Alaska Snow Survey Report

April 1, 2020
The USDA Natural Resources Conservation Service cooperates with the following organizations in snow survey work:

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<th>State of Alaska</th>
</tr>
</thead>
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<tr>
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<td>Alaska Department of Fish and Game</td>
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<tr>
<td>Chugach National Forest</td>
<td>Alaska Department of Transportation and</td>
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<td>Tongass National Forest</td>
<td>Public Facilities</td>
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<td>U.S. Department of Commerce</td>
<td>Alaska Department of Natural Resources</td>
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<tr>
<td>NOAA, Alaska Pacific RFC</td>
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<td>U.S. Department of Defense</td>
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<td>National Park Service</td>
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<td>Municipalities</td>
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<tr>
<td>Anchorage</td>
<td>Salcha-Big Delta SWCD</td>
</tr>
<tr>
<td>Juneau</td>
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</tr>
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<td></td>
<td>Geophysical Institute</td>
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<tr>
<td>Private</td>
<td>Alaska Public Schools</td>
</tr>
<tr>
<td>Alaska Electric, Light and Power, Juneau</td>
<td>Mantanuska-Susitna Borough School District</td>
</tr>
<tr>
<td>Alyeska Resort, Inc.</td>
<td>Eagle School, Gateway School District</td>
</tr>
<tr>
<td>Alyeska Pipeline Service Company</td>
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<td>Anchorage Municipal Light and Power</td>
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<td>Chugach Electric Association</td>
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<td>Copper Valley Electric Association</td>
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<td>Homer Electric Association</td>
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<td>Ketchikan Public Utilities</td>
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<tr>
<td>Prince William Sound Science Center</td>
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<tr>
<td>Canada</td>
<td>Ministry of the Environment</td>
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<td>Department of the Environment</td>
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<td></td>
<td>Government of the Yukon</td>
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Cover photo: Caribou Mine Snow Course in the Salcha Rive Drainage had an average snow depth of 50” compared to 3” last year. The snow course had a water content of 9.9” which is 210% of normal.
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<td>15-17</td>
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<td>Norton Sound, Southwest, and Bristol Bay</td>
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<td>Copper Basin</td>
<td>29-31</td>
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<td>32-34</td>
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<td>Northern Cook Inlet</td>
<td>35-37</td>
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<td>Kenai Peninsula</td>
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<td>Western Gulf</td>
<td>41,42</td>
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<tr>
<td>Southeast</td>
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Telephone Numbers and other contact information ......................................................... 45
General Overview

SnowPack

Much of the Interior and Western Alaska made greater-than-average snowpack gains during March.

The snowpack across much of Alaska is substantial. The Interior, western Alaska, and Southeast Alaska all have above normal snowpacks. The Kenai Peninsula has below normal snowpack, as do other isolated portions of Southcentral.

The Tanana and upper Kuskokwim basins have bounteous snowpacks. These regions have, in general, twice the normal amount of snow. Several snow courses in these basins have set, or nearly set, new snowpack records. With 60 years of measurements, the Fielding Lake snow course, near where the Richardson Highway passes through the Alaska Range, set a new record high with 76” of snow with 22.5” of water content, or 227% of normal. In the lower Tanana Valley, the 9 sites in the Chena basin average 188% of normal.

This robust snowpack continues down river towards Galena, where sites with 15 years of measurements set new highs. The Koyukuk and central Yukon Valleys also had above normal snowpacks, though the Koyukuk snowpack isn’t as copious as the last two winters.

Northwest Alaska, which did have low snowpack, made significant gains in March to have near normal snowpack.

To the east, in the Yukon Territory, the Upper Yukon basin has well above normal snowpack, more than twice as much snow as last year! The 32 sites in this region average 133% of normal.

In Southcentral Alaska, the Matanuska and Susitna Basins have above normal snowpack. West of the Talkeetna Mountains, it’s been since 2005 that there has been such abundant snow.

The Copper Valley and Northern Cook Inlet have close to normal snowpacks, while the Kenai Peninsula is the snow-famished land with lackluster snowpacks near two-thirds normal.

