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.

March 2021

Some flooding did occur during the last week of March due to ice jams on the Aroostook River. There was some flooding on the Grimes Rd near the Caribou-Fort Fairfield town line. More flooding occurred on the Russell Rd and Riverside Ave in Fort Fairfield due to an ice that set up south of the Fort Fairfield Bridge. Another ice jam set up just east of the Town of Crouseville along the Aroostook River which resulted in the closure of portion of Route 164. Areal Flood Warnings were issued for these ice jams along with a Flood Watch being issued well in advance of the onset of flooding. There was no damage or loss of life.

Precipitation for the month of March was below normal across the HSA. Caribou recorded 2.44 inches which was 0.07 inches below normal. Bangor recorded 1.66 inches of precipitation, which was 1.72 inches below normal. Houlton came in with only 1.98 inches of precipitation, which was 0.61 inches below normal. Millinocket recorded 1.82 inches of precipitation, which was 1.24 inches below normal. The most significant precipitation event came between the 26th and the 28th with rain across the northern ½ of the region changing over to snow on the 27th into the 28th, while the Bangor and Downeast region received just rain during those 3 days, with anywhere from 1.42 inches in Bangor to over 3 inches along the coastal areas.

Snowfall was below normal across the HSA. Caribou measured 13.6 inches of snow for the month of March. This was 5.1 inches below the normal snowfall of 18.7 inches. In Bangor, only a trace of snow was observed for the whole month. This was 11.7 inches below normal. March 2021 tied with March 1946, for the least snow for March since records began back in 1925. The most significant snow event occurred on April 1st with snow and strong winds across the northern ½ of the HSA. This led to numerous road closures and snow amounts of 4 to 7 inches. At the start of the month, snow depths ranged from 15 to 30 inches across the northern areas, from Millinocket to the northern Maine-Canadian border. Further south from the Bangor region to the coast, snow depths were from 4 to 10 inches. By the end of the month, snow depths dropped dropped off to a range of 4 to 10 inches across far Northwest Maine, while further east, across the rest of Northern Maine, snow depths ranged from a trace to 4 inches. Elsewhere, little to no snow was observed.
March came in with 2 to 3 degrees above normal across the region. There were alternating spells where temperatures were either above or below normal. A pronounced warmup came on the 20\textsuperscript{th} and lasted through the 25\textsuperscript{th}, which brought high temperatures in the 50s and 60s. This led to a dramatic melt of the snowpack. Caribou came in with an average temperature of 26.9 degrees, which was 2.4 degrees above normal. The highest temperature was 62 degrees on the 22\textsuperscript{nd}, and the lowest temperature of – 4 degrees on the 2\textsuperscript{nd}. Bangor recorded an average temperature of 33.0 degrees, which was 2.8 degrees above normal. Bangor had its highest temperature of 66 degrees on the 22\textsuperscript{nd}, and its lowest temperature of 3 degrees on the 2\textsuperscript{nd}.

Streamflows across the region were above normal for March with the exception of the Downeast region as streamflows were near normal. The St. John basin came in with much above normal streamflows.

Wells across the region were in the normal range, including Amherst, which showed an improvement from January when it showed below normal levels. The exception was Fort Kent, which showed above normal readings.

In regards to Drought monitoring, the region remained in the normal range for the most part for March, with the exception for Hancock County coast, which continued with Abnormally Dry conditions.

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

<table>
<thead>
<tr>
<th>Location</th>
<th>Total Precip</th>
<th>Normal Precipitation</th>
<th>Departure from Normal</th>
<th>Snowfall</th>
<th>Normal Snowfall</th>
<th>Departure from Normal Snowfall</th>
<th>Greatest Snow Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frenchville</td>
<td>1.38</td>
<td>1.48</td>
<td>-0.10</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Caribou</td>
<td>2.44</td>
<td>2.51</td>
<td>-0.07</td>
<td>13.6</td>
<td>18.3</td>
<td>-4.7</td>
<td>26</td>
</tr>
<tr>
<td>Houlton</td>
<td>1.98</td>
<td>2.59</td>
<td>-0.61</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>*Millinocket</td>
<td>1.82</td>
<td>3.06</td>
<td>-1.24</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>Bangor</td>
<td>1.66</td>
<td>3.38</td>
<td>-1.72</td>
<td>T</td>
<td>11.7</td>
<td>-11.7</td>
<td>6</td>
</tr>
</tbody>
</table>

