NWS Form E (04-2006) (PRES. BY NWS I		U.S. DEPARTMENT OF C ANIC AND ATMOSPHERIC ADMINI NATIONAL WEATHEI	NISTRATION	
MONTHLY	Y REPORT OF HYD	ROLOGIC CONDITIONS	REPORT FOR: MONTH YEAR June 2018	
TO:	Hydrologic Informatio		SIGNATURE Joseph Hewitt, HPM	
	1325 East West High Silver Spring, MD 20		DATE July 29, 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.

June 2018

No Flooding occurred during the month of June.

June 2018 came in with average temperatures below normal. Temperatures across the region ranged from 1 to 3 degrees below normal. Caribou recorded 5 nights with overnight lows in the 30s. This was the most since 2002. Houlton came in with 9 nights where overnight lows were in the 30s. This was the most since 2000. Light frost was recorded in Northwest Maine with Estcourt Station recording an overnight low of 29 degrees back on the 22^{nd} .

In regards to precipitation, precipitation amounts varied quite a bit across the region as Northern Maine recorded precipitation below normal, while Penobscot including Bangor to the Downeast coast had above normal precipitation. Bangor recorded 5.42 inches of rainfall which was 1.66 inches above normal. Caribou came in with a total of 3.16 inches which was 0.32 inches below normal. Frenchville came in with 2.01 inches which was 1.84 inches below normal. Millinocket recorded 2.57 inches which was 1.50 inches below normal. A heavy rainfall event on June 28 th and 29th helped to recharge things a bit with rainfall of 1.25 to 1.50 inches region wide.

Overall, groundwater conditions were near normal with the exception for far Northwest Maine as Clayton Lake came in with readings much below normal. Some of the Downeast sites such as McFarland Hill and Crooked Road at Acadia were below normal.

Streamflows were much below normal for the St. John, Aroostook and Piscataquis River basins nearing the 10th percentile. The Penobscot River basin south of Grindstone had streamflows slightly below normal. The St. Croix River Basin saw near normal streamflows. The rainfall that occurred on the 28th and 29th helped recharge streams and rivers.

As far the conditions approaching near Drought conditions, the USDM kept the Caribou HSA in normal conditions thanks in part to the heavy rainfall that occurred on the 28th and 29th. Conditions across the north and west were nearing abnormally dry before that rainfall. See the June images below.

Precipitation Totals for Select Locations with all units in inches

Location	Total Precip	Normal Precipitation	Departure from Normal	Snowfall	Normal Snowfall	Departure from Normal Snowfall	Greatest Snow Depth
Frenchville	2.01	3.85	-1.84	NA	NA	NA	NA
Caribou	3.16	3.48	-0.32	0.0	0.0	0.0	0
Houlton	3.29	3.65	- 0.36	NA	NA	NA	NA
*Millinocket	2.57	4.07	- 1.50	NA	NA	NA	NA
Bangor	5.40	3.76	+1.66	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

River	Normal Flow (cfs)	Monthly Mean Flow (cfs)	Monthly Mean (in)	Percentile Class	Drainage (mi²)	Years of Record
St. John River at Ninemile Bridge	1330 - 2850	558	0.46	Much Below Normal	1341	67
St. John River at Fort Kent	7610 - 12600	3720	0.70	Much Below Normal	5929	91
Aroostook River at Washburn	1420 - 3180	733	0.49	Much Below Normal	1654	87
Narraguagus River at Cherryfield	208 - 490	243	1.99	Normal	227	70
E Br Penobscot River at Grindstone	1320 - 2880	968243	1.29	Much Below Normal	837	115
Mattawamkeag nr Mattawamkeag	1090 – 2650	562	0.44	Much Below Normal	1418	83
Piscataquis River nr Dover-Foxcroft	245 - 638	109	0.41	Much Below 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	12.40 – 4.14	18.19	9.07	Much Below Normal	14
Crooked Road	6.13 - 5.12	6.22	0.51	Below Normal	14
Hadley Lakes	5.03 – 4.31	4.67	0.01	Normal	32
Kenduskeag	22.10 – 20.40	21.82	0.52	Normal	40
Calais	2.43 - 0.88	1.32	-0.50	Normal	18
Millinocket	9.18 – 8.07	8.63	0.30	Normal	24
Clayton Lake	15.40 – 14.00	15.66	1.06	Much Below Normal	39
Fort Kent	7.81 – 5.83	6.66	0.02	Normal	40

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 May 2018 WFO Caribou, ME

PIL	TIME (UTC)	Date	Description

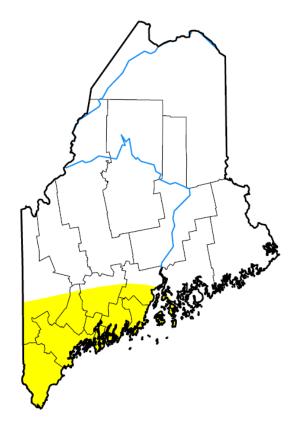
Significant River Crests May 2018

WFO Caribou, ME

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

Drought Conditions

U.S. Drought Monitor Maine



June 5, 2018

(Released Thursday, Jun. 7, 2018) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

		-				
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	83.94	16.06	0.00	0.00	0.00	0.00
Last Week 05-29-2018	100.00	0.00	0.00	0.00	0.00	0.00
3 Months Ago 03-06-2018	100.00	0.00	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 06-06-2017	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D2 Severe 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



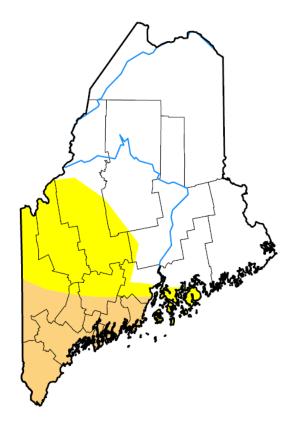






http://droughtmonitor.unl.edu/

U.S. Drought Monitor Maine



June 26, 2018

(Released Thursday, Jun. 28, 2018) Valid 8 a.m. EDT

Drought Conditions (Percent Area)

		None	D0-D4	D1-D4	D2-D4	D3-D4	D4
	Current	63.33	36.67	14.57	0.00	0.00	0.00
	ast Week 06-19-2018	63.33	36.67	0.00	0.00	0.00	0.00
	Months Ago 03-27-2018	100.00	0.00	0.00	0.00	0.00	0.00
Ca	Start of lendar Year 01-02-2018	92.38	7.62	0.00	0.00	0.00	0.00
	Start of Vater Year 09-26-2017	57.81	42.19	24.62	0.00	0.00	0.00
	ne Year Ago 06-27-2017	96.45	3.55	0.00	0.00	0.00	0.00

Intensity:

D0 Abnormally Dry
D1 Moderate Drought
D2 Severe Drought
D2 Severe Drought

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

Author:

Richard Heim NCEI/NOAA









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