<table>
<thead>
<tr>
<th>Alaska Statewide Snowpack</th>
<th># of Sites</th>
<th>Current Percent of Median</th>
<th>Last Year Percent of Median</th>
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<tr>
<td>Upper Yukon Basin</td>
<td>32</td>
<td>133</td>
<td>50</td>
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<tr>
<td>Central Yukon Basin</td>
<td>6</td>
<td>117</td>
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<td>Tanana Basin</td>
<td>22</td>
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<td>Koyukuk Basin</td>
<td>2</td>
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<td>175</td>
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<tr>
<td>Kuskokwim Basin</td>
<td>2</td>
<td>197</td>
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<td>Copper Basin</td>
<td>17</td>
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<td>Matanuska-Susitna Basin</td>
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<td>155</td>
<td>91</td>
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<td>Northern Cook Inlet</td>
<td>12</td>
<td>94</td>
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<td>Kenai Peninsula</td>
<td>19</td>
<td>64</td>
<td>60</td>
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<tr>
<td>Western Gulf of Alaska</td>
<td>9</td>
<td>85</td>
<td>69</td>
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<td>Southeast Alaska</td>
<td>5</td>
<td>131</td>
<td>45</td>
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</table>
Precipitation

Much of the Interior and western Alaska received above to much above monthly precipitation during March. In contrast, regions along the Gulf of Alaska were caught with below normal amounts. The Arctic was mixed; however, many sites reported above normal precipitation.

Locations in the Central Yukon drainage and Tanana Valley caught between 200%-500% of normal precipitation. The 8 measured sites in the Tanana averaged 417% of normal. This above normal trend continued west and north. The 4 sites in the Koyukuk averaged 237% of normal, while sites on the west coast caught 150-300% of normal precipitation.

Upper Cook Inlet and the Matanuska-Susitna Basins were generally above normal, too. Sites in this region varied from near normal to 300% of normal.

However, most of the Kenai Peninsula received well below normal March precipitation. The ten reporting sites on the Peninsula averaged only 32% of normal. Similarly, to the east, Prince William Sound sites averaged only 26% of normal and down in Southeast, sites reported between 30-77% of normal precipitation.

Temperature

Most of the reporting sites across the state modestly close to average, varying from -4°F to +4°F departure from monthly normals. The Arctic was the outlier for March, where Utqiagvik was 11°F above normal for the month.

Other locations above normal were Nome and Fort Yukon, which were both 4°F above normal for March. On the cold side of monthly normals were Gulkana at 4°F below normal and Anchorage at 3°F below normal. Talkeetna and Homer were both 2°F below normal for the month.

Bettles, Bethel, Juneau, Cordova, and Fairbanks were all within 1°F of monthly March normal temperatures.
Alaska Statewide Precipitation Maps

Monthly Precipitation for March, 2020
(% of NRCS 81-2010 Average)

Water Year-to-date Precipitation (Oct. 1. 2019 –March 31, 2020)
(% of NRCS 81-2010 Average)
Alaska Statewide Snowpack Map
Based on April 1st, 2020 Snow Water Equivalent
### Streamflow Forecasts

<table>
<thead>
<tr>
<th>FORECAST POINT</th>
<th>Percent of Ave. Flow</th>
<th>Period</th>
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</thead>
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<tr>
<td>Yukon River at Eagle</td>
<td>123</td>
<td>April - July</td>
</tr>
<tr>
<td>Porcupine River nr Int’l Boundary</td>
<td>102</td>
<td>April - July</td>
</tr>
<tr>
<td>Yukon River near Stevens Village</td>
<td>119</td>
<td>April - July</td>
</tr>
<tr>
<td>Tanana River at Fairbanks</td>
<td>130</td>
<td>April - July</td>
</tr>
<tr>
<td>Tanana River at Nenana</td>
<td>123</td>
<td>April - July</td>
</tr>
<tr>
<td>Little Chena River near Fairbanks</td>
<td>133</td>
<td>April - July</td>
</tr>
<tr>
<td>Chena River near Two Rivers</td>
<td>148</td>
<td>April - July</td>
</tr>
<tr>
<td>Salcha near Salchaket</td>
<td>152</td>
<td>April - July</td>
</tr>
<tr>
<td>Kuskokwim River at Crooked Creek</td>
<td>121</td>
<td>April - July</td>
</tr>
<tr>
<td>Sagvanirktok River near Pump Station 3</td>
<td>136</td>
<td>April - July</td>
</tr>
<tr>
<td>Kuparuk River near Deadhorse</td>
<td>90</td>
<td>April - July</td>
</tr>
<tr>
<td>Gulkana River at Sourdough</td>
<td>132</td>
<td>April - July</td>
</tr>
<tr>
<td>Little Susitna River near Palmer</td>
<td>144</td>
<td>April - July</td>
</tr>
<tr>
<td>Talkeetna River near Talkeetna</td>
<td>131</td>
<td>April - July</td>
</tr>
<tr>
<td>Ship Creek near Anchorage</td>
<td>105</td>
<td>April - July</td>
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<tr>
<td>Kenai River at Cooper Landing</td>
<td>91</td>
<td>April - July</td>
</tr>
<tr>
<td>Bradley Lake Inflow</td>
<td>102</td>
<td>April - July</td>
</tr>
<tr>
<td>Taiya River nr Skagway</td>
<td>110</td>
<td>April - July</td>
</tr>
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</table>