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

### March Stream Flows for Selected Rivers

<table>
<thead>
<tr>
<th>River</th>
<th>Normal Flow (cfs)</th>
<th>Monthly Mean Flow (cfs)</th>
<th>Monthly Mean (in)</th>
<th>Percentile Class</th>
<th>Drainage (mi(^2))</th>
<th>Years of Record</th>
</tr>
</thead>
<tbody>
<tr>
<td>St. John River at Ninemile Bridge</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>1341</td>
<td>70</td>
</tr>
<tr>
<td>St. John River at Fort Kent</td>
<td>1690 - 4820</td>
<td>8110</td>
<td>1.58</td>
<td>Much Above Normal</td>
<td>5929</td>
<td>94</td>
</tr>
<tr>
<td>Aroostook River at Washburn</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>1654</td>
<td>90</td>
</tr>
<tr>
<td>Station</td>
<td>Normal Range (ft)</td>
<td>Mean Water Level Below Land-sfc Datum (ft)</td>
<td>Departure from Month-end Median (ft)</td>
<td>Percentile Class</td>
<td>Years of Record</td>
<td></td>
</tr>
<tr>
<td>-------------------------------------</td>
<td>-------------------</td>
<td>---------------------------------------------</td>
<td>-------------------------------------</td>
<td>------------------------</td>
<td>-----------------</td>
<td></td>
</tr>
<tr>
<td>Narraguagus River at Cherryfield</td>
<td>480 – 974</td>
<td>598</td>
<td>3.04</td>
<td>Normal</td>
<td>227</td>
<td></td>
</tr>
<tr>
<td>E Br Penobscot River at Grindstone</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>837</td>
<td></td>
</tr>
<tr>
<td>Mattawamkeag nr Mattawamkeag</td>
<td>1050 – 2890</td>
<td>3050</td>
<td>2.48</td>
<td>Above Normal</td>
<td>1418</td>
<td></td>
</tr>
<tr>
<td>Piscataquis River nr Dover-Foxcroft</td>
<td>277 – 775</td>
<td>785</td>
<td>3.04</td>
<td>Above Normal</td>
<td>298</td>
<td></td>
</tr>
</tbody>
</table>

### Groundwater Levels

<table>
<thead>
<tr>
<th>Station</th>
<th>Normal Range (ft)</th>
<th>Mean Water Level Below Land-sfc Datum (ft)</th>
<th>Departure from Month-end Median (ft)</th>
<th>Percentile Class</th>
<th>Years of Record</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amherst</td>
<td>19.70 – 17.60</td>
<td>21.15</td>
<td>3.05</td>
<td>Much Below Normal</td>
<td>30</td>
</tr>
<tr>
<td>Crooked Road</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>15</td>
</tr>
<tr>
<td>Hadley Lakes</td>
<td>4.90 – 4.15</td>
<td>4.96</td>
<td>0.42</td>
<td>Below Normal</td>
<td>35</td>
</tr>
<tr>
<td>Kenduskeag</td>
<td>22.40 – 19.40</td>
<td>21.46</td>
<td>0.66</td>
<td>Normal</td>
<td>42</td>
</tr>
<tr>
<td>Calais</td>
<td>1.57 – 0.58</td>
<td>0.88</td>
<td>-0.19</td>
<td>Normal</td>
<td>21</td>
</tr>
<tr>
<td>Millinocket</td>
<td>10.40 – 9.49</td>
<td>9.92</td>
<td>-0.01</td>
<td>Normal</td>
<td>27</td>
</tr>
<tr>
<td>Clayton Lake</td>
<td>14.90 – 13.70</td>
<td>14.83</td>
<td>0.73</td>
<td>Normal</td>
<td>42</td>
</tr>
<tr>
<td>Fort Kent</td>
<td>12.50 – 10.00</td>
<td>9.92</td>
<td>-1.08</td>
<td>Above Normal</td>
<td>43</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Flow or Water Level</th>
<th>Percentile Range</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Record Low</td>
<td>5th</td>
<td>The monthly mean streamflow or median water level during this month is the lowest ever recorded during the period of record for this site.</td>
</tr>
<tr>
<td>Very Low</td>
<td>6th to 10th</td>
<td>The monthly mean streamflow or median water level during this month is less than the 10th percentile when compared to all of the months during the period of record for this site.</td>
</tr>
<tr>
<td>Low</td>
<td>10th to 25th</td>
<td>The monthly mean streamflow or median water level during this month is between the 10th and 25th percentiles when compared to all of the months during the period of record for this site.</td>
</tr>
<tr>
<td>Normal</td>
<td>25th to 75th</td>
<td>The monthly mean streamflow or median water level during this month is between the 25th and 75th percentiles when compared to all of the months during the period of record for this site.</td>
</tr>
<tr>
<td>High</td>
<td>75th to 90th</td>
<td>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.</td>
</tr>
<tr>
<td>Very High</td>
<td>90th to 100th</td>
<td>The monthly mean streamflow or median water level during this month is greater than the 90th percentile when compared to all of the months during the period of record for this site.</td>
</tr>
<tr>
<td>Record High</td>
<td>100th</td>
<td>The monthly mean streamflow or median water level during this month is the highest ever recorded during the period of record for this site.</td>
</tr>
</tbody>
</table>
### Non-Routine Hydrologic Products
March 2021
WFO Caribou, ME

