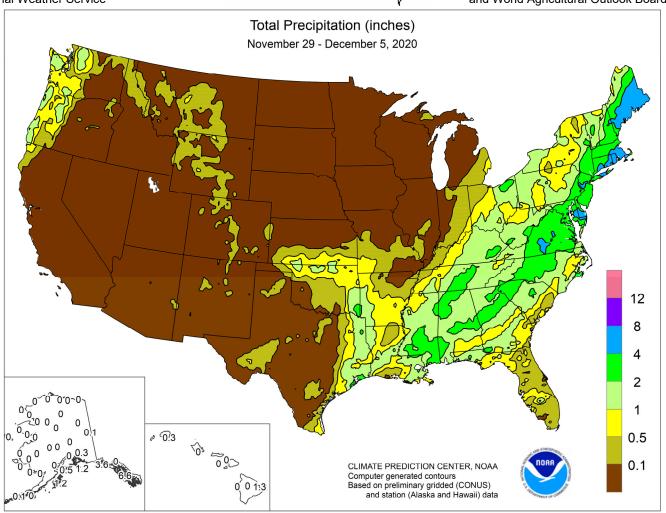
WEEKEY MATHER AND CROP BULLETIN

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

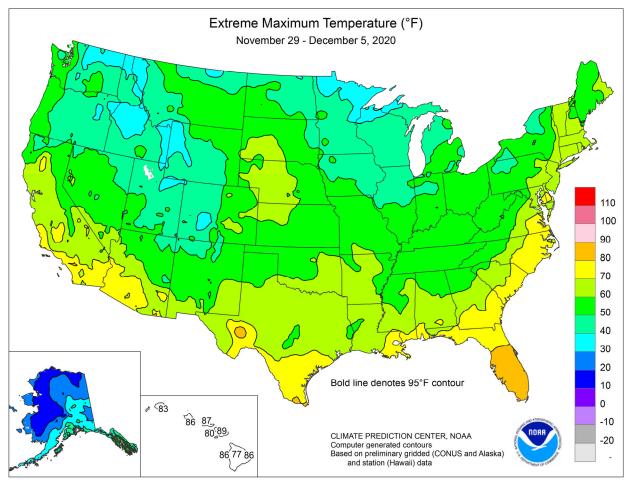


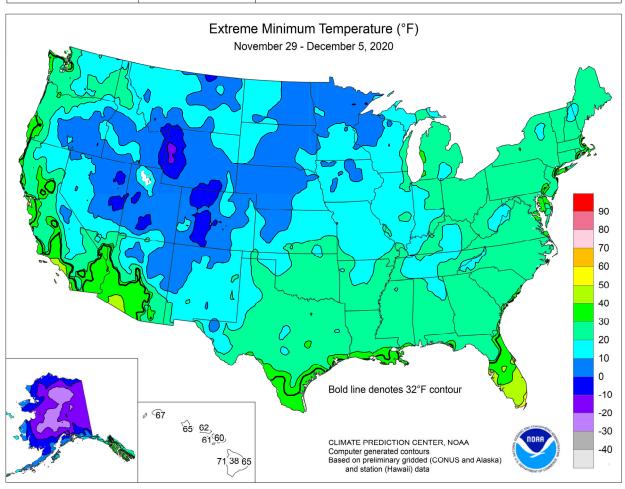
HIGHLIGHTS

November 29 – December 5, 2020

Highlights provided by USDA/WAOB

generally dry weather pattern ended late in the week with the passage of a storm system across the Southeastern and Atlantic Coast States. Before reaching the South, the storm had produced beneficial precipitation across portions of the central and southern Plains, although coverage was limited. On December 2-3, a few inches of snow blanketed parts of southern Kansas, northern Oklahoma, and the northern panhandle of Texas. At week's end (on December 5), snow fell heavily in northern New England. Earlier, snow had fallen





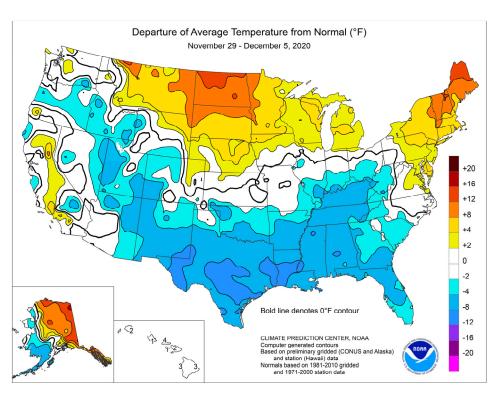
(Continued from front cover)

across the eastern Corn Belt and interior Northeast, hampering final corn harvest efforts. Some of the heaviest snow affected northern Ohio on December 1. remainder of the country experienced dry weather, aside from scattered showers in the Pacific Northwest. Southern California endured a protracted period of offshore (Santa Ana) winds, leading to the rapid expansion of several new wildfires. Weekly temperatures averaged at least 10°F above normal in parts of eastern Montana and the Dakotas. Meanwhile, readings averaged 5 to 10°F below normal from the southern Rockies into the Southeast. Freezes reached deep into the South but did not affect citrus production areas in Florida or Texas. Although several light freezes affected California's Central Valley, most of the Far West avoided significant cold-related concerns.

Early in the week, persistently chilly conditions settled across California's Central Valley, where Modesto posted a daily-record low of 28°F on November 29. In early December, cold air pushed into the South. Daily-record lows for December 1 dipped to 19°F in Batesville, AR, and 22°F in

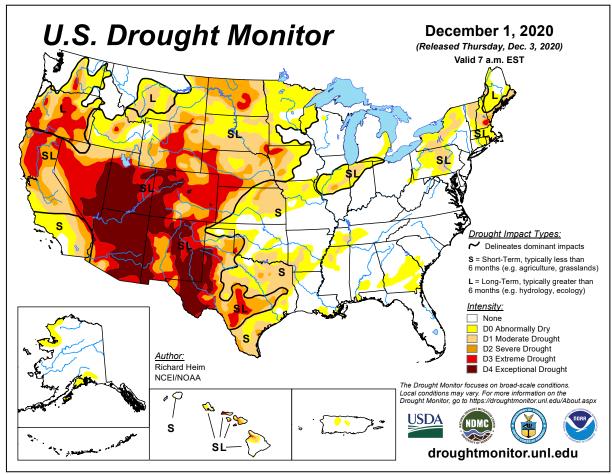
Austin, TX. Farther east, however, warmth surged northward along the Atlantic Seaboard in advance of a strong cold front. The 1st was the warmest December day on record in Maine locations such as Caribou and Houlton—both reached 60°F. The previous record in Caribou had been 58°F on December 5 and 12, 1950, while Houlton's monthly record had been 59°F on December 5, 1950, and December 11, 1969. Caribou also set a record high for any winter (December to February) day; previously, the record had been 59°F on February 20, 1994. Elsewhere in New England, daily-record highs for December 1 reached 66°F in Burlington, VT, and 62°F in Bangor, ME. Later, warmth arrived in the Pacific Northwest, where Seattle, WA, registered a daily-record high of 60°F on December 2. Warmth replaced previously cool conditions in much of California, where Red Bluff posted a daily-record high of 74°F on December 4. Farther inland, however, lingering cold weather led to recordsetting lows for December 4 in Winslow, AZ (3°F), and at Utah's Kodachrome Basin State Park (-6°F). At week's end, another round of warmth overspreading the Northwest produced record-setting highs for December 5 in Astoria, OR (61°F), and Seattle, WA (58°F).

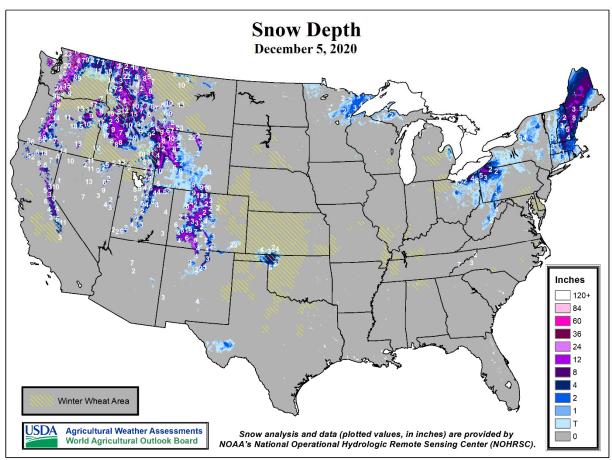
On the last day of November, heavy rain swept across the middle and northern Atlantic States. Daily-record totals for November 30 topped the 2-inch mark in Allentown, PA (2.76 inches); Providence, RI (2.74 inches); Baltimore, MD (2.74 inches); Lynchburg, VA (2.55 inches); Washington, DC (2.39 inches); Worcester, MA (2.38 inches); and Cape Hatteras, NC (2.16 inches). Meanwhile, rain changed to snow and began to accumulate across portions of the Ohio Valley and lower Great Lakes region. Lexington, KY, received 3.8 inches of snow, including 2.3 inches on the 30th and 1.5 inches on the 1st. In Ohio, December 1 snowfall totaled 9.5 inches in Cleveland, 7.7 inches in Youngstown, and 1.4 inches in Dayton. Farther west, winds began to ramp up across southern California, peaking in many locations before daybreak on December 3. Pre-dawn gusts ranged from 70 to 95 mph in several locations, topping out in San Diego County at 95 mph on Big Black Mountain, north of Ramona, and 93 mph on Sill Hill. In Orange County, CA, the Bond Fire ignited late December 2 in Silverado Canyon, east of Santa Ana, quickly scorching 7,375 acres of vegetation and damaging or destroying nearly four dozen structures. In contrast, early-month snow blanketed portions of the Plains. December 2-3 snowfall totaled 2.6 inches in Dodge City, KS, and 1.3 inches in Amarillo, TX. Unofficial amounts topped a foot, with 14 inches of snow reported in Oklahoma communities such as Buffalo and Gage. Late in the week, the same storm system responsible for the Plains'



snow resulted in another round of heavy precipitation in the East. Record-setting precipitation amounts for December 5 reached 3.04 inches in Salisbury, MD; 2.02 inches in Richmond, VA; 1.99 inches in Portland, ME; and 1.97 inches in Worcester, MA. Worcester also received 9.6 inches of snow on the 5th, a record for the date. December 5-6 snowfall in Caribou, ME, totaled 13.8 inches. At the height of the storm on December 5, peak wind gusts in Massachusetts included 58 mph at the Blue Hill Observatory and 56 mph in Plymouth. Meanwhile in Virginia, Lynchburg achieved an annual precipitation record, with 65.99 inches through December 5; the previous record of 65.70 inches had been set in 2018

In early December, stormy weather and record-setting warmth engulfed southeastern Alaska, triggering several landslides near the community of Haines. Meanwhile, cold air settled across west-central and southwestern Alaska. In the Aleutians, Cold Bay collected consecutive daily-record lows (10 and 9°F, respectively) on December 2-3. Meanwhile, December 1 was the wettest day on record in Juneau, where 4.93 inches fell. The previous wettest December day in Juneau was 3.11 inches on December 19, 1937, while the wettest day during any month had been 4.62 inches on October 10, 1946. Juneau also experienced daily-record highs on December 1-2 and 4-5—respective readings reached 49, 52, 47, and 49°F. Mild weather briefly extended across interior Alaska, where Fairbanks notched a daily-record high of 39°F on December 1. Following Ketchikan's extremely wet November, when 30.05 inches (181 percent of normal) fell, rain during the first 5 days of December totaled 14.57 inches. **Ketchikan** also clocked peak wind gusts to 55 mph on December 1 and 4. Other peak gusts on the 1st included 73 mph in Sitka and 62 mph in Juneau. At Haines Airport, near some of the worst landslides, December 1-5 precipitation totaled 12.40 inches. Elsewhere in southeastern Alaska, Pelican's 9.75-inch total on December 1-2 eclipsed a 24-hour record for that location (previously, 8.41 inches on November 18-19, 2005). Farther south, building Hawaiian warmth accompanied mostly dry weather. During the first 5 days of December, no rain fell in Honolulu, Oahu, and Kahului, Maui, while precipitation totaled 0.01 inch in Lihue, Kauai. Kahului posted daily-record highs of 89°F on December 3 and 5. Other daily-record highs for the 5th included 86°F in Hilo, on the Big Island, and 83°F in Lihue. In addition, Kahului completed its warmest November on record, with a monthly average temperature of 79.3°F (3.3°F above normal). **Kahului's** previous November record of 79.0°F had been set in 1984.





National Weather Data for Selected Cities

Weather Data for the Week Ending December 5, 2020
Data Provided by Climate Prediction Center

