	49	77	39	58	9	0.04	-0.81	0.04	6.87	84	23.83	65	96	54	0	0	1	0
	WORCESTER	67	49	73	43	58	13	0.04	-0.93	0.04	10.64	109	38.11	93	88	45	0	0	1	0
MD ME	BALTIMORE CARIBOU	71 63	48 36	80 73	36 29	59 50	8 11	0.10 0.00	-0.70 -0.84	0.10 0.00	7.96 6.20	89 77	39.32 34.15	101 99	95 83	55 36	0	0 2	1	0
	PORTLAND	64	40	75	30	52	8	0.00	-1.09	0.00	11.94	122	45.96	114	93	48	0	2	0	0
MI	ALPENA GRAND RAPIDS	68 65	38 45	72 71	27 36	53 55	12 10	0.79 0.24	0.21 -0.61	0.66 0.11	5.58 5.12	89 63	26.19 31.23	100 90	98 91	43 56	0	3	2	1 0
Ī	HOUGHTON LAKE	65	38	69	27	51	11	1.06	0.45	0.77	5.48	89	23.96	94	96	46	0	3	2	1
	LANSING	67 68	45 46	71 71	35 36	56 57	11	0.40	-0.25	0.29	4.08	63	30.61	104	88 87	54 51	0	0	3	0
Ī	MUSKEGON TRAVERSE CITY	68 68	46 43	71 75	36 33	57 55	11 12	0.70 1.92	-0.10 1.27	0.44 1.06	7.68 11.54	100 155	29.81 27.58	98 108	87 88	51 42	0	0	3 2	0 2
MN	DULUTH	59	34	71	28	46	10	0.03	-0.50	0.03	3.52	52	26.07	92	86	42	0	4	1	0
	INT_L FALLS MINNEAPOLIS	56 62	26 41	71 76	15 32	41 51	8 10	0.13 0.25	-0.28 -0.17	0.12 0.16	3.15 0.73	57 12	29.85 18.55	128 63	91 82	44 43	0	5 1	2	0
	ROCHESTER	60	39	72	32	49	9	0.45	-0.01	0.30	2.11	33	32.13	100	85	54	0	1	3	0
	ST. CLOUD	62	32	75	23	47	9	0.04	-0.37	0.04	2.34	39	21.10	79	89	40	0	5	1	0
МО	COLUMBIA KANSAS CITY	73 71	50 48	81 80	41 38	61 60	11 11	1.48 2.70	0.81 2.18	1.02 2.43	5.94 5.22	76 68	30.26 31.38	81 86	87 78	43 44	0	0	4 2	1
	SAINT LOUIS	72	52	83	44	62	10	2.00	1.20	0.93	6.41	95	45.07	123	87	50	0	0	4	2
MC	SPRINGFIELD JACKSON	70 76	48 53	79 83	41 48	59 65	7 5	1.43 1.98	0.53 1.03	1.36 1.98	5.97 3.76	69 47	36.52 50.43	93 104	91 97	49 55	0	0	3	1
MS	MERIDIAN	75	55	80	49	65	5	1.00	0.06	0.91	5.50	71	45.83	96	97	56	0	0	2	1
	TUPELO	76	55	81	48	65	8	1.48	0.62	1.15	5.50	67	41.52	86	87	47	0	0	2	1
МТ	BILLINGS BUTTE	56 48	33 26	67 59	26 17	44 37	3 4	0.03 0.24	-0.14 0.09	0.03 0.16	1.84 2.31	64 114	13.56 8.87	102 75	68 81	27 35	0	5 5	1 2	0
	CUT BANK	45	27	57	10	36	1	0.01	-0.10	0.01	1.06	61	7.57	74	83	53	0	5	1	0
	GLASGOW GREAT FALLS	54 51	31 29	67 67	23 18	42 40	6 2	0.01 0.18	-0.13 0.00	0.01 0.10	1.76 4.09	84 161	7.92 12.39	62 90	80 83	40 44	0	5 4	1 2	0
	HAVRE	54	31	66	20	42	7	0.16	-0.02	0.10	1.89	99	8.41	76	80	44	0	4	2	0
	MISSOULA	51	32	62	21	41	4	0.40	0.12	0.31	2.08	88	8.44	70	88	50	0	4	3	0
NC	ASHEVILLE CHARLOTTE	65 72	46 55	69 80	40 50	56 63	4 8	0.59 0.79	-0.20 0.07	0.34 0.45	5.05 5.75	62 77	38.53 32.65	91 87	100 96	64 58	0	0	4	0
	GREENSBORO	70	54	79	50	62	8	0.26	-0.50	0.23	6.72	81	37.78	99	95	58	0	0	2	0
	HATTERAS	74 74	63	78	59 53	69 65	6 10	0.94 0.51	-0.16 -0.23	0.91 0.43	4.59	32 66	37.17 35.93	70 90	96 93	72 53	0	0	3 2	1 0
	RALEIGH WILMINGTON	74 78	56 58	83 83	53 53	68	8	0.02	-0.23 -0.74	0.43	6.06 5.62	40	35.93	90 67	96	59	0	0	2	0
ND	BISMARCK	60	28	77	14	44	8	0.01	-0.20	0.01	1.43	43	24.41	136	82	29	0	6	1	0
	DICKINSON FARGO	59 57	29 29	73 70	16 19	44	8 7	0.00	-0.17 -0.30	0.00	0.27 0.64	9 12	13.81 17.91	91 80	73 80	28 37	0	6	0	0
	GRAND FORKS	57	27	69	16	42	8	0.00	-0.30	0.00	0.71	16	20.45	100	84	36	0	6	0	0
NE	JAMESTOWN GRAND ISLAND	60 67	30 37	75 78	19 24	45 52	10 7	0.00 0.15	-0.20 -0.13	0.00 0.14	0.81 1.37	21 32	14.61 11.57	76 46	78 83	31 34	0	5 2	0 2	0
INC	LINCOLN	69	38	79	26	54	8	0.13	-0.13	0.14	1.76	33	18.23	67	79	36	0	2	1	0
	NORFOLK NORTH PLATTE	66 67	34	78 70	20	50 46	7	0.07	-0.23	0.04	2.18	46 46	12.10	48 61	83	35 36	0	3	2	0
	OMAHA	67 66	26 39	79 78	18 29	46 53	4 6	0.17 0.47	-0.02 0.08	0.16 0.47	1.57 2.52	46 45	12.38 20.48	61 69	82 82	26 43	0	6 1	2	0
	SCOTTSBLUFF	64	26	76	16	44	2	0.24	0.04	0.24	1.41	54	8.02	54	76	24	0	6	1	0
NH	VALENTINE CONCORD	65 70	24 35	79 78	15 26	44 52	3 9	0.00 0.01	-0.17 -0.87	0.00 0.01	0.21 6.72	6 77	9.66 30.91	48 87	81 97	23 37	0	6 5	0	0
NJ	ATLANTIC_CITY	71	47	76	39	59	8	0.27	-0.60	0.23	11.44	138	45.49	117	97	53	0	0	2	0
NIN4	NEWARK	71 62	50 35	79 67	37	61	9	0.17	-0.60 0.11	0.11 0.04	8.25	101	31.19	78 102	87 67	45 23	0	0	2	0
NM NV	ALBUQUERQUE ELY	62 52	35 24	67 62	29 12	48 38	-3 -2	0.04 0.18	-0.11 0.00	0.04	1.81 2.10	85 134	8.06 5.81	102 70	67 83	23 32	0	2 6	1	0
	LAS VEGAS	68	49	79	43	59	-5	0.03	-0.03	0.03	0.50	73	1.63	47	38	17	0	0	1	0
	RENO WINNEMUCCA	57 55	32 29	67 65	28 20	45 42	-4 -2	0.09 0.13	-0.02 -0.06	0.05 0.07	0.35 0.53	44 45	2.76 3.31	48 49	73 79	29 32	0	5 6	2	0
NY	ALBANY	69	43	76	28	56	11	0.01	-0.73	0.01	8.47	104	37.91	108	89	42	0	1	1	0
	BINGHAMTON	63 67	44 47	67 70	30	54 57	11	0.01	-0.77 0.58	0.01	9.17	110	35.41	97	93	51 51	0	1	1	0
	BUFFALO ROCHESTER	67 68	47 42	79 77	37 30	57 55	11 8	0.27 0.01	-0.58 -0.70	0.22 0.01	7.81 4.01	89 58	30.07 22.99	88 76	89 90	51 50	0	0	3 1	0
	SYRACUSE	69	44	77	30	57	12	0.00	-0.83	0.00	4.96	63	28.24	83	82	44	0	1	0	0
ОН	AKRON-CANTON CINCINNATI	68 69	49 52	78 75	40 48	58 60	11 11	0.07 0.46	-0.69 -0.31	0.04 0.40	5.20 2.92	70 41	32.18 39.92	89 102	88 95	57 60	0	0	2	0
Ī	CLEVELAND	69	48	77	38	59	10	0.14	-0.70	0.14	6.63	81	35.39	100	84	50	0	0	1	0
Ī	COLUMBUS	68 69	48 50	77 75	39 43	58 50	10 10	0.21	-0.46 -0.39	0.14	3.72	57 45	37.96 32.37	105 90	93 80	58 54	0	0	2	0
	DAYTON MANSFIELD	69 67	50 46	75 75	43 38	59 57	10 10	0.32 0.17	-0.39 -0.59	0.21 0.07	3.05 7.17	45 101	32.37 38.65	104	89 92	54 57	0	0	3	0
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Based on 1991-2020 normals *** Not Available Weekly Weather and Crop Bulletin
Weather Data for the Week Ending November 5, 2022

						Jac	relative Number 5, 2022						/IBER	IBER OF DAYS						
	STATES	٦	ΓEMF	PERA	TUR	Ε°	F			PREC	CIPITA	ATION	l		HUM	IDITY CENT		IP. °F	PRE	
8	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	70 65	46 46	76 79	37 36	58 56	10 9	0.34 0.22	-0.25 -0.54	0.22 0.11	3.67 4.77	61 61	35.52 36.60	117 102	89 91	51 63	0	0	2	0
ОК	OKLAHOMA CITY	69	44	76	33	57	3	0.08	-0.46	0.08	3.98	53	20.72	62	97	54	0	0	1	0
OR	TULSA ASTORIA	73 53	49 42	79 57	41 35	61 47	6 -2	1.12 7.41	0.32 5.26	1.01 4.42	4.83 10.99	59 100	29.18 52.64	80 105	89 95	45 75	0	0	2 7	1 4
0.1	BURNS	52	22	68	6	37	-2	0.33	0.13	0.20	0.65	50	4.96	61	86	41	0	7	4	0
	EUGENE	55	42	63	33	49	0	2.85	1.82	0.94	3.79	71	22.49	79	96	70	0	0	5	3
	MEDFORD PENDLETON	55 55	40 39	67 62	36 33	47 47	-2 3	1.04 1.48	0.59 1.17	0.66 0.97	2.04 2.56	100 139	9.20 13.51	72 132	98 86	60 57	0	0	4 5	1
	PORTLAND	55	46	60	41	51	0	3.17	2.12	1.84	5.63	98	28.50	107	89	68	0	0	6	2
	SALEM	55	44	60	39	49	0	2.70	1.63	1.55	4.24	74	28.50	102	95	69	0	0	6	1
PA	ALLENTOWN ERIE	68 66	41 48	75 78	28 39	54 57	6 9	0.31 0.18	-0.41 -0.74	0.24 0.08	8.65 13.15	91 140	38.73 39.37	95 110	93 87	49 59	0	1	2	0
	MIDDLETOWN	69	46	77	33	58	8	0.39	-0.31	0.37	7.56	82	33.75	88	94	53	0	0	2	0
	PHILADELPHIA	71	49	78	40	60	8	0.21	-0.47	0.19	7.90	94	31.92	84	98	51	0	0	2	0
	PITTSBURGH WILKES-BARRE	66 68	46 46	79 75	36 30	56 57	8 9	0.31 0.71	-0.37 0.00	0.26 0.59	5.33 9.06	80 108	31.80 34.72	92 103	94 93	59 51	0	0	3 2	0
	WILLIAMSPORT	67	42	74	28	54	8	0.19	-0.54	0.15	7.81	87	30.64	81	96	54	0	1	2	0
RI	PROVIDENCE	68	44	75	32	56	7	0.04	-0.86	0.04	11.66	129	35.93	91	97	53	0	1	1	0
SC	CHARLESTON COLUMBIA	79 75	59 55	84 84	56 48	69 65	7 7	0.05 0.28	-0.59 -0.30	0.01 0.19	8.59 4.28	79 57	43.79 34.22	93 87	95 98	55 60	0	0	4	0
	FLORENCE	77	57	84	55	67	8	0.33	-0.26	0.31	4.90	59	31.68	80	97	54	0	0	2	0
0.0	GREENVILLE	68	53	75	49	61	5	2.38	1.59	1.18	7.83	99	43.54	104	95	67	0	0	3	2
SD	ABERDEEN HURON	61 62	26 30	75 73	10 16	44 46	6 6	0.00 0.01	-0.26 -0.24	0.00 0.01	0.19 0.46	4 10	17.09 14.20	82 64	85 87	32 34	0	5 5	0	0
	RAPID CITY	62	28	75	18	45	5	0.00	-0.16	0.00	0.89	32	14.72	88	74	25	0	5	0	0
	SIOUX FALLS	65	33	78	20	49	8	0.24	-0.08	0.24	2.41	45	21.15	81	80	36	0	5	1	0
TN	BRISTOL CHATTANOOGA	72 73	48 53	79 77	42 49	60 63	9 7	0.23 0.60	-0.40 -0.31	0.10 0.57	3.84 4.62	66 54	34.63 42.85	92 93	93 93	52 53	0	0	3 2	0
	KNOXVILLE	73	52	81	48	62	9	1.01	0.23	0.52	4.30	62	42.32	97	94	54	0	0	3	1
	MEMPHIS	74	55	79	49	64	7	1.65	0.71	1.61	8.23	107	45.30	99	93	54	0	0	3	1
TX	NASHVILLE ABILENE	73 77	56 50	80 82	47 37	64 64	9	0.79 0.03	0.01 -0.47	0.39 0.03	2.62 4.90	33 83	42.61 12.50	99 54	85 86	50 37	0	0	4 1	0
	AMARILLO	70	41	77	28	56	3	0.16	-0.10	0.16	4.40	122	15.61	84	91	35	0	2	1	0
	AUSTIN	78	58 60	86	50	68	2	0.56	-0.24	0.50	3.14	39	15.52	49	94 99	47	0	0	3	1
	BEAUMONT BROWNSVILLE	77 84	69	82 90	52 54	68 77	3	1.62 1.78	0.60 1.23	1.30 1.42	7.04 7.17	54 72	36.80 23.01	68 95	99	66 61	0	0	4	1
	CORPUS CHRISTI	79	63	84	51	71	1	3.26	2.66	2.91	5.39	60	21.16	75	97	66	0	0	3	1
	DEL RIO EL PASO	76 73	55 45	81 79	43 37	66 59	-1 -1	0.02 0.00	-0.25 -0.11	0.02 0.00	1.35 3.54	27 161	5.60 9.14	30 116	90 55	49 18	0	0	1	0
	FORT WORTH	76	54	80	44	65	4	3.00	2.15	3.00	7.70	100	33.87	105	89	49	0	0	1	1
	GALVESTON	77	65	83	59	71	1	1.20	0.12	0.60	5.55	44	27.42	69	92	66	0	0	3	2
	HOUSTON LUBBOCK	77 72	58 44	85 78	53 34	68 58	2	0.27 0.02	-0.78 -0.24	0.14 0.02	2.83 3.19	26 74	31.92 12.78	71 75	99 92	61 35	0	0	2	0
	MIDLAND	72	46	77	38	59	0	0.02	-0.24	0.02	2.10	69	7.94	64	92	37	0	0	0	0
	SAN ANGELO	76	50	81	40	63	2	0.00	-0.39	0.00	4.08	78	9.80	51	83	36	0	0	0	0
	SAN ANTONIO VICTORIA	80 80	59 60	88 88	50 50	69 70	4	0.03 1.61	-0.63 0.91	0.02 1.55	2.00 4.17	24 46	9.00 18.39	31 51	87 97	37 58	0	0	2	0
	WACO	78	53	85	47	66	4	0.65	-0.18	0.65	3.86	49	15.09	48	95	49	0	0	1	1
	WICHITA FALLS	77	48	82	36	62	5	0.03	-0.45	0.03	3.85	62	15.48	61	92	41	0	0	1	0
UT VA	SALT LAKE CITY LYNCHBURG	55 71	36 51	67 80	29 40	46 61	-1 10	0.63 0.58	0.33 -0.18	0.46 0.32	2.20 3.46	86 45	8.45 36.06	65 99	80 92	32 49	0	2	2	0
1	NORFOLK	71	57	80	51	64	7	0.27	-0.10	0.24	6.04	61	29.97	69	98	72	0	0	2	0
	RICHMOND	74	52	80	40	63	9	0.14	-0.57	0.14	3.55	41	30.75	78 100	96	52 57	0	0	1	0
	ROANOKE WASH/DULLES	68 72	53 47	76 81	48 31	60 59	8 9	0.40 0.18	-0.24 -0.59	0.26 0.18	7.42 5.43	99 66	37.17 32.41	100 86	92 95	57 50	0	0	3	0
VT	BURLINGTON	66	43	74	31	54	10	0.02	-0.70	0.02	8.68	108	32.21	98	86	41	0	1	1	0
WA	OLYMPIA	51 51	39	57 56	33	45	-1 1	5.26	3.59	3.41	7.22	86	39.06	109	98	74 77	0	0	7	2
	QUILLAYUTE SEATTLE-TACOMA	51 51	40 43	56 57	34 37	46 47	-1 -2	7.06 1.59	3.80 0.29	3.26 0.81	12.95 3.40	73 52	72.72 28.12	97 99	100 90	77 65	0	0	7 5	3 1
	SPOKANE	48	36	55	30	42	1	1.47	1.05	0.80	2.49	110	11.90	96	91	65	0	3	5	2
\\/\/1	YAKIMA	55 64	34	64 75	22	44 51	2	0.06	-0.12 0.15	0.03	0.48	47 57	4.48	76 62	87	48 52	0	2	3	0
WI	EAU CLAIRE GREEN BAY	64 68	39 42	75 75	30 36	51 55	12 13	0.61 1.67	0.15 1.16	0.52 0.89	3.69 6.28	57 100	18.80 29.06	62 102	89 86	52 49	0	3 0	2	1 2
	LA CROSSE	66	43	76	34	55	10	1.57	1.11	0.88	3.30	51	24.36	75	86	48	0	0	2	2
	MADISON	67	40	72	33	54	11	2.10	1.51	1.49	6.87	103	32.27	95	90	46	0	0	2	2
wv	MILWAUKEE BECKLEY	67 64	46 50	72 73	39 45	57 57	11 9	0.66 0.69	0.08 0.06	0.39 0.52	8.39 6.70	132 105	31.51 42.48	102 112	88 95	50 66	0	0	3	0
1	CHARLESTON	73	48	83	40	60	10	0.60	-0.09	0.52	3.18	46	48.88	122	96	53	0	0	2	1
	ELKINS	69	43	74	28	56	9	0.43	-0.23	0.32	5.47	77	48.37	117	92	56 50	0	1	2	0
WY	HUNTINGTON CASPER	73 52	50 25	82 63	43 12	62 39	10 0	0.36 0.33	-0.30 0.15	0.19 0.32	2.56 1.40	38 62	39.22 11.62	100 104	89 74	50 39	0	0 5	2	0
	CHEYENNE	55	29	66	11	42	1	0.18	0.01	0.18	1.36	52	7.87	54	64	26	0	3	1	0
	LANDER SHERIDAN	54 56	26 24	66 69	15 11	40 40	2	0.35 0.41	0.14 0.20	0.35 0.26	2.18 3.61	86 113	11.59 17.07	96 123	73 83	31 32	0	6 7	1 2	0
1	SHERIDAN	50	∠+	υJ	- ' '	70		J.71	J.2U	0.20	0.01	110	11.01	120	υJ	υZ	Ŭ			5

