

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  
**August            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  
**September 30, 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.

**August 2018**

No Flooding occurred during the month of August.

The biggest story for the month was that the Meteorological Summer of 2018(June-August) was the warmest on record. The Summer of 2018 had an average temperature of 66.3 degrees, which eclipsed the previous record of 66.0 degrees set during the Summer of 1973. August 2018 was the all-time warmest on record at Caribou with an average temperature of 68.9 degrees. This was 5.3 degrees above average(1981-2010 averages). It broke the previous record warm August in 2015, when the average temperature was 68.2 degrees. Temperatures across the region for the month of August ranged from 3 to 7degrees above normal. Caribou had a total of 18 days in the month of August with a high temperature of 80 degrees or warmer. Bangor had a monthly average temperature of 71.3 degrees. This was 4.3 degrees above normal. Bangor recorded their warmest temperature for the month back on August 7<sup>th</sup> with 95 degrees.

In regards to precipitation, rainfall for the most part was below normal for the month of August with the exception for Millinocket, which recorded 4.03 inches of rainfall. This was 0.09 inches above normal for August. Caribou recorded 3.87 inches of rainfall, which was 0.11 inches above normal for the month of August. The St. John Valley and the Allagash region recorded very low rainfall for the month of August. Frenchville recorded 1.92 inches of rainfall, which was 1.09 inches below normal for the month.

Overall, ground water conditions were near normal with the exception for NW Maine and a few sites across the Maine Central Highlands, as surface water conditions were below normal.

Streamflows continued improved to near normal across a good portion of the region. The exception to this was along the East Branch of the Penobscot River at Grindstone with streamflows much below normal.

As far as conditions approaching near Drought conditions, the USDM raised the category across the Hancock County coast to Moderate Drought(D1). Northern Maine remained in the Abnormally Dry category (D0).

**Precipitation Totals for Select Locations with all units in inches**

<b>Location</b>	<b>Total Precip</b>	<b>Normal Precipitation</b>	<b>Departure from Normal</b>	<b>Snowfall</b>	<b>Normal Snowfall</b>	<b>Departure from Normal Snowfall</b>	<b>Greatest Snow Depth</b>
Frenchville	1.92	3.01	-1.09	NA	NA	NA	NA
Caribou	3.87	3.76	+0.11	0.0	0.0	0.0	0
Houlton	2.73	2.98	- 0.25	NA	NA	NA	NA
*Millinocket	2.93	3.68	-0.75	NA	NA	NA	NA
Bangor	4.03	3.94	+0.09	0.0	0.0	0.0	0

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

**Stream Flows for Selected Rivers**

<b>River</b>	<b>Normal Flow (cfs)</b>	<b>Monthly Mean Flow (cfs)</b>	<b>Monthly Mean (in)</b>	<b>Percentile Class</b>	<b>Drainage (mi<sup>2</sup>)</b>	<b>Years of Record</b>
St. John River at Ninemile Bridge	406 - 2030	495	0.43	Normal	1341	67
St. John River at Fort Kent	2250 - 5940	2360	0.46	Normal	5929	91
Aroostook River at Washburn	433 - 1240	533	0.37	Normal	1654	87
Narraguagus River at Cherryfield	62.1 – 182	70.6	0.36	Normal	227	70
E Br Penobscot River at Grindstone	554 – 1060	489	0.674	Much Below Normal	837	115
Mattawamkeag nr Mattawamkeag	260 – 977	606	0.49	Normal	1418	83
Piscataquis River nr Dover-Foxcroft	60.5 - 200	182	0.70	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	23.90 – 14.60	23.92	3.22	Below Normal	14
Crooked Road	7.15 – 5.94	7.04	0.54	Normal	14
Hadley Lakes	5.88 – 5.46	5.63	-0.11	Normal	32
Kenduskeag	24.30 – 23.30	23.73	-0.07	Normal	40
Calais	3.88 – 2.31	2.41	-0.83	Normal	18
Millinocket	10.40 – 9.40	10.46	0.55	Below Normal	24
Clayton Lake	16.30 – 15.20	16.43	0.63	Below Normal	39
Fort Kent	11.20 – 8.37	9.76	0.08	Normal	40