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	STATES	7	ΓEMF	PERA	TUR	E°	F	PRECIPITATION							HUMIDITY		TEMP. °F		PRECIP	
							- 1		-1							T T		_		
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 DEC 1	PCT. NORMAL SINCE DEC 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
AK	ANCHORAGE BARROW	29 12	15 6	45 19	-3 0	22 9	2	0.32 0.65	0.06 0.61	0.30 0.40	5.33 2.80	84 191	16.96 6.08	108 128	90 82	68 74	0	7 7	2 6	0
	FAIRBANKS	19	-5	39	-20	7	0	0.05	-0.08	0.40	3.48	127	12.92	128	85	70	0	7	2	0
	JUNEAU	46	39	52	34	42	11	8.43	7.00	4.65	26.22	107	73.05	127	94	74	0	0	7	3
	KODIAK	35	20	44	14	28	-4	1.23	-0.66	0.84	23.52	98	47.23	66	85	63	0	6 7	4	1
AL	NOME BIRMINGHAM	18 54	0 33	25 59	-8 24	9 44	-3 -6	0.06 1.04	-0.19 -0.16	0.04 0.76	7.02 9.11	128 70	17.33 69.59	108 138	85 87	63 46	0	4	2	1
	HUNTSVILLE	51	28	58	20	40	-8	1.82	0.46	0.83	13.08	99	67.60	136	97	54	0	5	4	2
	MOBILE	62	35	70	26	48	-7	1.94	0.79	1.27	12.63	85	55.65	89	95	49	0	3	2	2
AR	MONTGOMERY FORT SMITH	58 51	34 32	64 61	24 22	46 42	-6 -3	1.94 1.43	0.74 0.52	1.90 1.08	12.78 17.31	103 128	64.00 59.21	130 138	91 90	48 47	0	3	3	1
AIX	LITTLE ROCK	52	32	62	23	42	-5 -5	0.50	-0.78	0.29	7.89	55	53.14	116	90	44	0	4	3	0
AZ	FLAGSTAFF	46	15	52	10	31	-1	0.00	-0.39	0.00	0.81	13	9.44	46	59	17	0	7	0	0
	PHOENIX PRESCOTT	70 56	45 21	74 62	41 17	58 39	0 -2	0.00	-0.20 -0.22	0.00	0.00 0.19	0 5	4.64 6.65	62 49	38 48	11 12	0	0 7	0	0
	TUCSON	69	39	73	34	54	0	0.00	-0.22	0.00	0.19	5	4.01	36	33	10	0	0	0	0
CA	BAKERSFIELD	67	40	74	37	53	4	0.00	-0.19	0.00	0.40	33	5.15	90	53	19	0	0	0	0
	EUREKA	50	38	54	35	44	-5 3	0.16	-1.62	0.16	3.82	39	21.17	63	94	86	0	0	1	0
	FRESNO LOS ANGELES	66 73	38 48	69 77	35 46	52 61	3	0.00	-0.29 -0.34	0.00	0.30 0.12	14 5	4.96 7.48	49 67	68 75	25 11	0	0	0	0
	REDDING	66	34	72	29	50	3	0.00	-1.33	0.00	1.52	18	15.69	53	78	26	0	3	0	0
	SACRAMENTO	64	35	66	32	50	1	0.00	-0.63	0.00	0.54	14	5.29	33	88	31	0	1	0	0
	SAN DIEGO SAN FRANCISCO	73 61	46 44	79 65	43 41	59 53	1 1	0.00	-0.29 -0.74	0.00	0.40 0.32	20 7	7.41 4.62	81 26	67 89	15 48	0	0	0	0
	STOCKTON	67	35	67	30	51	3	0.00	-0.44	0.00	0.10	3	4.24	34	79	30	0	1	0	0
CO	ALAMOSA	43	5	52	0	24	2	0.01	-0.08	0.01	1.36	70	4.29	61	89	25	0	7	1	0
	CO SPRINGS DENVER INTL	49 47	23 22	63 59	10 17	36 34	5 3	0.00	-0.09 -0.10	0.00	0.62 1.76	24 64	9.32 8.44	56 59	53 67	18 25	0	6 7	0	0
	GRAND JUNCTION	47	17	50	11	31	-1	0.00	-0.10	0.00	1.70	61	5.00	59 54	61	23	0	7	0	0
	PUEBLO	52	15	61	6	33	1	0.00	-0.11	0.00	1.46	70	5.39	43	70	19	0	7	0	0
CT	BRIDGEPORT	53	38	65	34	46	5	1.98	1.15	1.42	12.46	113	39.28	98	86	53	0	0	3	1
DC	HARTFORD WASHINGTON	54 54	33 40	67 65	28 31	44 47	7 3	3.56 3.68	2.67 2.92	1.88 2.38	15.29 17.65	119 163	36.48 54.06	84 145	87 84	47 41	0	3	2 5	2 2
DE	WILMINGTON	52	36	64	30	44	3	2.92	2.07	1.88	14.79	129	48.29	120	85	45	0	3	3	2
FL	DAYTONA BEACH	69	50	80	39	60	-3	0.20	-0.35	0.20	17.67	124	46.11	97	96	48	0	0	1	0
	JACKSONVILLE KEY WEST	65 77	41 67	74 82	28 62	53 73	-5 -1	0.20 0.52	-0.40 -0.04	0.12 0.48	13.41 27.81	91 194	51.71 51.51	103 135	97 84	51 63	0	2	2	0
	MIAMI	78	62	84	53	70	-2	0.32	-0.41	0.48	32.66	164	83.26	138	86	53	0	0	1	0
	ORLANDO	70	50	81	39	60	-5	0.08	-0.50	0.08	18.74	157	52.17	107	93	46	0	0	1	0
	PENSACOLA	64	40 39	73	30 27	52 52	-4 -4	3.18	2.06	1.73 2.01	13.58	81	57.26	93	90 94	52	0	1 2	2	2
	TALLAHASSEE TAMPA	65 72	53	73 80	40	63	-4	2.24 0.31	1.32 -0.20	0.31	16.50 12.74	137 121	58.09 43.98	103 99	82	51 44	0	0	1	1
	WEST PALM BEACH	78	60	84	47	69	-1	0.36	-0.47	0.35	28.39	150	69.00	115	84	54	0	0	2	0
GA	ATHENS	57	36	61	26	46	-2	2.54	1.63	1.24	14.59	122	60.24	139	84	48	0	2	3	2
	ATLANTA AUGUSTA	55 61	36 35	60 70	28 25	46 48	-3 -2	1.66 0.74	0.65 0.02	1.41 0.33	17.09 8.95	134 91	65.35 53.85	140 132	85 91	50 45	0	3	3	1
	COLUMBUS	61	36	67	27	48	-4	1.46	0.36	1.29	15.90	151	64.88	150	88	48	0	3	3	1
	MACON	62	36	69	26	49	-2	0.82	-0.11	0.57	15.06	145	58.13	137	92	49	0	3	3	1
ні	SAVANNAH HILO	65 84	40 68	77 86	29 65	52 76	-3 3	0.37 1.34	-0.23 -1.63	0.20 0.62	11.11 33.20	100 89	48.41 108.28	106 92	90 85	49 54	0	2	3 5	0
I	HONOLULU	84	69	86	65	77	1	0.00	-0.56	0.00	3.50	65	13.41	93	82	50	0	0	0	0
	KAHULUI	86	66	89	60	76	2	0.00	-0.70	0.00	0.81	18	11.47	75	78	48	0	0	0	0
IA	LIHUE BURLINGTON	82 43	70 22	83 48	67 16	76 32	2 -2	0.33	-0.78 -0.56	0.23	9.28 7.36	82 77	39.61 26.65	121 72	90 89	64 51	0	0 7	3 0	0
1/4	CEDAR RAPIDS	40	18	46	10	29	1	0.00	-0.42	0.00	10.31	126	29.00	86	90	51	0	7	0	0
	DES MOINES	44	21	51	14	32	2	0.00	-0.39	0.00	10.61	130	31.46	90	83	44	0	7	0	0
	DUBUQUE SIOLIX CITY	40 45	21 17	46 51	13 9	31 31	3 4	0.00	-0.52 -0.24	0.00	14.40 4.94	164 75	36.66 19.52	105 72	85 89	51 39	0	7 7	0	0
	SIOUX CITY WATERLOO	43	17	49	9	30	3	0.00	-0.24	0.00	9.71	132	35.22	104	85	43	0	7	0	0
ID	BOISE	41	22	47	19	31	-2	0.00	-0.36	0.00	2.26	76	13.06	123	87	46	0	7	0	0
	LEWISTON	45	28	51	22	36	0	0.00	-0.24	0.00	3.10	103	14.22	122	86	53	0	6	0	0
IL	POCATELLO CHICAGO/O HARE	40 43	8 29	49 49	4 25	24 36	-3 4	0.00	-0.29 -0.67	0.00	1.64 8.60	52 86	10.13 35.73	90 102	87 73	43 48	0	7 6	0	0
I ~	MOLINE	44	21	47	16	32	1	0.00	-0.56	0.00	10.79	120	31.00	85	81	48	0	7	0	0
	PEORIA	44	23	49	18	34	1	0.00	-0.66	0.00	10.05	105	39.60	115	84	44	0	7	0	0
	ROCKFORD SPRINGFIELD	44 45	24 23	49 50	19 16	34 34	3 -1	0.00	-0.54 -0.68	0.00	10.67 5.63	119 58	32.59 36.64	94 103	75 93	46 47	0	6	0	0
IN	EVANSVILLE	48	27	57	20	37	-2	0.00	-0.84	0.00	12.85	114	59.11	140	84	47	0	6	1	0
	FORT WAYNE	42	29	50	24	35	1	0.19	-0.50	0.19	10.97	119	34.63	96	83	60	0	6	1	0
	INDIANAPOLIS SOUTH BEND	44 43	25 29	53 50	19 23	35 36	-1 3	0.13 0.08	-0.62 -0.59	0.13 0.05	9.30 6.49	89 61	43.55 37.09	109 104	89 83	51 54	0	7 5	1 3	0
KS	CONCORDIA	48	29	58	23 18	36	3	0.08	-0.59	0.05	4.31	70	25.76	94	80	38	0	6	0	0
	DODGE CITY	49	23	57	14	36	1	0.43	0.27	0.27	4.18	97	22.32	107	84	39	0	7	2	0
	GOODLAND TOPEKA	49 49	18 24	60 54	10 19	33 37	1 1	0.01 0.00	-0.11 -0.37	0.01 0.00	0.99 4.69	29 53	15.58 34.72	80 98	75 81	30 37	0	7 7	1 0	0
	TOFLINA	49	24	J4	19	ગ	1	0.00	-0.37	0.00	4.09	აა	J4.1Z	90	01	ગ	U	_ ′	U	U

Based on 1981-2010 normals

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending December 5, 2020

					the Week Ending December 5, 2020								RELATIVE		NUMBER		AYS			
	STATES	٦	ГЕМБ	PERA	TUR	E °	F			PREC	CIPITA	ATION			HUM	IDITY CENT		IP. °F	PRE	
Ş	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 DEC 1	PCT. NORMAL SINCE DEC 1	TOTAL, IN., SINCE JAN 1	PCT. NORMAL SINCE JAN 1	AVERAGE MAXIMUM	AVERAGE MINIMUM	90 AND ABOVE	32 AND BELOW	.01 INCH OR MORE	.50 INCH OR MORE
KY	WICHITA LEXINGTON	48 42	26 26	54 54	21 18	37 34	-1 -6	0.50 1.09	0.20 0.19	0.38 0.92	4.95 11.18	65 110	27.17 45.57	85 109	86 94	45 66	0	7 6	3 4	0
	LOUISVILLE PADUCAH	46 48	31 28	52 57	26 20	39 38	-3 -3	0.78 0.02	-0.09 -1.08	0.57 0.02	11.09 16.43	106 128	50.91 56.33	122 124	86 88	54 45	0	5 6	3	1 0
LA	BATON ROUGE	61	38	70	30	49	-3 -11	0.02	-0.31	0.02	15.42	108	63.40	113	93	46	0	2	2	0
	LAKE CHARLES	57	40	62	30	48	-8	0.83	-0.20	0.56	8.85	58	45.06	85	96	56	0	1	3	1
	NEW ORLEANS SHREVEPORT	63 55	47 35	77 64	36 25	55 45	-4 -6	2.30 1.11	1.14 -0.02	1.86 0.71	13.35 7.73	96 57	68.61 53.49	118 112	85 86	50 43	0	0 3	2	1
MA	BOSTON	55 54	37	63	33	45 45	-6 6	3.03	2.08	1.74	12.43	103	34.41	84	85	53	0	0	4	2
	WORCESTER	51	33	63	30	42	8	4.35	3.39	2.38	16.29	119	42.18	93	83	51	0	3	2	2
MD	BALTIMORE CARIBOU	54	37 34	63	28	45 40	5	3.65	2.83	2.75	16.27 13.19	145 120	54.45 32.99	139	80	40 61	0	2	3 5	2
ME	PORTLAND	46 50	32	60 59	28 27	40	16 7	1.33 3.69	0.52 2.69	0.92 1.99	12.66	89	38.34	92 87	87 91	61	0	4	3	2
MI	ALPENA	40	29	54	27	34	5	0.01	-0.44	0.01	7.41	93	33.00	124	84	58	0	6	1	0
	GRAND RAPIDS	43	30	51	26	37	3	0.00	-0.67	0.00	8.11	70 77	33.98	94	83	56	0	5	0	0
1	HOUGHTON LAKE LANSING	37 42	28 28	46 51	23 20	32 35	4	0.00 0.01	-0.47 -0.51	0.00 0.01	6.41 9.15	77 100	24.42 34.51	93 114	82 83	63 55	0	6 6	0	0
	MUSKEGON	43	34	49	32	38	4	0.01	-0.67	0.01	8.49	78	34.10	109	73	52	0	3	1	0
	TRAVERSE CITY	41	31	50	28	36	5	0.02	-0.56	0.02	10.43	106	32.76	106	85	57 62	0	5	1	0
MN	DULUTH INT L FALLS	31 32	15 13	39 39	4 8	23 23	3 7	0.00	-0.35 -0.23	0.00	6.16 5.11	66 77	20.86 20.75	69 88	83 86	62 59	0	7 7	0	0
	MINNEAPOLIS	39	20	43	16	30	5	0.01	-0.31	0.01	4.72	63	29.20	98	84	47	0	7	1	0
	ROCHESTER	39	19	43	11	29	0	0.01	-0.35	0.01	6.34	81	30.89	96	86	53	0	7	1	0
МО	ST. CLOUD COLUMBIA	38 48	16 27	43 57	12 18	27 38	6 1	0.00	-0.22 -0.67	0.00	6.44 9.39	86 86	25.29 47.49	93 116	87 80	51 42	0	7 6	0	0
IVIO	KANSAS CITY	49	26	54	19	37	2	0.00	-0.44	0.00	3.33	32	32.38	86	76	39	0	7	0	0
	SAINT LOUIS	48	29	55	22	39	0	0.01	-0.74	0.01	8.56	78	49.05	127	80	42	0	5	1	0
MS	SPRINGFIELD JACKSON	48 56	28 33	60 61	17 27	38 45	-1 -6	0.55 2.06	-0.30 0.78	0.35 1.67	9.45 12.51	72 99	49.44 68.78	114 137	89 92	47 46	0	6 4	3	0
IVIO	MERIDIAN	57	31	64	24	44	-6	1.94	0.63	1.62	13.23	101	67.48	129	88	43	0	4	2	1
	TUPELO	53	32	63	24	43	-5	1.46	-0.03	0.70	12.01	89	66.26	132	90	45	0	4	4	1
MT	BILLINGS BUTTE	48 39	26 6	58 42	18 3	37 22	8	0.00 0.01	-0.13 -0.12	0.00 0.01	3.25 1.71	100 68	12.96 9.79	97 78	64 83	25 39	0	6 7	0 1	0
	CUT BANK	50	21	57	13	35	11	0.00	-0.12	0.00	1.54	71	7.13	65	77	28	0	7	0	0
	GLASGOW	40	17	42	12	28	8	0.00	-0.09	0.00	2.74	121	11.52	99	84	56	0	7	0	0
	GREAT FALLS HAVRE	49 44	25 20	57 49	16 15	37 32	10 10	0.00 0.02	-0.13 -0.08	0.00 0.02	3.48 3.14	116 140	14.49 9.46	101 85	64 84	25 45	0	6 7	0	0
	MISSOULA	37	15	42	10	26	0	0.02	-0.05	0.02	4.06	122	14.02	104	95	56	0	7	0	0
NC	ASHEVILLE	50	29	59	21	40	-3	1.63	0.68	0.71	19.00	172	62.07	145	93	45	0	5	3	1
	CHARLOTTE GREENSBORO	58 55	32 33	64 63	22 26	45 44	-1 -1	1.83 2.67	1.05 1.94	0.67 1.08	18.49 17.38	180 159	54.76 60.63	141 153	90 85	44 44	0	4 3	3	3
	HATTERAS	63	45	73	37	54	1	3.04	2.06	2.16	18.35	106	66.15	121	86	54	0	0	3	2
	RALEIGH	59	35	69	26	47	0	2.14	1.43	1.06	13.62	121	50.69	124	89	44	0	3	4	2
ND	WILMINGTON BISMARCK	64 46	38 17	74 52	29 8	51 31	-1 11	1.60 0.00	0.78 -0.11	1.11 0.00	21.45 1.59	137 43	70.54 8.44	129 48	89 84	46 38	0	2 7	4 0	1 0
ND	DICKINSON	45	22	52	14	33	12	0.00	-0.11	0.00	1.37	40	7.94	50	78	34	0	7	0	0
	FARGO	40	16	48	10	28	9	0.00	-0.21	0.00	2.20	37	18.76	85	87	54	0	7	0	0
	GRAND FORKS JAMESTOWN	40 45	16 19	47 49	7 9	28 32	11 13	0.00	-0.14 -0.11	0.00	0.80 0.61	15 14	14.23 11.04	70 59	83 81	48 40	0	7 7	0	0
NE	GRAND ISLAND	49	23	61	12	36	6	0.00	-0.11	0.00	1.35	25	20.31	77	76	33	0	7	0	0
	LINCOLN	48	19	57	14	34	3	0.00	-0.26	0.00	3.26	49	22.10	78	79	35	0	7	0	0
	NORFOLK NORTH PLATTE	47 51	22 11	59 66	10 2	34 31	6 3	0.00	-0.24 -0.11	0.00	4.22 1.33	67 35	18.46 14.34	68 71	75 82	36 29	0	7 7	0	0
	OMAHA	46	21	54	15	33	3	0.00	-0.11	0.00	4.59	69	16.67	56	88	39	0	7	0	0
1	SCOTTSBLUFF	51	16	61	7	33	5	0.00	-0.11	0.00	1.47	48	8.58	55	70	22	0	7	0	0
NIL	VALENTINE CONCORD	50 51	16 29	64 64	7 22	33 40	6 8	0.00 2.94	-0.10 2.17	0.00 1.49	2.24 11.00	61 94	16.71 29.59	85 78	73 87	30 54	0	7 6	0 2	0 2
NH NJ	ATLANTIC_CITY	54	37	65	30	46	5	2.76	1.91	1.49	17.42	167	50.08	129	86	45	0	2	3	2
	NEWARK _	53	37	65	30	45	4	2.32	1.39	1.21	13.61	116	44.47	103	86	46	0	1	3	2
NM	ALBUQUERQUE ELY	48 46	24 5	55 55	19 -2	36 25	-2 -2	0.00	-0.12 -0.11	0.00	1.05 0.65	37 24	5.85 4.90	63 51	60 69	24 20	0	7 7	0	0
NV	LAS VEGAS	61	39	64	-2 35	50 50	-2 0	0.00	-0.11 -0.10	0.00	0.00	0	2.35	51 57	33	12	0	0	0	0
1	RENO	52	23	62	21	37	0	0.00	-0.22	0.00	0.61	31	2.53	37	80	28	0	7	0	0
ND/	WINNEMUCCA	50 47	14 28	57 57	11	32 37	1	0.00	-0.22	0.00	1.96	88 90	6.56	84 90	79 97	23	0	7 5	0	0
NY	ALBANY BINGHAMTON	47	30	57 53	21 26	37	4 5	1.74 0.47	1.00 -0.27	1.38 0.38	9.69 9.62	90 89	33.30 44.65	90 121	97 85	58 53	0	5	3	1 0
	BUFFALO	43	33	51	28	38	3	1.27	0.39	0.82	10.52	87	35.50	95	86	55	0	3	5	1
1	ROCHESTER	44	32	54	28	38	3	1.41	0.76	0.99	7.91	83	29.68	93	92	58	0	4	5	1
ОН	SYRACUSE AKRON-CANTON	46 42	32 30	54 52	27 24	39 36	5 1	0.81 1.19	0.00 0.48	0.37 0.94	8.13 10.17	72 101	35.17 38.00	98 102	87 84	52 60	0	4 5	5 3	0
	CINCINNATI	44	27	54	21	35	-3	0.99	0.20	0.97	9.89	100	46.06	116	87	60	0	6	3	1
1	CLEVELAND	42	31	53	25	37	-1	2.65	1.91	1.52	17.93	163	52.44	144	87	60	0	3	3	2
1	COLUMBUS DAYTON	43 42	29 29	53 54	25 25	36 36	-2 0	1.02 0.71	0.33 -0.02	0.80 0.65	10.83 8.70	119 86	47.73 39.65	130 103	93 94	66 67	0	7 7	3	1
<u></u>	MANSFIELD	41	29	53	26	35	1	0.98	0.19	0.82	13.60	128	39.08	94	87	62	0	7	2	1