<table>
<thead>
<tr>
<th>WMO Identifier</th>
<th>Date</th>
<th>Issuance</th>
<th>Name of Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLSCAR</td>
<td>03/27</td>
<td>0727Z</td>
<td>Areal Flood Advisory for Ice Jam on the Aroostook River</td>
</tr>
<tr>
<td>FLWCAR</td>
<td>03/27</td>
<td>1936Z</td>
<td>Flood Warning for Ice Jam on Aroostook River near Caribou-Fort Fairfield town line.</td>
</tr>
<tr>
<td>FLSCAR</td>
<td>03/28</td>
<td>0038Z</td>
<td>Extension of Flood Warning for Ice Jam on Aroostook River near Caribou-Fort Fairfield town line.</td>
</tr>
<tr>
<td>FLWCAR</td>
<td>03/28</td>
<td>1413Z</td>
<td>Flood Warning for Ice Jam on Aroostook River expanded down to Fort Fairfield due to Ice Jam</td>
</tr>
<tr>
<td>FLWCAR</td>
<td>3/29</td>
<td>0921Z</td>
<td>Flood Warning for Ice Jam on the Aroostook River in Crouseville</td>
</tr>
<tr>
<td>FLSCAR</td>
<td>3/29</td>
<td>1339Z</td>
<td>Flood Advisory for Ice Jam in Caribou-Fort Fairfield</td>
</tr>
<tr>
<td>FLWCAR</td>
<td>3/29</td>
<td>1702</td>
<td>Flood Warning extended out in time for Ice Jam on Aroostook River at Caribou-Fort Fairfield</td>
</tr>
<tr>
<td>FLW CAR</td>
<td>3/30</td>
<td>0927Z</td>
<td>Flood Warning extended in areal coverage for Ice Jam on Aroostook River in Crouseville</td>
</tr>
<tr>
<td>FLSCAR</td>
<td>3/30</td>
<td>1522Z</td>
<td>Cancellation of Flood Warning for Ice Jam on the Aroostook River in Crouseville</td>
</tr>
<tr>
<td>FFACAR</td>
<td>3/30</td>
<td>1936Z</td>
<td>Flood Watch issued for Northern and Central Maine</td>
</tr>
<tr>
<td>FLSCAR</td>
<td>3/30</td>
<td>1948Z</td>
<td>Cancellation of Flood Advisory for Ice Jam on the Aroostook River along Caribou-Fort Fairfield town line in lieu of Flood Watch</td>
</tr>
<tr>
<td>FLSCAR</td>
<td>3/30</td>
<td>1954Z</td>
<td>Cancellation Flood Advisory for Ice Jam on Aroostook River in Fort Fairfield area in lieu of the Flood Watch</td>
</tr>
<tr>
<td>FFACAR</td>
<td>3/31</td>
<td>0839Z</td>
<td>Continuation of the Flood Watch</td>
</tr>
<tr>
<td>FFACAR</td>
<td>3/31</td>
<td>2057Z</td>
<td>Mattawamkeag River was added into the existing Watch</td>
</tr>
<tr>
<td>--------</td>
<td>------</td>
<td>-------</td>
<td>--------------------------------------------------</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Drought Conditions for March 2021**