

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 March 2018
		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 May 4, 2018

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.

March 2018

March 2018 finished with average temperatures above normal. Temperatures across the region ranged from 1 to 4 degrees above average. Caribou came in with the 11th warmest March on record. The first half of the month was above normal and then the second half of March brought below normal temperatures. On the 27th, Bangor had a low temperature of 9 degrees, which tied the record low temperature set back in 1990.

In regards to precipitation, precipitation was below average just about the entire HSA with the exception of Northeastern Aroostook County as precipitation was slightly above normal. Groundwater conditions were above normal across the Downeast region while the Central Highlands into Northern Maine had near normal readings.

A few big snow events brought more snowfall to the region mainly during the first two weeks of the month. Caribou recorded 26.1 inches of snow for the month. This was 7.8 inches above normal for March. Bangor came in with 33.0 inches for the month which was 11.7 inches above normal for the month. Snow depths by the end of the month ranged from 30-36 across the northern and northwest Maine with 18-30 inches from the Central Highlands to the Penobscot River Valley. The Downeast region carried a snow depth of 12 to 14 inches mainly away from the immediate coast.

Snow and ice coverage was around 90% across the northern Maine rivers and streams, while the Piscataquis River around 70% ice covered with open water from Guilford to Dover-Foxcroft. The south branch of the Penobscot River from Bangor to Penobscot Bay was open as the ice had flushed out there. Ice thickness across the St. John, Allagash and Aroostook River basins ranged from 18 to 24 inches. Ice thickness on the Piscataquis River and the northern branch of the Penobscot River near Grindstone was 10-18 inches respectively. The Pleasant River which drains into the Piscataquis was 90% ice covered but the ice appeared to be thinning. There was a small jam in place on the Pleasant River near Milo but open water around the jam.

There was no flooding for the month of March.

Precipitation Totals for Select Locations

All units inches

Location	Total Precip	Normal Precipitation	Departure from Normal	Snowfall	Normal Snowfall	Departure from Normal Snowfall	Greatest Snow Depth
Frenchville	0.95	1.48	- 0.53	NA	NA	NA	NA
Caribou	2.70	2.51	+ 0.19	26.1	18.3	7.8	35
Houlton	1.99	2.59	- 0.60	NA	NA	NA	NA
*Millinocket	1.72	3.06	- 1.34	NA	NA	NA	NA
Bangor	2.18	3.38	- 1.20	33.0	11.7	21.3	30

*Millinocket snowfall measured at wastewater treatment plant, not the ASOS site. Data was not available at this time.

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	67
St. John River at Fort Kent	1630 –4800	3950	0.77	Normal	5665	91
Aroostook River at Washburn	NA	NA	NA	NA	1654	87
Narraguagus River at Cherryfield	478- 994	523	2.66	Normal	227	69
E Br Penobscot River at Grindstone	NA	NA	NA	NA	837	115
Mattawamkeag nr Mattawamkeag	985-3000	2060	1.67	Normal	1418	83
Piscataquis River nr Dover-Foxcroft	265–777	449	174	Normal	298	115

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
McFarland Hill	7.00 – 0.22	5.50	3.17	Normal	13
Crooked Road	5.64 –4.87	5.03	-0.28	Normal	13
Hadley Lakes	4.92 – 4.15	4.22	-0.37	Normal	30
Kenduskeag	22.50 – 19.40	19.13	-1.78	Above Normal	37
Calais	1.64 –0.68	0.53	-0.69	Above Normal	16
Millinocket	10.50 – 9.46	9.83	-0.11	Normal	22

Clayton Lake	15.30 – 13.60	14.04	-0.06	Normal	37
Fort Kent	12.70 – 10.00	10.40	-0.70	Normal	38

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
March 2017
WFO Caribou, ME**