Based on 1981-2010 normals

*** Not Available

Weekly Weather and Crop Bulletin
Weather Data for the Week Ending December 5, 2020

	STATES AND	T	ЕМР	FRA	TUD		_									~!!VL				
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	TATIONS	AVERAGE MAXIMUM	AVERAGE MINIMUM	EXTREME HIGH	EXTREME LOW	AVERAGE	4RTU NOR	WEEKLY TOTAL, IN	ARTU	TES.	TOTAL, IN., SINCE DEC 1	NORI E DE	TOTAL, IN., SINCE JAN 1	NORI E JAI	AVERAGE MAXIMUM	AVERAGE MINIMUM	AND ABOVE	D BEL	.01 INCH OR MORE	.50 INCH OR MORE
		AVI	AVI	EX	EX	AVI	DEPARTURE FROM NORMAL	7 W	DEPARTURE FROM NORMAL	GREATEST I 24-HOUR, IN	TOT	PCT. NORMAL SINCE DEC 1	TOT	PCT. NORMAL SINCE JAN 1	AVI	AVI	90 AN	32 AND BELOW	.0. OR	.50 OR
	TOLEDO	45	31	53	25	38	4	0.42	-0.24	0.34	7.54	87	29.50	92	76	51	0	5	2	0
ОК	YOUNGSTOWN OKLAHOMA CITY	41 49	31 28	52 56	27 22	36 38	1 -5	1.32 0.13	0.62 -0.30	0.80 0.09	14.99 6.76	147 67	46.37 32.00	127 91	84 89	55 43	0	5 6	3 2	1 0
	TULSA	52	31	61	27	42	-1	0.83	0.23	0.67	12.26	107	43.72	112	86	43	0	4	3	1
OR	ASTORIA	54	35	61	31	44	1	0.32	-2.25	0.30	17.71	84	57.57	97	91	52	0	1	2	0
	BURNS EUGENE	41 47	9 31	44 52	6 28	25 39	-2 -2	0.00 0.39	-0.35 -1.71	0.00 0.23	1.57 10.02	58 72	7.31 27.69	74 69	86 96	42 71	0	7 5	0	0
	MEDFORD	49	31	58	27	40	-1	0.12	-0.73	0.08	3.64	68	12.81	82	92	57	0	4	2	0
	PENDLETON	39	25	50	20	32	-4	0.01	-0.36	0.01	3.71	108	12.62	108	99	73	0	7	1	0
	PORTLAND SALEM	50 49	37 31	54 56	31 27	43 40	1 -1	0.37 0.29	-1.04 -1.45	0.37 0.21	9.10 9.22	82 76	28.26 28.41	89 83	82 91	52 57	0	2 5	1 2	0
PA	ALLENTOWN	49	32	61	28	41	4	3.56	2.63	2.76	13.24	104	42.09	99	87	52	0	5	3	1
	ERIE	44	35	55	30	39	2	1.41	0.53	0.92	14.83	112	39.53	101	78	51	0	2	4	1
	MIDDLETOWN PHILADELPHIA	51 53	36 38	62 67	30 33	44 45	6 4	1.54 2.09	0.70 1.24	1.06 1.01	7.78 14.40	70 137	33.78 47.13	89 122	83 84	43 46	0	2	4	1 2
	PITTSBURGH	41	30	52	23	35	-1	0.62	-0.08	0.41	6.60	72	34.43	96	92	60	0	6	2	0
	WILKES-BARRE	50	34	62	29	42	7	0.57	-0.14	0.55	9.04	82	47.30	131	85	45	0	3	3	1
D!	WILLIAMSPORT	50 55	32	57 64	26	41	5	0.65	-0.19	0.61	6.80	57 125	32.76	84	86	44	0	4	2	1
RI SC	PROVIDENCE CHARLESTON	55 64	35 39	64 75	29 29	45 51	6 -3	6.15 0.31	5.06 -0.32	3.39 0.14	16.47 12.47	125 98	40.43 51.87	92 107	91 90	54 48	0	2	4	2 0
1	COLUMBIA	60	34	69	26	47	-3	1.28	0.58	0.59	9.53	96	51.98	124	90	45	0	3	3	1
	FLORENCE	61	35	72	26	48	-2	0.64	0.00	0.37	12.54	127	55.93	139	89	44	0	2	3	0
SD	GREENVILLE ABERDEEN	55 46	33 15	59 54	25 5	44 31	-3 10	2.70 0.00	1.69 -0.13	1.39 0.00	17.74 3.22	157 64	70.74 15.34	161 72	83 82	38 39	0	3 7	3	3
SD	HURON	45	17	53	10	31	7	0.00	-0.13	0.00	2.00	38	16.74	74	89	43	0	7	0	0
	RAPID CITY	51	19	63	12	35	7	0.00	-0.09	0.00	2.29	68	12.64	78	69	21	0	7	0	0
TNI	SIOUX FALLS	45	19	51	11	32	8	0.00	-0.22	0.00	2.56	39	17.02	66	83	43	0	7	0	0
TN	BRISTOL CHATTANOOGA	47 52	28 33	58 58	19 25	37 43	-4 -3	1.00 1.24	0.19 -0.05	0.56 0.59	11.14 16.67	127 126	53.35 64.67	140 133	96 92	59 50	0	6 3	4	1
	KNOXVILLE	47	30	54	21	38	-6	1.23	0.13	0.55	12.19	115	63.27	143	96	60	0	4	3	2
	MEMPHIS	51	33	60	23	42	-5	0.85	-0.55	0.46	8.58	63	49.75	101	88	42	0	3	2	0
TX	NASHVILLE ABILENE	49 54	29 31	58 65	20 25	39 42	-5 -6	1.66 0.04	0.55 -0.22	0.62 0.04	9.28 1.87	80 27	48.82 18.36	111 77	87 77	50 38	0	5 4	4	1 0
17	AMARILLO	49	25	57	20	37	-0 -2	0.04	-0.22	0.04	3.28	73	13.43	68	78	36	0	7	1	0
	AUSTIN	60	38	66	30	49	-7	0.03	-0.52	0.02	5.63	55	29.19	90	81	34	0	2	2	0
	BEAUMONT	58	41	63	30	49	-8	1.61	0.50	0.59	14.75	88	52.50	93	97	59	0	1	4	2
	BROWNSVILLE CORPUS CHRISTI	67 64	49 43	81 76	38 34	58 53	-6 -8	0.94 0.10	0.66 -0.25	0.68 0.08	7.13 7.07	61 65	17.65 22.82	66 75	80 90	41 42	0	0	3	1 0
	DEL RIO	63	37	74	33	50	-4	0.01	-0.13	0.01	3.44	63	11.63	61	72	25	0	0	1	0
	EL PASO	56	29	63	21	42	-5	0.00	-0.16	0.00	0.80	29	5.97	64	45	21	0	6	0	0
	FORT WORTH GALVESTON	55 61	34 49	64 69	29 43	45 55	-5 -5	0.01 0.95	-0.54 0.00	0.01 0.61	6.74 9.95	68 0	40.32 37.07	118 0	83 80	39 54	0	3 0	1	0
	HOUSTON	60	41	63	30	51	-6	1.30	0.00	1.04	14.20	95	41.70	89	88	48	0	1	2	1
	LUBBOCK	52	25	65	19	38	-5	0.00	-0.17	0.00	1.48	27	9.98	53	74	32	0	6	0	0
	MIDLAND SAN ANGELO	52 55	28	65 66	21	40	-7 Ω	0.00	-0.14 0.17	0.00	1.35	30	7.47	52 97	76 77	32	0	6	0	0
	SAN ANGELO SAN ANTONIO	55 60	27 36	66 70	21 28	41 48	-8 -7	0.00 0.01	-0.17 -0.39	0.00 0.01	5.45 4.67	84 48	17.91 19.89	87 65	77 83	33 36	0	6 2	0	0
	VICTORIA	63	38	76	30	50	-7	0.14	-0.48	0.12	8.17	65	27.95	71	92	45	0	1	3	0
	WACO	57	33	61	26	45	-6	0.00	-0.60	0.00	10.53	103	41.44	128	87	37	0	4	0	0
UT	WICHITA FALLS SALT LAKE CITY	54 41	29 21	63 47	24 18	41 31	-5 -2	0.05 0.00	-0.32 -0.33	0.05 0.00	6.45 1.20	82 26	34.79 8.85	126 58	88 81	42 38	0	5 7	1	0
VA	LYNCHBURG	55	32	60	24	44	3	4.72	3.91	2.26	23.02	210	64.52	166	81	39	0	4	4	3
	NORFOLK	63	40	77	31	52	4	1.00	0.24	0.40	18.60	157	53.16	121	83	42	0	1	3	0
	RICHMOND ROANOKE	58 52	36 35	70 59	26 30	47 44	2 1	4.08 2.34	3.28 1.59	1.65 1.20	19.80 17.15	181 160	60.15 60.93	147 157	88 76	45 41	0	2	4	3 2
	WASH/DULLES	52	36	62	25	44	3	2.34	1.59	1.39	10.61	95	45.44	116	87	42	0	3	4	2
VT	BURLINGTON	49	33	66	29	41	9	0.83	0.20	0.70	8.17	75	30.21	86	85	47	0	5	4	1
WA	OLINIAVUTE	49	28	55	25	38	-1	0.51	-1.49	0.51	16.74	102	45.57	103	98	63	0	6	1	1
	QUILLAYUTE SEATTLE-TACOMA	53 52	33 37	60 59	30 32	43 44	2	0.70 0.44	-2.69 -0.99	0.70 0.44	27.93 10.40	86 83	86.38 35.09	98 106	89 93	43 53	0	3 1	1	1 0
	SPOKANE	38	25	41	23	31	2	0.08	-0.51	0.08	3.70	80	13.13	89	94	65	0	7	1	0
	YAKIMA	43	21	51	16	32	1	0.00	-0.35	0.00	1.48	64	4.29	59	89	52	0	7	0	0
WI	EAU CLAIRE GREEN BAY	39 39	15 26	45 46	6 19	27 33	3 6	0.00	-0.32 -0.44	0.00	5.31 9.18	66 116	27.00 33.12	89 117	88 76	48 52	0	7 7	0	0
	LA CROSSE	39 41	20	46	15	30	3	0.00	-0.44	0.00	7.63	95	29.65	92	87	46	0	7	0	0
	MADISON	39	21	46	16	30	2	0.00	-0.52	0.00	8.85	107	38.29	116	89	52	0	7	0	0
140 (MILWAUKEE	42	29	51	22	35	4	0.00	-0.56	0.00	5.59	62	34.92	105	72	45	0	6	0	0
WV	BECKLEY CHARLESTON	44 45	28 30	55 58	20 23	36 37	-2 -4	1.09 1.24	0.40 0.44	0.53 0.56	7.56 8.73	84 86	48.66 47.47	126 115	94 99	55 68	0	6 5	5 3	1 2
	ELKINS	45	24	61	15	35	-2	1.55	0.74	0.79	9.61	92	54.73	126	84	55	0	7	4	2
I	HUNTINGTON	44	29	54	24	37	-4	1.09	0.30	0.59	8.58	90	42.11	106	93	64	0	6	4	1
WY	CASPER CHEYENNE	39 46	16 19	47 55	4 13	28 32	2	0.01 0.00	-0.12 -0.12	0.01 0.00	1.01 1.00	32 32	5.38 8.69	44 55	70 59	32 20	0	7 7	1	0
	LANDER	36	11	43	3	32 24	1	0.00	0.09	0.00	1.60	32 47	6.43	52	84	43	0	7	2	0
	SHERIDAN	50	16	58	10	33	8	0.01	-0.13	0.01	4.13	112	10.85	79	76	29	0	7	1	0

Based on 1981-2010 normals

*** Not Available

November Weather Summary

Weather

Weather summary provided by USDA/WAOB

Highlights: Fueled by record-setting warmth during the first half of the month, November temperatures averaged more than 5°F above normal in many locations from the Plains to the Atlantic Coast. In contrast, near-normal monthly temperatures prevailed in the West, where warm and cool periods were interspersed. Western wildfire activity waned in November, although year-to-date U.S. fires have charred about 9.5 million acres of vegetation (more than 140 percent of the 10-year average).