Based on 1991-2020 normals

*** Not Available

October Weather Summary

Weather

Weather summary provided by USDA/WAOB

Highlights: In nearly all areas of the country, summer crop harvesting during October advanced at a torrid pace, amid frequently drier-than-normal conditions. By October 30, the U.S. rice harvest (97 percent complete) was nearly done, while progress had advanced beyond the three-quarters mark for sugarbeets (89 percent), soybeans (88 percent), peanuts (79 percent), sorghum (77 percent), and corn (76 percent). Except for rice, on par with the normal pace, all those harvest numbers were ahead of the respective 5-year averages. Meanwhile, winter wheat seeding progressed roughly on schedule (87 percent planted by October 30, versus the 5year average of 85 percent), although emergence was hampered in some areas by lack of moisture and October freezes. Near the end of October, wheat emergence lagged the average pace by 7 to 32 percentage points in eight states—four on the Great Plains and four from the mid-South into the lower Midwest.

Cooler-than-normal October weather dominated areas from the middle and lower Mississippi Valley to the middle and southern Atlantic States. Southeastern monthly temperatures broadly averaged 2 to 4°F below normal. The chilliest weather arrived in two separate waves, about 10 days apart, in early to mid-October, with the latter cold snap resulting in freezes deep into the Gulf Coast States, including portions of Louisiana, Mississippi, Alabama, and northern Florida. In places where freezes occurred, the combination of dry weather and cold conditions curtailed pasture growth and limited winter wheat establishment. The cold weather also nipped a few immature summer crops, including doublecropped, late-planted soybeans. On October 9, about the time of the first round of freezes into the Ohio and Tennessee Valleys, 91 percent of the U.S. soybeans were dropping Those numbers were lower in states such as Kentucky (70 percent dropping leaves) and Tennessee (85 percent), although temperatures were only marginally low enough in those areas to cause freeze injury. In contrast, monthly temperatures averaged 4 to 8°F above normal in parts of the Northwest. It was the warmest October on record in Washington locations such as Omak (57.1°F, or 8.0°F above normal) and Spokane (55.0°F, or 7.1°F above normal).

Following the nation's driest September since 1956, drier-than-normal weather continued to dominate many parts of the country in October. Among the areas receiving above-normal October precipitation were the northern Atlantic region and a swath from southeastern California to western Texas. A late-month storm system delivered much-needed moisture from the southern Plains to the Great Lakes region. Periods of beneficial precipitation also occurred from the Pacific Northwest to Montana and western North Dakota.

Even with spotty precipitation, U.S. topsoil moisture rated very short to short peaked on October 23 at 68 percent. By October 30, very short to short ratings at or above 70 percent were observed in a dozen states from the Rockies and Plains into the Southeast, led by Oklahoma (91 percent) and Kansas (89 percent). This year's dry autumn, superimposed on long-term drought, lowered river levels in the Mississippi River basin. During October record-low water levels were observed on the Mississippi River from New Madrid, MO, downstream to Greenville, MS. Previous record lows had been mostly set in July 1988 or August 2012, although Greenville's low-water mark had been established on January 4, 1964. The reduced water levels restricted barge traffic on the nation's busiest inland waterway and necessitated dredging operations to widen and deepen the river channel.

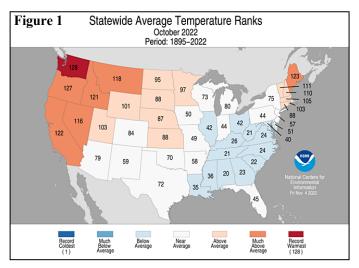
Contiguous U.S. drought coverage stood at 62.95 percent on October 25 and 62.78 percent on November 1, up from a recent minimum of 44.02 percent on September 6, according to the *U.S. Drought Monitor*. Moderate to exceptional drought (D1 to D4) coverage was last higher in 2012, when coverage peaked at 65.45 percent on September 25. U.S. drought coverage was last below 40 percent more than 2 years ago, on September 22, 2020. Finally, coverage of abnormal dryness (D0) and drought (D1 to D4) grew to a 21st century record of 85.28 percent by November 1, surpassing 80.76 percent on July 17, 2012.

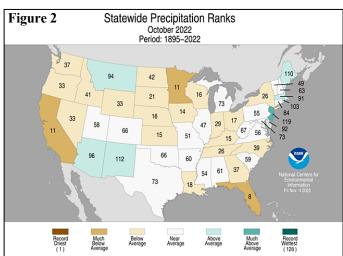
As the month progressed, Northwestern precipitation helped to tamp down dozens of previously active wildfires. Still, by late October, U.S. wildfires had burned more than 7.2 million acres of vegetation, well above the 10-year average of 6.7 million acres. January-October U.S. wildfires have charred more than 7 million acres in 5 of the last 8 years. Meanwhile, the Atlantic tropical basin turned relatively quiet again, following the early-month departure of Hurricane Named Atlantic tropical cyclones that Ian's remnants. formed during October were Julia, Karl, and Lisa—all three remained well south of the U.S. Julia, a hurricane, made landfall on October 9 in Nicaragua. Karl, a tropical storm, meandered in the southern Gulf of Mexico for more than 3 days before dissipating on October 15. Lisa, named on October 31, reached hurricane intensity on November 2, shortly before making landfall in Belize.

Historical Perspective: According to preliminary data provided by the National Centers for Environmental Information, the contiguous U.S. experienced its 29th-warmest, 22nd-driest October during the 128-year period of record. The nation's monthly average temperature of 55.3°F was 1.2°F above the 20th century mean, while precipitation averaged 1.66 inches—just 77 percent of normal. It was the nation's driest October since 1999. Combined with unusually dry weather the preceding month, September-October

precipitation across the Lower 48 States averaged just 3.51 inches (75 percent of the 1901-2000 mean). It was the nation's driest September-October period since 1987.

During October, state temperature rankings ranged from 20th coolest in Alabama to the warmest on record in Washington. The previous warmest October in Washington had occurred in 2015. Top-ten rankings for October warmth were noted in Maine and several Western States, including California, Idaho, and Oregon (figure 1). Meanwhile, state precipitation rankings ranged from the eighth-driest October in Florida to the tenth-wettest October in New Jersey (figure 2). Those numbers in part reflected the departure of Hurricane Ian from Florida before September ended, along with lingering tropical showers along the middle Atlantic Coast in early October.





Summary: In the wake of Hurricane Ian, the Saint Johns River—Florida's longest river—rose to a record-high level on October 1 in Astor, cresting 2.41 feet above flood stage. Astor's previous high-water mark had been established during the active hurricane season of 1933, when the river crested 2.32 feet above flood stage on October 27. Record-shattering crests were also set along many other waterways, including the Myakka River at Myakka River State Park

(5.73 feet above flood stage on October 1) and the Peace River at Zolfo Springs (11.24 feet above flood stage on September 29). The water level in Zolfo Springs also smashed a 1933 record (9.05 feet above flood stage). Farther north, daily-record totals for September 30 topped 5 inches in Cape Hatteras, NC (5.92 inches), and Charleston, SC (5.57 inches)—and exceeded 3 inches in North Myrtle Beach, SC (3.41 inches), and Raleigh-Durham, NC (3.35 inches). By October 1, daily-record amounts of 2 inches or greater occurred in West Virginia locations such as Beckley (2.29 inches) and Parkersburg (2.06 inches). As Ian's remnants interacted with a non-tropical disturbance and a high-pressure system, record-setting rainfall amounts for October 2 included 1.99 inches in Philadelphia, PA, and 3.45 inches at New Jersey's Atlantic City Marina. October 1-3 rainfall at the Atlantic City Marina totaled 5.94 inches. As heavy rain shifted northward, daily-record amounts for October 4 topped the 2-inch mark in Pennsylvania locations such as Mount Pocono (2.21 inches) and Allentown (2.08 inches). Elsewhere on the 4th, daily records totaled 1.77 inches at both Newark, NJ, and New York's LaGuardia Airport. The heavy-rain event shifted into southern New England and finally wound down on October 5, when Hartford, CT, collected a daily-record sum of 2.17 inches. Back in Florida, remarkably quiet weather in early October allowed hurricane search and recovery efforts to progress in Ian's hardest-hit

During the first full week of October, chilly air settled across the Midwest and Northeast. Soon, frost extended as far south as the Tennessee Valley and the mid-Atlantic. Daily-record lows for October 3 dipped to 24°F in Houlton, ME, and 25°F in Massena, NY. Later, on the 7th, another surge of cold air resulted in a record-tying low of 20°F in Grand Forks, ND. By Sunday, October 9, daily-record lows in Kentucky plunged to 30°F in Frankfort and 31°F in Lexington, while Parkersburg, WV (32°F), noted its first of two records. In contrast, record-breaking warmth developed in early October across the Pacific Northwest. By the 2nd, daily-record highs in western Washington soared to 83°F in Olympia and 80°F in Seattle. Troutdale, OR, posted a daily-record high of 88°F on October 2, followed by consecutive records (86 and 85°F, respectively) on October 8-9. Farther south, Montague, CA, tallied a trio of daily-record highs (92, 91, and 91°F) from October 6-8.

By mid-month, chilly weather and snow showers engulfed portions of the Great Lakes States. On October 14, high temperatures peaked at 34°F in Wisconsin locations such as Antigo, Stevens Point, Merrill, and Rhinelander. In addition, Rhinelander received a daily-record snowfall of 2.0 inches on the 14th. Duluth, MN, also measured 2.0 inches of snow on that date, helping to boost its October 14-16 sum to 5.1 inches. Elsewhere, record-setting snowfall totals for October 14 included 0.4 inch in Minneapolis-St. Paul, MN, and 0.3 inches in Eau Claire, WI. In contrast, record-setting warmth continued to dominate the Northwest. From October 8-10, Dallesport, WA, tallied a trio of daily-record highs (88, 87, and 88°F). Similarly, Portland, OR, posted a pair of daily-

record highs (87 and 85°F, respectively) on October 8-9, followed by another five consecutive records (80, 84, 82, 87, and 86°F) from October 12-16. In addition, Portland recorded maxima of 80°F or higher on 12 of the first 16 days of the month, breaking the October record of 6 days, set in 1952, 1980, and 1991. Portland had to wait until October 21 for its first measurable precipitation of the month—but logged 3.18 inches after rain began to fall. Farther south, Red Bluff, CA, logged a daily-record high of 100°F on October 12. Late-season warmth also lingered in the Deep South, where Fort Myers, FL (94°F on the 11th), notched a daily-record high. In Texas, Waco's high of 100°F on October 12 marked the latest triple-digit heat on record in that location (previously, 100°F on October 4, 1983). Back in the Northwest, Salem, OR (92°F on the 15th), came within 1°F of its highest October reading on record (93°F on October 3, 1932, and October 2, 1970). Prior to this year, Salem's latest 90-degree reading had occurred on October 10, 1934.

Mid-month rainfall intensified in a few areas, starting in the central Gulf Coast States. In Mississippi, record-setting rainfall totals for October 12 included 3.18 inches in Meridian and 1.89 inches in Gulfport. Showers soon swept into the East; daily-record totals for the 13th included 1.57 inches in Allentown, PA, and 1.41 inches on St. Simons Island, GA. Rain lingered in New England, particularly across Maine. Bangor, ME, received exactly 5 inches of rain on October 14-15, aided by a daily-record sum of 3.20 inches on the latter date. Elsewhere in Maine, October 13-15 rainfall totaled 3.33 inches in Augusta, 3.32 inches in Millinocket, and 3.27 inches in Portland. Later, showers developed over the southwestern and south-central U.S. Phoenix, AZ, received a 2-day (October 15-16) total of 0.94 inch. Daily-record amounts for October 15 reached 0.28 inch in Winslow, AZ, and 0.15 inch in Barstow-Daggett, CA. Meanwhile, the Mississippi River fell to record-low levels in mid-October at several gauge sites between New Madrid, MO, and Greenville, MS. In Missouri, stages of -5.51 feet (on the 15th) in New Madrid and -1.82 feet (on the 16th) in Caruthersville broke records set on August 30, 2012. Farther downstream, the gauge in Osceola, AR, recorded a stage of -11.66 feet on October 17, more than a foot below the record set on July 11, 1988. The Mississippi River at Memphis, TN, also edged a July 1988 standard, falling to a stage of -10.79 feet on October 17. Meanwhile, the Ohio River at Cairo, IL (4.88 feet on October 17), fell to its lowest level since 1901.

