NWS Form E (04-2006) (PRES. BY NWS	= 3	U.S. DEPARTMENT OF C NIC AND ATMOSPHERIC ADMINI NATIONAL WEATHER	ISTRATION
MONTHL	Y REPORT OF HYDE	ROLOGIC CONDITIONS	REPORT FOR: MONTH YEAR September 2017
TO:	Hydrologic Information Center, W/OS31 NOAA's National Weather Service		SIGNATURE Maureen Hastings, HPM
	1325 East West Highv Silver Spring, MD 209		DATE

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.

September 2017

Outside of the locations in the Saint John Valley, much of WFO Caribou's HSA experienced a continuation of drier than normal conditions through September. On average northern areas saw more rainfall than Downeast, including the Bangor region; Bangor Airport saw a rainfall deficit of over an inch while Frenchville was within 0.01 inch of normal. What rainfall did fall was concentrated over just a few days of the month, resulting in prolonged dry spells. For instance, Caribou went 17 straight days – the 10th through the 26th – with no measurable precipitation. Bangor received less than 0.10 inch from the 9th through the end of the month.

Regardless of location, the bulk of the total monthly precipitation for September fell during the first week, particularly the 3rd through the 7th. This was due to a low pressure system on the 3rd into the 4th, then a stalled frontal boundary on the 6th and 7th. Rainfall amounts during this time frame were generally 0.50 to 1.25 inches, with the dry spell settling in thereafter. A strong cold front brought a line of strong storms to northern areas on the 27th, with some spots seeing a half inch or more. These higher totals were rare, however; much of the areas saw little to no rain over the last half of the month.

Obviously, with such dry conditions, no flooding was reported and rivers remain very low. However, some of the spottier heavy rainfall from convection was able to keep a couple of the USGS gages in the Saint John River Bain in the near normal range. Drought conditions did not change too much, however, with D0-D4 conditions actually slightly shrinking in area over the month.

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	3.53	3.53	+0.01				
Caribou	3.13	3.32	-0.19				
Houlton	2.59	3.40	-0.81				
Millinocket	3.42	3.72	-0.30				

Bangor	2.69	3.83	-1.14		

^{*}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 (mi²)	Years of Record
St. John River at Ninemile Bridge	427 – 1940	301	0.25	Low	1341	67
St. John River at Fort Kent	2400 - 6080	1480	0.28	Very Low	5665	91
Aroostook River at Washburn	418 – 1370	754	0.51	Normal	1654	87
Narraguagus River at Cherryfield	59.4 – 212	36.6	0.18	Very Low	227	69
E Br Penobscot River at Grindstone	543 – 1100	556	0.74	Normal	837	115
Mattawamkeag nr Mattawamkeag	209 – 930	131	0.10	Low	1418	83
Piscataquis River nr Dover-Foxcroft	57.8 – 224	52.8	0.20	Low	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	26.50 - 13.80	26.43	2.43	Normal	13
Crooked Road	7.25 - 5.85	7.42	0.78	Low	13
Hadley Lakes	6.34 - 5.61	6.47	0.54	Low	30
Kenduskeag	25.40 - 23.50	24.40	-0.10	Normal	37
Calais	4.22 - 2.39	3.73	0.85	Normal	16
Millinocket	11.00 - 10.10	10.65	0.35	Normal	22
Clayton Lake	16.30 - 14.80	16.41	0.41	Low	37
Fort Kent	11.90 - 9.38	10.77	0.17	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 75th and 90th 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 September 2017 WFO Caribou, ME

PIL	TIME (UTC)	Date	Description

Significant River Crests September 2017 WFO Caribou, ME

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

Drought Monitor for September 5, 2017

U.S. Drought Monitor

Maine

September 5, 2017

(Released Thursday, Sep. 7, 2017) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	35.65	64.35	28.88	0.00	0.00	0.00
Last Week 08-29-2017	35.65	64.35	28.88	0.00	0.00	0.00
3 Month's Ago 06-06-2017	100.00	0.00	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 09-27-2016	42.23	57.77	40.81	26.75	8.35	0.00
One Year Ago 09-06-2016	55.99	44.01	14.19	7.01	0.02	0.00

Intensity:

D0 Abnormally Dry

D1 Moderate Drought

D2 Severe Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<u>Author:</u> Deborah Bathke National Drought Mitigation Center



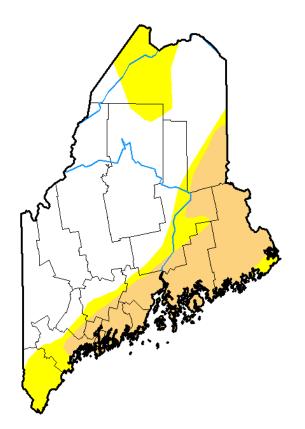




http://droughtmonitor.unl.edu/

Drought Monitor for September 26th, 2017

U.S. Drought Monitor Maine



September 26, 2017

(Released Thursday, Sep. 28, 2017) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	57.81	42.19	24.62	0.00	0.00	0.00
Last Week 09-19-2017	57.81	42.19	24.62	0.00	0.00	0.00
3 Month's Ago 06-27-2017	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 09-27-2016	42.23	57.77	40.81	26.75	8.35	0.00
One Year Ago 09-27-2016	42.23	57.77	40.81	26.75	8.35	0.00

Intensity:



The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements.

<u>Author:</u>

Brad Rippey

U.S. Department of Agriculture









http://droughtmonitor.unl.edu/