

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 October 2017
		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 November 12, 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.

October 2017

The first three weeks of October were very dry and unseasonably warm across the Caribou HSA. The month of October came in as the warmest October on record with the region as a whole averaging 7 to 8.5 degrees above normal. This dry weather came to end by the last week in October with a couple of storms affecting the region. The first storm brought anywhere from 3.50 to 7 inches of rainfall to the Caribou HSA on the 25th and 26th. Heaviest rainfall was recorded in Washington County. This rainfall was over a two day period. This round of rainfall brought river and stream flows from record low flows to near record high flows in just 48 hours. Another storm brought rain and very strong winds on the 29th and 30th. Rainfall totals from this event averaged in the 1 to 2 inch range with the highest rainfall totals being recorded in the Piscataquis River basin helping to keep river and stream flows up. No flooding was reported during the month of October.

Drought conditions did improve with the much needed rainfall allowing D0-D4 conditions to shrink dramatically from the first week of October.

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	6.79	2.54	+4.25				
Caribou	6.23	3.53	+2.70				
Houlton	5.69	3.66	+2.03				
Millinocket	7.20	4.07	+3.13				
Bangor	5.59	4.17	+1.42				

*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	997 – 2840	3320	2.85	High	1341	67
St. John River at Fort Kent	3250 – 9180	6500	1.26	Normal	5665	91
Aroostook River at Washburn	669 – 2310	2600	1.81	High	1654	87
Narraguagus River at Cherryfield	138 – 418	134	0.68	Low	227	69
E Br Penobscot River at Grindstone	650 – 1880	1850	2.55	Normal	837	115
Mattawamkeag nr Mattawamkeag	515 – 2230	1430	1.16	Normal	1418	83
Piscataquis River nr Dover-Foxcroft	109 – 600	413	1.60	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	27.70 – 9.91	29.69	11.49	Low	13
Crooked Road	6.55 – 4.90	7.62	1.44	Record Low	13
Hadley Lakes	6.59 – 522	6.72	0.72	Low	30
Kenduskeag	25.80 – 22.90	24.98	0.28	Normal	37
Calais	3.72 – 1.46	4.00	1.72	Low	16
Millinocket	11.10 – 9.71	11.11	0.71	Low	22
Clayton Lake	15.70 – 14.50	16.24	1.14	Low	37
Fort Kent	12.10 – 9.41	11.23	0.33	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

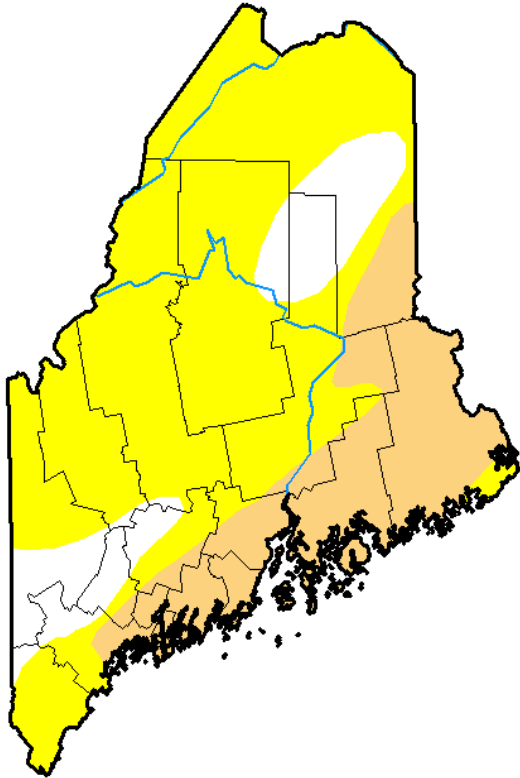
**Significant River Crests
October 2017
WFO Caribou, ME**

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

Drought Monitor for October 10, 2017

U.S. Drought Monitor Maine

October 10, 2017
(Released Thursday, Oct. 12, 2017)
Valid 8 a.m. EDT



Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	12.94	87.06	24.62	0.00	0.00	0.00
Last Week 10-03-2017	12.94	87.06	24.62	0.00	0.00	0.00
3 Months Ago 07-11-2017	96.45	3.55	0.00	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 10-11-2016	5.14	94.86	40.81	26.75	8.35	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:

Anthony Artusa
NOAA/NWS/NCEP/CPC

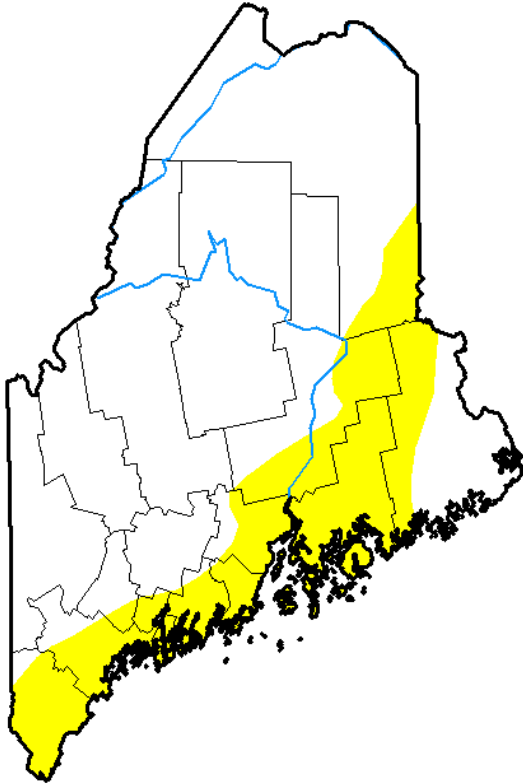


<http://droughtmonitor.unl.edu/>

Drought Monitor for October 31, 2017

U.S. Drought Monitor
Maine

October 31, 2017
 (Released Thursday, Nov. 2, 2017)
 Valid 8 a.m. EDT



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 10-24-2017	3.44	96.56	38.19	0.00	0.00	0.00
3 Months Ago 09-01-2017	43.36	56.64	9.82	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 11-01-2016	14.14	85.86	69.99	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.

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