

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
MONTHLY REPORT OF HYDROLOGIC CONDITIONS	REPORT FOR: MONTH YEAR April 2021	
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283	SIGNATURE Joseph Hewitt, HPM DATE May 21st, 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.

April 2021

A Flood Watch remained in place for northern and central Maine for ice jam and small stream flooding. A Flood Advisory was issued for an ice jam that was in place south of the Fort Fairfield bridge to the International Border. Some lowland flooding was occurring. The Advisory was upgraded a Flood Warning as the Aroostook River had overflowed its banks in Fort Fairfield with the Russel Road and Riverside Ave being closed to traffic due to flooding. Further north, an ice jam remained in place on the Saint John River, just south of Grand Isle to the town of Lille. On April 2nd, the Flood Watch was cancelled for the central and eastern areas, but remained in place for NE and NW Aroostook County due to ice jams. The Flood Watch was cancelled as the ice jams broke up and moved downstream. The Flood Warning for ice jam flooding in Fort Fairfield was cancelled on April 4th, as the ice jam on the Aroostook River broke up and flushed out.

Precipitation for the month of April was below normal for much of the region, with the exception for Caribou and Bangor, as these sites reported above normal precipitation. Caribou recorded 3.50 inches which was 0.84 inches above normal. Bangor recorded 3.63 inches of precipitation, which was 0.01 inches above normal. Houlton came in with 2.77 inches of precipitation, which was 1.11 inches below normal. Millinocket recorded 3.45 inches of precipitation, which was 0.11 inches below normal. The most significant precipitation event came on the 29th and the 30th, which brought 1 to 1.25 inches of rain to the region, with the heaviest rainfall being recorded across coastal Hancock and Washington Counties. This was much needed rainfall for the region after an early ice out and snowmelt season.

Snowfall was above normal across Northern Maine including portions of the Maine Central Highlands, such as the Moosehead Lake and Greenville areas. Further south, snowfall was below normal. Caribou measured 8.9 inches of snow for the month of April. This was 1.5 inches above normal. In Bangor, only 0.8 inch was observed for the whole month April. This was 2.9 inches below normal for April. There were two notable snowfall events that occurred in April. The first event came late in the day on the 4 and 5, which brought 2 to 6 inches of wet snow to Northern Maine and including the Baxter State Park region. The second event came on the 21st and 22nd with 2 to 10 inches of wet snow across Northern Maine and the Maine Central Highlands, with the highest totals across Northwest Maine. Snowpack was well below normal, especially for the first half of the month with most of the snowpack melting away by the end of March. This had led to an early break up of the river ice.

April came in with 3 to 5 degrees above normal across the region. There were some Climate sites finished within the top 5 warmest Aprils on record. Houlton had its 2nd warmest April on record. Caribou and Millinocket recorded their 3rd warmest April with Bangor recording their 5th warmest April on record. The month of April opened up on the chilly side for the first 4 days, but temperatures quickly rebounded to well above normal for about a week and a half, and then temperatures leveled off near normal for the remainder of the month. During the warm spell, some record high temperatures were set. Millinocket recorded record high temperatures on the 8th and 9th with 64 and 65 degrees respectively. Caribou had 4 days during April with record high temperatures. Caribou set record high temperatures on 7th, 8th, 9th and 15th with 61, 64, 64, and 65 degrees respectively. Bangor recorded record high temperatures on the 9th, 10th, and the 11th, of 71, 73 and 73 degrees respectively.

Streamflows across the region dropped back to near normal across the northern Maine basins, while the Piscataquis, Penobscot and St. Croix River basins were well below normal due to the early snowmelt and drier air that helped to evaporate the moisture that was in the ground.

Groundwater levels were variable across the region during the month of April with well across northern areas being above normal at Fort Kent to below normal at Clayton Lake. Wells across the Maine Central Highlands into portions eastern Maine were near normal. From the Bangor region to the Downeast coast, ground water levels were below normal.

In regards to Drought monitoring, the region remained in the normal range for the most part for the middle part of April. By late April, the **Abnormally Dry** area was expanded to include the central and western areas of **Piscataquis, Penobscot and Hancock Counties**.

April 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	1.76	2.81	-1.05	NA	NA	NA	NA
Caribou	3.50	2.66	+0.84	8.9	7.4	+1.5	4
Houlton	2.77	3.88	-1.11	NA	NA	NA	NA
*Millinocket	3.45	3.56	-0.11	NA	NA	NA	NA
Bangor	3.63	3.62	+0.01	0.8	3.7	-2.9	T

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

April 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	18800 - 35700	28800	5.42	Normal	5929	94

Aroostook River at Washburn	NA	NA	NA	NA	1654	90
Narraguagus River at Cherryfield	936 – 1500	779	3.83	Much Below Normal	227	73
E Br Penobscot River at Grindstone	NA	NA	NA	NA	837	118
Mattawamkeag nr Mattawamkeag	7040 – 10600	6340	3.83	Below Normal	1418	86
Piscataquis River nr Dover-Foxcroft	1640 – 2550	902	3.38	Much Below 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	17.90 – 16.40	18.96	1.86	Much Below Normal	31
Crooked Road	NA	NA	NA	NA	NA
Hadley Lakes	4.18 – 3.45	4.15	0.46	Normal	35
Kenduskeag	19.00 – 17.80	19.46	1.16	Below Normal	43
Calais	0.66 – -0.20	0.01	-0.33	Normal	21
Millinocket	9.35 – 7.43	8.70	0.22	Normal	27
Clayton Lake	12.50 – 10.40	12.56	0.96	Below Normal	42
Fort Kent	10.50 – 6.64	5.16	-3.36	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.

