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 **February** YEAR **2018**
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 **March 31, 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).

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

February 2018

February 2018 finished with average temperatures above normal. Temperatures across the region ranged from 3.5 to 5.5 degrees above average the month of February. Caribou came in with the 7th warmest February on record and Bangor recorded the 10th warmest February on record. Caribou set a record high temperature of 51 degrees on the 22nd. This broke the previous record of 50 degrees set back in 1994.

In regards to precipitation, precipitation was near average across the entire HSA with the exception of Aroostook County as precipitation was slightly below normal. Groundwater conditions were above normal for the month with the exception of Aroostook County as ground water conditions were near normal. Some sites across the Downeast region such as Hancock County and Washington County saw record high readings for February.

A series of storms brought more snowfall to the region mainly during the first two weeks of the month. Caribou recorded 25.3 inches of snow for the month. This was 3.1 inches above normal for February. Bangor came in with 18.2 inches for the month which was 3.5 inches above normal for the month. Snow depths by the end of the month ranged from 12 to18 inches across the Central Highlands and the Penobscot River Valley while in the southern portion of Penobscot County was down around 10 inches. Snow depths of 27 to 35 inches for Northern Maine including the Allagash region. The Downeast coastal region had a snow depth of 2 to 6 inches mainly away from the immediate coast.

Snow and ice coverage ranged from 90 to 95% across the northern Maine rivers and streams, while the southern portion of the HAS saw ice thicknesses average from 8 to 14 inches across the Piscataquis and Penobscot River basins to 20 to 24 inches for the Aroostook and St. John bains. Ice jams still remained on the Kenduskeag Stream in Bangor and on the Penobscot River near Eddington. A few other smaller ice jams were in place on the Piscataquis River near Blanchard and on the Pleasant River in Milo in Piscataquis County. The Pleasant River which drains into the Piscataquis was completely iced over. There was open water on the southern rivers and streams, including the Penobscot, Piscataquis and Kingsbury Stream. Stream flows across the region were above normal for the month. There was no flooding for the month of February.

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	0.75	0.81	-0.06	NA	NA	NA	NA
Caribou	2.20	2.21	-0.01	25.3	22.2	3.1	36
Houlton	2.38	2.00	+0.38	NA	NA	NA	NA
*Millinocket	2.17	2.18	-0.01	NA	NA	NA	NA
Bangor	2.99	3.48	+0.47	18.2	14.7	3.5	12

*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	1500 –3190	4030	0.71	High	5665	91
Aroostook River at Washburn	NA	NA	NA	NA	1654	87
Narraguagus River at Cherryfield	258- 635	848	3.89	High	227	69
E Br Penobscot River at Grindstone	NA	NA	NA	NA	837	115
Mattawamkeag nr Mattawamkeag	579-1960	2370	1.74	High	1418	83
Piscataquis River nr Dover-Foxcroft	141–332	388	1.36	High	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	11.60 – 3.19	-0.46	-6.50	Record High	13
Crooked Road	6.01 – 5.34	4.95	-0.70	High	13
Hadley Lakes	5.17 – 4.49	3.75	-1.00	Record High	30
Kenduskeag	22.30 – 20.80	19.71	-1.79	Very High	37
Calais	3.44 –1.34	0.34	-2.00	Very High	16
Millinocket	10.40 – 9.26	9.53	0.30	Normal	22
Clayton Lake	15.20 – 14.50	14.20	-0.50	High	37