Meanwhile, significantly drier-than-normal November weather covered several areas, including portions of the Plains and large sections of California, the Southwest, and the northern Mississippi Delta. By November 29, dry conditions across the central and southern Plains left more than one-fifth of the winter wheat rated in very poor to poor condition in Colorado (38 percent), Texas (34 percent), Nebraska (26 percent), and Kansas (22 percent). However, the Plains' dryness also favored fieldwork, including harvest efforts. The U.S. sorghum harvest was 97 percent complete by November 22; the sunflower harvest was 97 percent complete a week later, on November 29.

Despite occasional November precipitation, Midwestern corn and soybean harvests neared completion, especially in the western Corn Belt. By November 29, the corn harvest was 92 percent complete in Ohio and 95 percent complete in Michigan and Wisconsin. In the middle and southern Atlantic States, however, periods of heavy rain—including the interaction between Tropical Storm Eta and a cold front—hampered harvest activities for a variety of summer crops, including cotton and soybeans. By November 29, more than one-fifth of the cotton remained in the field in Virginia (62 percent harvested), North Carolina (74 percent), and South Carolina (77 percent).

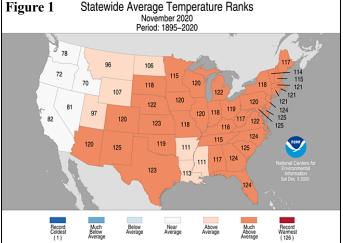
Tropical Storm Eta, the record-shattering twelfth Atlantic tropical cyclone to make a U.S. landfall this year, twice struck Florida. Eta's first landfall occurred on Lower Matecumbe Key on November 8 around 11 pm EST, followed by a strike on the Gulf Coast near Cedar Key on November 12 at 4 am. Sustained winds were 65 and 50 mph, respectively. Aside from gusty winds, locally above 50 mph across Florida's peninsula, Eta's primary impact was flash flooding from heavy rain. Eta produced 6 to 18 inches of rain in southeastern Florida.

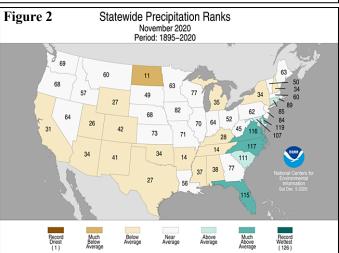
Elsewhere, an already expansive U.S. drought further intensified, especially from the Southwest to the High Plains. By November 24, drought covered 75.6 percent of the 11-state Western region and 48.6 percent of the Lower 48 States, according to the U.S. Drought Monitor. National drought coverage was the highest in more than 7 years, since

September 2013. Despite the national picture, drought coverage decreased during November in several regions, including the Northwest and Northeast.

Historical Perspective: According to preliminary data provided by the National Centers for Environmental Information, the contiguous U.S. experienced its fourthwarmest, 33rd-driest November during the 126-year period of record. The nation's average temperature of 46.4°F was 4.7°F above the 20th century mean, while precipitation averaged 1.90 inches (85 percent of normal).

Temperatures in all Lower 48 States were on the warm side of the historical distribution (figure 1). Idaho, with its 57th warmest November, was the "coolest" state. Top-ten rankings for November warmth were noted in 31 states—Alabama, West Virginia, three Southwestern States, five Plains States, seven Midwestern States, and all Atlantic Coast States but New Hampshire. Meanwhile, statewide precipitation rankings ranged from the 11th-driest November in North Dakota to the eighth wettest in Delaware (figure 2). Behind Delaware were North Carolina (10th-wettest November), Virginia (11th wettest), and Florida (12th wettest).





Summary: In early November, cool conditions lingered across the Midwest and East, while record-setting warmth overspread the nation's mid-section. On November 1, wind gusts were clocked to 58 mph in Traverse City, MI, and 52 mph in Cleveland, OH. November 2 snowfall totaled 1.5 inches in Binghamton, NY, and 0.3 inch in Scranton, PA. Snow lingered in New England into November 3, when daily-record amounts included 1.8 inches in Bangor, ME, and 0.9 inch in Worcester, MA. Farther south, Orlando, FL. netted a daily-record rainfall total of 2.18 inches on November 1. Meanwhile, windy weather preceded the arrival of Northwestern precipitation. On November 5, Cut Bank, MT, reported a daily average wind speed of 31.7 mph and a peak gust to 73 mph. On November 5-6, Pendleton, OR, reported consecutive daily-record rainfall amounts (0.53) and 1.02 inches, respectively). Other daily-record totals in Oregon on November 6 included 1.37 inches in Meacham and 0.55 inch in Hermiston. By November 7-8, snow blanketed portions of Montana, where Great Falls reported 12.5 inches and a peak wind gust to 50 mph. Snow also fell in parts of the Great Basin, where daily-record totals for the 7th in Nevada reached 6.9 inches in Winnemucca and 2.9 Winnemucca's November 7-9 snowfall inches in Elko. totaled 11.7 inches. In Las Vegas, NV, however, a streak without measurable precipitation stretched by month's end to 224 days (April 21 – November 30), easily surpassing the record of 150 days set from February 22 - July 21, 1959. Similarly, the longest dry spell in Bishop, CA, reached 227 days (April 18 – November 30). Bishop's previous record of 199 days without measurable rain had occurred from April 23 – November 7, 2003.

Early-month temperatures soared to 80°F or higher as far north as Minnesota and South Dakota, tying or breaking monthly records in multiple locations. On November 3, monthly record-high temperatures included 80°F Scottsbluff, NE, and 68°F in Stanley, ID. Scottsbluff attained 80°F again on November 4, followed by a high of 81°F on November 5. Incredibly, Scottsbluff had reported a monthly record low of -10°F on October 27. Elsewhere in Nebraska, a high of 85°F on the 3rd in Grand Island represented the second-highest November temperatures on record in that location, behind only 88°F on November 8, 1915. In the Great Lakes States, monthly record highs established on November 4 included 77°F in Alpena, MI, and 75°F in Brainerd, MN. Brainerd again reached 75°F on November 6. On November 4, Sheridan, WY, tied a monthly record originally set with a high of 81°F on November 12, 1999. In Arizona, Tucson, tied a monthly record (from November 24, 1924) with a high of 94°F on the 5th. Tucson reported a low temperature of 72°F on the 6th—the first time on record in that city there was a minimum reading in November at or above 70°F. The parade of monthly record highs continued through November 6, with temperatures reaching 87°F in North Platte, NE; 84°F in Mitchell, SD; 78°F in Ashland, WI; 76°F in St. Cloud, MN; and 75°F in Marquette, MI. Meanwhile, chilly air settled across the West. On November 7, Quillayute, WA, registered a daily-record low of 28°F.

Record-setting warmth lasted for several more days, especially across the Midwest and East. On November 8, monthly record highs occurred in locations such as Dayton, OH (80°F), and Green Bay, WI (75°F). In Michigan locations such as Lansing and Kalamazoo, November 9 highs of 77°F were the latest readings on record of 75°F or greater.

Elsewhere in Michigan, monthly records from November 1938 were broken on the 9th in Traverse City (78°F) and Sault Sainte Marie (75°F). With a high of 80°F on November 9, Toledo, OH, tied a monthly record and experienced its latest reading of 80°F or higher (previously, November 4, 2003). In Wisconsin, La Crosse posted five consecutive daily-record highs (73, 75, 74, 74, and 75°F) from November 5-9. By November 10, warmth in the East resulted in monthly record highs of 84°F in Jackson, KY, and 75°F in Caribou, ME. Caribou had never experienced a high above 70°F in November; prior to this year the monthly record had been 68°F on November 1, 1956 and 2019. From November 4-10, high temperatures in Chicago, IL, reached 70°F or greater on 7 consecutive days. Previously, Chicago's longest November streak of 70-degree warmth occurred from November 15-19, 1953. Chicago also set a record with 7 days of 70-degree warmth for the entire month of November (previously, 6 days in 1953 and 1975). Rockford, IL, attained 70°F or greater each day from November 3-10, a record for so late in the season. Rockford's previous latest 8day streak of 70-degree warmth had occurred from October 19-26, 1963. In addition, Rockford doubled its November record for total number of 70-degree days; the previous standard of 4 days had been set in 1924, 1938, 1978, 1999, and 2008. By mid-month, however, lingering warmth was largely confined to the Deep South, where Harlingen, TX, notched consecutive daily-record highs (91 and 92°F, respectively) on November 13-14. In contrast, chilly conditions gripped the West. In California, three consecutive daily-record lows were observed in South Lake Tahoe (5, -1, and 8°F from November 8-10) and Redding (29, 26, and 25°F from November 10-12). Elsewhere, Ely, NV, reported lows of 2°F on November 9, 10, and 12, following a 6.6-inch snowfall on the 8th, while Flagstaff, AZ, registered a dailyrecord low of 3°F on the 10th, in the wake of a 4.1-inch accumulation on November 8-9.

In southern Florida, a multi-day rainfall event associated with Tropical Storm Eta's approach and passage led to November 5-12 totals of 8.34 inches in Miami and 9.75 inches in Fort More than one-half (5.93 inches) of Fort Lauderdale's rain fell on November 8. Also on the 8th, wind gusts were clocked to 50 mph in Miami and 52 mph in Fort Lauderdale. Later, on the 11th, daily-record amounts in Florida reached 6.41 inches in Sarasota-Bradenton and 3.99 inches in Tampa. On the same date, Sarasota-Bradenton noted a wind gust to 53 mph. Farther north, a cold front crossing the Midwest delivered heavy precipitation on November 10, when daily-record totals included 1.67 inches in Dubuque, IA, and 1.56 inches in Oshkosh, WI. Duluth, MN, received a daily-record snowfall (7.3 inches) on November 10, a day after a daily-record rainfall of 1.18 inches occurred. Farther west, snow in the Rockies, Great Basin, and Intermountain West led to record-setting totals for November 8 in Havre, MT (7.8 inches); Winnemucca, NV (4.1 inches); and Boise, ID (2.7 inches). By November 11, heavy rain erupted across the middle and southern Atlantic States, leading to daily-record totals in locations such as Danville, VA (3.58 inches), and Fayetteville, NC (2.84 inches). Fayetteville also collected a daily-record sum (2.69) inches) for November 12. Elsewhere in North Carolina, daily-record amounts for the 12th reached 4.62 inches in Charlotte, 4.38 inches in New Bern, and 4.13 inches in Wilmington. In the rain's wake, a record crest was reported along Hunting Creek near Harmony, NC, when the water level rose 8.08 feet above flood stage on November 12 (previously, 7.05 feet on September 22, 1979). On November 12 in Brookneal, VA, the Roanoke River climbed 11.57 feet above flood stage—the highest level in that location since June 23, 1995.

Another round of high winds swept across parts of the Midwest in mid-November. In Fort Wayne, IN, a westerly wind gust to 63 mph was clocked on the afternoon of the 15th, shortly after November 14-15 rainfall totaled 0.85 inch. Elsewhere on the 15th, gusts were clocked to 65 mph in Lima, OH, and 59 mph in Benton Harbor, MI. Meanwhile, Northwestern precipitation led to daily-record totals for November 15 in Idaho locations such as Boise (0.46 inch) and Twin Falls (0.28 inch). Elsewhere in Idaho, Stanley netted a record-setting total (0.42 inch) for November 18. Farther south, Crescent City, CA, collected 2.82 inches of rain from November 15-18. With a 1.44-inch total on the 15th, Crescent City experienced its wettest day since January 25, 2020. Later, precipitation shifted eastward. In Missouri, record-setting totals on the 21st included 1.66 inches in Vichy-Rolla and 1.02 inches in Joplin. By November 23, heavy precipitation swept across New England, where dailyrecord totals for November 23 included 2.38 inches in Augusta, ME, and 1.66 inches in Manchester, NH. November 23 total of 2.00 inches in Caribou, ME, was not only a daily record, but also represented the wettest day in that location since August 9, 2018, when 2.10 inches fell. Farther west, precipitation quickly returned across the central U.S., where record-setting precipitation totals for November 24 reached 1.48 inches in Salina, KS, and 1.38 inches in Ottumwa, IA. Daily-record snowfall amounts for the 24th included 5.0 inches in Denver, CO, and 4.0 inches in Rochester, MN. In late November, multiple rounds of precipitation affected parts of the South and East. New Orleans, LA, netted a daily-record rainfall (3.68 inches) for November 25. The next day (Thanksgiving), Columbia, SC, reported a daily-record amount of 1.07 inches. On the 28th, Dalhart, TX, set daily precipitation and snowfall records (0.35 and 3.2 inches, respectively). Near the Texas Gulf Coast, record-breaking rainfall totals for November 28 included 1.99 inches at Houston's Hobby Airport, 1.52 inches in Victoria, and 1.31 inches in Corpus Christi. On the last day of November, heavy rain swept across the middle and northern Atlantic States. Daily-record totals for November 30 topped the 2-inch mark in Allentown, PA (2.76) inches); Providence, RI (2.74 inches); Baltimore, MD (2.74 inches); Lynchburg, VA (2.55 inches); Washington, DC (2.39 inches); Worcester, MA (2.38 inches); and Cape Hatteras, NC (2.16 inches). Meanwhile, rain changed to snow and accumulated across portions of the Ohio Valley and lower Great Lakes region. Lexington, KY, received 3.8 inches of snow, including 2.3 inches on the 30th and 1.5 inches on the 1st. In Ohio, December 1 snowfall totaled 9.5 inches in Cleveland and 7.7 inches in Youngstown.