**Snowmelt Runoff Index (SRI):** for streams which no longer have stream gauging stations

<table>
<thead>
<tr>
<th>FORECAST POINT</th>
<th>INDEX</th>
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</thead>
<tbody>
<tr>
<td>Koyukuk River at Hughes</td>
<td>1.5</td>
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<tr>
<td>MF Koyukuk R near Wiseman</td>
<td>1.5</td>
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<tr>
<td>Slate Creek at Coldfoot</td>
<td>0</td>
</tr>
<tr>
<td>Beaver Creek above Victoria Creek</td>
<td>—</td>
</tr>
<tr>
<td>Birch Creek below South Fork</td>
<td>1.5</td>
</tr>
<tr>
<td>Caribou Creek at Chatanika</td>
<td>—</td>
</tr>
<tr>
<td>Susitna River near Gold Creek</td>
<td>2</td>
</tr>
<tr>
<td>Chulitna River near Talkeetna</td>
<td>2</td>
</tr>
<tr>
<td>Deshka River at mouth near Willow</td>
<td>2</td>
</tr>
<tr>
<td>Montana Creek at Parks Highway</td>
<td>1</td>
</tr>
<tr>
<td>Willow Creek near Willow</td>
<td>2</td>
</tr>
<tr>
<td>Skwentna River at Skwentna</td>
<td>—</td>
</tr>
<tr>
<td>Chuitna River near Tyonek</td>
<td>—</td>
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<tr>
<td>Campbell Creek near Spenard</td>
<td>0</td>
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<tr>
<td>Indian Creek at Indian</td>
<td>-2.5</td>
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<tr>
<td>Bird Creek at Bird Creek</td>
<td>-2.5</td>
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<tr>
<td>Glacier Creek nr Girdwood</td>
<td>-0.5</td>
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<tr>
<td>Six Mile Creek near Hope</td>
<td>-2.0</td>
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<tr>
<td>Resurrection Creek near Hope</td>
<td>—</td>
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<tr>
<td>Grouse Ck at Grouse Lake Outlet nr Seward</td>
<td>-2.5</td>
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<tr>
<td>Anchor River near Anchor Point</td>
<td>-2.5</td>
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<tr>
<td>Deep Creek near Ninilchik</td>
<td>-2.5</td>
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<tr>
<td>Ninilchik River near Ninilchik</td>
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<tr>
<td>Fritz Creek near Homer</td>
<td>-2</td>
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<tr>
<td>Skagway River at Skagway</td>
<td>2</td>
</tr>
<tr>
<td>Municipal Watershed C nr Petersburg</td>
<td>—</td>
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<tr>
<td>Gold Creek near Juneau</td>
<td>2.0</td>
</tr>
</tbody>
</table>

**Key:**

- **Index**
  - -2 to -3: much below average snowmelt runoff
  - -1 to -2: below average snowmelt runoff
  - -1 to +1: average snowmelt runoff
  - +1 to +2: above average snowmelt runoff
  - +2 to +3: much above average snowmelt runoff
HOW FORECASTS ARE MADE

Most of the annual streamflow in the western United States originates as snowfall that has accumulated in the mountains during the winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Measurements of snow water equivalent at selected manual snow courses and automated SNOTEL sites, along with precipitation, antecedent streamflow, and indices of the El Niño / Southern Oscillation are used in computerized statistical and simulation models to prepare runoff forecasts. These forecasts are coordinated between hydrologists in the Natural Resources Conservation Service and the National Weather Service. Unless otherwise specified, all forecasts are for flows that would occur naturally without any upstream influences.

