

WFO Caribou, Maine

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
November 2017

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
December 22, 2017

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.

November 2017

November 2017 finished with average temperatures running below normal. Temperatures across the region averaged from 0.5 to 2 degrees below average for the month of November. This is a sharp contrast to October which was the warmest October on record for Caribou, Bangor, Houlton and Millinocket.

In regards to precipitation, precipitation varied from above normal across far northern areas while central and downeast areas were below normal. Caribou recorded 3.67 inches for November which was 0.04 inches above normal for the month. Bangor recorded 3.05 inches which was 1.15 inches below normal. The precipitation was a benefit to help alleviate the abnormally dry conditions. Some areas however, down across southern Hancock and Washington County were still quite dry but did show improvement.

As far as snowfall goes, 3.9 inches of snow was recorded at Caribou which was 6.6 inches below normal. Bangor recorded a trace of snow for the month which was 2.3 inches below normal.

No flooding was reported during the month of November.

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	3.19	2.94	+0.25	NA	NA	NA	NA
Caribou	3.67	3.63	+0.04	3.9	10.5	-6.6	3
Houlton	3.90	4.01	-0.11	NA	NA	NA	NA
Millinocket	2.32	4.43	-2.11	NA	NA	NA	NA
Bangor	3.05	4.20	-1.15	T	2.3	-2.3	T

*Millinocket snowfall measured at wastewater treatment plant, not the ASOS site

Stream Flows for Selected Rivers

River	Normal Flow (cfs)	Monthly Mean Flow (cfs)	Monthly Mean Precip (in)	Percentile Class	Drainage (mi ²)	Years of Record
St. John River at Ninemile Bridge	1560 - 3080	3740	3.11	High	1341	67
St. John River at Fort Kent	5300 - 12000	13800	2.60	High	5665	91
Aroostook River at Washburn	1350 - 3680	3450	2.33	Normal	1654	87
Narraguagus River at Cherryfield	348 - 864	293	1.44	Low	227	69
E Br Penobscot River at Grindstone	866 - 2350	2910	3.88	High	837	115
Mattawamkeag nr Mattawamkeag	1540 - 4210	3800	2.99	Normal	1418	83
Piscataquis River nr Dover-Foxcroft	324 - 998	501	1.88	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	8.27 - 0.43	16.16	12.86	Low	13
Crooked Road	5.09 - 4.81	5.67	0.70	Low	13
Hadley Lakes	5.98 - 4.50	6.02	0.98	Low	30
Kenduskeag	25.50 - 21.20	23.78	0.58	Normal	37
Calais	1.61 - 0.56	0.95	-0.14	Normal	16
Millinocket	10.80 - 9.23	10.43	0.33	Normal	22
Clayton Lake	15.10 - 14.00	13.85	-0.85	High	37
Fort Kent	11.60 - 9.29	9.50	-0.90	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
October 2017
WFO Caribou, ME**

PIL	TIME (UTC)	Date	Description

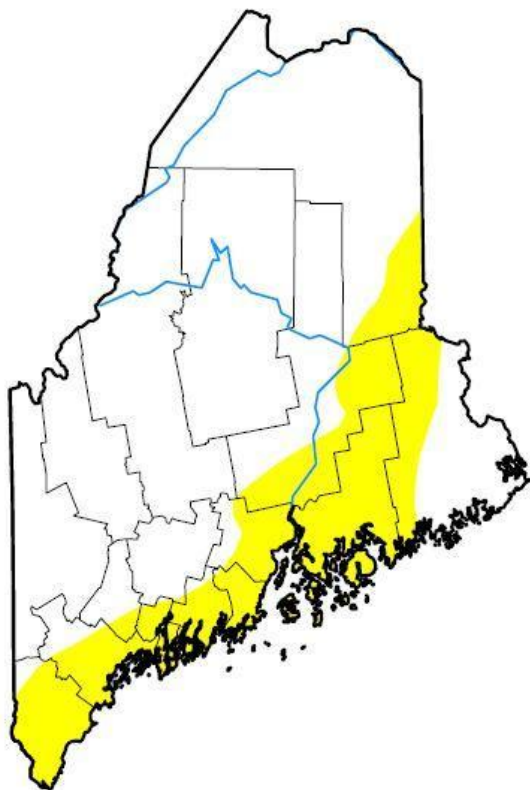
**Significant River Crests
October 2017
WFO Caribou, ME**

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

Drought Monitor for November 7, 2017

U.S. Drought Monitor
Maine

November 7, 2017
(Released Thursday, Nov. 9, 2017)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	75.21	24.79	0.00	0.00	0.00	0.00
Last Week <i>10-31-2017</i>	75.21	24.79	0.00	0.00	0.00	0.00
3 Months Ago <i>08-08-2017</i>	42.20	57.80	16.60	0.00	0.00	0.00
Start of Calendar Year <i>01-03-2017</i>	23.74	76.26	82.91	0.57	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>11-08-2016</i>	12.43	87.57	89.99	13.45	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:

David Miskus
NOAA/NWS/NCEP/CPC

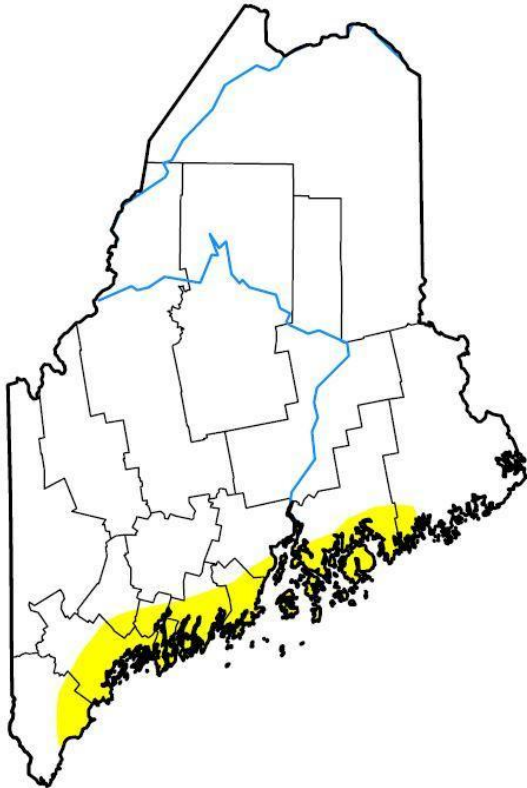


<http://droughtmonitor.unl.edu/>

Drought Monitor for November 28, 2017

U.S. Drought Monitor Maine

November 28, 2017
(Released Thursday, Nov. 30, 2017)
Valid 7 a.m. EST



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	92.38	7.62	0.00	0.00	0.00	0.00
Last Week 11-21-2017	75.21	24.79	0.00	0.00	0.00	0.00
3 Months Ago 08-29-2017	35.65	64.35	28.88	0.00	0.00	0.00
Start of Calendar Year 01-03-2017	23.74	76.26	62.91	0.57	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 11-29-2016	13.96	86.04	72.36	39.08	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:

David Simeral
Western Regional Climate Center



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