At the tail end of the Northwestern warm spell, a trio of daily-record highs occurred from October 15-17 in Washington locations such as Ephrata (80, 80, and 79°F) and Yakima (80, 79, and 77°F). Late-season heat extended into northern California, where Montague posted a pair of daily-record highs (89 and 87°F, respectively) on October 15-16. Elsewhere on the 16th, daily-record highs soared to 88°F in Medford, OR, and Seattle, WA. With a high of 100°F on October 19, Red Bluff, CA, observed its latest triple-digit heat on record (previously, 100°F on October 16, 1988). In southern California, daily-record highs for the 19th soared to 99°F in Anaheim and 98°F in Chula Vista. Meanwhile, heat

also lingered in the western Gulf Coast region, where Brownsville, TX, logged consecutive daily-record highs (94 and 95°F, respectively) on October 16-17. The remainder of the central and eastern U.S. turned sharply colder, with Watertown, SD, measuring a daily-record low of 13°F on October 17. Record-setting lows in South Dakota for the 18th included 9°F in Huron, 10°F in Watertown, and 12°F in Mitchell. October 18 daily-record lows below the 20-degree mark were also set in locations such as Fargo, ND (10°F), Sioux City, IA (15°F); and Norfolk, NE (15°F). Chanute, KS, collected consecutive daily-record lows (21 and 17°F, respectively) on October 18-19. Farther east, October 19 featured the earliest first autumn freeze on record in Montgomery, AL (32°F); previously, the record had been October 20, 1989. Montgomery measured a lower temperature the next day, October 20, dipping to 29°F. Consecutive daily-record lows were also established on October 19-20 in Southeastern locations such as Tallahassee, FL (33 and 31°F), and Greenwood, MS (28 and 31°F). In Missouri, Cape Girardeau set a monthly record on October 20 with a low of 22°F; previously, the record had been 23°F on October 24, 1981, and October 29, 1976. In Georgia, Augusta reported three consecutive freezes (30, 31, and 31°F) from October 20-22. Farther west, however, heat suddenly surged across the Plains and Midwest, with recordsetting highs for October 22 soaring to 97°F in Wichita Falls, TX; 91°F in Oklahoma City, OK; 88°F in Broken Bow, NE; and 85°F in Quincy, IL. By October 23, daily-record highs reached or exceeded the 90-degree mark in locations such as Russell, KS (93°F), and Grand Island, NE (90°F). Grand Island's record for its latest 90-degree reading-90°F on October 28, 1922—remained intact. In Michigan, Muskegon reported consecutive daily-record highs (80 and 77°F, respectively) on October 23-24. In contrast, October 23 high temperatures struggled to top the freezing mark in parts of the Intermountain West, peaking at 35°F in Cedar City, UT. By the morning of October 24, Cedar City posted a daily-record low of 18°F. Meanwhile in Arizona, Nogales collected consecutive daily-record lows (37 and 32°F, respectively) on October 24-25. Utah's Kodachrome Basin State Park set a pair of daily records with lows of 13°F on October 28 and 29. In Oregon, Burns tied a daily record with a low of 11°F on October 27.

During the second half of October, dry weather dominated the country, with several exceptions. With cold, blustery conditions already in place downwind of the Great Lakes, snow showers developed or continued. Marquette, MI, received 19.1 inches of snow from October 17-19. In addition, Marquette's 18.1-inch total on the 17th and 18th set a station record for any 2-day period in October. Alpena, MI, received a daily-record rainfall of 1.30 inches on October 17. Heavy rain briefly returned to northern New England on October 18, when Portland, ME, achieved a daily-record total of 1.49 inches. Elsewhere, a trace of snow fell on the 18th in Kentucky locations such as Jackson, Lexington, and Louisville. In the last 40 years, Jackson's earliest observed snowfall had fallen on October 19, 1989. Later, significant precipitation arrived in the Northwest and quickly overspread

the northern and central Rockies, Great Basin, and Intermountain West. In Utah, Alta received 9.3 inches of snow in a 24-hour period on October 22-23, while Tooele reported 5.7 inches. All of Alta's October snowfall, totaling 26.1 inches, fell during a 6-day period starting October 22. Ely, NV, tallied daily records on October 22 for precipitation (0.35 inch) and snowfall (3.8 inches). Other record-setting precipitation totals for October 22 included 0.65 inch in Salt Lake City, UT, and 0.98 inch in Livingston, MT. Montana's Bozeman Airport received precipitation totaling 1.19 inches, including 4.1 inches of snow, on October 22-23. By October 24, heavy showers developed across the Plains and mid-South. Record-setting rainfall totals for the 24th included 0.96 inch in Minot, ND; 1.35 inches in Amarillo, TX; and 1.69 inches in Joplin, MO. Elsewhere in Missouri, dailyrecord amounts for October 25 reached 2.31 inches in St. Louis and 1.75 inches in West Plains. The Mississippi River in St. Louis rose more than 4 feet, from a minimum stage of -3.09 feet on October 24 to 1.09 feet by the morning of October 26, before falling back slightly. Stages below -3.09 feet in St. Louis have occurred only a few times since the beginning of the 21st century—in January and October 2003; December 2005; and December 2012 – January 2013. Late in the month, heavy rain developed across the western Gulf Coast region. In Texas, record-setting rainfall totals for October 28 reached 2.29 inches in Tyler and 1.74 inches in Abilene. By the 29th, daily rainfall records included 4.15 inches in Hattiesburg, MS, and 2.37 inches in Memphis, TN. At the end of October, the Mississippi River at Memphis had risen 2.64 feet from a record-low stage of -10.79 feet on October 17.

In Alaska, mild weather was replaced by colder conditions. However, mild, stormy conditions lingered for much of the month in southeastern Alaska. Early in the month, on October 4, daily-record highs surged to 70°F in Sitka and 60°F in Yakutat. Sitka also posted a record high (66°F) on the 5th. On October 5-6, King Salmon measured consecutive daily-record highs (61 and 63°F, respectively). Daily-record highs of 57°F occurred in Anchorage on October 5 and 8. Meanwhile, early-month precipitation led to several dailyrecord amounts, including 0.84 inches (on the 2nd) and 1.13 inches (on the 8th) in King Salmon and 0.94 inches (on the 8th) in McGrath. Eventually, colder weather arrived across the Alaskan mainland. In southeastern Alaska, however, daily-record highs on the 15th included 66°F in Ketchikan and 63°F in Sitka. At the same time, considerable precipitation pelted southeastern Alaska. accompanied some of the storminess across southern Alaska, with Cold Bay clocking a wind gust to 68 mph on October 10. From October 15-18, Juneau posted four consecutive daily-record highs (56, 62, 60, and 57°F). Sitka also notched a daily-record high (63°F) on October 18. Meanwhile, widespread Alaskan precipitation resulted in several dailyrecord totals, including 0.33 inch in Anchorage on October 20. Aided by daily totals exceeding an inch on October 4, 5, 14, 15, 26, and 29, Kodiak's monthly climbed to 11.30 inches, or 128 percent of normal. Bettles reported a snow depth of 6 inches by October 22. Late in the month, drier

weather overspread Alaska, except the southern part of the state. In Sitka, a daily-record rainfall (2.50 inches) on October 26 helped to boost its monthly total to 16.83 inches, or 143 percent of normal. Ketchikan's monthly rainfall reached 21.53 inches (117 percent of normal), aided by totals ranging from 2 to 4 inches on October 17, 18, 23, 26, and 29. Across southern Alaska, Anchorage reported a 3.2-inch snowfall on October 25-26, while Bethel collected a daily-record sum (0.46 inch) on October 25. Subsequently, Bethel closed the month from October 27-31 with five consecutive readings below the 20-degree mark, including a low of 11°F on the 29th. Fairbanks (-3°F on October 29) dipped below 0°F for the first time this autumn. With a low of -2°F on October 30, King Salmon also registered its first sub-zero reading of the season.

Hawaii experienced another warm month, with variable precipitation that was often heaviest in windward locations. On a few occasions, weakening cold fronts helped to enhance rainfall. During the 5-week period ending November 1, Hawaiian drought coverage fell from 81.1 to 50.4 percent, according to the U.S. Drought Monitor. Still, October rainfall at the state's major airport observation sites ranged from 0.28 inch (34 percent of normal) in Kahului, Maui, to 6.94 inches (68 percent) in Hilo, on the Big Island. Kahului experienced 16 days during the month with high temperatures of 90°F or greater; the only years in that location with more 90-degree days in October were 1968, 1984, 2019, and 2020.

Fieldwork

Fieldwork summary provided by USDA/NASS

Apart from the Southwest, October was warmer than normal for most of the western half of the nation. Some areas in California, Montana, and Washington recorded monthly temperatures 8°F or more above normal. Except for New England, most of the eastern half of the nation was cooler than normal. Parts of the Mississippi Valley, Ohio Valley, and Southeast recorded temperatures 4°F or more below normal. Meanwhile, much of the nation remained drier than normal for October, although parts of the Southwest and Rockies, as well as coastal New Jersey, recorded at least twice the normal amount of precipitation.

By October 2, ninety-six percent of this year's corn acreage was denting, 4 percentage points behind last year and 1 point behind the 5-year average. Seventy-five percent of the corn acreage was mature by October 2, eleven percentage points behind last year but equal to the average. Twenty percent of the 2022 corn acreage was harvested by October 2, seven percentage points behind last year and 2 points behind the average pace. Ninety-four percent of the corn acreage was mature by October 16, three percentage points behind last year but 2 points ahead of average. Forty-five percent of the 2022 corn acreage was harvested by October 16, five percentage points behind last year but 5 points ahead of average. On October 16, fifty-three percent

of the corn acreage was rated in good to excellent condition, 7 percentage points below the same time last year. Seventy-six percent of the 2022 corn acreage was harvested by October 30, three percentage points ahead of last year and 12 points ahead of average.

Nationally, soybean leaf drop was 81 percent complete by October 2, three percentage points behind last year but 2 points ahead of the 5-year average. Soybean harvest was 22 percent complete by October 2, nine percentage points behind last year and 3 points behind average. Leaf drop was 96 percent complete by October 16, two percentage points ahead of both last year and the 5-year average. Soybean harvest was 63 percent complete by October 16, five percentage points ahead of last year and 11 points ahead of average. On October 16, fifty-seven percent of the soybean acreage was rated in good to excellent condition, 2 percentage points below the previous year. Soybean harvest was 88 percent complete by October 30, ten percentage points ahead of both last year and the 5-year average.

Producers had sown 40 percent of the intended 2023 winter wheat acreage by October 2, five percentage points behind last year and 4 points behind the 5-year average. Nationwide, 15 percent of the winter wheat had emerged by October 2, three percentage points behind last year and 2 points behind average. Producers had sown 69 percent of the 2023 winter wheat acreage by October 16, equal to last year but 1 percentage point ahead of average. Nationwide, 38 percent of the winter wheat acreage had emerged by October 16, four percentage points behind last year and 6 points behind average. Nationwide, producers had sown 87 percent of the intended 2023 winter wheat acreage by October 30, one percentage point ahead of last year and 2 points ahead of average. Sixty-two percent of the winter wheat acreage had emerged by October 30, three percentage points behind last year and 4 points behind average. As of October 30, twenty-eight percent of the 2023 winter wheat acreage was reported in good to excellent condition, 17 percentage points below the same time last year.

By October 2, seventy-seven percent of the nation's cotton had open bolls, 8 percentage points ahead of last year and 4 points ahead of the 5-year average. By October 2, twentytwo percent of the cotton acreage was harvested, 9 percentage points ahead of last year and 5 points ahead of average. By October 16, eighty-nine percent of the cotton had open bolls, 4 percentage points ahead of last year and 2 points ahead of average. By October 16, thirty-seven percent of the cotton acreage was harvested, 10 percentage points ahead of last year and 5 points ahead of average. On October 23, thirty percent of the 2022 cotton acreage was rated in good to excellent condition, 34 percentage points below the same time last year. By October 30, ninety-six percent of the cotton had open bolls, 2 percentage points ahead of both last year and the 5-year average. By October 30, fifty-five percent of the nation's cotton acreage was harvested, 11 percentage points ahead of last year and 8 points ahead of average.

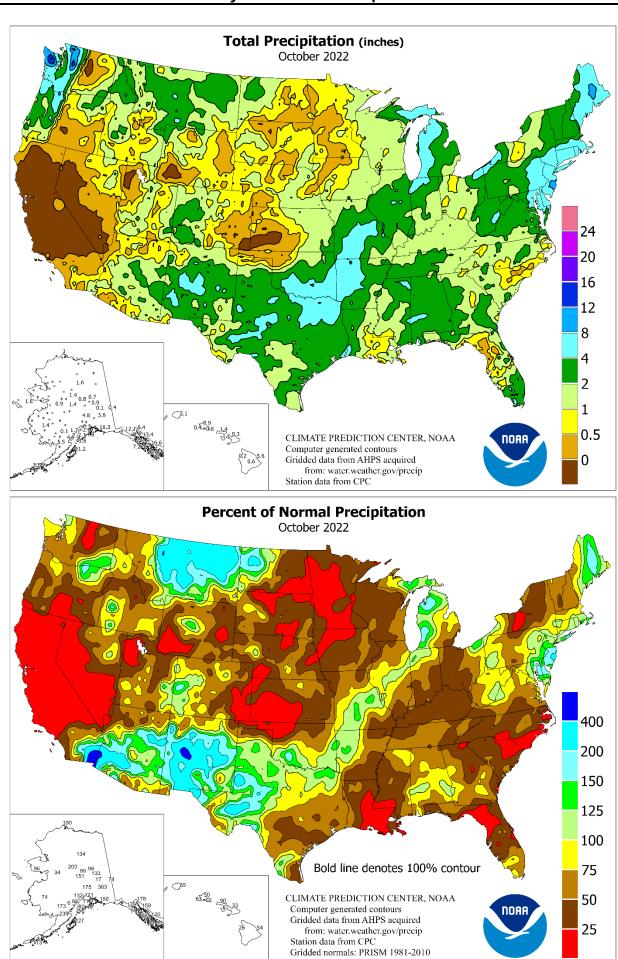
Ninety-six percent of the nation's sorghum acreage was at or beyond the coloring stage by October 2, three percentage points behind last year and 1 point behind the 5-year average. By October 2, sixty-nine percent of the nation's sorghum acreage was mature, 8 percentage points behind last year but 2 points ahead of average. Thirty-four percent of the 2022 sorghum acreage had been harvested by October 2, three percentage points behind last year and 1 point behind average. Twenty-two percent of the nation's sorghum acreage was rated in good to excellent condition on October 9, thirty-three percentage points below the same time last year. By October 16, eighty-nine percent of the sorghum acreage was mature, 3 percentage points behind last year but 2 points ahead of average. Fifty-seven percent of the 2022 sorghum acreage had been harvested by October 16, one percentage point behind last year but 8 points ahead of average. Seventy-seven percent of the 2022 sorghum acreage had been harvested by October 30, two percentage points behind last year but 8 points ahead of average.

Nationally, 70 percent of the rice acreage was harvested by October 2, one percentage point behind the previous year and 2 points behind the 5-year average. Eighty-nine percent of the rice acreage was harvested by October 16, one percentage point behind both the previous year and the 5-year average. Ninety-seven percent of the rice acreage was harvested by October 30, equal to both last year and the 5-year average.

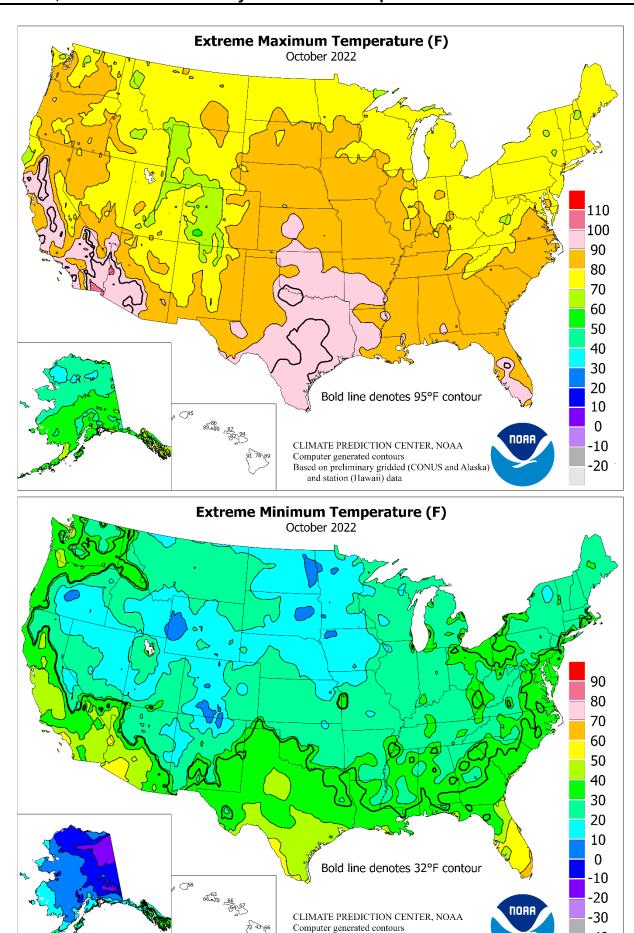
Twenty-eight percent of the nation's peanut acreage was harvested as of October 2, ten percentage points ahead of last year and 5 points ahead of the 5-year average. Fifty-five percent of the peanut acreage was harvested as of October 16, eighteen percentage points ahead of last year and 8 points ahead of average. On October 16, sixty-two percent of the peanut acreage was rated in good to excellent condition, 9 percentage points below the same time last year. Seventy-nine percent of the peanut acreage was harvested as of October 30, fourteen percentage points ahead of last year and 9 points ahead of average.

