

NWS Form E-5 (04-2006) (PRES. BY NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA)
		WFO Caribou, Maine REPORT FOR: MONTH YEAR February 2021
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		SIGNATURE Joseph Hewitt, HPM
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		DATE April 4th, 2021

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

An X inside this box indicates that no flooding occurred within this hydrologic service area.

February 2021

No Flooding occurred in the month of February.

Precipitation for the month of February was above normal across Northern Maine, while some areas across the Maine Central Highlands and Downeast were below normal, which included Bangor. Caribou recorded 2.88 inches which was 0.67 inches above normal. Bangor recorded 1.99 inches of precipitation, which was 0.53 inches below normal. Houlton came in with only 2.11 inches of precipitation, which was 0.11 inches above normal. Millinocket recorded 2.82 inches of precipitation which was 0.64 inches above normal.

Snowfall was above normal. Caribou measured 38 inches of snow for the month of February. This was 15.8 inches above the normal snowfall of 22.0 inches. It was the snowiest February since 2013, and ranked as the 10th snowiest February since records began back in 1939. Bangor came in with just 17.5 inches of snow for the month. This was 2.8 inches above the normal snowfall of 14.7 inches. There were several winter storms during the month of February that affected the region. The largest storms were during February 2nd into the 3rd, when 7 to 15 inches of snow was observed across much of the region, from Millinocket to the Maine-Canadian border. Another storm came through the region on the 16th and produced anywhere from 6 to 9 inches of snow. Once again, the highest totals were from Millinocket northward. By the end of the month, snow depths ranged from 15 to 30 inches across the Northern Maine from Millinocket to the northern and western Maine border. Snow depth in Bangor and along the coast ranged from 6 to 10 inches.

February continued the string of a mild winter with monthly temperatures averaging from 0.5 to 2.5 degrees above normal. No extreme cold days in the month of February. Caribou recorded an average temperature of 16.3 degrees, which was 2.2 degrees above normal. In Caribou, there were only 8 nights with a low temperature below zero(0F), which compares to an average of 11. Bangor recorded an average temperature of 22.9 degrees, which was 2.1 degrees above normal. In Bangor, had only one night throughout the month with a low below zero(0F)

Streamflows across the region were near normal for February with the exception of the Narraguagus River at Cherryfield in Washington County, as its streamflows were normal. Ice did expand more on the

ivers, as far south as the Bangor region. Ice jams remained in place on the Aroostook River in the Fort Fairfield area. A smaller ice jam remained in place near the Grand Isle area on St. John River. Ice thicknesses during the month ranged from 5 to 14 inches with the thickest ice along the Piscataquis and Penobscot Rivers. Ice thicknesses on the northern rivers ranged from 7 to 13 inches, with the thickest ice along the St. John and Aroostook Rivers, including the Little Madawaska River.

Wells across the region were in the normal range, including Amherst, which showed an improvement from January when it showed below normal levels. The exception was Fort Kent, which showed above normal readings.

In regards to Drought monitoring, the region stayed in the normal range for the most part for February. The caveat to this was Hancock County coast, which continued with **Abnormally Dry** conditions.

Precipitation Totals for Select Locations with all units in inches

Location	Total Precip	Normal Precipitation	Departure from Normal	Snowfall	Normal Snowfall	Departure from Normal Snowfall	Greatest Snow Depth
Frenchville	0.90	0.81	+0.09	NA	NA	NA	NA
Caribou	2.88	2.18	+0.67	38.0	22.0	+15.8	23
Houlton	2.11	2.00	+0.11	NA	NA	NA	NA
*Millinocket	2.82	2.18	+0.64	NA	NA	NA	NA
Bangor	1.99	2.52	-0.53	17.5	14.7	+2.8	12

*Millinocket snowfall measured at wastewater treatment plant, not the ASOS site. Data might not be available every month.

February Stream Flows for Selected Rivers

River	Normal Flow (cfs)	Monthly Mean Flow (cfs)	Monthly Mean (in)	Percentile Class	Drainage (mi ²)	Years of Record
St. John River at Ninemile Bridge	NA	NA	NA	NA	1341	70
St. John River at Fort Kent	1540 - 3310	2450	0.43	Below Normal	5929	94
Aroostook River at Washburn	NA	NA	NA	NA	1654	90
Narraguagus River at Cherryfield	263 - 638	220	1.01	Normal	227	72
E Br Penobscot River at Grindstone	NA	NA	NA	NA	837	118
Mattawamkeag nr Mattawamkeag	587 - 1980	614	0.45	Normal	1418	86
Piscataquis River nr Dover-Foxcroft	141 - 340	147	0.51	Normal	298	118

