	E-5 U.S. DEPARTMENT OF COMMERC NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION Instruction 10-924) NATIONAL WEATHER SERVICE	WFO Car	WFO Caribou, Maine REPORT FOR:		
		May SIGNATUR	2021		
TO:	Hydrologic Information Center, W/OS31 NOAA's National Weather Service	Joseph H	lewitt, HPM		
	1325 East West Highway Silver Spring, MD 20910-3283	DATE July 3rd,	, 2021		
When no flo	oding occurs, include miscellaneous river conditions below the sma	Il hox, such as	s significant rises record low		

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).

 $\overline{\mathbf{X}}$ An X inside this box indicates that no flooding occurred within this hydrologic service area.

May 2021

No flooding occurred across the region during May.

Precipitation for the month of May was variable with slightly above normal precipitation for east-central Aroostook County and well below normal precipitation elsewhere. At Bangor, monthly precipitation was 1.82 inches which was 1.52 inches below normal. This tied 1993 as the 13th lowest monthly precipitation. Millinocket came with 2.12 inches of precipitation, which was 1.30 inches below normal. Caribou recorded 3.51 inches of precipitation, which was 0.05 above normal for the month of May. There were some rainfall events during the month of May across portions of the region, with the most significant rainfall event occurring on the 30th and 31st, with up to one inch of rainfall across much of the region. Houlton set a daily precipitation record of 0.98 inches on the 31st.

The only snow of note, fell at Frenchville, Caribou and Houlton on the 5th, when rain ended as a mix of snow and rain. Trace amounts were recorded at those three sites. Caribou snowfall for May was actually 0.08 inches below normal.

May came in with near to slightly above normal temperatures across much of the region. The outlier was Houlton, which came with monthly temperatures slightly below normal. The month of May opened up on the chilly side for the first 2 weeks, and then temperatures transitioned to above normal from mid to late May. The last 5 days however ended on the cool side. The warmest days occurred from the 20th through the 22nd and again on the 26th, where many sites, away from the coast, experienced 80+ temperatures. A few sites even came in with lower 90s on the 26th. There were some mornings during the first 2 weeks that saw morning reading below 32F, and again toward the end of the month. Frost/ Freeze headlines were issued during this stretch. Caribou came in with a monthly average temperature of 52.6 degrees, which was 0.4 degrees above normal. Houlton had an average monthly temperature of 50.8 degrees, which was 0.4 degrees below normal. Bangor came in with an average monthly temperature of 55.0 degrees, which was 0.5 degrees above normal.

Streamflows across the region continued to show declines during the month of May with slightly below normal to much below normal. The St. John, Allagash, Fish and Aroostook Rivers in northern Maine had streamflows much below normal. The Narraguagus River at Cherryfield, and the Piscataquis River recorded much below normal streamflows. Interestingly enough, the Mattawamkeag River and the East

Branch of the Penobscot River at Grindstone, dropped to slightly below normal. There was some decent rainfall in these areas to offset a further drop in flows.

Groundwater levels continued to be variable across the region during the month of May, but signals showed levels declining from what was recorded in April. Clayton Lake came in well below normal compared to levels being below normal in April. Wells across the Maine Central Highlands into portions eastern Maine dropped to below normal with Amherst coming in much below normal groundwater levels. The exception was Calais, which stayed with levels near normal.

In regards to Drought monitoring, the Abnormally Dry area was expanded a bit to include Northern Somerset County along with Piscataquis, Penobscot and Hancock Counties.

Location	Total Precip	Normal Precipitation	Departure from Normal	Snowfall	Normal Snowfall	Departure from Normal Snowfall	Greatest Snow Depth
Frenchville	1.97	3.07	-1.10	NA	NA	NA	NA
Caribou	3.51	3.46	+0.05	Т	0.8	-0.8	Т
Houlton	3.79	3.46	+0.33	NA	NA	NA	NA
*Millinocket	2.12	3.42	-1.30	NA	NA	NA	NA
Bangor	1.82	3.34	-1.52	0.0	0	0.0	0

May Precipitation Totals for Select Locations with all units in inches

*Millinocket snowfall measured at wastewater treatment plant, not the ASOS site. Data might not available every month.