By October 2, sugarbeet producers had harvested 19 percent of the nation's crop, equal to last year but 6 percentage points behind the 5-year average. By October 16, sugarbeet producers had harvested 67 percent of the crop, 29 percentage points ahead of last year and 13 points ahead of average. By October 30, producers had harvested 89 percent of the nation's crop, 5 percentage points ahead of last year and 7 points ahead of average.

By October 2, one percent of this year's sunflower crop was harvested, 4 percentage points behind last year and 3 points behind the 5-year average. By October 16, twenty-two percent of this year's sunflower crop was harvested, 6 percentage points behind last year but 3 points ahead of average. By October 30, sixty percent of this year's sunflower crop was harvested, 9 percentage points ahead of last year and 15 points ahead of average.

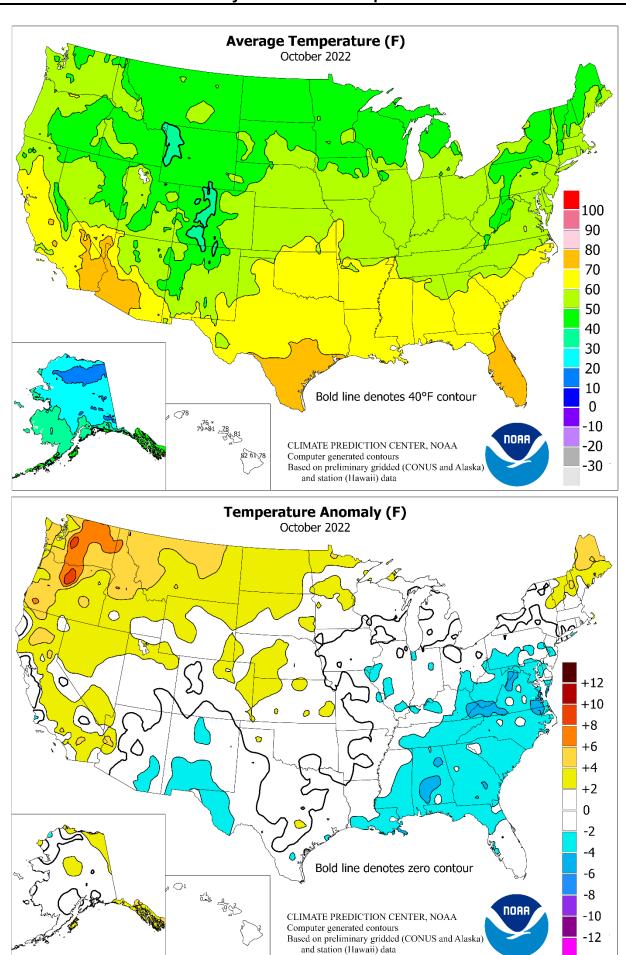


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Based on preliminary gridded (CONUS and Alaska)