After mid-month, another round of unusual warmth pushed temperatures into record-setting territory across portions of the western and central U.S. On November 18-19, temperatures surged to 80°F or higher across the southern High Plains. On the latter date, Borger, TX, set a monthly record with a high temperature of 89°F (previously, 88°F on November 8, 1980). A few readings of 90°F or greater were reported in southern sections of Arizona and California. From November 16-20, Tucson, AZ, posted five consecutive

daily-record highs (89, 92, 91, 88, and 88°F). Tucson also set a record by experiencing 8 November days with 90degree heat (previously, 5 days in 1924). In contrast, midmonth temperatures occasionally dipped below 10°F from northern Montana to New England. Grand Forks, ND, reported low temperatures ranging from 5 to 10°F from November 15-17. Chilly air settled across the Northeast by November 19, when daily-record lows included 20°F in Atlantic City, NJ, and 22°F in Islip, NY. On the same date, Washington, D.C., reported its first autumn freeze. Prior to the arrival of the Eastern chill, warmth lingered in the southern Atlantic States. Daily-record highs for November 15 included 86°F in Tallahassee, FL, and 85°F in Savannah, GA. Farther west, a brief warm spell in California led to record-setting highs for November 16 in locations such as Camarillo (95°F), Anaheim (94°F), Riverside (93°F), and Long Beach (92°F). By November 18, daily-record highs topped the 80-degree mark on the Plains as far north as Goodland, KS, and Valentine, NE, both of which attained Later, however, lingering warmth was largely confined to the Deep South. El Paso, TX, reported maxima of 80°F or greater each day from November 17-21, including a daily-record high of 85°F on the 19th. Prior to this year, El Paso had not reached the 85-degree mark in November since November 4, 1988. In addition, El Paso—which also reported highs of 85°F this year on November 5 and 7—had never experienced more than one 85-degree reading in November. Across the country, late-month temperatures rarely strayed into record-setting territory, although coastal Texas was notably warm. Brownsville, TX, twice posted consecutive daily-record highs—87 and 89°F, respectively, on November 24-25, followed by readings of 88°F on November 27-28. Galveston logged a daily-record high of 81°F on November 27; the only later readings above the 80degree mark in that location occurred on December 13, 2016, and November 29, 2016. Farther east, Thanksgiving Day featured daily-record highs for November 26 in locations such as Tallahassee, FL (83°F); Charleston, SC (82°F); and Lynchburg, VA (73°F). For the month as a whole, it was the second-warmest November on record, behind 1985, in Southeastern locations such as Savannah, GA (average temperature of 66.1°F, or 6.8°F above normal), and Charleston, SC (64.2°F, or 5.6°F above normal). Late in the month, unusual warmth in the north-central U.S. led to dailyrecord highs for November 28 in Aberdeen, SD (60°F), and Jamestown, ND (58°F). In contrast, lows of 36°F (on November 27) in Alpine, CA, and -3°F (on November 28) at Utah's Kodachrome Basin State Park were daily-record lows.

Above-normal November temperatures in northern and Alaska contrasted with colder-than-normal conditions in the southeastern. Some of interior Alaska's coldest weather occurred early in the month, when Fairbanks reported four consecutive minima below -20°F from November 2-5. Snowy weather immediately followed the cold wave, with Fairbanks receiving 21.3 inches from November 5-10. During the snowy spell, Fairbanks—with 11.8 inches on November 6—experienced its snowiest day since February 21, 2011, when 11.9 inches fell, and snowiest November day since 1970, when 14.6 inches fell on the 20th. Early-month snow also blanketed southeastern Alaska, where Juneau received 12.0 inches from November 1-4. Parts of southeastern Alaska continued to receive heavy precipitation; Ketchikan's monthly total of 30.05 inches (181 percent of normal) was followed by a 14.57-inch deluge during the first 5 days of December. November precipitation was more than twice normal in locations such as King Salmon (3.14 inches, or 226 percent of normal) and Fairbanks (1.38 inches, or 206 percent). King Salmon also netted a daily-record precipitation total of 1.19 inches on November 7. During the second half of the month, cold air returned across south-central and southeastern Alaska, while mild weather dominated the western part of the state. The temperature in Fairbanks remained below 0°F for 5 consecutive days from November 16-20—the longest such November streak in that location since November 18-22, 2015. Meanwhile, Cold Bay clocked wind gusts to 60 mph or greater each day from November 22-24, along with precipitation totaling 2.20 inches. Kotzebue reported an easterly wind gust to 81 mph on the 24th, resulting in blowing snow.

Hawaii experienced another warm month, with locally heavy showers mostly limited to windward locations. Kahului, Maui, set a monthly record with a high of 96°F on November 5; the monthly record of 93°F had been most recently attained on November 5, 2019. Kahului capped a streak of eight consecutive 90-degree readings with daily-record highs of 92°F on November 8 and 9. Eventually, Kahului completed its warmest November on record, with a monthly average temperature of 79.3°F (3.3°F above normal). Kahului's previous November record of 79.0°F had been set in 1984. Late in the month, heavy showers dotted Kauai, where Lihue received more than an inch of rain on November 24 and 26. Elsewhere on Kauai, famously wet Mount Waialeale collected 20.32 inches of rain in a 72-hour period from November 23-26. On the Big Island, Hilo received 1.62 and 4.34 inches, respectively, on November 22 and 25. At the state's major airport observation sites, monthly rainfall ranged from 0.16 inch (7 percent of normal) in Honolulu, Oahu, to 18.79 inches (121 percent) in Hilo.

Fieldwork

Weather summary provided by USDA/NASS

Most of the nation was warmer than average during November. Parts of the Great Lakes, northern Plains, Rockies, Southeast, and Texas recorded monthly temperatures 6°F or more above normal. In contrast, parts of Idaho and the Pacific Northwest were slightly cooler than normal. Much of the nation was drier than normal, but above-normal precipitation was recorded in parts of the Great Lakes, mid-Atlantic, Southeast, Midwest, Pacific Northwest, and northern Rockies. Parts of southern Florida, the mid-Atlantic, the Pacific Northwest received November precipitation totaling 7 inches or more.

Eighty-two percent of the 2020 corn acreage had been harvested by November 1, thirty-three percentage points ahead of last year and 13 points ahead of the 5-year average pace. Ninety-five percent of the corn had been harvested by November 15, twenty-two percentage points ahead of last year and 8 points ahead of average.

Soybean harvest across the nation was 87 percent complete by November 1, sixteen percentage points ahead of last year and 4 points ahead of the 5-year average. Soybean harvest was 96 percent complete by November 15, seven percentage points ahead of last year and 3 points ahead of average.

Producers had sown 89 percent of the intended 2021 winter wheat acreage by November 1, one percentage point ahead of last year and 3 points ahead of the 5-year average. Seventy-one percent of the winter wheat had emerged by November 1, two percentage points ahead of last year and 1 point ahead of average. Producers had sown 96 percent of the wheat by November 15, two percentage points ahead of both last year and the average. Nationally, 85 percent of the wheat had emerged by November 15, three percentage points ahead of last year and 1 point ahead of average. Ninety-two percent of the wheat had emerged by November 29, three percentage points ahead of last year and 1 point ahead of average. By November 29, forty-six percent of the winter wheat was reported in good to excellent condition, 6 percentage points below the same time last year.

By November 1, fifty-two percent of the nation's cotton had been harvested, 1 percentage point ahead of last year and 3 points ahead of the 5-year average. On November 1, thirty-seven percent of the cotton was rated in good to excellent condition, 3 percentage points below the same time last year. By November 15, sixty-nine percent of the cotton had been harvested, 3 percentage points ahead of last year and 5 points ahead of average. By November 29, eighty-four percent of the cotton had been harvested, 2 percentage points ahead of last year and 5 points ahead of last year and 5 points ahead of average.

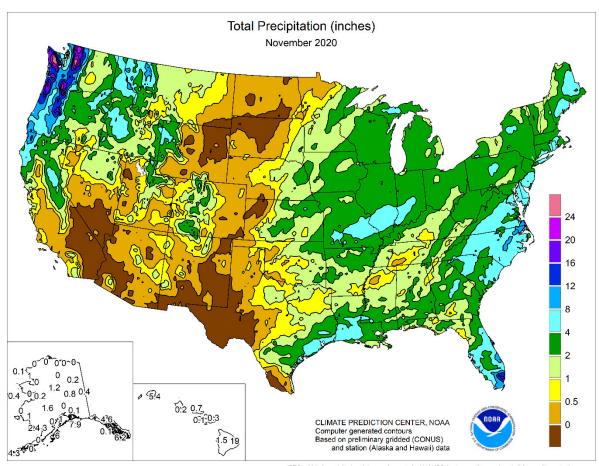
Eighty-two percent of the 2020 sorghum acreage had been harvested by November 1, eight percentage points ahead of last year and 11 points ahead of the 5-year average. Ninety percent of the sorghum had been harvested by November 8, five percentage points ahead of last year and 10 points ahead of average. Ninety-seven percent of the sorghum had been harvested by November 22, one percentage point ahead of last year and 5 points ahead of average.

Nationally, 96 percent of the rice acreage had been harvested by November 1, two percentage points behind last year and 3 points behind the 5-year average.

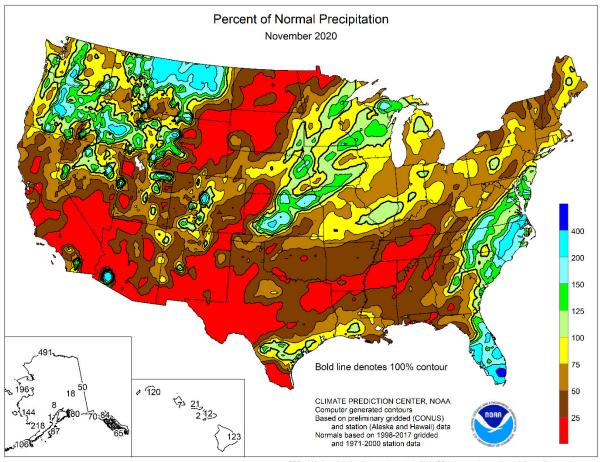
Sixty-six percent of the nation's peanut acreage had been harvested by November 1, sixteen percentage points behind last year and 10 points behind the 5-year average. Eighty-five percent of the peanuts had been harvested by November 15, seven percentage points behind last year and 4 points behind average. Ninety-six percent of the peanuts had been harvested by November 29, two percentage points behind last year but equal to the 5-year average.

By November 1, sugarbeet producers had harvested 95 percent of the nation's crop, 28 percentage points ahead of last year and 11 points ahead of the 5-year average.

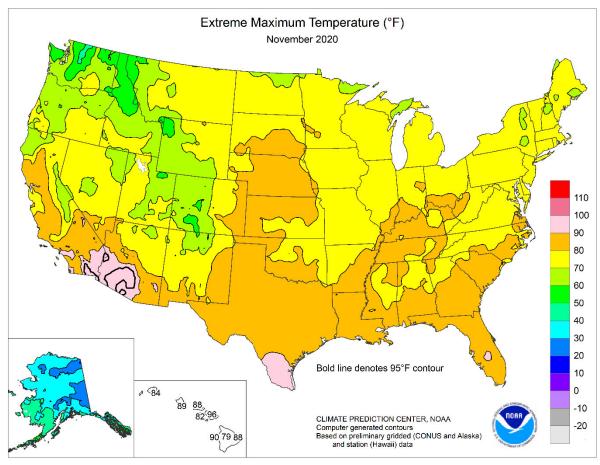
By November 1, sixty-one percent of this year's sunflower crop was harvested, 34 percentage points ahead of last year and 7 points ahead of the 5-year average. By November 15, eighty-eight percent of the sunflowers had been harvested, 42 percentage points ahead of last year and 13 points ahead of average. By November 29, ninety-seven percent of the sunflowers had been harvested, 35 percentage points ahead of last year and 10 points ahead of average.

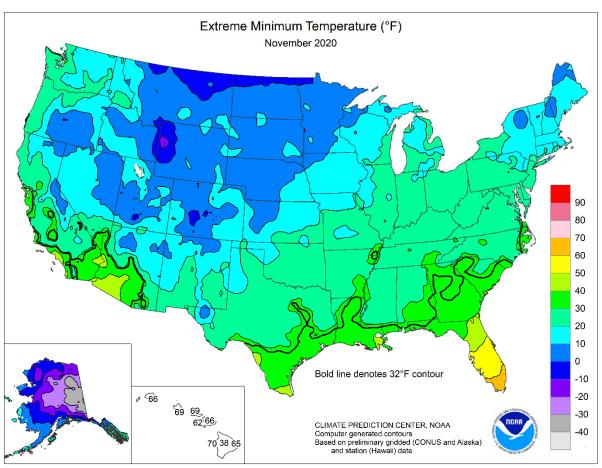


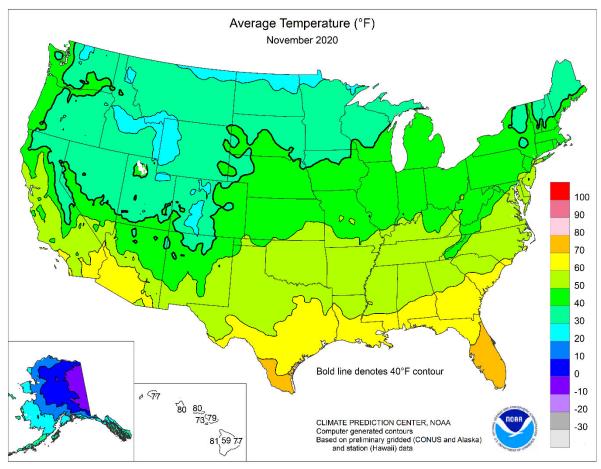
CPC gridded precipitation data supplemented with AHPS (water.weather.gov/precip/) for quality control purposes

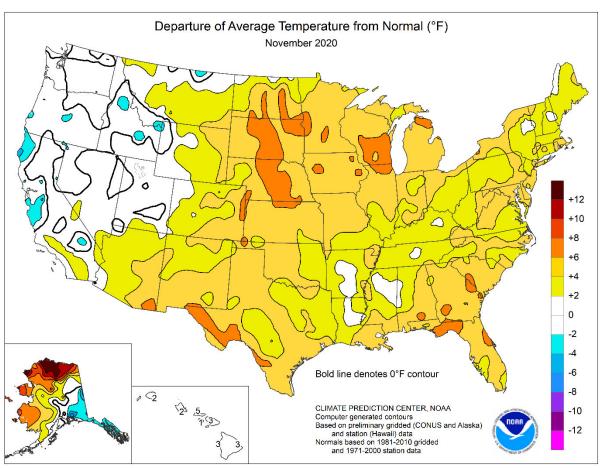


CPC gridded precipitation data supplemented with AHPS (water.weather.gov/precip/) for quality control purposes