Forecasts of any kind, of course, are not perfect. Streamflow forecast uncertainty arises from three primary sources: (1) uncertain knowledge of future weather conditions, (2) uncertainty in the forecasting procedure, and (3) errors in the data. The forecast, therefore, must be interpreted not as a single value but rather as a range of values with specific probabilities of occurrence. The middle of the range is expressed by the 50% exceedance probability forecast, for which there is a 50% chance that the actual flow will be above, and a 50% chance that the actual flow will be below, this value. To describe the expected range around this 50% value, four other forecasts are provided, two smaller values (90% and 70% exceedance probability) and two larger values (30%, and 10% exceedance probability). For example, there is a 90% chance that the actual flow will be more than the 90% exceedance probability forecast. The others can be interpreted similarly.

The wider the spread among these values, the more uncertain the forecast. As the season progresses, forecasts become more accurate, primarily because a greater portion of the future weather conditions become known; this is reflected by a narrowing of the range around the 50% exceedance probability forecast. Users should take this uncertainty into consideration when making operational decisions by selecting forecasts corresponding to the level of risk they are willing to assume about the amount of water to be expected. If users anticipate receiving a lesser supply of water, or if they wish to increase their chances of having an adequate supply of water for their operations, they may want to base their decisions on the 90% or 70% exceedance probability forecasts, or something in between. On the other hand, if users are concerned about receiving too much water (for example, threat of flooding), they may want to base their decisions on the 30% or 10% exceedance probability forecasts, or something in between. Regardless of the forecast value users choose for operations, they should be prepared to deal with either more or less water. (Users should remember that even if the 90% exceedance probability forecast is used, there is still a 10% chance of receiving less than this amount.) By using the exceedance probability information, users can easily determine the chances of receiving more or less water.
How to Interpret the Streamflow Forecast Graphic:
This graphic provides a visual alternative to the forecast tables the NRCS has presented for years. It gives both the volume and percent of average of each of the five forecast exceedances. The five colored boxes represent each forecast’s five exceedances.

The center of each forecast exceedance box corresponds to that exceedance’s percent of average on the horizontal axis. In this case the green 50% exceedance forecast box is centered over 185% of average streamflow. If drier future conditions occur the orange box (90% exceedance) is 139% of average. If wetter future conditions occur the darker blue box (10% exceedance) is 232% of average. In some cases when exceedance volumes are similar, the width of the colored boxes gets squeezed. Still use the center of the box to determine its percent of average. The width of the box is irrelevant.

Boxes to the right of the gray 100% of average line represent above average volumes. Conversely, any boxes to the left of the gray 100% line represent below average volumes. In this case all forecast exceedances are for above average April-July volumes. Averages are based on the 1981-2010 period. The number inside or above each colored box represents the volume of that exceedance forecast in thousand acre-feet (KAF). In this case the green 50% exceedance forecast volume is 380 KAF which is centered above 185% of average. Volumes decrease with drier future conditions (left of green box) and increase with wetter conditions (right of green box).

Forecast graphics for other basins are available at: https://www.wcc.nrcs.usda.gov/wsf/Fcst_Chart/
This is an new product. Please submit likes, dislikes and questions to Daniel.Fisher@ak.usda.gov
Upper Yukon Basin

The Upper Yukon Basin retains above normal snowpack going into April and has more than twice the amount of snow as it did last year at this time. A lot of water will be coming down the Yukon this year.

The three snow courses near Dawson average 157% of normal with Midnight Dome Snow Course gaining a new 46-year record high and Grizzly Creek with a second highest all-time reading.

Likewise, two snow courses in the Stewart-Pelly drainages set new record highs. These were: Pelly Farm (37-years on record) and Calumet (44-years on record). The 12 sites in these basins average 138% of normal snowpack.

The eight sites in the White River Basin recorded an average of 136% of normal snowpack, ranging from 103% at Beaver Creek to 150% at Mt. Berdoe Snow Course. Last year, three of the eight sites were melted out at this time.