and station (Hawaii) data



National Weather Data for Selected Cities

October 2022

Data Provided by Climate Prediction Center

STATES AND STATIONS WE STATION			TEN	∕IP, °F	PR	ECIP.		TEM	P, °F	PR	ECIP.		TEMP, °F		PR	ECIP.
Month		STATES	Ē	RE		RE	STATES	Ē	RE		RE	STATES	Ē	RE		RE
Month		AND	AG	IUT	ΑF	IUT	AND	AG	IUT	7k	Į,	AND	AG	IUT	7A.	I)T
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MARRIANS			₹	DEF		DEF		Ą	DEF	•	DEF		Ą	DEF		DEF
PARSANCE	AK	ANCHORAGE	37	1	2.13	0.31	WICHITA	61	2	0.78	-2.06	TOLEDO	54	-1	0.89	-1.69
MOLINGAL		BARROW	24	0	1.03	0.49	KY LEXINGTON	57	-1	0.94	-2.72	YOUNGSTOWN	51	-1	1.87	-1.47
NOME 12 11.22 2.77 A. BATONROUGE 59 2.2 0.39 4.41 0.38 0.81 0.		FAIRBANKS	29	2	0.73	-0.03	LOUISVILLE	58	-2	1.54	-2.18	OK OKLAHOMA CITY	62	1	2.20	-1.13
NOME		JUNEAU	46		13.38	4.96	PADUCAH	59	-1	1.86	-2.13	TULSA	63	1	1.91	-1.87
A. BIRMONICHAM		KODIAK	44	2	11.22	2.37	LA BATON ROUGE	68	-2	0.38	-4.45	OR ASTORIA	56	3	4.20	-2.54
HINTOVILE		NOME			1.76		LAKE CHARLES		-	1.41	-3.38			4	0.11	-0.66
MONITOGNEY C	AL													5	1.39	-1.78
MONTOOMERY 63 5 160 -116 NORCESTER 50 2 4.44 -0.40 FORTLAND 61														6	0.47	-0.74
AF PORT NUMBER 64														7	1.03	-0.06
LITTEROOK														6	3.13	-0.28
AZ FLAGSTAFF	AR													5	1.65	-1.82
PRICONY	^7													-3 -2	5.18 4.72	1.04 0.35
PRESCOTT	AZ													-2 -2	3.55	-0.26
THUSON 71 - 1 - 0.33 - 0.13 - 1-0.00 - 0.00														- <u>-</u> 2 -1	5.76	2.29
CA BARKERPEID														-3	1.56	-1.27
FREIDING	CA													-1	2.43	-1.28
FRENNO									0					-1	3.04	-0.65
LICE ANDRELES														1	5.74	1.56
REDING														-3	0.70	-3.63
SANCHAMENTO				5										-2	1.03	-2.10
SAN DIRGO		SACRAMENTO					_		2					-4	0.49	-2.93
STOCKTON		SAN DIEGO	68		0.09	-0.41	ROCHESTER		0	0.69	-1.73	GREENVILLE	58	-4	1.80	-1.79
CO ALAMOSA 43 -1 0.41 -0.24 KANSAS CITY 99 3 1.70 -1.56 RAPÍC CITY 90 COPSINOS 62 2.2 0.15 -0.62 SANT LOUIS 99 -1 3.64 -0.48 SIQUE FALLS 62 COPSINOS 62 2.0 15 -0.62 SANT LOUIS 99 -1 3.64 -0.48 SIQUE FALLS 62 COPSINOS 64 1 1.76 0.77 MS JACKSON 64 -2 1.19 -2.61 CHATTANOGA 59 PUEBLO 54 2 0.17 -0.59 MERIDAN 63 -4 4.18 0.32 INDIVIDUAL 57 COPSINOS 65 -1 3.81 -0.03 TUPELO 63 -2 3.76 -0.20 MEMPHIS 63 ALASTON 64 -2 1.19 -2.61 CHATTANOGA 59 MERIDAN 63 -4 4.18 0.32 MONOXILE 57 COPSINOS 65 -1 0.50 0.48 MT BILLINGS 52 4 0.66 -0.72 MASHINITE 65 COPSINOS 65 -1 1.1 SUITE 45 5 0.60 -0.24 TX ABLEME 68 COPSINOS 65 -1 0.00 CM MASHINITE 65 COPSINOS 65 -1 1.1 SUITE 45 5 0.60 -0.24 TX ABLEME 68 COPSINOS 65 -2 4.20 0.52 CUT BANK 48 6 0.33 -0.24 AMARILLO 59 COPSINOS 65 -2 4.20 0.52 CUT BANK 48 6 0.33 -0.24 AMARILLO 59 COPSINOS 65 -2 4.20 0.52 CUT BANK 48 6 0.03 -0.24 AMARILLO 59 COPSINOS 65 COP		SAN FRANCISCO	61	-2	0.01	-0.78	ST. CLOUD	48	3	0.31	-2.30	SD ABERDEEN	48	2	0.09	-2.05
COSPRINGS		STOCKTON	67	2	0.00	-0.69	MO COLUMBIA	57	0	3.12	-0.35	HURON	50	2	0.29	-1.66
DENVER INT.	СО	ALAMOSA	43	-1	0.41	-0.24	KANSAS CITY	59	3	1.70	-1.56	RAPID CITY	50	3	0.51	-0.90
GRAND JUNCTION		CO SPRINGS	52	2	0.15	-0.62	SAINT LOUIS	59	-1	3.64	0.48	SIOUX FALLS	52	2	0.28	-2.09
PUERLO		DENVER INTL	54	3	0.46	-0.53	SPRINGFIELD	58	-1	3.47	-0.13	TN BRISTOL	54	-3	0.76	-1.76
CT BRIDGEPORT 56		GRAND JUNCTION	54		1.76	0.77	MS JACKSON	64	-2	1.19	-2.61	CHATTANOOGA		-3	1.61	-1.98
HARTFORD 54 1 5.00 0.48 MT BILLINGS 52 4 0.66 0.72 NASHVILLE 60 DC WASHINGTON 58 -3 2.55 -1.11 BUTTE 45 5 0.60 -0.24 TX ABILENE 68 DE WILMINGTON 55 -2 4.20 0.52 CUT EANK 48 6 0.33 -0.24 AMAPAILLO 59 FL DAYTONA BEACH 73 -2 0.36 4.49 GLASGOW 50 5 1.04 0.72 AUSTIN 72 KACKPURST 80 -1 2.79 -2.88 HAVRE 50 6 1.46 0.72 BERMONT 70 MAMH 80 -1 2.79 -2.88 HAVRE 50 6 1.46 0.72 BROWNSVILLE 77 MAMH 80 -1 2.79 -2.85 HAVRE 50 6 1.46 0.72 BROWNSVILLE 77 ORLANDO 76 0 2.12 -1.34 NC ASHEVILLE 54 .4 0.63 -2.74 DELRIO 72 PENSACOLA 69 -2 1.15 -3.55 CHARLOTTE 59 -3 0.66 -2.50 EL PASO 66 TALLAMASSE 67 -3 0.22 3.02 GRENSBORD 57 -4 1.23 1.68 FORT WORTH 69 TALMAMSE 67 -3 0.22 1.09 -1.25 HATTERAS 64 -4 1.38 4.20 GALYESTON 74 WEST PALM BEACH 78 0 2.55 MS. ALEIGH 60 -2 1.29 -2.08 HOUSTON 70 GA ATHENS 60 -3 1.29 -2.05 WILMINGTON 64 -2 1.29 -2.08 HOUSTON 70 GA ATHENS 60 -3 1.26 -2.07 1.0 I.58 ND BISMARCK 48 3 0.46 -0.96 MIDLAND 64 AUGUSTA 61 -5 1.85 -0.71 DICKINSON 47 3 0.20 -0.97 SAN ANCELO 67 CCULMBUS 64 -4 1.63 1.99 GRAND FORKS 47 3 0.18 1.71 ICTORIA 72 SANANNAH 65 -4 0.63 -2.79 JAMESTOWN 47 3 0.13 -1.55 WACO 69 HI HILD 78 -1 1.15 -1.16 O.078 JAMESTOWN 55 1 0.61 -1.52 UT SALTLAKECITY 58 DES MOINES 53 0 1.91 1.16 O.078 JAMESTOWN 55 1 0.61 -1.52 UT SALTLAKECITY 58 DES MOINES 53 0 1.91 1.16 O.078 JAMESTOWN 55 1 0.61 -1.72 UT SALTLAKECITY 58 DES MOINES 53 0 1.92 -1.76 VALENTINE 52 0.03 -0.77 SONANCEL 55 DES MOINES 53 0 1.92 -1.76 VALENTINE 52 0.03 -0.77 SONANCE 55 DES MOINES 55 1 1 0.48 -1.73 NJ ATLANTCICTTY 56 LICHUE 53 -1.10 0.05 NJ ALENDOW 55 1 0.00 -0.91 SONANCE 56 DES MOINES 55 1 1 0.48 -1.73 NJ ATLANTCICTTY 56 LICHUE 55 -1.10 0.05 NJ ALENDOW 55 1 0.00 -0.91 SONANCE 55 DES MOINES 55 1 1 0.48 -1.76 VALENTINE 54 0.05 NJ ALENDOW 55 DES MOINES 55 1 1 0.48 -1.78 NJ ATLANTCICTTY 58 LICHUE 55 1 1.00 0.078 0.05 NJ ATLANTCICTTY 56 -1 1.55 NJ ALENDOW 55 DES MOINES 55 1 1 0.48 -1.73 NJ ATLANTCICTTY 56 -1 1.55 NJ ALENDOW 55 DES MOINES 55 1 1 0.05 0.05 NJ ATLANTCICTTY 56 -1 1.55 NJ ALENDOW 55 DES MOINES 55 1 1 0.05 0.05 NJ ATLANTCICTTY 56 -1 1.55 NJ ALE				2										-3	1.98	-0.82
DC WASHINGTON 58 -3 2.55 -1.11 BUTTE 45 5 0.60 -0.24 TX ABILENE 68 DE WILMINGTON 55 -2 4.20 0.52 CUT BANK 48 6 0.33 -0.24 AMARILLO 59 STATISTIC CULT BANK 48 6 0.33 -0.24 AMARILLO 59 STATISTIC CULT BANK 48 6 0.33 -0.24 AMARILLO 59	CT	BRIDGEPORT	55	-1	3.81	-0.03	TUPELO		-2	3.76	-0.20	MEMPHIS		-1	4.37	0.40
DE WILMINGTON														-1	0.87	-2.49
FL DAYTONA BEACH														1	3.84	1.02
JACKSONVILLE														0	2.67	0.92
KEY WEST	FL													1	2.16	-1.76
MIAMI														-2	4.90	-0.57
ORLANDO 76 0 2.12 -1.34 NC ASHEVILLE 54 -4 0.63 -2.74 DELRIO 72 PENSACOLA 69 -2 1.15 -3.55 CHARLOTTE 59 -3 0.66 -2.50 EL PASO 66 TALLAHASSEE 67 -3 0.22 -3.02 GREENSBORO 57 -4 1.23 1.86 FORT WORTH 69 TAMPA 76 -2 1.09 -1.25 HATTERAS 64 -4 1.38 -4.20 GALVESTON 74 WEST PALM BEACH 78 0 2.65 -3.25 RALEIGH 60 -2 1.29 -2.08 HOUSTON 70 GA ATHENS 60 -3 1.29 -2.05 WILMINGTON 64 -2 0.57 -4.10 LUBBOCK 61 ATLANTA 62 -2 1.70 -1.58 ND BISMARCK 48 3 0.46 -0.96 MIDLAND 64 AUGUSTA 61 -5 1.85 -0.71 DICKINSON 47 3 0.20 -0.97 SAN ANGELO 67 COLUMBUS 64 -4 1.85 -0.92 FARGO 47 1 0.14 -2.02 SAN ANTONIO 72 MACON 62 -4 0.63 -1.99 GRAND FORKS 47 3 0.18 -1.71 VICTORIA 72 SAVANNAH 65 -4 0.93 -2.79 JAMESTOWN 47 3 0.13 -1.55 WACO 69 HIHLO 78 2 -5.56 -4.68 NE GRAND ISLAND 55 2 0.54 -1.5 UT SALT LAKE CITY 58 KAHULUI 81 0 0.78 -0.72 LIHUE 78 -1 1.212 -1.15 NORTH PLATTE 52 2 0.56 -1.09 NORFOLK 60 IA BURLINGTON 52 -2 1.91 -1.18 OMAHA 54 0 0.54 -1.78 DES MOINES 50 0 0.97 -1.95 NH CONCORD 50 1 2.68 -1.70 WAS SHOULES 55 DUBUQUE 50 0 0.97 -1.95 NH CONCORD 50 1 2.68 -1.76 VT BURLINGTON 52 SIOUX CITY 51 1 0.48 -1.37 NN ELY 47 0 0.33 -0.47 WASTERLOO 51 -1 1.36 -1.39 NN ALBUQUERQUE 57 -1 1.53 0.67 SEATH TO A 1.50 NORTH PLATTE 54 1.77 SAN ANGELO 55 LEWISTON 58 5 1.29 0.21 NN ELY 47 0 0.33 -0.47 VALENTINE 54 LEWISTON 58 5 1.29 0.21 NN ELY 47 0 0.33 -0.47 NORTH PLATTE 54 1.50 NORTH PLATTE 55 1 0.61 -1.77 3.58 NO NORFOLK 56 NORFOLK 56 1.50														-1 0	2.30 0.80	-1.53
PENSACOLA 69 -2 1.15 -3.55 CHARLOTTE 59 -3 0.66 -2.50 EL PASO 66 TALLAHASSEE 67 -3 0.22 -3.02 GREENSBORO 57 -4 1.23 -1.86 FORT WORTH 69 TALLAHASSEE 76 -2 1.09 -1.25 HATTERAS 67 -4 1.38 -4.20 GALVESTON 74 WEST PALM BEACH 78 0 2.65 -3.25 RALEIGH 60 -2 1.29 -2.06 HOUSTON 70 GA ATHENS 60 -3 1.29 -2.05 WILMINGTON 64 -2 0.57 -4.10 LUBBOCK 61 ATLANTA 62 -2 1.70 -1.58 ND BISMARCK 48 3 0.46 -0.96 MIDLAND 64 AUGUSTA 61 -5 1.85 -0.71 DICKINSON 47 3 0.20 -0.97 SAN ANGELO 67 COLUMBUS 64 -4 1.85 -0.92 FARGO 47 1 0.14 -2.02 SAN ANTONIO 72 MACON 62 -4 0.63 -1.99 GRAND FORKS 47 3 0.18 -1.71 VICTORIA 72 SAVANNAH 65 -4 0.93 -2.79 JAMESTOWN 47 3 0.13 -1.55 WACO 69 HILLO 78 2 5.56 -4.68 NE GRAND ISLAND 55 2 0.54 -1.45 WICHITA FALLS 66 HONOLULU 81 0 0.78 -0.72 LINCOLN 55 1 0.61 -1.52 UT SALT LAKE CITY 58 LIHUE 78 -1.1 2.12 -1.15 NORTH PLATTE 52 2 0.65 -1.09 NORFOLK 60 LIHUE 78 -1 1 2.12 -1.15 NORTH PLATTE 52 2 0.65 -1.09 NORFOLK 60 LIHUE 78 -1 1 2.12 -1.15 NORTH PLATTE 52 0.53 -1.79 WASHINGTON 57 LINCOLN 55 1 0.54 -1.76 WASHINGTON 57 LINCOLN 55 1 0.54 -1.75 WASHINGTON 57 LINCOLN 55 1 0.54 -1.76 WASHINGTON 52 LINCOLN 55 1 1 1 1.36 -1.39 NIMARK 56 -2 5.93 2.14 QUILLAYUTE 54 WASHIOULES 55 DUBUGUE 57 4 0.84 0.03 NIM ALBUQUERQUE 57 -1 1 1.53 0.67 SEATTLE-TACOMA 58 LEWISTON 58 5 1.29 0.23 0.35 LIAS VEGAS 73 2 0.00 -0.31 YAKIMA 57 LINCOLN 53 1 1 0.85 1.19 0.18 WINNEMUCCA 53 4 0.00 -0.66 GREEN BAY 51 LINCOLN 55 1 1 0.00 0.00 0.00 0.00 0.00 0.00 0.														-1	0.80	-2.33 -2.05
TALLAHASSEE 67 -3 0.22 -3.02 GREENSBORO 57 -4 1.23 -1.86 FORT WORTH 69 TAMPA 76 -2 1.09 -1.25 HATTERAS 64 -4 1.38 -4.20 GALVESTON 74 WEST PALM BEACH 78 0 2.255 -3.25 RALEIGH 60 -2 1.29 -2.08 HOUSTON 70 GA ATHENS 60 -3 1.29 -2.05 WILMINGTON 64 -2 0.57 -4.10 LUBBOCK 61 ATLANTA 62 -2 1.70 -1.58 ND BISMARCK 48 3 0.46 -0.96 MIDLAND 64 AUGUSTA 61 -5 1.85 -0.71 DICKINSON 47 3 0.20 -0.97 SAN ANGELO 67 COLUMBUS 64 -4 1.85 -0.92 FARGO 47 1 0.14 -2.02 SAN ANTONIO 72 MACON 62 -4 0.63 -1.99 GRAND FORKS 47 3 0.18 -1.71 VICTORIA 72 MACON 62 -4 0.63 -1.99 GRAND FORKS 47 3 0.18 -1.71 VICTORIA 72 MACON 65 -4 0.93 -2.79 JAMESTOWN 47 3 0.13 -1.55 WACO 89 HI HILO 78 2 5.56 4.68 NE GRAND ISLAND 55 2 0.54 -1.45 WICHITA FALLS 66 LIHUE 78 -1 2.12 -1.15 NORTH PLATTE 52 2 0.63 -1.51 VA LYOCHBURG 56 LIHUE 78 -1 2.12 -1.15 NORTH PLATTE 52 2 0.63 -1.51 VA LYOCHBURG 55 DIBBUQUE 50 0 0.97 -1.95 NN CORD 50 NORTH PLATTE 50 0 0.21 -1.21 WASHIDULES 55 DUBUQUE 50 0 0.97 -1.95 NN CORD 50 NN ALBINITY 56 -1 7.72 SAS WASHIDULES 55 DUBUQUE 50 0 0.97 -1.95 NN CORD 50 NN ALBINITY 56 -1 7.72 SAS WASHIDULES 55 DUBUQUE 57 -1 1.36 -1.39 NEWARK 56 -2 5.93 2.14 OULLAYUTE 54 DUBUGLE 53 -1 1.54 NN ALBOUCEROUE 57 -1 1.53 0.07 VALENTINE 50 0.00 -0.07 VALENTINE 50 0.00 0.07 VALENTINE 50 0.00 0.00 0.00 0.00 VALENTINE 50 0.00 0.00 0.00 VALENTINE 50 0.00 0.00 0.00 VALENTINE 50 0.00 0.00 0.00 0.00 0.00 0.00 0.00														-1 -1	1.89	1.29
TAMPA 76 -2 1.09 -1.25 HATTERAS 64 -4 1.38 -4.20 GALVESTON 74 WEST PALM BEACH 78 0 2.65 -3.25 RALEIGH 60 -2 1.29 -2.08 HOUSTON 70 GA ATHENS 60 -3 1.29 -2.05 WILMINGTON 64 -2 0.57 -4.10 LUBBOCK 61 ATLANTA 62 -2 1.70 -1.58 ND BISMARCK 48 3 0.46 -0.96 MIDLAND 64 AUGUSTA 61 -5 1.85 -0.71 DICKINSON 47 3 0.20 -0.97 SAN ANGELO 67 COLUMBUS 64 -4 1.85 -0.92 FARGO 47 1 0.14 -2.02 SAN ANTONIO 72 SAN ANGELO 67 COLUMBUS 64 -4 1.85 -0.99 GRAND FORKS 47 3 0.18 -1.71 VICTORIA 72 SAVANNAH 65 -4 0.93 -2.79 JAMESTOWN 47 3 0.18 -1.71 VICTORIA 72 SAVANNAH 65 -4 0.93 -2.79 JAMESTOWN 47 3 0.13 -1.55 WACO 69 HILLOU 81 0 0.78 -0.72 LINCOLN 55 1 0.61 1.52 UT SALT LAKE CITY 58 KAHULUI 81 2 0.28 -0.56 NORFOLK 52 2 0.63 -1.51 VA LYNCHBURG 56 LIHUE 78 -1 2.12 -1.15 NORTH PLATE 52 2 0.66 -1.09 NORFOLK 60 LIHUE 78 -1 2.12 -1.15 NORTH PLATE 52 2 0.65 -1.09 NORFOLK 60 DES MOINES 53 0 1.02 -1.78 NORTHOLE 55 1 2 0.33 -0.90 ROANOKE 56 DES MOINES 53 0 0 0.97 -1.95 NH CONCORD 50 1 2.68 -1.77 VI BURLUNGTON 52 LIHUE 50 0 0.07 -1.95 NH CONCORD 50 1 2.68 -1.77 VI BURLUNGTON 52 LIHUE 50 0 0.07 -1.95 NH CONCORD 50 1 2.68 -1.76 VI BURLUNGTON 55 LIHUE 50 0 0.07 -1.95 NH CONCORD 50 1 2.68 -1.76 VI BURLUNGTON 52 LIHUE 50 0 0.07 -1.95 NH CONCORD 50 1 2.68 -1.76 VI BURLUNGTON 52 LIHUE 50 0 0.07 -1.95 NH CONCORD 50 1 2.68 -1.76 VI BURLUNGTON 52 LIHUE 50 0 0.07 -1.95 NH CONCORD 50 1 2.68 -1.76 VI BURLUNGTON 52 LIHUE 50 0 0.07 -1.95 NH CONCORD 50 1 2.68 -1.76 VI BURLUNGTON 52 LIHUE 50 0 0.07 -1.95 NH CONCORD 50 1 2.68 -1.76 VI BURLUNGTON 52 LIHUE 50 0 0.07 -1.95 NH CONCORD 50 1 2.68 -1.76 VI BURLUNGTON 52 LIHUE 54 DIBBOISE 57 4 0.84 0.03 NM ALBUQUERQUE 57 -1 1.53 0.07 SEATTLE-TACOMA 58 LIHUE 50 0 0.07 -1.95 NH CONCORD 50 1 2.68 0.07 SEATTLE-TACOMA 58 DIBBOISE 53 -1 0.85 -1.98 NM MINEMUCCA 53 4 0.00 -0.08 GREEN BAY 51 POCKAEL 55 1 0.00 0 0.07 LIHUE 50 0 0.07 JALBANY 52 0.00 0.03 JALBANY 51 LANDY 52 1 0.07 JALBANY 52 1 0.07														1	4.38	0.01
WEST PALM BEACH 78 0 2.65 -3.25 RALEIGH 60 -2 1.29 -2.08 HOUSTON 70 GA ATHENS 60 -3 1.29 -2.05 WILIMINGTON 64 -2 0.57 -4.10 LUBBOCK 61 ATLANTA 62 -2 1.70 -1.58 ND BISMARCK 48 3 0.46 -0.96 MIDLAND 64 AUGUSTA 61 -5 1.85 -0.71 DICKINSON 47 3 0.20 -0.97 SAN ANTONIO 72 MACON 62 -4 0.63 -1.99 GRAND FORKS 47 3 0.18 -1.71 VICTORIA 72 MACON 65 -4 0.93 -2.79 JAMESTOWN 47 3 0.18 -1.71 VICTORIA 72 MIHICO 78 2 5.56 -4.68 NE GRAND ISLAND 55 2 0.54 -1.45 WICHITA FALLS 66 H														-1	1.54	-3.61
GA ATHENS 60 -3 1.29 -2.05 WILMINGTON 64 -2 0.57 -4.10 LUBBOCK 61 ATLANTA 62 -2 1.70 -1.58 ND BISMARCK 48 3 0.46 -0.96 MIDLAND 64 AUGUSTA 61 -5 1.85 -0.71 DICKINSON 47 3 0.20 -0.97 SAN ANGELO 67 COLUMBUS 64 -4 1.85 -0.92 FARGO 47 1 0.14 -2.02 SAN ANTONIO 72 MACON 62 -4 0.63 -1.99 GRAND FORKS 47 3 0.18 -1.71 VICTORIA 72 SAVANNAH 65 -4 0.93 -2.79 JAMESTOWN 47 3 0.13 -1.55 WACO 69 HI HILO 78 2 5.56 -4.6 8 NG GRAND ISLAND 55 2 0.54 -1.45 WICHITARLLS 66 HONOLULU 81 0 0.78 -0.72 LINCOLN 55 1 0.61 -1.52 UT SALTLAKE CITY 58 KAHULUI 81 2 0.28 -0.56 NORFOLK 52 2 0.63 -1.51 VA LYNCHBURG 56 LIHUE 78 -1 2.12 -1.15 NORTH PLATTE 52 2 0.56 -1.09 NORFOLK 60 DES MOINES 53 0 1.02 -1.76 VALENTINE 50 0 0.21 -1.21 WASHOULES 55 DUBUOUE 50 0 0.97 -1.95 NI CONCORD 50 1 2.68 -1.72 WASHOULES 55 DUBUOUE 50 0 0.97 -1.95 NI CONCORD 50 1 2.68 -1.77 SIGNINGTON 52 SIOUX CITY 51 1 0.48 -1.73 NJ ATLANTIC_CITY 56 -1 1.53 0.67 SEATTLE-TACOMA 58 DUBUOUE 50 0 0.97 -1.95 NI CONCORD 50 1 2.68 -1.76 VA BURLINGTON 52 SIOUX CITY 51 1 0.48 -1.73 NJ ATLANTIC_CITY 56 -1 1.53 0.67 SEATTLE-TACOMA 58 DUBUOUE 50 0 0.97 -1.95 NI CONCORD 50 1 2.68 -1.76 VA BURLINGTON 52 SIOUX CITY 51 1 0.48 -1.73 NJ ATLANTIC_CITY 56 -1 1.53 0.67 SEATTLE-TACOMA 58 DUBUOUE 50 0 0.97 -1.95 NI CONCORD 50 1 2.68 -1.76 VA BURLINGTON 52 SIOUX CITY 51 1 0.48 -1.73 NJ ATLANTIC_CITY 56 -1 1.53 0.67 SEATTLE-TACOMA 58 DUBUOUE 50 0 0.97 -1.95 NI CONCORD 50 1 2.68 -1.76 VA BURLINGTON 52 SIOUX CITY 51 1 0.48 -1.73 NJ ATLANTIC_CITY 56 -1 1.53 0.67 SEATTLE-TACOMA 58 DUBUOLE 50 0 0.05 -1 1.05 NI NI ALBUQUERQUE 57 -1 1.53 0.67 SEATTLE-TACOMA 58 DUBUOLE 54 0 0.68 -1.80 VINNEMUCCA 53 4 0.00 -0.66 GREEN BAY 51 DUBUOLE 54 -1 1.63 -1.54 NY ALBANY 52 1 3.07 -0.78 LA CROSSE 51									-					-2	1.81	-3.65
ATLANTA 62 -2 1.70 -1.58 ND BISMARCK 48 3 0.46 -0.96 MIDLAND 64 AUGUSTA 61 -5 1.85 -0.71 DICKINSON 47 3 0.20 -0.97 SAN ANGELO 67 COLUMBUS 64 -4 1.85 -0.92 FARGO 47 1 0.14 -2.02 SAN ANTONIO 72 MACON 62 -4 0.63 -1.99 GRAND FORKS 47 3 0.18 -1.71 VICTORIA 72 SAVANNAH 65 -4 0.93 -2.79 JAMESTOWN 47 3 0.13 -1.55 WACO 69 HI HILO 78 2 5.56 -4.68 NE GRAND ISLAND 55 2 0.54 -1.46 WICHITA FALLS 66 HONOLUU 81 0 0.78 -0.72 LINCOLN 55 1 0.61 -1.52 UT SALT LAKE CITY 58 LIHUE 78 -1 2.12 -1.15 NORTH PLATTE 52 2 0.63 -1.51 VA LYNCHBURG 56 LIHUE 78 -1 2.12 -1.15 NORTH PLATTE 52 2 0.56 -1.09 NORFOLK 60 IB BURLINGTON 52 -2 1.91 -1.18 OMAHA 54 0 0.54 -1.78 RICHMOND 57 CEDAR RAPIDS 50 0 1.91 -1.00 SCOTTSBUTF 51 2 0.33 -0.90 ROANOKE 56 DES MOINES 53 0 1.02 -1.76 VALENTINE 50 0 0.21 -1.21 WASHOULLES 55 DUBUQUE 50 0 0.97 -1.95 NH CONCORD 50 1 2.68 -1.76 VT BURLINGTON 52 SIOUX CITY 51 1 0.48 -1.73 NJ ATLANTIC_CITY 56 -1 7.72 3.58 WA OLYMPIA 54 WATERLOO 51 -1 1.36 -1.39 NEWARK 56 -2 5.93 2.14 QUILLAYUTE 54 UNITED TO THE CONCORD 55 SALT SALTE TACKMA 55 SALTES TO THE CONCORD 55 SALTES TACKMA 55 SALTES TO THE CONCORD 55 SALTES TACKMA 55 SALTES TA	GA													-1	2.33	0.81
AUGUSTA 61 -5 1.85 -0.71 DICKINSON 47 3 0.20 -0.97 SAN ANGELO 67 COLUMBUS 64 -4 1.85 -0.92 FARGO 47 1 0.14 -2.02 SAN ANTONIO 72 MACON 62 -4 0.63 -1.99 GRAND FORKS 47 3 0.18 -1.71 VICTORIA 72 SAVANNAH 65 -4 0.93 -2.79 JAMESTOWN 47 3 0.18 -1.71 VICTORIA 72 MACO 69 HILLO 78 2 5.56 -4.68 NE GRAND ISLAND 55 2 0.54 -1.45 WICHITA FALLS 66 HONOLULU 81 0 0.78 -0.72 LINCOLN 55 1 0.61 -1.52 UT SALT LAKE CITY 58 KAHULUI 81 2 0.28 -0.56 NORFOLK 52 2 0.63 -1.51 VA LYNCHBURG 56 LIHUE 78 -1 2.12 -1.15 NORTH PLATTE 52 0.56 -1.09 NORFOLK 60 IA BURLINGTON 55 2 -2 1.91 -1.18 OMAHA 54 0 0.54 -1.78 RICHMOND 57 DES MOINES 53 0 1.02 -1.76 VALENTINE 50 0 0.21 -1.21 WASHIDULLES 55 DUBUQUE 50 0 0.97 -1.95 NH CONCORD 50 1 2.68 -1.76 VI BURLINGTON 52 SIOUX CITY 51 1 0.48 -1.73 NJ ATLANTIC_CITY 56 -1 7.72 3.58 WA OLYMPIA 54 ID BOISE 57 4 0.84 0.03 NM ALBUQUERQUE 57 -1 1.53 0.67 SEATTLE-TACOMA 58 LEWISTON 58 5 1.29 0.21 NV ELY 47 0 0.33 -0.47 SPOKANE 55 DOLGLER BY ALBURD 55 1.08 VINNERUM 57 IL CHICAGO/O_HARE 54 0 1.64 -1.80 RENO 58 1.09 WINNERUM 57 IL CHICAGO/O_HARE 54 0 1.64 -1.80 RENO 58 1.09 WINNERUM 57 IL CHICAGO/O_HARE 54 0 1.64 -1.80 RENO 58 1 0.00 -0.66 GREEN BAY 51 1 0.85 -1.96 WINNERUM 52 1 0.00 -0.66 GREEN BAY 51 1 0.85 -1.96 WINNERUM 52 1 0.00 -0.66 GREEN BAY 51 1 0.85 -1.96 WINNERUM 52 1 0.00 -0.66 GREEN BAY 51 1 0.85 -1.96 WINNERUM 52 1 0.00 -0.66 GREEN BAY 51 1 0.85 -1.96 WINNERUM 52 1 0.00 -0.66 GREEN BAY 51 1 0.85 -1.96 WINNERUM 52 1 0.00 -0.66 GREEN BAY 51 1 0.40 PEORIA														-2	1.48	0.27
COLUMBUS MACON 62								47	3				67	0	2.31	-0.11
SAVANNAH			64	-4	1.85	-0.92		47	1	0.14	-2.02		72	1	1.05	-2.71
HI HILO		MACON	62	-4	0.63	-1.99	GRAND FORKS	47	3	0.18	-1.71	VICTORIA	72	-1	1.59	-2.38
HONOLULU		SAVANNAH	65	-4	0.93	-2.79	JAMESTOWN	47	3	0.13	-1.55	WACO	69	1	2.82	-1.59
KAHULUI	н	HILO	78	2	5.56	-4.68	NE GRAND ISLAND	55	2	0.54	-1.45	WICHITA FALLS	66	2	3.73	0.85
LIHUE 78 -1 2.12 -1.15 NORTH PLATTE 52 2 0.56 -1.09 NORFOLK 60 IA BURLINGTON 52 -2 1.91 -1.18 OMAHA 54 0 0.54 -1.78 RICHMOND 57 CEDAR RAPIDS 50 0 1.91 -1.00 SCOTTSBLUFF 51 2 0.33 -0.90 ROANOKE 56 DES MOINES 53 0 1.02 -1.76 VALENTINE 50 0 0.21 -1.21 WASH/DULLES 55 DUBUQUE 50 0 0.97 -1.95 NH CONCORD 50 1 2.68 -1.76 VT BURLINGTON 52 SIOUX CITY 51 1 0.48 -1.73 NJ ATLANTIC_CITY 56 -1 7.72 3.58 WA OLYMPIA 54 WATERLOO 51 -1 1.36 -1.39 NEWARK 56 -2 5.93 2.14 QUILLAYUTE 54 ID BOISE 57 4 0.84 0.03 NM ALBUQUERQUE 57 -1 1.53 0.67 SEATTLE-TACOMA 58 LEWISTON 58 5 1.29 0.21 NV ELY 47 0 0.33 -0.47 SPOKANE 55 POCATELLO 49 2 0.63 -0.35 LAS VEGAS 73 2 0.00 -0.31 YAKIMA 57 IL CHICAGO/O_HARE 54 0 1.64 -1.80 RENO 58 3 0.01 -0.49 WI EAU CLAIRE 48 MOLINE 53 -1 0.85 -1.96 WINNEMUCCA 53 4 0.00 -0.66 GREEN BAY 51 PEORIA		HONOLULU	81	0	0.78	-0.72	LINCOLN	55	1	0.61	-1.52	UT SALT LAKE CITY	58	3	0.81	-0.45
IA BURLINGTON 52 -2 1.91 -1.18 OMAHA 54 0 0.54 -1.78 RICHMOND 57		KAHULUI	81	2	0.28	-0.56	NORFOLK	52	2	0.63	-1.51	VA LYNCHBURG	56	-1	1.96	-1.16
CEDAR RAPIDS 50 0 1.91 -1.00 SCOTTSBLUFF 51 2 0.33 -0.90 ROANOKE 56 DES MOINES 53 0 1.02 -1.76 VALENTINE 50 0 0.21 -1.21 WASH/DULLES 55 DUBUQUE 50 0 0.97 -1.95 NH CONCORD 50 1 2.68 -1.76 VT BURLINGTON 52 SIOUX CITY 51 1 0.48 -1.73 NJ ATLANTIC_CITY 56 -1 7.72 3.58 WA DLYMPIA 54 WATERLOO 51 -1 1.36 -1.39 NEWARK 56 -2 5.93 2.14 QUILLAYUTE 54 ID BOISE 57 4 0.84 0.03 NM ALBUQUERQUE 57 -1 1.53 0.67 SEATTLE-TACOMA 58 LEWISTON 58 5 1.29 0.21 NV ELY 47 <td< td=""><td></td><td>LIHUE</td><td>78</td><td>-1</td><td>2.12</td><td>-1.15</td><td>NORTH PLATTE</td><td>52</td><td>2</td><td>0.56</td><td>-1.09</td><td>NORFOLK</td><td>60</td><td>-4</td><td>2.02</td><td>-1.84</td></td<>		LIHUE	78	-1	2.12	-1.15	NORTH PLATTE	52	2	0.56	-1.09	NORFOLK	60	-4	2.02	-1.84
DES MOINES 53 0 1.02 -1.76 VALENTINE 50 0 0.21 -1.21 WASH/DULLES 55 DUBUQUE 50 0 0.97 -1.95 NH CONCORD 50 1 2.68 -1.76 VT BURLINGTON 52 SIOUX CITY 51 1 0.48 -1.73 NJ ATLANTIC_CITY 56 -1 7.72 3.58 WA DLYMPIA 54 MATERIOO 51 -1 1.39 NEWARK 56 -2 5.93 2.14 QUILLAYUTE 54 ID BOISE 57 4 0.84 0.03 NM ALBUQUERQUE 57 -1 1.53 0.67 SEATTLE-TACOMA 58 LEWISTON 58 5 1.29 0.21 NV ELY 47 0 0.33 -0.47 SPOKANE 55 POCATELLO 49 2 0.63 -0.35 LAS VEGAS 73 2 0.00 <td>IA</td> <td>BURLINGTON</td> <td>52</td> <td>-2</td> <td>1.91</td> <td>-1.18</td> <td>ОМАНА</td> <td>54</td> <td>0</td> <td>0.54</td> <td>-1.78</td> <td>RICHMOND</td> <td>57</td> <td>-3</td> <td>1.87</td> <td>-1.52</td>	IA	BURLINGTON	52	-2	1.91	-1.18	ОМАНА	54	0	0.54	-1.78	RICHMOND	57	-3	1.87	-1.52
DUBUQUE 50 0 0.97 -1.95 NH CONCORD 50 1 2.68 -1.76 VT BURLINGTON 52 SIOUX CITY 51 1 0.48 -1.73 NJ ATLANTIC_CITY 56 -1 7.72 3.58 WA OLYMPIA 54 WATERLOO 51 -1 1.36 -1.39 NEWARK 56 -2 5.93 2.14 QUILLAYUTE 54 ID BOISE 57 4 0.84 0.03 NM ALBUQUERQUE 57 -1 1.53 0.67 SEATTLE-TACOMA 58 LEWISTON 58 5 1.29 0.21 NV ELY 47 0 0.33 -0.47 SPOKANE 55 POCATELLO 49 2 0.63 -0.35 LAS VEGAS 73 2 0.00 -0.31 YAKIMA 57 IL CHICAGO/O_HARE 54 0 1.64 -1.80 RENO 58 3				0					2					-3	2.67	-0.29
SIOUX CITY 51 1 0.48 -1.73 NJ ATLANTIC_CITY 56 -1 7.72 3.58 WA OLYMPIA 54									0					-2	2.00	-1.65
WATERLOO 51 -1 1.36 -1.39 NEWARK 56 -2 5.93 2.14 QUILLAYUTE 54 ID BOISE 57 4 0.84 0.03 NM ALBUQUERQUE 57 -1 1.53 0.67 SEATTLE-TACOMA 58 LEWISTON 58 5 1.29 0.21 NV ELY 47 0 0.33 -0.47 SPOKANE 55 POCATELLO 49 2 0.63 -0.35 LAS VEGAS 73 2 0.00 -0.31 YAKIMA 57 IL CHICAGO/O_HARE 54 0 1.64 -1.80 RENO 58 3 0.01 -0.49 WI EAU CLAIRE 48 MOLINE 53 -1 0.85 -1.96 WINNEMUCCA 53 4 0.00 -0.66 GREEN BAY 51 PEORIA 54 -1 1.63 -1.54 NY ALBANY 52 1 3.07 -0.78														2	2.53	-1.30
ID BOISE							_							4	3.14	-1.93
LEWISTON 58 5 1.29 0.21 NV ELY 47 0 0.33 -0.47 SPOKANE 55 POCATELLO 49 2 0.63 -0.35 LAS VEGAS 73 2 0.00 -0.31 YAKIMA 57 IL CHICAGO/O_HARE 54 0 1.64 -1.80 RENO 58 3 0.01 -0.49 WI EAU CLAIRE 48 MOLINE 53 -1 0.85 -1.96 WINNEMUCCA 53 4 0.00 -0.66 GREEN BAY 51 PEORIA 54 -1 1.63 -1.54 NY ALBANY 52 1 3.07 -0.78 LA CROSSE 51														4	6.87	-3.81
POCATELLO 49 2 0.63 -0.35 LAS VEGAS 73 2 0.00 -0.31 YAKIMA 57 IL CHICAGO/O_HARE 54 0 1.64 -1.80 RENO 58 3 0.01 -0.49 WI EAU CLAIRE 48 MOLINE 53 -1 0.85 -1.96 WINNEMUCCA 53 4 0.00 -0.66 GREEN BAY 51 PEORIA 54 -1 1.63 -1.54 NY ALBANY 52 1 3.07 -0.78 LA CROSSE 51	ID													4	2.48	-1.43
IL CHICAGO/O_HARE 54 0 1.64 -1.80 RENO 58 3 0.01 -0.49 WI EAU CLAIRE 48 MOLINE 53 -1 0.85 -1.96 WINNEMUCCA 53 4 0.00 -0.66 GREEN BAY 51 PEORIA 54 -1 1.63 -1.54 NY ALBANY 52 1 3.07 -0.78 LA CROSSE 51														7	0.50	-0.88
MOLINE 53 -1 0.85 -1.96 WINNEMUCCA 53 4 0.00 -0.66 GREEN BAY 51 PEORIA 54 -1 1.63 -1.54 NY ALBANY 52 1 3.07 -0.78 LA CROSSE 51														7	0.30	-0.34
PEORIA 54 -1 1.63 -1.54 NY ALBANY 52 1 3.07 -0.78 LA CROSSE 51	IL													0	0.78	-1.72
														2	1.33	-1.34
														-1 0	1.04	-1.46 1.04
														0	0.82	-1.94
SPRINGFIELD 53 -3 3.13 -0.13 BUFFALO 52 0 3.59 -0.44 MILWAUKEE 53 IN EVANSVILLE 57 -1 1.34 -2.06 ROCHESTER 50 -2 1.25 -1.96 WV BECKLEY 50	IN													0 -4	1.56 4.05	-1.22 1.32
FORT WAYNE 52 -1 1.72 -1.24 SYRACUSE 52 1 1.09 -2.79 CHARLESTON 53	IIN													-4 -4	1.81	-1.10
FORTIVATIVE 52 -1 1.72 -1.24 STANCISE 52 1 1.09 -2.79 CHARLESTON 53 1 1.09 CHARLESTON 53 1 1 1.09 CHARLESTON 53 1 1 1.09 CHARLESTON 53 1 1 1 1														-4	3.15	0.07
SOUTH BEND 53 1 3.80 0.08 CINCINNATI 55 -1 0.99 -2.35 HUNTINGTON 54														-3	1.12	-1.89
KS CONCORDIA 58 3 1.07 -0.91 CLEVELAND 54 -1 3.27 -0.33 WY CASPER 47	KS													1	0.29	-0.89
DODGE CITY 59 2 0.00 -2.02 COLUMBUS 54 -1 0.60 -2.29 CHEYENNE 49														3	0.11	-0.89
GOODLAND 57 5 0.11 -1.30 DAYTON 55 -1 0.92 -2.03 LANDER 49														3	0.31	-1.08
TOPEKA 59 2 1.26 -1.59 MANSFIELD 52 -1 1.46 -1.70 SHERIDAN 49														3	0.99	-0.57