National Weather Data for Selected Cities

November 2020

Data Provided by Climate Prediction Center

1		TEM	IP, °F	PR	ECIP.		TEMP, °F		PRECIP.			TEM	lP, °F	PR	ECIP.
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	ANGUODA 05			4.04		MINISTA			0.70		T01 F0.0			0.00	
AK	ANCHORAGE BARROW	22 15	-1 12	1.61 1.02	0.46 0.78	WICHITA KY LEXINGTON	49 48	4 2	0.78 2.42	-0.65 -1.09	TOLEDO YOUNGSTOWN	47 47	5 5	3.23 3.02	0.40 -0.14
	FAIRBANKS	2	-2	1.43	0.76	LOUISVILLE	53	4	2.70	-0.88	OK OKLAHOMA CITY	53	2	0.35	-1.63
	JUNEAU	31	-2	6.30	0.32	PADUCAH	52	4	2.44	-1.86	TULSA	54	4	1.96	-0.82
	KODIAK	35	1	6.00	-0.86	LA BATON ROUGE	64	-1	3.22	-0.18	OR ASTORIA	46	-1	10.13	-1.03
	NOME BIRMINGHAM	25 58	8	2.39 2.28	1.17 -2.58	LAKE CHARLES NEW ORLEANS	64 67	3 5	5.33 6.40	0.88 1.89	BURNS EUGENE	34 45	0	1.20 5.61	0.03 -2.12
	HUNTSVILLE	55	2	1.97	-2.98	SHREVEPORT	61	4	1.12	-3.43	MEDFORD	45	0	3.35	0.35
	MOBILE	63	3	1.92	-3.22	MA BOSTON	48	3	4.36	0.36	PENDLETON	42	1	2.51	0.96
	MONTGOMERY	61	5	4.91	0.30	WORCESTER	46	5	5.96	1.65	PORTLAND	46	0	5.42	-0.21
	FORT SMITH LITTLE ROCK	55 55	3	1.96 2.10	-2.50 -3.19	MD BALTIMORE ME CARIBOU	52 36	6 5	6.37 3.82	3.08 0.23	SALEM PA ALLENTOWN	45 47	-1 4	6.05 4.97	-0.45 1.49
	FLAGSTAFF	40	3	0.76	-1.00	PORTLAND	42	3	5.70	0.23	ERIE ERIE	49	6	4.68	0.75
	PHOENIX	68	4	0.00	-0.66	MI ALPENA	43	7	1.39	-0.73	MIDDLETOWN	50	6	2.43	-0.78
	PRESCOTT	49	3	0.15	-0.80	GRAND RAPIDS	44	4	2.23	-1.25	PHILADELPHIA	52	4	4.89	1.92
	TUCSON	65	5	0.16	-0.42	HOUGHTON LAKE	40	6	1.72	-0.58	PITTSBURGH	46	3	2.08	-1.13
	BAKERSFIELD EUREKA	56 46	1 -4	0.40 2.38	-0.24 -3.23	LANSING MUSKEGON	44 45	4 5	1.89 1.96	-0.88 -1.38	WILKES-BARRE WILLIAMSPORT	47 45	6 4	2.48 2.30	-0.64 -1.45
	FRESNO	55	1	0.30	-0.78	TRAVERSE CITY	44	7	1.35	-1.34	RI PROVIDENCE	48	4	6.68	2.14
	LOS ANGELES	60	-1	0.12	-1.00	MN DULUTH	33	4	2.46	0.37	SC CHARLESTON	64	5	3.03	0.62
	REDDING	53	1	1.52	-2.94	INT_L FALLS	31	5	0.47	-0.92	COLUMBIA	59	4	3.59	0.86
	SACRAMENTO SAN DIEGO	53 63	0	0.54 0.26	-1.53 -0.76	MINNEAPOLIS ROCHESTER	39 38	5 0	1.34 2.56	-0.43 0.65	FLORENCE GREENVILLE	59 55	4	3.95 6.06	1.28 2.36
	SAN FRANCISCO	63 55	0	0.26	-0.76 -2.05	ST. CLOUD	38 36	5	2.56	0.65	SD ABERDEEN	36	7	0.38	-0.37
	STOCKTON	54	1	0.10	-1.59	MO COLUMBIA	50	5	2.81	-0.43	HURON	38	6	0.39	-0.50
	ALAMOSA	34	4	0.32	-0.13	KANSAS CITY	49	5	0.93	-1.22	RAPID CITY	40	5	0.15	-0.39
	CO SPRINGS	43	5	0.01	-0.42	SAINT LOUIS SPRINGFIELD	51	4	3.92	0.01	SIOUX FALLS	39	7	1.26	-0.12
	DENVER INTL GRAND JUNCTION	44 42	5 3	0.51 0.11	-0.11 -0.63	MS JACKSON	50 59	4	3.06 2.66	-1.18 -2.12	TN BRISTOL CHATTANOOGA	50 55	4	2.09 3.68	-1.00 -1.33
	PUEBLO	44	5	0.03	-0.46	MERIDIAN	58	4	3.83	-1.12	KNOXVILLE	53	3	1.46	-2.56
СТ	BRIDGEPORT	49	4	2.96	-0.40	TUPELO	56	3	1.36	-3.34	MEMPHIS	56	3	1.78	-3.71
	HARTFORD	46	4	5.32	1.43	MT BILLINGS	39	4	0.39	-0.24	NASHVILLE	54	4	1.22	-3.09
	WASHINGTON	54 50	4	6.18	3.02 2.91	BUTTE	29 35	1 5	0.46	-0.14	TX ABILENE	60 51	5 5	0.39	-1.02
	WILMINGTON DAYTONA BEACH	72	4 5	5.98 6.63	3.96	CUT BANK GLASGOW	32	2	0.46 0.70	0.06 0.27	AMARILLO AUSTIN	66	5	0.33	-0.48 -2.21
	JACKSONVILLE	67	5	1.77	-0.34	GREAT FALLS	37	4	0.93	0.35	BEAUMONT	65	3	4.02	-0.40
	KEY WEST	78	2	7.61	5.32	HAVRE	33	3	0.69	0.23	BROWNSVILLE	74	5	0.47	-1.35
	MIAMI	77	2	9.69	6.43	MISSOULA	34	0	0.67	-0.37	CORPUS CHRISTI	70	4	1.43	-0.54
	ORLANDO PENSACOLA	72 67	4 6	5.31 2.15	3.15 -2.60	NC ASHEVILLE CHARLOTTE	51 56	3 6	3.69 6.70	0.04 3.59	DEL RIO EL PASO	68 60	7	0.02	-0.93 -0.50
	TALLAHASSEE	66	6	5.08	1.61	GREENSBORO	54	4	6.76	3.67	FORT WORTH	60	4	1.08	-1.61
	TAMPA	74	5	5.33	3.76	HATTERAS	63	5	5.46	0.50	GALVESTON	70	5	2.74	0.00
	WEST PALM BEACH	78	5	8.00	3.24	RALEIGH	55	3	5.35	2.26	HOUSTON	66	4	3.90	-0.46
	ATHENS ATLANTA	59 59	5 5	4.78 3.01	0.96 -1.09	WILMINGTON ND BISMARCK	61 35	4 6	7.10 0.24	3.83 -0.48	LUBBOCK MIDLAND	55 57	5 5	0.09 0.48	-0.78 -0.21
	AUGUSTA	61	6	1.89	-0.91	DICKINSON	36	6	0.24	-0.48	SAN ANGELO	59	3	0.48	-1.13
	COLUMBUS	62	5	3.74	-0.36	FARGO	33	4	0.25	-0.77	SAN ANTONIO	66	4	1.49	-0.78
	MACON	61	5	5.41	2.11	GRAND FORKS	30	4	0.13	-0.83	VICTORIA	67	4	3.22	0.01
	SAVANNAH	66	7	2.66	0.31	JAMESTOWN	35	7	0.10	-0.54	WACO	61	3	1.29	-1.52
	HILO HONOLULU	77 80	3	19.02 0.17	3.52 -2.25	NE GRAND ISLAND LINCOLN	45 44	7 5	1.09 1.24	-0.07 -0.19	WICHITA FALLS UT SALT LAKE CITY	56 42	3 2	0.39	-1.26 -0.78
i	KAHULUI	79	3	0.26	-1.94	NORFOLK	42	6	2.00	0.61	VA LYNCHBURG	53	6	8.51	5.12
	LIHUE	76	1	5.36	0.88	NORTH PLATTE	42	7	0.33	-0.32	NORFOLK	58	5	7.73	4.61
	BURLINGTON	46	3	1.99	-0.50	OMAHA	44	5	1.91	0.27	RICHMOND	54	4	4.48	1.25
	CEDAR RAPIDS DES MOINES	41 44	4 5	2.16 2.52	0.04 0.34	SCOTTSBLUFF VALENTINE	41 42	6 8	0.37 0.83	-0.29 0.17	ROANOKE WASH/DULLES	53 51	5 5	5.92 3.68	2.54 0.30
	DUBUQUE	44	5	2.52	0.34	NH CONCORD	42	3	4.22	0.17	VT BURLINGTON	43	5	2.17	-0.94
	SIOUX CITY	40	4	2.11	0.80	NJ ATLANTIC_CITY	51	4	5.65	2.39	WA OLYMPIA	43	0	9.28	0.64
	WATERLOO	41	5	1.39	-0.61	NEWARK	51	5	3.72	0.09	QUILLAYUTE	44	0	15.48	-0.05
	BOISE	40	0	1.81	0.45	NM ALBUQUERQUE	49	4	0.12	-0.46	SEATTLE-TACOMA	46	1	5.73	-0.82
	LEWISTON POCATELLO	42 35	1	1.88 0.92	0.71 -0.20	NV ELY LAS VEGAS	35 59	1 2	0.61 0.00	-0.11 -0.40	SPOKANE YAKIMA	37 39	1 2	1.70 1.18	-0.59 0.11
	CHICAGO/O_HARE	47	7	1.74	-1.38	RENO	42	0	0.61	-0.24	WI EAU CLAIRE	38	5	1.82	-0.01
	MOLINE	46	6	2.18	-0.37	WINNEMUCCA	38	2	1.74	0.82	GREEN BAY	42	7	2.41	0.27
i	PEORIA	46	5	2.30	-0.81	NY ALBANY	41	1	3.70	0.43	LA CROSSE	42	6	2.41	0.39
1	ROCKFORD SPRINGFIELD	46 47	7	1.81 2.07	-0.76 -1.11	BINGHAMTON BUFFALO	43 46	4 5	3.15 2.91	-0.13 -1.11	MADISON MILWAUKEE	42 47	6 8	1.89 1.93	-0.47 -0.78
	EVANSVILLE	47 51	4	3.52	-1.11 -0.82	ROCHESTER	46 45	5	2.91	-1.11 -0.59	WV BECKLEY	47	4	1.93	-0.78 -1.24
	FORT WAYNE	45	4	2.97	-0.11	SYRACUSE	45	5	2.48	-1.01	CHARLESTON	50	3	2.87	-0.83
	INDIANAPOLIS	48	4	3.74	0.06	OH AKRON-CANTON	47	6	2.31	-0.98	ELKINS	47	5	3.62	0.26
	SOUTH BEND	45	5	1.88	-1.37			4	3.80	0.39	HUNTINGTON	50	3	2.85	-0.56
	CONCORDIA DODGE CITY	49 48	7 5	2.44 1.73	1.31 0.96			4	3.54 3.46	-0.04 0.29	WY CASPER CHEYENNE	37 40	4 5	0.04 0.18	-0.74 -0.40
ı	GOODLAND	45	6	0.01	-0.71	DAYTON	47 48	5	3.14	-0.22	LANDER	36	5	0.18	-0.40
	ТОРЕКА	49	5	1.69	-0.17	MANSFIELD	47	5	3.01	-0.78	SHERIDAN	38	5	0.04	-0.68

Based on 1981-2010 normals *** Not Available

International Weather and Crop Summary

November 29 - December 5, 2020

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

EUROPE: Cold conditions ushered winter crops into dormancy, while increasingly stormy weather resulted in widespread rain and mountain snow in western, central, and southern Europe.

MIDDLE EAST: Moderate to heavy rain and mountain snow in central portions of the region contrasted with drought in central Turkey.

NORTHWESTERN AFRICA: Additional muchneeded rain in western crop areas eased long-term drought and improved soil moisture for winter grain planting and establishment.

SOUTHEAST ASIA: Consistently heavy showers in southern Indonesia maintained abundant moisture supplies for rice.

AUSTRALIA: Hot, dry weather stressed vegetative summer crops before more favorable weather returned later in the week.

SOUTH AFRICA: Warm, showery weather favorable maintained overall summer crop prospects.

ARGENTINA: Locally heavy showers improved moisture for emerging summer grains, oilseeds, and cotton in northern farming areas.

BRAZIL: Much-needed rain benefited summer crops in southern farming areas, but moisture remained limited for soybeans farther north.

November 2020

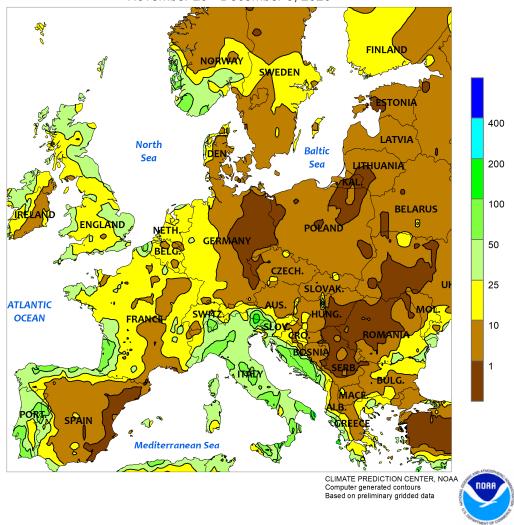
	November 2020 COUNTRY CITY TEMPERATURE PRECIP.												
COUNTRY	CITY			PRECIP.									
		AVG	AVG	HI (C) LO		DEP	(1)	им) DEP				
		MAX	MIN	MAX	MIN	AVG	NRM	TOT	NRM				
ALGERI	ALGER	23	12	31	4	17	2.6	77	-13				
	BATNA	19	5	26	-1	12	1.7	11	-18				
ARGENT	IGUAZU	32	18	38	12	25	0.9	60	-105				
	FORMOSA CERES	33	18	41	14	26	1 0.5	189	30				
	CORDOBA	30 30	16 14	42 37	11 9	24 22	1.9	77 82	-26 -33				
	RIO CUARTO	28	15	36	10	22	1.6	89	-42				
	ROSARIO	30	16	39	11	23	1.5	62	-52				
	BUENOS AIRES	27	15	34	8	21	0.9	34	-66				
	SANTA ROSA	29	14	36	8	21	1.8	57	-25				
AUSTRA	TRES ARROYOS DARWIN	26	12	32	4	19	2	107	22				
AUSTRA	BRISBANE	34 26	26 19	37 30	22 15	30 23	0.6 0.5	85 1	-53 -96				
	PERTH	24	13	35	8	19	-1.3	53	24				
	CEDUNA	28	14	42	6	21	1.8	****	*****				
	ADELAIDE	27	15	37	7	21	2.2	****	*****				
	MELBOURNE	24	13	35	7	18	2.1	56	3				
	WAGGA	29	14	39	6	21	2.3	51	6				
AUSTRI	CANBERRA VIENNA	25 8	11 4	35 19	4 -4	18 6	1.7 0.6	72 16	5 -25				
AOOTT	INNSBRUCK	11	0	20	- -5	5	1.8	19	-38				
ВАНАМА	NASSAU	29	24	32	17	26	1.8	258	179				
BARBAD	BRIDGETOWN	30	25	31	23	28	1.1	132	-29				
BELARU	MINSK	5	2	11	-2	4	3	50	4				
BERMUD	ST GEORGES	24	20	27	16	22	0.4	123	27				
BOLIVI BRAZIL	LA PAZ FORTALEZA	20 31	0 26	22 32	-4 24	10 29	0.5 0.4	12 31	-36 *****				
DIVAZIL	RECIFE	30	26	31	23	28	-0.6	13	-18				
	CAMPO GRANDE	32	20	36	16	26	-0.3	112	-11				
	FRANCA	***	***	34	13	***	****	112	-69				
	RIO DE JANEI	28	21	34	17	24	-1	84	-29				
	LONDRINA	33	19	38	12	26	2.2	110	-37				
	SANTA MARIA	28	17 ***	38	10	22	0.3	59 *****	-78 *****				
BULGAR	TORRES SOFIA	10	2	31 16	14 -6	6	1.4	15	-27				
BURKIN	OUAGADOUGOU	36	20	38	18	28	0	0	-2 <i>1</i> -1				
CANADA	LETHBRIDGE	6	-5	21	-22	0	-0.6	13	*****				
	REGINA	1	-10	22	-20	-5	-0.3	13	-14				
	WINNIPEG	3	-7	20	-16	-2	0.9	6	-24				
	TORONTO	11	2	24	-6	7	3.5	66	-5				
	MONTREAL PRINCE ALBER	9	0 -13	22 12	-7	4	2.2	65 14	-34 -3				
	CALGARY	-3 6	-13 -6	23	-22 -14	-8 0	-0.8 2.9	18	-ა 5				
	VANCOUVER	9	4	16	-2	6	0.2	189	5				
CANARY	LAS PALMAS	25	19	30	15	22	0.9	17	-4				
CHILE	SANTIAGO	28	10	34	6	19	1.7	0	-6				
CHINA	HARBIN	1	-7	12	-21	-3	1.5	37	24				
	HAMI BEIJING	8	-6	16	-16	1	0.8	6	4				
	TIENTSIN	12 12	2	20 20	-5 -5	7 7	1.8 1.6	31 30	21 17				
	LHASA	14	-1	20	-6	6	2.8	0	0				
	KUNMING	20	9	23	6	14	2	7	-30				
	CHENGCHOW	15	7	23	-1	11	2.8	41	20				
	YEHCHANG	16	9	25	2	12	1.2	49	-2				
	HANKOW	18	9	24	0	13	2	89	29				
	CHUNGKING CHIHKIANG	19 17	13 10	26 30	8 2	16 14	1.2 1	21 22	-27 -39				
	WU HU	17	10	30	3	14	1.3	84	-39 20				
	SHANGHAI	19	12	28	6	15	2	55	-3				
	NANCHANG	19	13	30	6	16	2.2	60	-1				
	TAIPEI	26	22	32	18	24	1.9	16	-57				
	CANTON	27	18	31	12	22	3.7	6	-36				
COTE D	NANNING ABIDJAN	24	17	30	11	21	2.4	1	-43				
CUBA	CAMAGUEY	31 28	25 22	32 32	23 19	28 25	-0.5 0.7	197 48	65 *****				
CYPRUS	LARNACA	24	15	27	12	20	2.3	25	-23				
CZECHR	PRAGUE	7	2	18	-3	4	1.3	9	-21				
DENMAR	COPENHAGEN	10	6	17	-2	8	2.6	32	-15				