The snowpack in the basin above Whitehorse is also above normal. The ten sites in this location average 120% of normal. However, Atlin Lake Snow course was the sole snow course in the Yukon Territory to be measured with a below normal snowpack, only 56% of normal.
<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>Current</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>Current</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
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</thead>
<tbody>
<tr>
<td>Beaver Creek</td>
<td>2150</td>
<td>19</td>
<td>9</td>
<td>17</td>
<td>3.3</td>
<td>2.0</td>
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<tr>
<td>Burns Lake</td>
<td>3650</td>
<td>48</td>
<td>25</td>
<td>39</td>
<td>12.6</td>
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<td>Burwash Airstrip</td>
<td>2660</td>
<td>13</td>
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<td>10</td>
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<td>Calumet</td>
<td>4300</td>
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<td>Casino Creek</td>
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*Estimate
Streamflow Forecasts

### UPPER YUKON BASIN
Water Supply Forecasts
April 1, 2020

Forecast Exceedance Probabilities

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<th>Forecast Point</th>
<th>Forecast Period</th>
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#### Legend

- **95% or 90% Exceedance**
  - There is a 95%/90% chance that flows will exceed this volume.

- **70% Exceedance**
  - There is a 70% chance that flows will exceed this volume.

- **50% Exceedance**
  - There is a 50% chance that flows will exceed this volume.

- **30% Exceedance**
  - There is a 30% chance that flows will exceed this volume.

- **10% or 5% Exceedance**
  - There is a 10%/5% chance that flows will exceed this volume.

When selected, the following historic streamflow values and statistics will be shown:

- **Period of Record Minimum Streamflow KAF (Year)**
- **1981-2010 Normal Streamflow KAF**
- **Observed Streamflow KAF**
- **Period of Record Maximum Streamflow KAF (Year)**

Some forecasts may be for volumes that are regulated or influenced by diversions and water management.
Central Yukon Basin

The measured snowpack in the Central Yukon Basin remains above normal and made greater-than-normal gains during March.

Snowpack in the Yukon-Charlie is much above normal. Most of the sites in this area are recording the deepest readings in their 15-year records. The American Creek SNOTEL site near Eagle, AK is at a nine-year record high at 150% of normal.

The sites in the White Mountains are also above normal, ranging from 117% to 150% of average.

Snowpack in the Upper Porcupine Basin is slightly above normal.
### Snowpack Data

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<tr>
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<th>Water Content (in)</th>
<th>1981-2010 Normal</th>
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*Estimate

### Precipitation

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### Streamflow Forecasts

**CENTRAL YUKON BASIN**

**Water Supply Forecasts**

**April 1, 2020**

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<th>Forecast Point</th>
<th>Forecast Period</th>
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<th>Maximum(%)</th>
<th>Minimum(%)</th>
<th>50% Exceedance (KAF)</th>
<th>30yr Average (KAF)</th>
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Labels on chart represent volumes of water expressed in thousand acre-feet.

Legend:
- **95% or 90% Exceedance**
- **70% Exceedance**
- **50% Exceedance**
- **30% Exceedance**
- **10% or 5% Exceedance**

When selected, the following historic streamflow values and statistics will be shown:
- Period of Record Minimum Streamflow KAF (Year)
- 1981-2010 Normal Streamflow KAF
- Observed Streamflow KAF
- Period of Record Maximum Streamflow KAF (Year)

Some forecasts may be for volumes that are regulated or influenced by diversions and water management.
Tanana Basin

**Snowpack**

The snowpack in the Tanana Basin continues to have much above normal snowpack. Indeed, most locations made record gains in snowpack during March. Most locations gained 4 to 10 times normal snowpack during the month.

The only part of the basin with below normal snowpack is the very upper basin near the Wrangell Mountains in the Nabesna River Valley, but even this area made gains and is near 80% of normal.

Going down valley the snowpack quickly climbs to above normal stature. The five sites indexed near Delta Junction average 209% of normal. The Granite Creek SNOTEL site recorded its second highest reading in 32 years, just less than in 1991. Fielding Lake snow course set its new 60-year record high with 218% of normal snowpack.