Based on 1991-2020 normals *** Not Available

National Agricultural Summary

October 31 - November 6, 2022

Weekly National Agricultural Summary provided by USDA/NASS

HIGHLIGHTS

Much of the West recorded above-normal precipitation. In fact, much of the Pacific Northwest, Rockies, and parts of Arizona, California, and Nevada recorded at least twice the normal amount of weekly precipitation. addition, large parts of the Great Lakes, Midwest, Mississippi lower Valley, and southern Great Plains also recorded at least twice the normal precipitation. Although most of the eastern one-third of the nation was drier than normal, parts of the Carolinas and Florida

recorded at least twice the normal amount of precipitation. Meanwhile, most of the western one-third of the country reported below-normal weekly temperatures. Much of Arizona and California, as well as some locations in Nevada, Oregon, and Utah, recorded temperatures 6°F or more below normal. In contrast, the nation's midsection and East were warmer than normal. The Great Lakes, mid-Atlantic, Midwest, Northeast, Ohio Valley, and Tennessee Valley recorded temperatures 9°F or more above normal.

Corn: Eighty-seven percent of the 2022 corn acreage was harvested by week's end, 4 percentage points ahead of last year and 11 points ahead of the 5-year average pace. Harvest progress advanced 10 percentage points or more for the week in 10 of the 18 estimating states.

Soybeans: Soybean harvest across the nation was 94 percent complete by November 6, eight percentage points ahead of both last year and the 5-year average. Harvest progress was complete or nearing completion in 12 of the 18 estimating states.

Winter Wheat: Nationwide, producers had sown 92 percent of the intended 2023 winter wheat acreage by November 6, two percentage points ahead of both last year and the 5-year average. Planting progress was complete or nearing completion in 13 of the 18 estimating states. Nationwide, 73 percent of the winter wheat acreage had emerged by November 6, equal to last year but 1 percentage point behind the average. Winter wheat emergence advanced by 10 percentage points or more during the week in 13 of the 18 estimating states. As of November 6, thirty percent of the 2023 winter wheat acreage was reported in good to excellent condition, 2 percentage points above the previous week but 15 points below the same time last year.