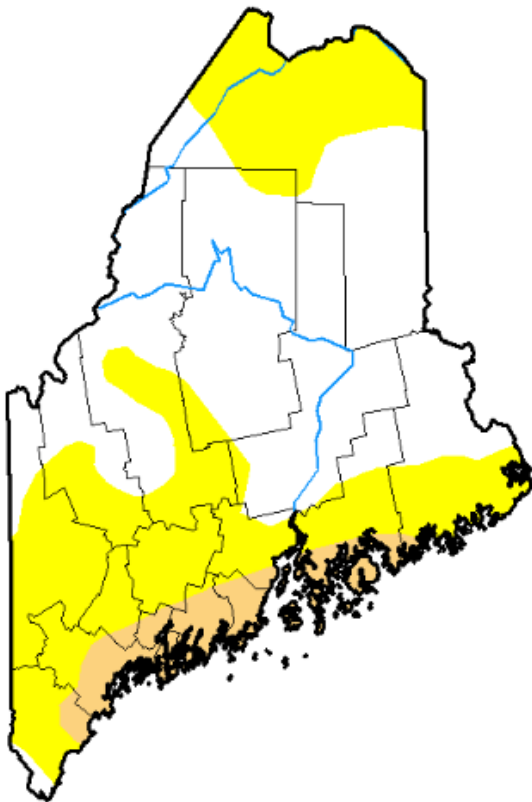
Flow or Water Level	Percentile Range	Explanation
Record Low	0 <sup>th</sup>	The monthly mean streamflow or median water level during this month is the lowest ever recorded during the period of record for this site.
Very Low	0 <sup>th</sup> to 10 <sup>th</sup>	The monthly mean streamflow or median water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





# Drought Conditions

## U.S. Drought Monitor Maine



**August 7, 2018**

(Released Thursday, Aug. 9, 2018)

Valid 8 a.m. EDT

*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	52.08	47.92	7.39	0.00	0.00	0.00
<b>Last Week</b> 07-31-2018	47.64	52.36	13.33	0.00	0.00	0.00
<b>3 Months Ago</b> 05-09-2018	100.00	0.00	0.00	0.00	0.00	0.00
<b>Start of Calendar Year</b> 01-02-2018	92.38	7.62	0.00	0.00	0.00	0.00
<b>Start of Water Year</b> 09-26-2017	57.81	42.19	24.62	0.00	0.00	0.00
<b>One Year Ago</b> 08-09-2017	42.20	57.80	16.60	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.*

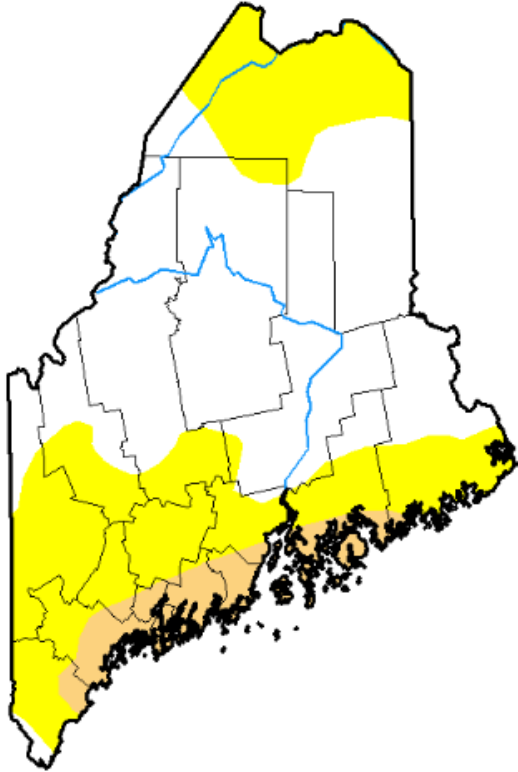
Author:

Richard Tinker  
CPC/NOAA/NWS/NCEP



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

**U.S. Drought Monitor**  
**Maine**



**August 28, 2018**  
(Released Thursday, Aug. 30, 2018)  
Valid 8 a.m. EDT

*Drought Conditions (Percent Area)*

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
<b>Current</b>	54.81	45.19	7.39	0.00	0.00	0.00
<b>Last Week</b> 08-21-2018	54.81	45.19	7.39	0.00	0.00	0.00
<b>3 Months Ago</b> 05-29-2018	100.00	0.00	0.00	0.00	0.00	0.00
<b>Start of Calendar Year</b> 01-02-2018	92.38	7.62	0.00	0.00	0.00	0.00
<b>Start of Water Year</b> 09-26-2017	57.81	42.19	24.62	0.00	0.00	0.00
<b>One Year Ago</b> 08-29-2017	35.65	64.35	28.88	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:**  
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NCEI/NOAA



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