Fort Kent	11.80 – 9.44	9.81	-0.89	Normal	38

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

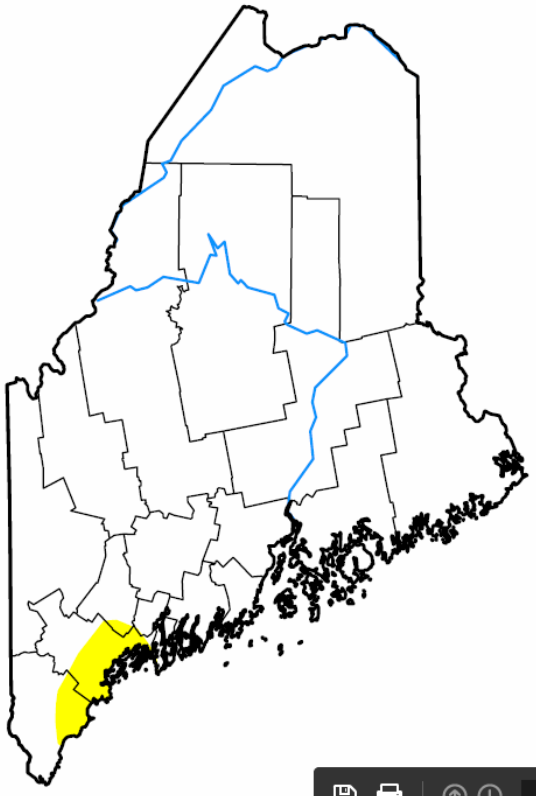
Non-Routine Hydrologic Products
December 2017
WFO Caribou, ME

PIL	TIME (UTC)	Date	Description

Significant River Crests
December 2017
WFO Caribou, ME

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

U.S. Drought Monitor
Maine



February 6, 2018
(Released Thursday, Feb. 8, 2018)
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	97.65	2.35	0.00	0.00	0.00	0.00
Last Week *01-30-2018*	92.38	7.62	0.00	0.00	0.00	0.00
3 Months Ago *11-07-2017*	75.21	24.79	0.00	0.00	0.00	0.00
Start of Calendar Year *01-02-2018*	92.38	7.62	0.00	0.00	0.00	0.00
Start of Water Year *09-26-2017*	57.81	42.19	24.62	0.00	0.00	0.00
One Year Ago *02-07-2017*	28.13	71.87	38.02	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:
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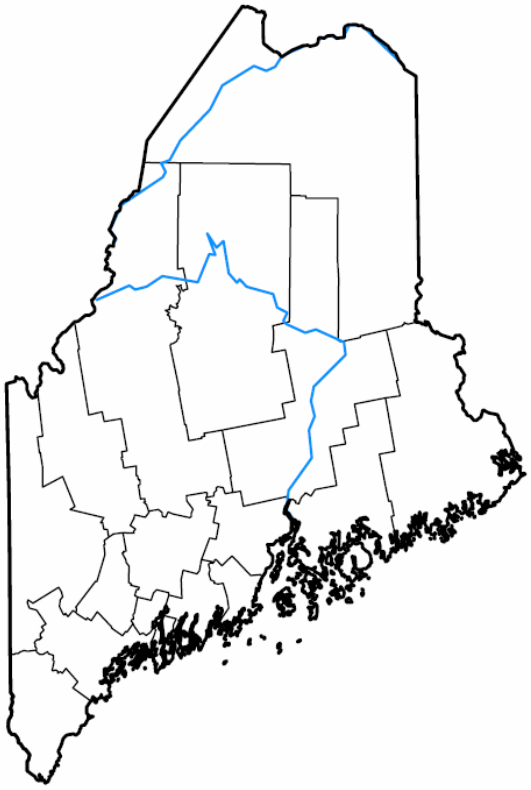
U.S. Department of Agriculture

http://droughtmonitor.unl.edu/

U.S. Drought Monitor
Maine



February 27, 2018

(Released Thursday, Mar. 1, 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 *02-20-2018*	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago *11-28-2017*	92.38	7.62	0.00	0.00	0.00	0.00
Start of Calendar Year *01-02-2018*	92.38	7.62	0.00	0.00	0.00	0.00
Start of Water Year *09-26-2017*	57.81	42.19	24.62	0.00	0.00	0.00
One Year Ago *02-28-2017*	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.

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