November 2020

							I	AOVE	embe	r 202	U										
COUNTRY CITY				TEMPER (C			PRECIP. COUNTRY CITY (MM)					TEMPERATURE (C)							PRECIP. (MM)		
		AVG	AVG	HI	LO		DEP		DEP			AVG	AVG	HI	LO		DEP		DEP		
		MAX	MIN	MAX	MIN	AVG	NRM	TOT	NRM			MAX	MIN	MAX	MIN	AVG	NRM	TOT	NRM		
EGYPT	CAIRO	24	16	26	13	20	0.2	9	*****	MAURIT	NOUAKCHOTT	35	20	41	16	27	1.1	****	*****		
	ASWAN	***	***	***	***	***	****	****	*****	MEXICO	GUADALAJARA	***	***	30	8	***	****	****	*****		
ESTONI	TALLINN	7	4	14	-2	5	3.9	79	9		TLAXCALA	24	11	28	5	17	2.4	0	-14		
ETHIOP	ADDIS ABABA	24	11	30	7	17	2.1	****	*****		ORIZABA	22	14	29	10	18	0.4	93	*****		
	CAYENNE	31	23	33	22	27	0.6	298	169	MOROCC	CASABLANCA	23	14	32	9	18	1.9	42	-28		
	NAUSORI	30	23	32	20	26	1.3	330	103		MARRAKECH	26	12	32	7	19	2.3	14	-15		
	HELSINKI	6	3	12	-6	4	4.0	94	21	MOZAMB	MAPUTO	30	22	43	17	26	1.2	49	-39		
FRANCE	PARIS/ORLY	13	7	20	1	10	2.2	14	-34	N KORE	PYONGYANG	11	2	18	-7	6	1.5	131	91		
	STRASBOURG	11	4	22	-6	7	1.5	6	-40	NEW CA	NOUMEA	28	22	32	19	25	1.2	44	-5		
	BOURGES	14	6	22	-2	10	2.8	20	-46	NIGER	NIAMEY	36	22	38	19	29	0.5	0	0		
	BORDEAUX	17	8	25	1	12	3.1	17	-93	NORWAY		6	2	15	-7	4	4.2	91	2		
	TOULOUSE	17	8	22	-1	12	3.0	18	-33	NZEALA	AUCKLAND	21	14	24	11	18	1.4	106	50		
040011	MARSEILLE	18 ***	9	22	0	13 ***	2.1	104	48	D DIGG	WELLINGTON	17	12	22	7	15	0.4	195	140		
	LIBREVILLE			31				41	-367	P RICO	SAN JUAN	30	24	32	23	27	0.0	198	36		
GERMAN	HAMBURG	10	6	20	-1	8	2.3	12	-58	PAKIST	KARACHI	31	18	36	14	25	0.1	3	3		
	BERLIN DUSSELDORF	10	5	21	-1	8	2.8	17	-30	PERU	LIMA	22	17	24	15	19	0.1	0			
		12	6	21	-6	9	2.0	25	-37	PHILIP	MANILA	31	25	34	22	28	-0.1	1188	1087		
	LEIPZIG DRESDEN	10 9	4	21	-1 2	7 6	2.1	6	-37 53	PNEWGU POLAND	PORT MORESBY WARSAW	31 g	25 4	33 16	23	28 6	-0.2 2.7	414 g	353		
	STUTTGART		4 2	20	-2 -6	6 6	2.2	6	-53	FOLAND	LODZ	8 8	3	16	-5 -	6	2.7	8	-30		
	NURNBERG	11	2	21		5	1.7	10	-41		KATOWICE	8	2	16	-5 -	5	1.8	11	-30		
	AUGSBURG	9 8	2	20 20	-8 -7	5 5	1.4	9 14	-38	PORTUG	LISBON	o 19	13	16 25	-5 0	16	1.2	20 97	-27 12		
CDEECE	THESSALONIKA	o 17	8	22	-7	5 12	1.1 1.0	12	-36 -43	ROMANI	BUCHAREST	10	2	25 16	9 -6	6	1.3 1.5	19	-12 -24		
-	LARISSA	16	6	21	-3	11	0.9	9	-43 -53	RUSSIA	ST.PETERSBUR	5	2	10	-0 -3	4	3.6	63	-2 4 5		
	ATHENS	19	13	23	-3 9	16	1.0	2	-62	ROOOIA	KAZAN	-1	-4	6	-3 -13	-2	0.5	24	-21		
GUADEL	RAIZET	30	23	31	20	26	0.4	250	109		MOSCOW	3	1	10	-13 -7	2	3.4	68	-2 i 14		
	HONG KONG IN	27	22	30	16	24	1.3	0	*****		YEKATERINBUR	-3	-7	8	-17	-5	1.7	15	-17		
	BUDAPEST	8	3	15	-5	6	0.6	26	-23		OMSK	-3 -2	-7	11	-17	-5	2.4	15	-20		
ICELAN	REYKJAVIK	3	1	10	-8	2	0.2	80	0		BARNAUL	-1	-7	14	-19	-4	2.9	21	-16		
INDIA	AMRITSAR	25	10	30	5	17	-0.6	16	8		KHABAROVSK	-2	-8	12	-16	-5	2.5	12	-16		
	NEW DELHI	28	10	32	6	19	-1.5	1	-6		VLADIVOSTOK	3	-2	14	-11	1	1.8	22	-6		
	AHMEDABAD	33	17	35	13	25	-0.1	0	-6		VOLGOGRAD	4	-2	16	-12	1	0.6	0	-29		
	INDORE	29	16	33	12	22	0.5	0	-17		ASTRAKHAN	7	0	20	-8	4	0.4	22	4		
	CALCUTTA	30	20	34	15	25	0.9	37	-3		ORENBURG	0	-7	14	-18	-3	0.7	13	-19		
	VERAVAL	33	21	37	17	27	-0.1	0	*****	S AFRI	JOHANNESBURG	25	14	32	9	20	1.0	179	75		
	BOMBAY	34	22	36	19	28	0.7	0	*****		DURBAN	25	18	31	15	21	-0.4	197	79		
	POONA	31	16	33	10	24	8.0	5	-22		CAPE TOWN	23	14	33	8	19	0.5	33	11		
	BEGAMPET	30	18	33	12	24	0.5	9	-8	S KORE	SEOUL	12	5	20	-4	9	1.5	120	69		
	VISHAKHAPATN	31	24	34	18	27	0.7	108	-7	SAMOA	PAGO PAGO	30	25	32	23	28	0.0	413	126		
	MADRAS	30	23	33	19	27	0.3	726	344	SENEGA	DAKAR	33	24	39	20	28	2.3	0	0		
	MANGALORE	34	23	35	20	28	8.0	26	*****	SPAIN	VALLADOLID	15	6	20	0	10	2.6	40	-12		
INDONE	SERANG	33	24	35	23	28	0.5	140	5		MADRID	15	6	21	0	11	1.3	63	15		
IRELAN	DUBLIN	11	6	16	-1	9	1.7	50	-25		SEVILLE	22	13	29	7	17	1.9	79	*****		
ITALY	MILAN	13	5	19	-2	9	0.6	11	-81	SWITZE	ZURICH	***	***	21	4	***	****	****	*****		
	VERONA	13	4	20	-4	9	0.3	13	-54		GENEVA	10	4	22	-4	7	1.6	15	-68		
	VENICE	13	5	19	0	9	0.1	16	-51	SYRIA	DAMASCUS	20	9	29	5	14	2.6	54	27		
	GENOA	16	12	20	5	14	1.0	19	-121	TAHITI	PAPEETE	30	24	31	22	27	-0.1	226	100		
	ROME	18	9	22	4	14	0.3	20	-78	TANZAN	DAR ES SALAA	31	21	33	-60	26	-1.0	245	132		
	NAPLES	19	10	23	6	14	0.6	2	-122	THAILA	PHITSANULOK	33	23	35	20	28	1.3	2	-40		
JAMAIC	KINGSTON	31	23	33	21	27	-0.4	324	226		BANGKOK	34	26	37	23	30	1.9	62	5		
JAPAN	SAPPORO	9	4	19	-1	7	1.7	116	13	TOGO	TABLIGBO	35	24	36	22	29	0.9	28	*****		
	NAGOYA	19	10	25	6	15	2.2	38	-43	TRINID	PORT OF SPAI	31	24	33	22	28	1.0	161	-85		
	TOKYO	18	10	25	5	14	0.9	16	-73	TUNISI	TUNIS	23	14	28	9	18	1.6	126	70		
	YOKOHAMA	18	12	24	7	15	1.7	10	-91	TURKEY	ISTANBUL	16	10	19	4	13	0.6	37	-36		
	КҮОТО	18	10	27	6	14	1.5	42	-30		ANKARA	12	-2	18	-10	5	-0.5	0	-36		
	OSAKA	19	12	27	7	15	1.7	48	-21	TURKME	ASHKHABAD	13	4	31	-5	9	0.1	15	-2		
	KUSTANAY	-3	-9	13	-22	-6	-0.4	14	-12	UKINGD	ABERDEEN	10	4	17	-3	7	1.3	35	-58		
	TSELINOGRAD	-3	-8	10	-21	-6	-0.7	50	27		LONDON	13	7	17	-1	10	1.4	64	8		
	KARAGANDA	-3	-10	15	-23	-6	-0.8	44	15	UKRAIN	KIEV	5	2	12	-4	4	2.0	29	-18		
	NAIROBI	26	16	29	16	21	0.2	****	*****		LVOV	7	2	13	-7	4	1.6	17	-33		
LIBYA	BENGHAZI	***	***	25	***	***	****	53	*****		KIROVOGRAD	6	2	14	-4	4	1.6	14	-21		
	KAUNAS	7	3	13	-2	5	3.1	29	-18		ODESSA	9	4	15	0	7	1.1	22	-17		
	LUXEMBOURG	10	5	20	-5	7	2.3	31	-47		KHARKOV	4	1	12	-7	3	1.9	41	0		
	KUALA LUMPUR	33	25	36	23	29	1.6	420	99	UZBEKI	TASHKENT	10	1	26	-10	5	-3.1	54	1		
MALI	BAMAKO	35	17	37	10	26	-1.4	0	-1	VENEZU	CARACAS	***	***	***	***	***	****	0	-81		
MARSHA		30	27	31	26	28	0.5	388	52	YUGOSL	BELGRADE	10	5	20	-1	8	0.5	12	-39		
MARTIN	LAMENTIN	30	24	33	23	27	8.0	438	172	ZAMBIA	LUSAKA	***	***	36	18	***	*****	703	*****		

Based on Preliminary Reports

EUROPE
Total Precipitation (mm)
November 29 - December 5, 2020

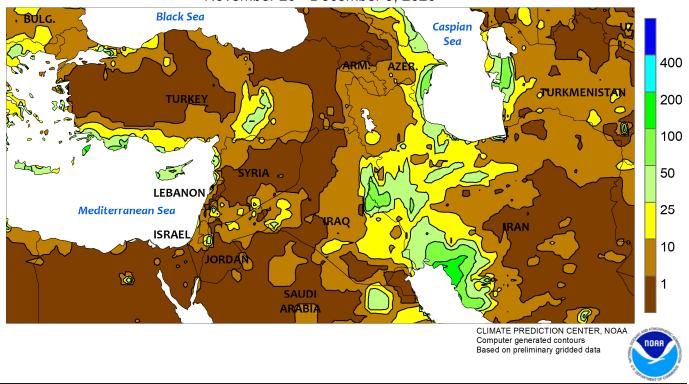


EUROPE

Cold but increasingly stormy weather prevailed, though some central and eastern croplands were mostly dry. A pair of storm systems moved slowly across the continent, producing 5 to 50 mm of rain and mountain snow (liquid equivalent) from England southeastward across much of western, central, and southern Europe. The precipitation eased short-term dryness and maintained overall favorable moisture supplies for vegetative (Spain and Italy) to dormant winter crops. However, pockets of dryness were noted in eastern Germany, northeastern Poland, and the central Balkans. Freezes were common as temperatures averaged up to 3°C below normal, with 7-day average readings at or below 5°C indicating winter

crops were now dormant from central France eastward into much of eastern Europe. Overall, Europe's winter crop prospects remained favorable, with the end-of-autumn Vegetation Health Index indicating conditions were on par with or better than last year. Over south-central Europe — where moisture from the Mediterranean surged northward into the mountains of Italy and the western Balkans — heavy rain and mountain snow (100 mm or more liquid equivalent) boosted spring runoff prospects but caused localized flooding. Heavy rain and mountain snow continued in northeastern Italy and environs after the 7-day monitoring period, pushing stormtotal precipitation totals over 200 mm as of December 7.