The Fairbanks area made hearty gains over March and has solidly above normal snowpacks. The Chena basin sites averaged 188% of normal snowpack and the Chatanika Valley sites averaged 202% of normal.
## Snowpack Data

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<th>Site Name</th>
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<th>Current</th>
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*Estimate*

## Precipitation

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## Streamflow Forecasts

**TANANA BASIN**  
**Water Supply Forecasts**  
**April 1, 2020**

### Forecast Exceedance Probabilities

< | <------ Drier | Future Conditions | Wetter | ------->  

Labels on chart represent volumes of water expressed in thousand acre-feet.

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<th>Forecast Point</th>
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**Legend**

- **95% or 90% Exceedance**: There is a 95% chance that flows will exceed this volume.
- **70% Exceedance**: There is a 70% chance that flows will exceed this volume.
- **50% Exceedance**: There is a 50% chance that flows will exceed this volume.
- **30% Exceedance**: There is a 30% chance that flows will exceed this volume.
- **10% or 5% Exceedance**: There is a 10% or 5% chance that flows will exceed this volume.

When selected, the following historic streamflow values and statistics will be shown:

- Period of Record Minimum Streamflow KAF (Year)
- Period of Record Maximum Streamflow KAF (Year)
- 1981-2010 Normal Streamflow KAF
- Observed Streamflow KAF

Some forecasts may be for volumes that are regulated or influenced by diversions and water management.
Western Interior Basins

The Koyukuk Basin continues to have above normal snowpack, but less than last year. Bettles Field SNOTEL gained 1.0 inch of Snow Water Content over March and is 135% of normal.

The Kuskokwim basin continues to have much above normal snowpack, nearly twice normal. The three snow sites in this basin all set new record highs. Telaquana Snow Course made record gains during March and was measured with 7.6” of water content, 165% of normal, a 27-year record.

The Lower Yukon has above normal snowpack. The three Aerial Markers between Galena and Tanana recorded the deepest snowpack in their 14-year record. Similarly, down river from Galena, sites were measured with deeper-than-normal conditions, with estimated water contents averaging 148% of normal.
# Western Interior Basins

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*Estimate

## Precipitation

Inches Accumulated since October 1st

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<td>---</td>
<td>---</td>
</tr>
<tr>
<td>McGrath</td>
<td>340</td>
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<tr>
<td>Telaquana Lake</td>
<td>1275</td>
<td>11.9</td>
<td>6.8</td>
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</tr>
<tr>
<td><strong>Lower Yukon</strong></td>
<td></td>
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<tr>
<td>Galena AK</td>
<td>410</td>
<td>8.3</td>
<td>5.9</td>
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<tr>
<td>Hozatka Lake</td>
<td>206</td>
<td>6.7</td>
<td>6.0</td>
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</tr>
</tbody>
</table>
### Western Interior Basins

**Water Supply Forecasts**

April 1, 2020

#### Forecast Exceedance Probabilities

<table>
<thead>
<tr>
<th>Forecast Point</th>
<th>Forecast Period</th>
<th>Probabilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kuskokwim R at Crooked Creek</td>
<td>Apr-Jun</td>
<td>10,300, 11,700, 12,700, 13,700, 15,200</td>
</tr>
</tbody>
</table>

Labels on chart represent volumes of water expressed in thousand acre-feet.

#### Legend

<table>
<thead>
<tr>
<th>Exceedance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>95% or 90%</td>
<td>There is a 90%/90% chance that flows will exceed this volume</td>
</tr>
<tr>
<td>70%</td>
<td>There is a 70% chance that flows will exceed this volume</td>
</tr>
<tr>
<td>50%</td>
<td>There is a 50% chance that flows will exceed this volume</td>
</tr>
<tr>
<td>30%</td>
<td>There is a 30% chance that flows will exceed this volume</td>
</tr>
<tr>
<td>10% or 5%</td>
<td>There is a 10%/5% chance that flows will exceed this volume</td>
</tr>
</tbody>
</table>

When selected, the following historic streamflow values and statistics will be shown:

- **Period of Record Minimum Streamflow KAF (Year)**
- **1981-2010 Normal Streamflow KAF**
- **Observed Streamflow KAF**
- **Period of Record Maximum Streamflow KAF (Year)**

Some forecasts may be for volumes that are regulated or influenced by diversions and water management.
The Arctic continues to have near normal precipitation this winter, though different sites in March received both above and below normal precipitation. Snow depths at the SNOTEL sites along the Dalton Highway are slightly below average.