Cotton: By November 6, sixty-two percent of the nation's cotton acreage was harvested, 8 percentage points ahead of last

year and 7 points ahead of the 5-year average. Cotton harvest advanced 10 percentage points or more for the week in eight of the 15 estimating states.

Sorghum: Eighty-seven percent of the 2022 sorghum acreage had been harvested by November 6, two percentage points ahead of last year and 8 points ahead of the 5-year average. Harvest progress was ahead of the 5-year average pace in all six estimating states.

Other Crops: Eighty-six percent of the nation's peanut acreage was harvested as of November 6, nine percentage points ahead of last year and 6 points ahead of the 5-year average. Peanut harvest progress was at or ahead of the 5-year average pace in all eight estimating states.

By November 6, sugarbeet producers had harvested 94 percent of the nation's crop, 1 percentage point behind last year but 2 points ahead of the 5-year average. Sugarbeet harvest advanced 20 percentage points during the week in Michigan.

By November 6, eighty-one percent of this year's sunflower crop was harvested, 13 percentage points ahead of last year and 20 points ahead of the 5-year average. Sunflower harvest advanced 13 percentage points or more during the week in all four estimating states.

Week Ending November 6, 2022

Corn Percent Harvested											
	Prev	Prev	Nov 6	5-Yr							
	Year	Week	2022	Avg							
СО	83	45	65	74							
IL	89	78	88	85							
IN	73	71	83	75							
IA	82	77	89	74							
KS	93	90	93	89							
KY	88	91	94	92							
МІ	61	43	60	56							
MN	91	80	92	75							
МО	90	83	90	86							
NE	81	80	90	75							
NC	99	96	98	99							
ND	80	74	91	59							
ОН	63	56	75	62							
PA	67	46	55	64							
SD	80	82	91	66							
TN	94	97	99	97							
TX	99	97	100	93							
WI	74	37	55	54							
18 Sts 83 76 87 76											
These 18 State	These 18 States harvested 93%										
of last year's	corn acı	eage.									

Sorghur	n Perc	ent Ha	rveste	d							
	Prev	Prev	Nov 6	5-Yr							
	Year	Week	2022	Avg							
co	88	65	79	75							
KS	77	68	82	70							
NE	84	75	87	77							
ОК	79	64	80	73							
SD	91	78	89	76							
TX	100	100	100	94							
6 Sts	85	77	87	79							
These 6 States harvested 100%											
of last year's sorghum acreage.											

Soybeans Percent Harvested											
	Prev	Prev	Nov 6	5-Yr							
	Year	Week	2022	Avg							
AR	88	88	94	84							
IL	84	89	94	89							
IN	76	87	93	85							
IA	94	94	97	92							
KS	78	79	88	79							
KY	65	71	80	68							
LA	97	98	100	98							
МІ	64	77	89	75							
MN	99	98	100	95							
MS	91	93	96	92							
МО	69	73	86	70							
NE	94	97	100	95							
NC	55	45	55	48							
ND	98	99	100	89							
ОН	80	87	92	84							
SD	98	97	99	95							
TN	64	73	80	69							
WI	92	86	95	84							
18 Sts 86 88 94 86											
These 18 State	These 18 States harvested 96%										
of last year's	soybear	acreage									

Peanuts Percent Harvested											
	Prev	Prev	Nov 6	5-Yr							
	Year	Week	2022	Avg							
AL	75	80	87	81							
FL	92	92	94	94							
GA 79 83 89 83											
NC	83	79	89	78							
ок	66	59	70	69							
sc	62	66	80	72							
ΤX	57	55	60	56							
VA	94	95	98	89							
8 Sts 77 79 86 80											
These 8 States harvested 96%											
of last year's peanut acreage.											

Cotton Percent Harvested												
	Prev	Prev	Nov 6	5-Yr								
	Year	Week	2022	Avg								
AL	50	59	70	60								
AZ	51	43	49	45								
AR	85	87	97	88								
CA	82	60	70	56								
GA	46	47	58	56								
KS	16	50	65	19								
LA	85	95	98	92								
MS	70	84	92	81								
МО	73	68	92	75								
NC	55	60	71	60								
ок	47	29	45	39								
sc	33	51	58	52								
TN	52	65	74	66								
TX	50	48	51	48								
VA	44	68	74	59								
15 Sts	54	55	62	55								
These 15 States harvested 99% of last year's cotton acreage.												

Sugarbeets Percent Harvested											
	Prev	Prev	Nov 6	5-Yr							
	Year	Week	2022	Avg							
ID 92 85 92 9											
МІ	77	51	71	76							
MN	99	100	100	96							
ND	99	97	100	95							
4 Sts	95	89	94	92							
These 4 States harvested 84%											
of last year's sugarbeet acreage.											

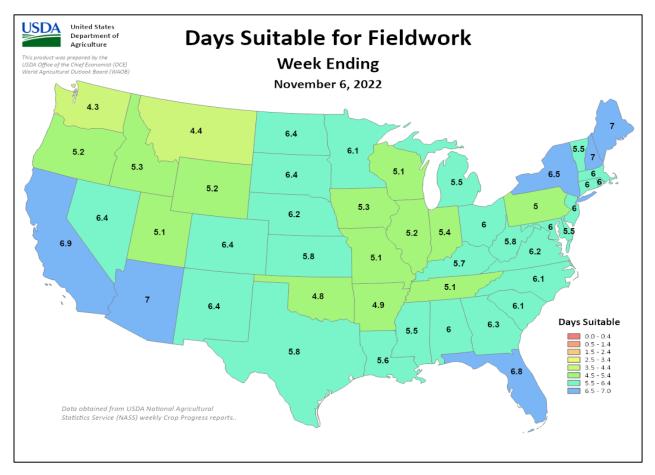
Sunflowers Percent Harvested												
	Prev	Prev	Nov 6	5-Yr								
	Year	Week	2022	Avg								
CO 60 40 53 70												
KS	80	65	78	68								
ND	65	62	82	62								
SD	69	60	84	58								
4 Sts 68 60 81 61												
These 4 States harvested 86%												
of last year's sunflower acreage.												

Week Ending November 6, 2022

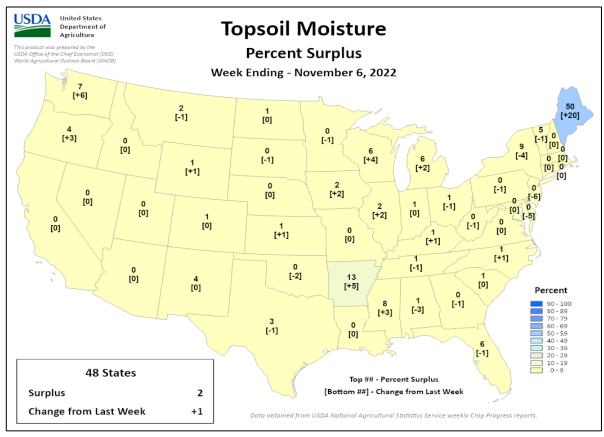
	Prev	Prev	Nov 6	5-Yr	
	Year	Week	2022	Avg	
AR	69	48	67	71	
CA	43	30	45	38	
СО	99	98	99	99	
ID	100	95	99	100	
IL	79	80	95	88	
IN	84	81	90	88	
KS	94	87	93	93	
MI	84	94	98	91	
МО	75	68	83	69	
MT	98	98	99	97	
NE	100	98	100	100	
NC	48	38	54	46	
ОН	85	93	97	94	
OK	88	84	90	89	
OR	93	94	98	95	
SD	100	99	100	100	
TX	83	84	88	81	
WA	100	98	99	98	
18 Sts 90 87 92 90					
These 18 States planted 89% of last year's winter wheat acreage.					

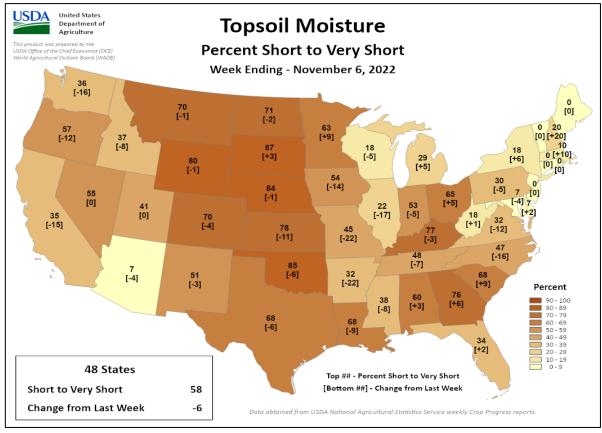
Winter Wheat Percent Emerged					
	Prev	Prev	Nov 6	5-Yr	
	Year	Week	2022	Avg	
AR	51	22	43	54	
CA	19	10	15	16	
CO	83	75	85	88	
ID	91	75	88	88	
IL	58	26	45	71	
IN	63	42	63	70	
KS	79	58	68	76	
МІ	73	74	91	77	
MO	57	35	57	49	
MT	79	84	93	79	
NE	93	94	96	94	
NC	30	17	32	29	
ОН	73	57	73	81	
ок	71	62	75	77	
OR	49	51	63	56	
SD	95	68	75	92	
TX	62	59	67	64	
WA	84	77	90	82	
18 Sts 73 62 73 74					
These 18 States planted 89%					
of last year's winter wheat acreage.					

Winter Wheat Condition by						
Percent						
	VP	Р	F	G	EX	
AR	0	4	21	49	26	
CA	0	0	5	55	40	
СО	19	25	34	21	1	
ID	2	5	45	41	7	
IL	5	8	53	29	5	
IN	1	4	28	55	12	
KS	20	22	32	24	2	
MI	2	8	31	46	13	
МО	1	10	31	53	5	
MT	10	14	52	20	4	
NE	17	19	40	21	3	
NC	0	5	22	72	1	
ОН	6	8	35	39	12	
ок	17	25	44	13	1	
OR	2	4	17	36	41	
SD	9	25	40	26	0	
TX	24	25	37	13	1	
WA	1	6	29	53	11	
18 Sts	15	19	36	25	5	
Prev Wk	17	18	37	23	5	
Prev Yr	9	13	33	39	6	

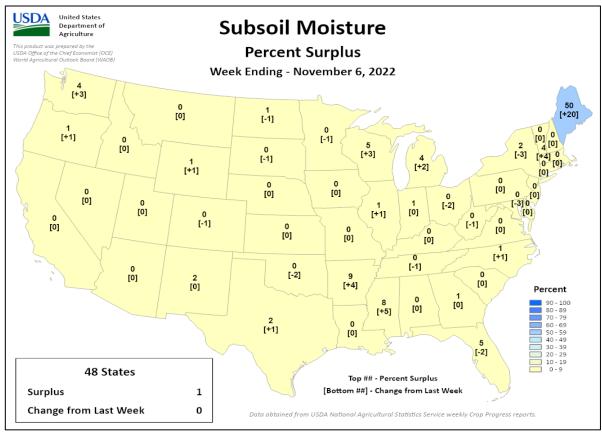


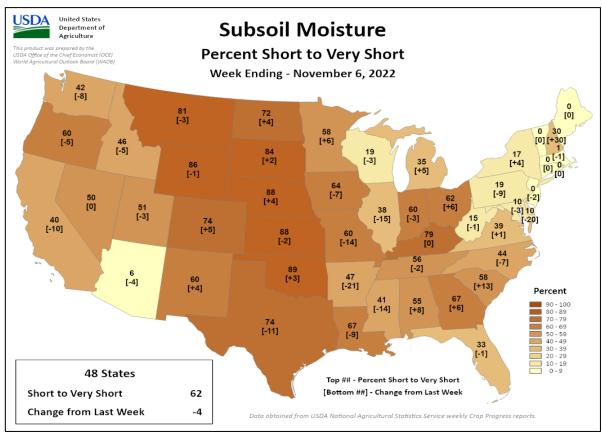
Week Ending November 6, 2022





Week Ending November 6, 2022





International Weather and Crop Summary

October 30 – November 5, 2022
International Weather and Crop Highlights and Summaries provided by USDA/WAOB

HIGHLIGHTS

EUROPE: Warm weather prevailed over much of Europe, though widespread showers returned to many of the continent's primary winter crop areas.

MIDDLE EAST: Mostly dry weather favored winter grain sowing but kept soil moisture very limited for crop establishment.

NORTHWESTERN AFRICA: Sunny skies and summer-like heat kept soils devoid of moisture for early winter grain planting and establishment over much of the region.

SOUTH ASIA: Seasonably dry weather across much of India and Pakistan aided rabi crop sowing and other fieldwork.

EAST ASIA: Sunny, mild weather continued to aid winter crop establishment but also necessitated more irrigation which may be limited in some areas from lingering drought.

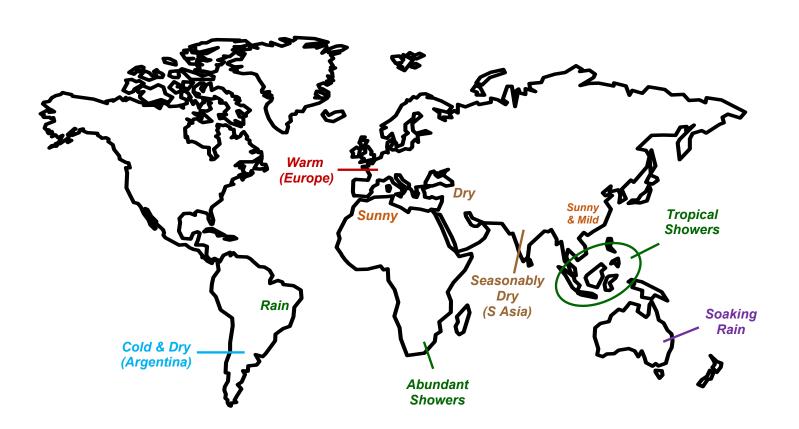
SOUTHEAST ASIA: Showers across the Philippines and southern portions of the region maintained ample moisture supplies as the next cropping cycle of rice begins.

AUSTRALIA: Soaking rain in the east further delayed fieldwork and raised additional concerns about crop quality.

SOUTH AFRICA: Showers maintained favorable prospects for corn and other rain-fed summer crops.

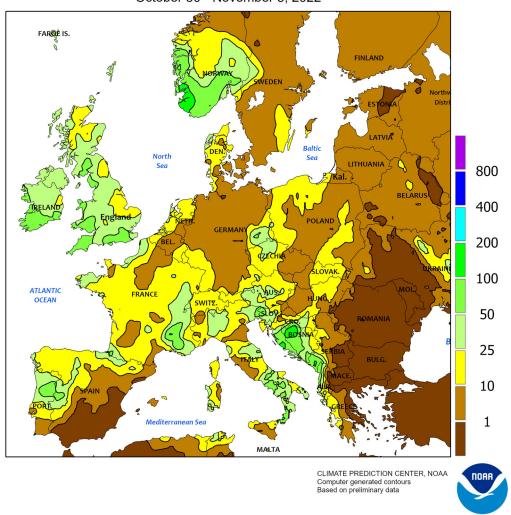
ARGENTINA: Cold, mostly dry weather placed additional stress on immature winter grains.

BRAZIL: Rain provided additional moisture for germination of soybeans and other summer crops in the northeastern interior.



For additional information contact: $\underline{\texttt{mark.brusberg@usda.gov}}$

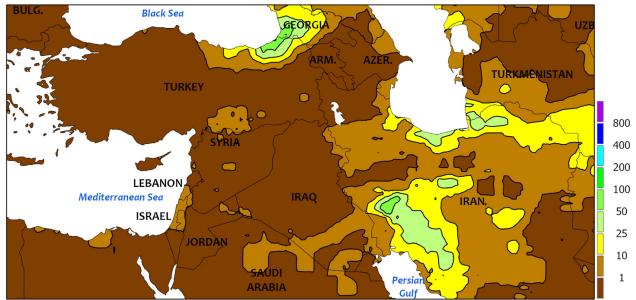
EUROPE
Total Precipitation(mm)
October 30 - November 5, 2022



EUROPE

Showers returned to much of Europe while warmer-thannormal weather persisted. Rainfall during the monitoring period totaled 5 to 50 mm (locally more) across most of the continent's primary winter crop areas, though dry conditions were noted in southern portions of Spain and the Balkans. Consequently, moisture supplies for winter barley, wheat, and rapeseed remained overall favorable. However, longer-term deficits persisted across western and southern France as well as central and northern Italy. While rainfall during the past week was non-existent over Greece and the southeastern Balkans, many of these same crop areas were hit with very heavy rain in late September and early October. Temperatures averaged 2 to 6°C above normal over western and central Europe and up to 8°C above normal in the Danube River Valley; the warmth kept winter crops from going dormant, even in the typically colder northeastern climates.