MIDDLE EAST Total Precipitation (mm) November 29 - December 5, 2020

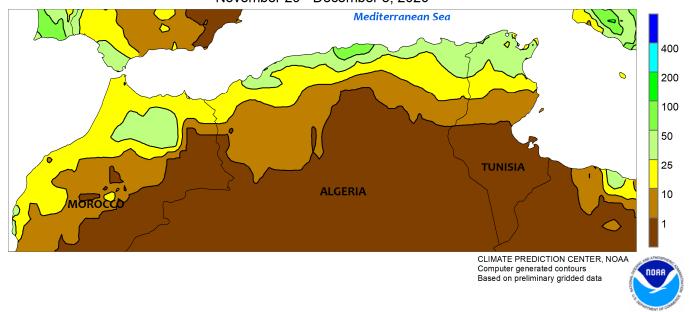


MIDDLE EAST

Additional precipitation in central portions of the region contrasted with drought over central Turkey. Another in a series of slow-moving storm systems produced a wide swath of moderate to heavy rain and mountain snow (10-100 mm liquid equivalent) from the Persian Gulf northward to the Caspian Sea Coast, maintaining adequate to abundant moisture supplies for winter grains in Iran and neighboring portions of Iraq. A Mediterranean disturbance likewise produced moderate to heavy showers (5-60 mm) in southern and southeastern Turkey, though the rain from this system largely bypassed the eastern Mediterranean Coast. In contrast, dry weather in central and eastern Turkey

heightened drought concerns for winter grains as well as spring runoff prospects for summer crop irrigation. Since September 1, rainfall on the Anatolian Plateau has totaled less than 50 percent of normal, with the end-of-autumn Vegetation Health Index indicating winter grains were poorly established. Temperatures averaged 1 to 3°C above normal across much of the region, save for northwestern Iran where colder-than-normal conditions (2-5°C below normal) were observed. The cold weather in northwestern Iran hastened winter grains into dormancy, while 7-day average temperatures near to slightly above 5°C in central Turkey indicated winter grains were approaching dormancy.

NORTHWESTERN AFRICA Total Precipitation (mm) November 29 - December 5, 2020

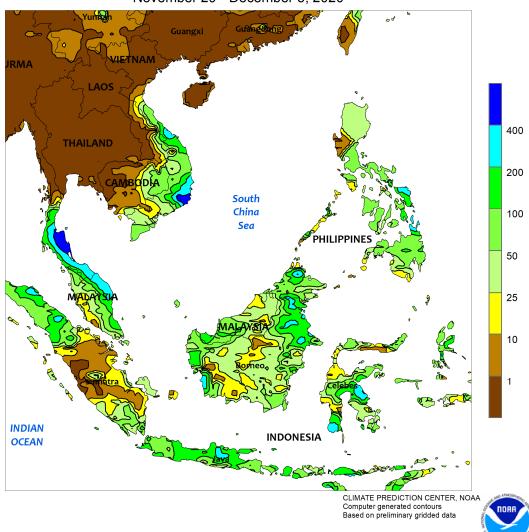


NORTHWESTERN AFRICA

Widespread rain continued, further easing drought in the west and maintaining good winter crop prospects in the east. A cold front swept inland across Morocco and western Algeria, producing moderate to heavy showers (5-40 mm) along with some snow in the Atlas Mountains. Despite the western precipitation, longer-term deficits remained; rainfall since October 1 has totaled less than

50 percent of normal in Morocco's primary croplands and in Algeria's western Tell region, though these numbers have improved in recent weeks. Meanwhile, moderate to heavy rain (10-100 mm) from central Algeria into northern Tunisia maintained adequate to abundant soil moisture for winter grain establishment but hampered late sowing efforts.

SOUTHEAST ASIA Total Precipitation (mm) November 29 - December 5, 2020

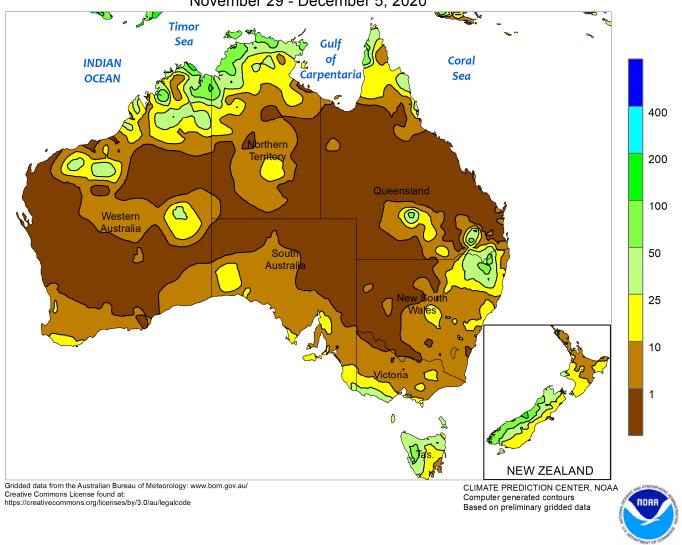


SOUTHEAST ASIA

Heavy showers (50-150 mm) persisted across much of southern Indonesia (Java), maintaining abundant moisture supplies for rice. Rainfall totals since the start of the wet season (October 25, nearly three weeks earlier than normal) have been over 150 percent of normal and nearly four times last year's amount for the same period. Rainfall has also been consistent and much improved over last year in most oil

palm areas of Indonesia (Sumatra and Kalimantan) as well as in neighboring Malaysia. Elsewhere, waves of tropical moisture continued to produce unseasonably heavy downpours (over 100 mm) across the eastern Philippines and added to excessively wet conditions in central Vietnam. In contrast, drier weather eased extreme wetness in key agricultural areas of the northern Philippines.



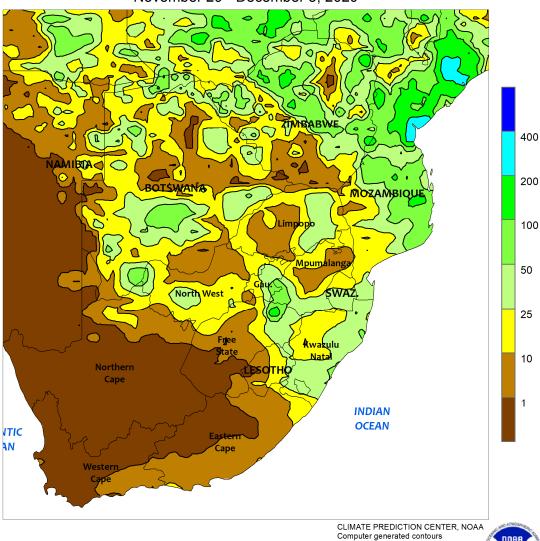


AUSTRALIA

In southern Queensland and northern New South Wales, hot, dry weather early in the week likely stressed some vegetative summer crops. However, widespread showers (10-25 mm, locally near 50 mm) increased topsoil moisture during the second half of the week, while somewhat cooler weather helped ease the stress on tender vegetation. Temperatures averaged 5 to 7°C above normal for the week, with maximum temperatures ranging from the upper 30s to middle 40s (degrees C) on the

hottest days. Elsewhere in the wheat belt, passing showers (5-15 mm, locally near 25 mm) in southern New South Wales, Victoria, and South Australia may have disrupted wheat, barley, and canola harvesting, but any delays were likely brief. In Western Australia, dry weather allowed fieldwork to progress without delay. Winter grain and oilseed harvesting is reportedly making good progress throughout Australia, with wheat harvesting nearing the halfway mark on a national scale.

SOUTH AFRICA Total Precipitation (mm) November 29 - December 5, 2020



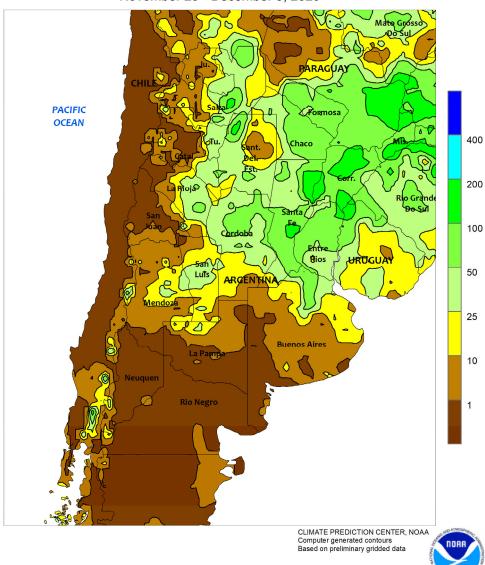
SOUTH AFRICA

Mild, showery weather maintained overall favorable conditions for corn and other rain-fed summer crops in key commercial production areas. Rainfall totaled 10 to 50 mm over much of the eastern part of the country, including major portions of the corn belt (North West to Mpumalanga) and rain-fed sugarcane areas of southern KwaZulu-Natal; in western sections of the corn belt, the moisture likely enabled sowing of corn and other summer crops within their optimal planting windows. Similar amounts boosted irrigation reserves for sugarcane in eastern KwaZulu-Natal, as mostly

dry, sunny weather spurred growth of sugarcane in irrigated farming areas in eastern Mpumalanga. Weekly average temperatures were near to slightly below normal in the aforementioned areas, with daytime highs reaching the upper 20s and lower 30s (degrees C) in the corn belt and KwaZulu-Natal. Meanwhile, dry weather dominated the Cape Provinces, with ample sunshine and summer warmth (highs reaching the lower and middle 30s in most areas) fostering development of irrigated row crops and, in Western Cape, tree and vine crops.

Based on preliminary gridded data

ARGENTINA
Total Precipitation (mm)
November 29 - December 5, 2020

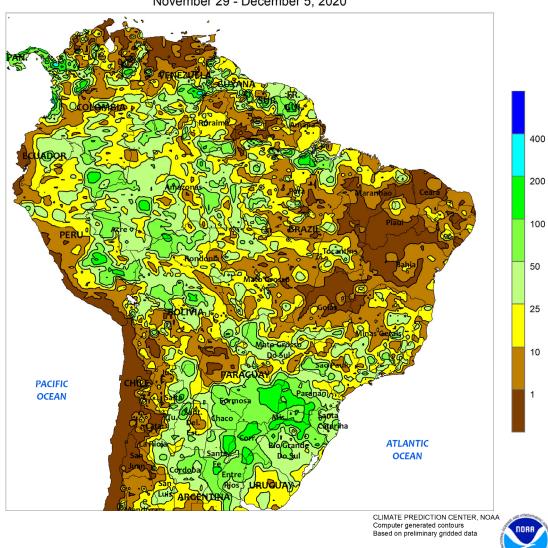


ARGENTINA

Locally heavy rain overspread Argentina's northern farming areas, increasing moisture for emerging summer grains, oilseeds, and cotton. Rainfall totaled 25 to 50 mm or more – exceeding 100 mm in some eastern locations – northward from central Cordoba and Entre Rios. Amounts decreased southward, ranging from 10 to 25 mm from southern Cordoba to northeastern Buenos Aires, while some southern winter grain areas were completely dry. The moisture was particularly welcome in high-yielding corn and soybean areas of southern Cordoba and Santa Fe that have been plagued by extended periods of dryness for much of the growing season. While the rain came too late for maturing

northern winter grains, the sunny weather favored development of filling crops in La Pampa and Buenos Aires following last week's beneficial rain. Weekly average temperatures were near to below normal, though highs reached the lower 30s (degrees C) on several days in central Argentina and the lower 40s in the far north. According to the government of Argentina, corn and soybeans were 55 and 54 percent planted, respectively, as of December 3. Sunflower planting reached 99 percent complete, 5 points ahead of last year's pace; in contrast, cotton was 43 percent planted versus 63 percent last year. Meanwhile, wheat was 42 percent harvested, 3 points behind last year's pace.

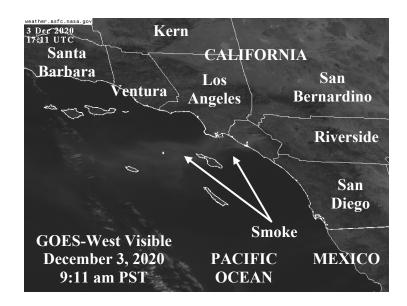
BRAZIL
Total Precipitation (mm)
November 29 - December 5, 2020

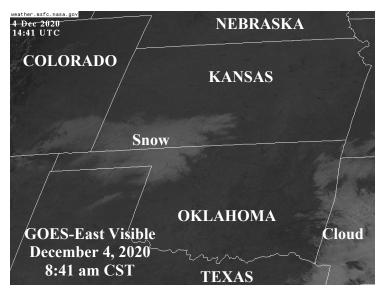


BRAZIL

Locally heavy showers provided much-needed relief from dryness to summer crops in southern production areas. Rainfall totaled more than 25 mm from western Sao Paulo southward through Rio Grande do Sul, with similar amounts recorded locally in Mato Grosso do Sul and southeastern Minas Gerais. Summer warmth accompanied the moisture and daytime highs reached the middle 30s (degrees C) in and around Mato Grosso. According to the government of Parana, 35 percent of corn was in flowering to filling stages as of November 30, compared with soybeans at 14 percent. In Rio Grande do Sul, corn and soybeans were 85 and 61 percent planted, respectively, as of December 3, with 55 percent of the emerged corn crop in reproductive to filling stages of

development. The moisture was also welcome for sugarcane and coffee, though seasonal accumulations remained below normal due to the unseasonably dry October. Meanwhile, showers remained patchy and light (rainfall totaling less than 25 mm in most locations) in northern soybean areas, with near complete dryness centered over the northeastern interior (Piaui and Maranhao southward to northern Goias and western Bahia). Summer warmth (highs reaching the middle and upper 30s on a daily basis) maintained high evaporative losses and posed stress on earlier-planted soybeans now reaching reproduction. A return to a more normal pattern of widespread, heavy showers is vital in these northern farming areas to ensure current yield prospects are realized.





Although tranquil weather prevailed across much of the United States in early December, there were several interesting developments. In California, a protracted "Santa Ana" wind event led to a critical wildfire situation. Late December 2, the ignition of the Bond Fire in Orange County, California, east of Santa Ana, occurred on a night when local wind gusts reached 70 to 85 mph in several locations. By early December 3, satellite imagery (upper left) revealed several smoke plumes originating in or near Orange County, with easterly winds carrying the smoke offshore. Within days, the Bond Fire consumed 7,375 acres of vegetation and damaged or destroyed nearly four dozen structures. Farther east, a storm system crossing the central and southern Plains produced snow in parts of southern Kansas, northern Oklahoma, and the northern panhandle of Texas. On December 2-3, snowfall totaled 2.6 inches in Dodge City, Kansas, and 1.3 inches in Amarillo, Texas. When clouds finally cleared by the morning of December 4, satellite imagery (upper right) showed snow covering a small area of the Plains. The snow benefited winter wheat but bypassed many production areas. In the last USDA *Crop Progress* report of the season, more than one-fifth of the wheat was rated in very poor to poor condition on November 29 in Colorado (38 percent), Texas (34 percent), Nebraska (26 percent), and Kansas (22 percent). Based on the December 1 *U.S. Drought Monitor*, 39 percent of the U.S. winter wheat production area was within an area experiencing drought.

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

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