River	Normal Flow (cfs)	Monthly Mean Flow (cfs)	Monthly Mean (in)	Percentile Class	Drainage (mi ²)	Years of Record
St. John River at Ninemile Bridge	4610 - 8720	2380	2.05	Much Below Normal	1341	70
St. John River at Fort Kent	20700 - 42200	10300	2.00	Much Below Normal	5929	94
Aroostook River at Washburn	4790 - 9390	3190	2.22	Much Below Normal	1654	90
Narraguagus River at Cherryfield	424 - 826	296	1.50	Much Below Normal	227	73
E Br Penobscot River at Grindstone	3070 - 6250	2500	3.44	Below Normal	837	118

May Stream Flows for Selected Rivers

Mattawamkeag nr Mattawamkeag	3540 - 6720	2710	2.20	Below Normal	1418	86
Piscataquis River nr Dover- Foxcroft	696 – 1640	428	1.66	Much Below Normal	298	118

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
Amherst	18.50 - 17.50	20.47	2.57	Much Below Normal	31
Crooked Road	NA	NA	NA	NA	NA
Hadley Lakes	4.37 – 3.74	4.45	0.38	Below Normal	35
Kenduskeag	20.40 - 18.90	20.70	1.16	Below Normal	43
Calais	1.67 - 0.38	0.79	-0.20	Normal	21
Millinocket	8.53 - 7.07	8.87	1.30	Below Normal	27
Clayton Lake	13.50 - 12.30	14.58	1.58	Much Below Normal	42
Fort Kent	6.26 – 3.64	6.10	1.23	Normal	43

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.

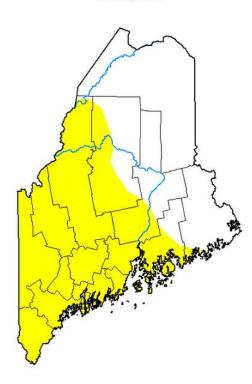
•

Non-Routine Hydrologic Products May 2021 WFO Caribou, ME

WMO Identifier	Date	Issuance	Name of Product

Drought Conditions for May 2021

U.S. Drought Monitor Maine



May 4, 2021 (Released Thursday, May. 6, 2021) Valid 8 a.m. EDT

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	45.31	54.69	0.00	0.00	0.00	0.00
Last Week 04-27-2021	44.34	55.66	0.00	0.00	0.00	0.00
3 Month s Ago 02-02-2021	91.68	8.32	0.00	0.00	0.00	0,00
Start of Calendar Year 12-29-2020	91.54	8. 4 6	0.00	0.00	0.00	0.00
Start of Water Year 09-29-2020	0.00	100.00	100.00	83.86	7.28	0.00
One Year Ago 05-05-2020	100.00	0.00	0.00	0.00	0.00	0.00

Intensity:

None D0 Abnormally Dry D1 Moderate Drought

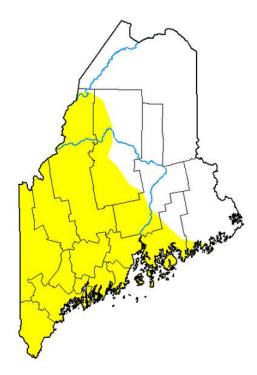
D2 Severe Drought D3 Extreme Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author: David Simeral Western Regional Climate Center



U.S. Drought Monitor Maine



May 25, 2021 (Released Thursday, May. 27, 2021) Valid 8 a.m. EDT

	Drought Conditions (Percent Area)								
	None	D0-D4	D1-D4	D2-D4	D3-D4	D4			
Current	45.76	5 <mark>4</mark> .24	0.00	0.00	0.00	0.00			
Last Week 05-18-2021	58.98	41.02	0.00	0.00	0.00	0.00			
3 Month s Ago 02-23-2021	92.01	7.99	0.00	0.00	0.00	0.00			
Start of Calendar Year 12-29-2020	9 <mark>1.54</mark>	8.46	0.00	0.00	0.00	0.00			
Start of Water Year 09-29-2020	0.00	100.00	100.00	83.86	7.28	0.00			
One Year Ago 05-26-2020	93.80	6.20	0.00	0.00	0.00	0.00			

Intensity:

None D0 Abnormally Dry

D2 Severe Drought D3 Extreme Drought D1 Moderate Drought D4 Exceptional Drought

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. For more information on the Drought Monitor, go to https://droughtmonitor.unl.edu/About.aspx

Author: Adam Hartman NOAA/NWS/NCEP/CPC



droughtmonitor.unl.edu