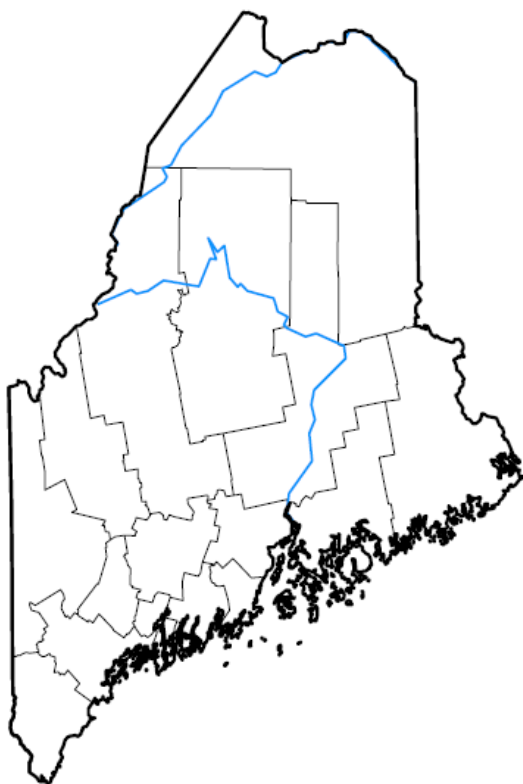
PIL	TIME (UTC)	Date	Description

**Significant River Crests
March 2017
WFO Caribou, ME**

Location	ID	Date	Time (UTC)	Crest Stage (ft)	Flood Stage (ft)

U.S. Drought Monitor Maine

March 6, 2018
(Released Thursday, Mar. 8, 2018)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.00	0.00	0.00	0.00	0.00	0.00
Last Week <i>02-27-2018</i>	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago <i>12-05-2017</i>	92.38	7.62	0.00	0.00	0.00	0.00
Start of Calendar Year <i>01-02-2018</i>	92.38	7.62	0.00	0.00	0.00	0.00
Start of Water Year <i>09-26-2017</i>	57.81	42.19	24.62	0.00	0.00	0.00
One Year Ago <i>03-07-2017</i>	52.52	47.48	2.84	0.57	0.00	0.00

Intensity:

- 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. See accompanying text summary for forecast statements.

Author:

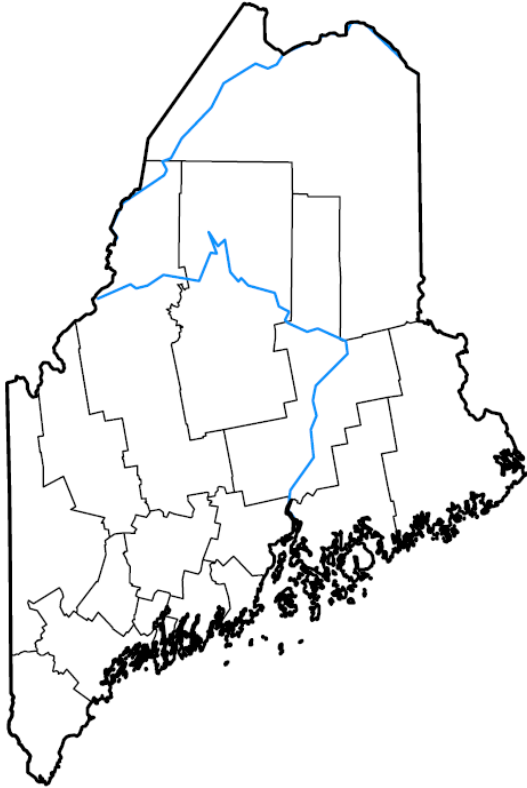
Richard Tinker
CPC/NOAA/NWS/NCEP



<http://droughtmonitor.unl.edu/>

U.S. Drought Monitor
Maine

March 27, 2018
(Released Thursday, Mar. 29, 2018)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	100.00	0.00	0.00	0.00	0.00	0.00
Last Week <i>03-20-2018</i>	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago <i>12-26-2017</i>	92.38	7.62	0.00	0.00	0.00	0.00
Start of Calendar Year <i>01-02-2018</i>	92.38	7.62	0.00	0.00	0.00	0.00
Start of Water Year <i>09-26-2017</i>	57.81	42.19	24.62	0.00	0.00	0.00
One Year Ago <i>03-28-2017</i>	72.14	27.86	0.88	0.00	0.00	0.00

Intensity:

- 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. See accompanying text summary for forecast statements.

Author:

Chris Fenimore
NCEI/NESDIS/NOAA



<http://droughtmonitor.unl.edu/>