MIDDLE EAST Total Precipitation(mm) October 30 - November 5, 2022



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



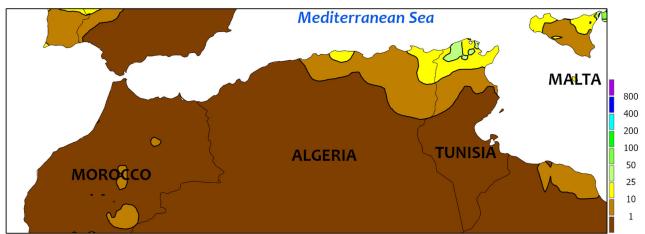
MIDDLE EAST

Dry weather prevailed across the region save for locally heavy showers in southwestern Iran. Little to no rainfall was recorded from Turkey and the eastern Mediterranean Coast into northwestern Iran, leaving many of these primary crop areas devoid of soil moisture for winter grain planting and establishment. Even the Anatolian Plateau of central Turkey has trended dry after favorable early autumn rain. However, light showers in northeastern Iran (1-12 mm)

moistened soils locally, while moderate to heavy rain (10-65 mm) in southwestern Iran benefited winter wheat and barley establishment. Above-normal temperatures across central and southern portions of the Middle East (2-5°C above normal) contrasted with near-normal temperatures over much of Turkey, though 7-day average temperatures remained well above 5°C (the threshold for winter crop dormancy) across the entire region.

NORTHWESTERN AFRICA Total Precipitation(mm)

October 30 - November 5, 2022



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

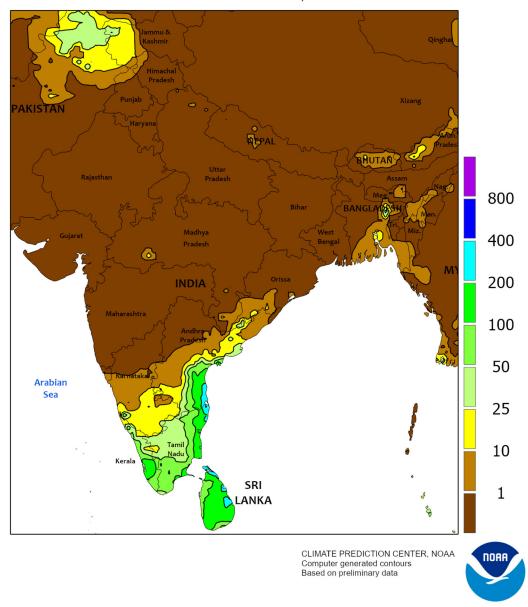


NORTHWESTERN AFRICA

Despite some showers in the east, drought intensified across much of the region. No rain was reported during the monitoring period from Morocco into western Algeria. Season-to-date (since September 1) regional-average rainfall in Morocco's primary croplands stood at a meager 15 mm, a deficit of 70 mm (less than 20 percent of normal) and the second driest start to the autumn-winter growing campaign over the past 30 years; last year's historic drought in Morocco was marginally worse at this same time. Exacerbating the impacts of the acute dryness were temperatures averaging up to 5°C above normal over western and central Morocco, with daytime

highs into the middle and upper 30s (degrees C) more typical of August. Western Algeria likewise saw temperatures surge into the lower 30s, which kept evapotranspiration rates very high. Highly variable showers (2-30 mm) in northeastern Algeria moistened soils locally for wheat and barley planting, while moderate to heavy rain (10-25 mm) in northern Tunisia quickly transitioned to dry weather away from the coast. It is still early in the winter grain growing campaign, although winter grain sowing typically begins in November and producers will need soaking rainfall soon for uniform crop establishment.

SOUTH ASIA Total Precipitation(mm) October 30 - November 5, 2022



SOUTH ASIA

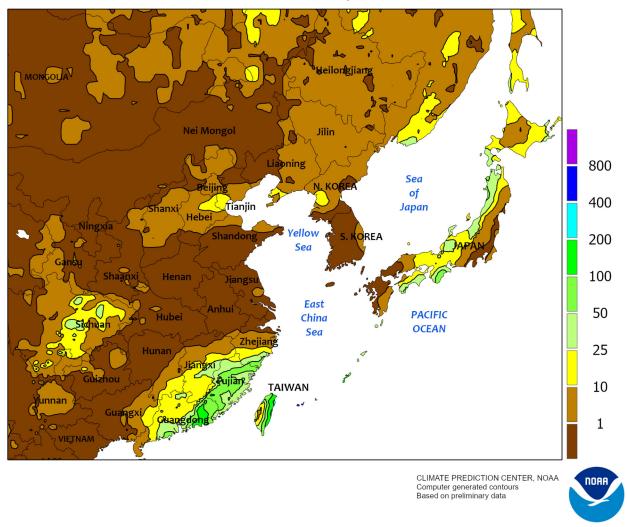
Seasonably dry weather prevailed across most of the region with showers (25-100 mm) limited to locales in southern-most India. The dry weather supported fieldwork that included rabi crop sowing in India and Pakistan. In fact, rabi sowing in

India was well ahead of last year at this time in most areas due to ample moisture from better-than-average monsoon rain. Meanwhile, the rainfall in the south not only boosted moisture reserves for rabi crops but also later-planted kharif cotton.

EASTERN ASIA

Total Precipitation(mm)

October 30 - November 5, 2022



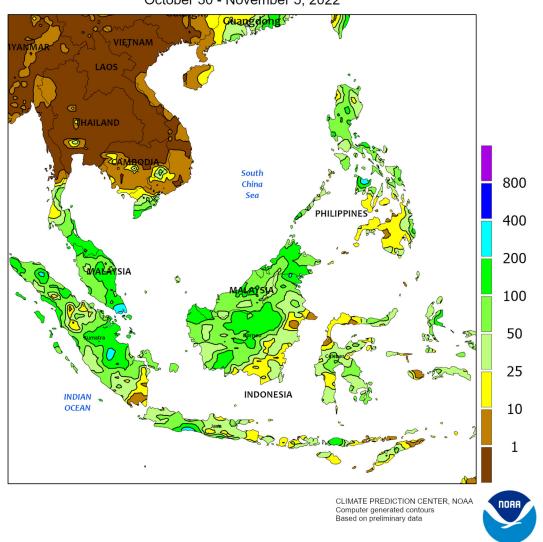
EASTERN ASIA

Dry weather prevailed across most of eastern and southern China with the sunny conditions supporting wheat and rapeseed establishment. In addition, temperatures remained 1 to 3°C above normal, further promoting crop development. However, the warm, dry weather reduced soil moisture and necessitated more irrigation; irrigation supplies in the Yangtze Valley may be limited due to lingering late-summer drought

(35 percent of normal rainfall since August 1). Meanwhile, showers (10-50 mm or more) from a weakening tropical cyclone (Nalgae) moved into southeastern China, providing limited relief from unrelenting drought since late summer.

This will be the last weekly summary for East Asia. Coverage will resume in March 2023.

SOUTHEAST ASIA Total Precipitation(mm) October 30 - November 5, 2022

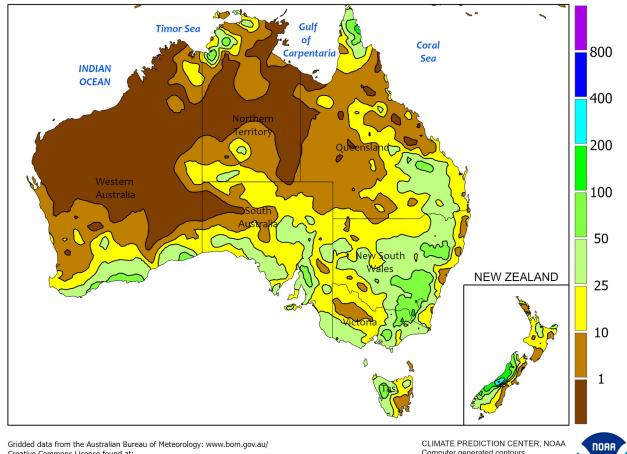


SOUTHEAST ASIA

Showers lingered across the northern Philippines as Tropical Cyclone Nalgae moved offshore early in the period. Rainfall totals between 25 and 100 mm were common in the northern half of the Philippines, slowing seasonal fieldwork but maintaining favorable moisture conditions ahead of the next growing cycle. Similar totals also prevailed in southern

sections of the region (Malaysia and Indonesia), slowing oil palm harvesting but aiding rice establishment, particularly in the main growing area of Java, Indonesia. Meanwhile, seasonably dry weather in Thailand and the surrounding areas supported maturation and harvesting of wet-season rice as well as sowing of the next rice crop.

AUSTRALIA Total Precipitation(mm) October 30 - November 5, 2022



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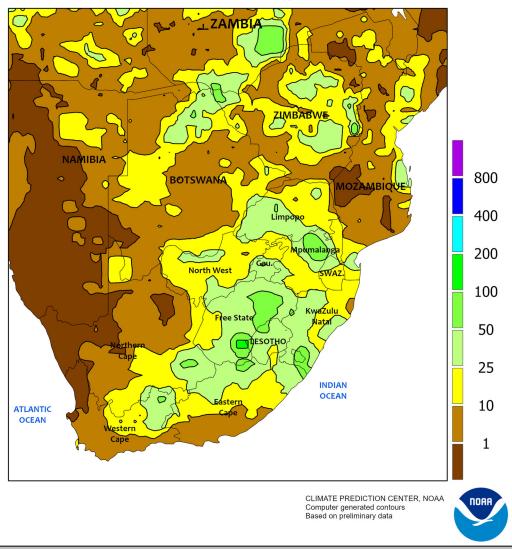


AUSTRALIA

Widespread, soaking rain slid across the wheat belt early in the week, slowing winter crop drydown and harvesting and raising more concerns about crop quality in the east. Fieldwork delays were most pronounced in eastern Australia, where chronic wetness has hampered winter crop harvesting and summer crop planting during the past several weeks. Rainfall amounts generally ranged from 20 to 50 mm in most areas. Drier

weather overspread the wheat belt during the second half of the however, bringing much-needed sunshine to waterlogged portions of the east. The tranquil weather helped ease local flooding and allowed fieldwork to regain momentum, albeit slowly, in eastern Australia. Temperatures averaged 2 to 5°C below normal, with maximum temperatures in the 20s (degrees C) in most areas.

SOUTH AFRICA
Total Precipitation(mm)
October 30 - November 5, 2022



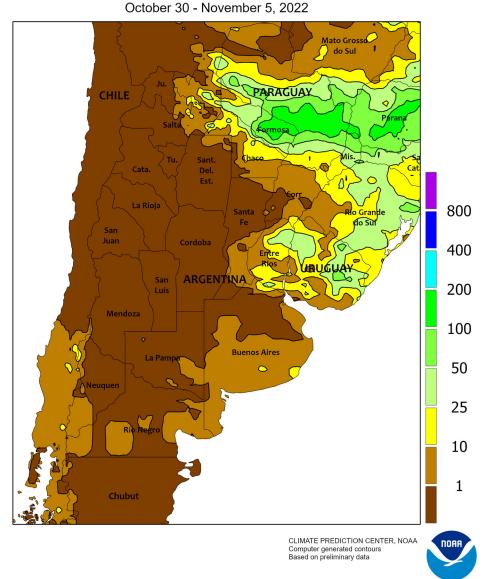
SOUTH AFRICA

Widespread, locally heavy showers maintained favorable prospects for emerging corn and other rain-fed summer crops. Rainfall totaling 25 to 50 mm spanned key commercial farming areas from Limpopo southward to KwaZulu-Natal and the Cape Provinces, increasing topsoil moisture for early summer crop growth and helping to build long-term moisture

reserves for irrigation. Cooler-than-normal weather accompanied the wetness, although nighttime lows stayed well above freezing and daytime highs reached the middle 20s and lower 30s (degrees C). Elsewhere, warm, sunny weather favored development of tree and vine crops in Western Cape, which are predominantly irrigated.

ARGENTINA

Total Precipitation(mm)

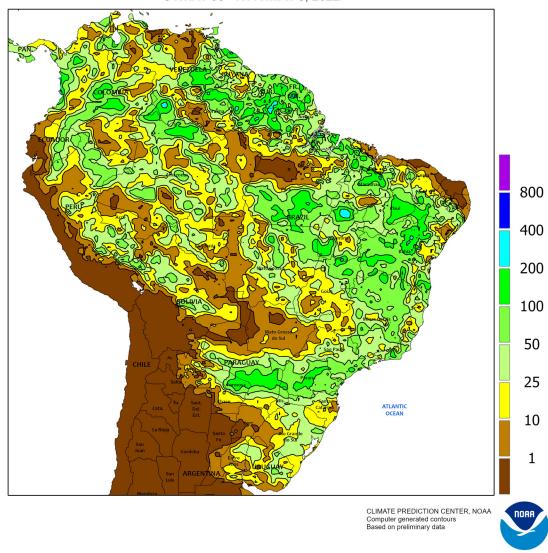


ARGENTINA

Mostly dry, cooler-than-normal weather dominated nearly all major farming areas, providing little to no drought relief and raising concern for additional frost damage to immature winter grains. Measurable rainfall was generally confined to Buenos Aires (1-15 mm) and the northeast (10-50 mm, reaching 100 mm near the border with Paraguay), with near complete dryness in other parts of the country. Below-normal temperatures accompanied the dryness, with frost and freezes (nighttime lows

dropping as low as -2°C) reported in the vicinity of Córdoba following the passage of an early-week cold front. According to the government of Argentina, sunflowers and corn were 39 and 23 percent planted, respectively, as of November 3; corn was 16 percent planted in Buenos Aires, compared with 54 percent last year. In addition, cotton was 12 percent planted versus 26 percent last year. The report also noted visible damage to flowering and filling wheat from the recent frost.

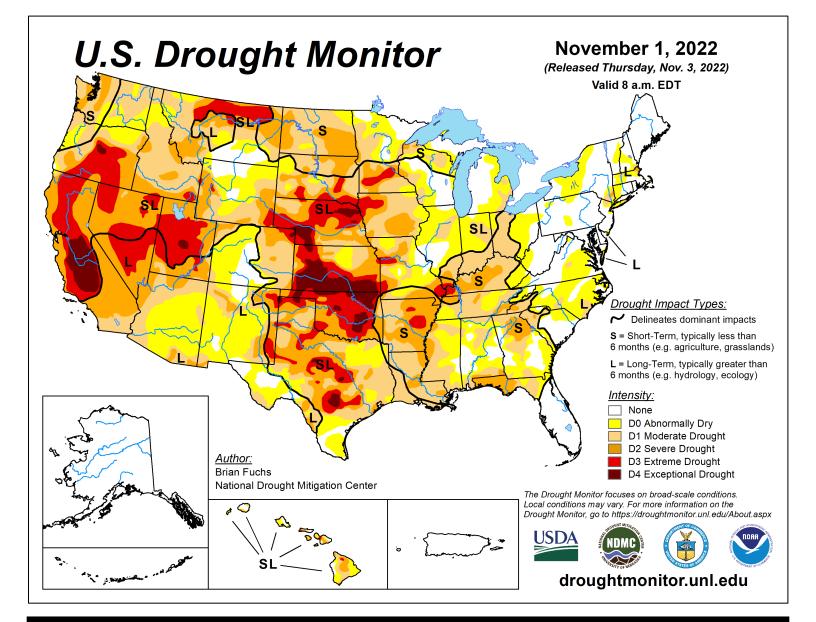
BRAZIL
Total Precipitation(mm)
October 30 - November 5, 2022



BRAZIL

A second week of widespread, locally heavy showers provided additional moisture for soybeans and other emerging summer crops. Rainfall totaling 25 to 50 mm – locally exceeding 100 mm – covered a broad area extending from northern Minas Gerais northward into Tocantins, including key farming areas in western Bahia. Following the relatively late arrival of seasonal rainfall in the aforementioned region, the moisture was especially timely. Elsewhere, showers tapered off to below-normal levels, with many locations from western Mato Grosso to Rio

Grande do Sul recording less than 25 mm. While allowing seasonal fieldwork, the dryness – punctuated by daytime highs locally reaching the middle 30s (degrees C) – necessitated a return to seasonal rainfall to ensure uniform germination of later-planted summer crops. According to the government of Mato Grosso, soybeans were 94 percent planted as of November 4, compared with the 5-year average of 82 percent. In Paraná, first-crop corn and soybeans were 91 and 67 percent planted, respectively, as of October 31; in addition, wheat was 72 percent harvested.



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