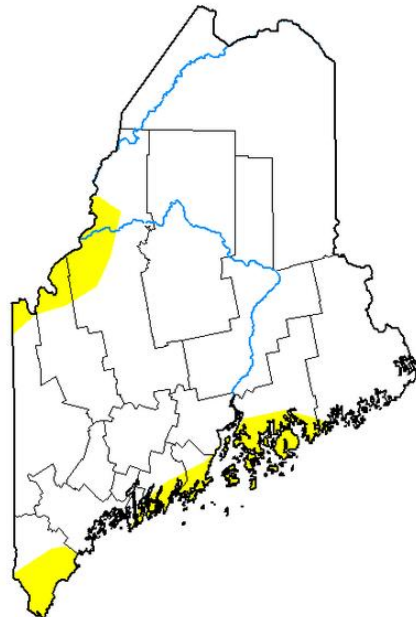
Groundwater Levels

Station	Normal Range (ft)	Mean Water Level Below Land-sfc Datum (ft)	Departure from Month-end Median (ft)	Percentile Class	Years of Record
Amherst	20.10 – 18.60	22.05	2.75	Much Below Normal	30
Crooked Road	NA	NA	NA	NA	15
Hadley Lakes	5.13 – 4.42	5.01	0.23	Normal	35
Kenduskeag	22.20 – 20.80	21.67	0.17	Normal	42
Calais	3.10 – 1.12	2.35	0.38	Normal	21
Millinocket	10.40 – 9.36	9.42	-0.35	Normal	27
Clayton Lake	15.20 – 14.40	15.03	0.32	Normal	42
Fort Kent	11.50 – 9.35	8.84	-1.76	Above Normal	43

Flow or Water Level	Percentile Range	Explanation
Record Low	0 th	The monthly mean streamflow or median water level during this month is the lowest ever recorded during the period of record for this site.
Very Low	0 th to 10 th	The monthly mean streamflow or median water level during this month is less than the 10 th percentile when compared to all of the months during the period of record for this site.
Low	10 th to 25 th	The monthly mean streamflow or median water level during this month is between the 10 th and 25 th percentiles when compared to all of the months during the period of record for this site.
Normal	25 th to 75 th	The monthly mean streamflow or median water level during this month is between the 25 th and 75 th percentiles when compared to all of the months during the period of record for this site.
High	75 th to 90 th	The monthly mean streamflow or median water level during this month is between the 75 th and 90 th percentiles when compared to all of the months during the period of record for this site.
Very High	90 th to 100 th	The monthly mean streamflow or median water level during this month is greater than the 90 th percentile when compared to all of the months during the period of record for this site.
Record High	100 th	The monthly mean streamflow or median water level during this month is the highest ever recorded during the period of record for this site.

Drought Conditions for February 2021

U.S. Drought Monitor Maine



February 2, 2021

(Released Thursday, Feb. 4, 2021)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	91.68	8.32	0.00	0.00	0.00	0.00
Last Week 01-26-2021	91.68	8.32	0.00	0.00	0.00	0.00
3 Months Ago 11-03-2020	0.00	100.00	60.42	10.81	1.55	0.00
Start of Calendar Year 12-29-2020	91.54	8.46	0.00	0.00	0.00	0.00
Start of Water Year 09-29-2020	0.00	100.00	100.00	83.86	7.28	0.00
One Year Ago 02-04-2020	100.00	0.00	0.00	0.00	0.00	0.00

Intensity

- None
- D0 Abnormally Dry
- D1 Moderate Drought
- D2 Severe Drought
- D3 Extreme Drought
- D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to <https://droughtmonitor.unl.edu/About.aspx>

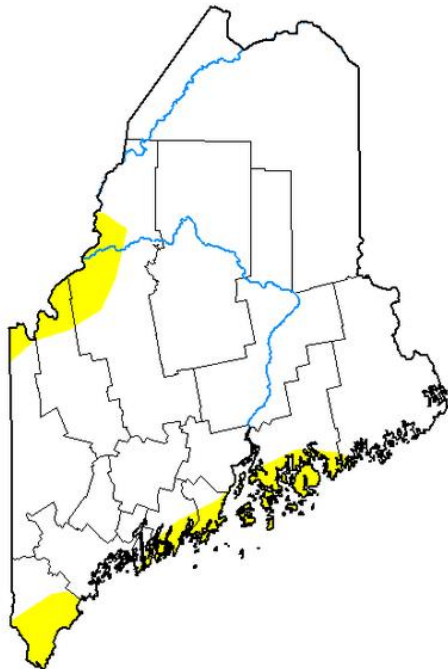
Author:

Brad Rippey
U.S. Department of Agriculture



droughtmonitor.unl.edu

U.S. Drought Monitor
Maine



February 23, 2021
(Released Thursday, Feb. 25, 2021)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	92.00	8.00	0.00	0.00	0.00	0.00
Last Week 02-16-2021	92.00	8.00	0.00	0.00	0.00	0.00
3 Months Ago 11-24-2020	18.53	81.47	60.42	10.81	1.55	0.00
Start of Calendar Year 12-29-2020	91.54	8.46	0.00	0.00	0.00	0.00
Start of Water Year 09-29-2020	0.00	100.00	100.00	83.86	7.28	0.00
One Year Ago 02-25-2020	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

- None
- D0 Abnormally Dry
- D1 Moderate Drought
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