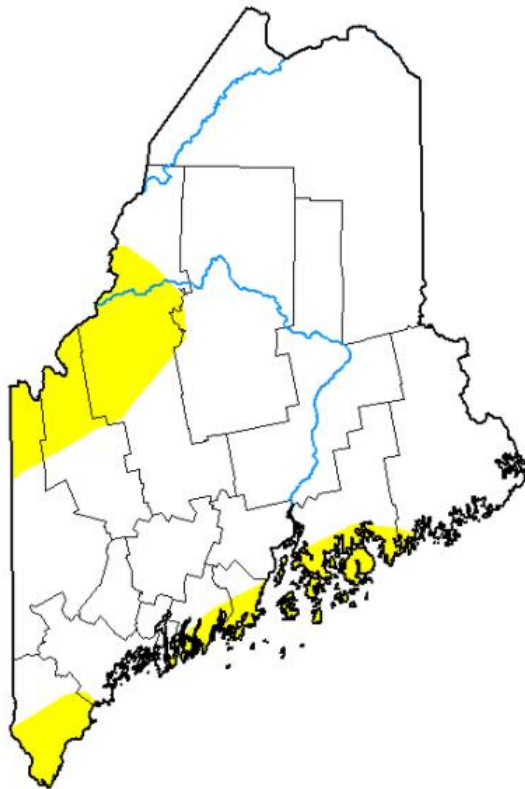
**Non-Routine Hydrologic Products
April 2021
WFO Caribou, ME**

WMO Identifier	Date	Issuance	Name of Product
FFACAR	04/01	0849Z	Flood Watch Continued for Northern and Central Maine.
FFACAR	04/01	1843Z	Extension of Flood Watch with Portions of Central Maine Cancelled
FFACAR	04/02	1745Z	Flood Watch Continued for NW and NE Aroostook. N-Central Aroostook and Penobscot Cancelled
FFACAR	04/03	1916Z	Flood Watch Extended for NW and NE Aroostook County
FFACAR	04/04	2133Z	Flood Watch Cancelled
FLSCAR	04/01	1339Z	Flood Advisory for Ice Jam in Caribou-Fort Fairfield
FLSCAR	04/02	2326Z	Flood Advisory for Ice Jam in Fort Fairfield
FLSCSAR	04/02	1452Z	Cancellation of Flood Advisory for Ice Jam in Fort Fairfield.
FLWCAR	04/02	1527Z	Flood Warning for Ice Jam in Fort Fairfield
FLSCAR	04/02	1958Z	Continuation of Flood Warning for Ice Jam in Fort Fairfield
FLWCAR	04/03	0003Z	Extension of FLWCAR in Fort Fairfield
FLWCAR	04/03	1446Z	Extension of Flood Warning in Fort Fairfield
FLWCAR	04/03	2045Z	Extension of Flood Warning in Fort Fairfield
FLWCAR	04/04	1542Z	Extension of Flood Warning in Fort Fairfield
FLSCAR	04/04	2133Z	Cancellation of Flood Warning

Drought Conditions for April 2021

U.S. Drought Monitor Maine

April 6, 2021
(Released Thursday, Apr. 8, 2021)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	86.33	13.67	0.00	0.00	0.00	0.00
Last Week 03-30-2021	86.32	13.68	0.00	0.00	0.00	0.00
3 Months Ago 01-05-2021	91.54	8.46	0.00	0.00	0.00	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 04-07-2020	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:

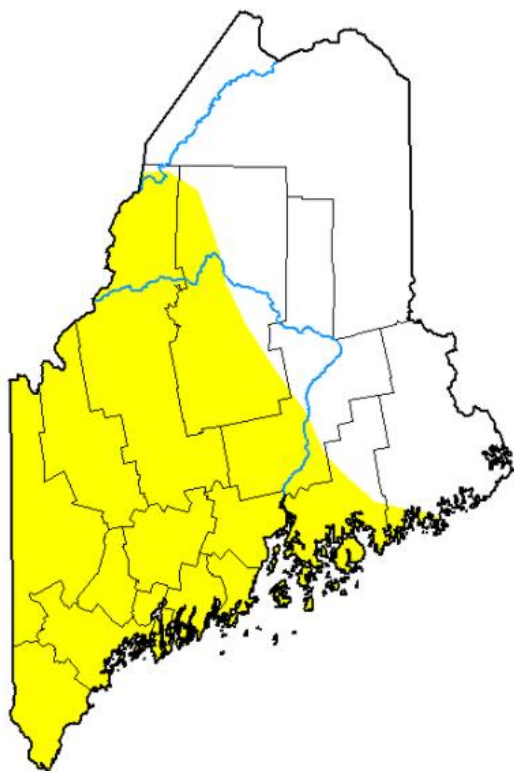
Deborah Bathke
National Drought Mitigation Center



droughtmonitor.unl.edu

U.S. Drought Monitor
Maine

April 27, 2021
(Released Thursday, Apr. 29, 2021)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	44.34	55.66	0.00	0.00	0.00	0.00
Last Week <i>04-20-2021</i>	44.34	55.66	0.00	0.00	0.00	0.00
3 Months Ago <i>01-26-2021</i>	91.68	8.32	0.00	0.00	0.00	0.00
Start of Calendar Year <i>12-29-2020</i>	91.54	8.46	0.00	0.00	0.00	0.00
Start of Water Year <i>09-29-2020</i>	0.00	100.00	100.00	83.86	7.28	0.00
One Year Ago <i>04-28-2020</i>	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>

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