Kotzebue
Kelly Station SNOTEL made record gains in March and went from much below normal snowpack to now being 90% of its 12-year average.
### Arctic and Kotzebue Sound

#### Snowpack Data

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>Current</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>Current</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Atigun Pass</td>
<td>4800</td>
<td>39</td>
<td>49</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Imnaviat Creek</td>
<td>3050</td>
<td>23</td>
<td>20</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Kelly Station</td>
<td>310</td>
<td>27</td>
<td>35</td>
<td>---</td>
<td>5.5</td>
<td>10.7</td>
<td>---</td>
</tr>
<tr>
<td>Prudhoe Bay</td>
<td>30</td>
<td>13</td>
<td>10</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Sagwon</td>
<td>1000</td>
<td>12</td>
<td>23</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
</tbody>
</table>

*Estimate

#### Precipitation

Inches Accumulated since October 1st

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>This Year</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>% of Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arctic</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Atigun Pass</td>
<td>4800</td>
<td>5.8</td>
<td>6.6</td>
<td>5.6</td>
<td>104%</td>
</tr>
<tr>
<td>Imnaviat Creek</td>
<td>3050</td>
<td>2.6</td>
<td>3.1</td>
<td>2.9</td>
<td>90%</td>
</tr>
<tr>
<td>Prudhoe Bay</td>
<td>30</td>
<td>3.0</td>
<td>2.9</td>
<td>3.5</td>
<td>86%</td>
</tr>
<tr>
<td>Sagwon</td>
<td>1000</td>
<td>2.8</td>
<td>2.9</td>
<td>3.0</td>
<td>93%</td>
</tr>
</tbody>
</table>

Kotzebue Sound

| Kelly Station   | 310   | 7.4       | 9.2       | ---              | ---         |

#### Temperature

Temperature Utqiaġvik

[Graph showing monthly temperature departures from normal in degrees Fahrenheit]

December: 15°F above normal
February: 10°F below normal
April: 5°F above normal
### Streamflow Forecasts

#### April 1, 2020

**Forecast Exceedance Probabilities**

<table>
<thead>
<tr>
<th>Forecast Point</th>
<th>Forecast Period</th>
<th>435</th>
<th>605</th>
<th>720</th>
<th>835</th>
<th>1,000</th>
</tr>
</thead>
</table>
| Kuparuk River
Deadhorse | Apr-Jul         |     |     |     |     |       |
|                | May-Jul         | 430 | 600 | 715 | 830 | 1,000 |
| Sagavanirktok
River Pump Station 3 | Apr-Jul       |     |     |     | 760 | 860 |
|                | May-Jul         |     |     |     | 760 | 860 |

**Legend**

- **95% or 90% Exceedance**: There is a 95% or 90% chance that flows will exceed this volume.
- **70% Exceedance**: There is a 70% chance that flows will exceed this volume.
- **50% Exceedance**: There is a 50% chance that flows will exceed this volume.
- **30% Exceedance**: There is a 30% chance that flows will exceed this volume.
- **10% or 5% Exceedance**: There is a 10% or 5% chance that flows will exceed this volume.

When selected, the following historic streamflow values and statistics will be shown:

- **Period of Record Minimum Streamflow KAF (Year)**
- **1981-2010 Normal Streamflow KAF**
- **Observed Streamflow KAF**
- **Period of Record Maximum Streamflow KAF (Year)**
Snowpack

The Seward Peninsula received above normal snow during March. Snowpack is less than the last three years in the area and has similar snow depths to 2016.

Precipitation

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>This Year</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>% of Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Norton Sound</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pargon Creek</td>
<td>100</td>
<td>6.7</td>
<td>8.0</td>
<td>5.9</td>
<td>114%</td>
</tr>
<tr>
<td>Rocky Point</td>
<td>250</td>
<td>5.2</td>
<td>6.7</td>
<td>5.4</td>
<td>96%</td>
</tr>
</tbody>
</table>
Norton Sound/Bristol Bay

Snowpack Data

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>Snow Depth (in)</th>
<th></th>
<th>Water Content (in)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Current</td>
<td>Last Year</td>
<td>1981-2010 Normal</td>
<td>Current</td>
</tr>
<tr>
<td>Norton Sound</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Johnsons Camp</td>
<td>25</td>
<td>12</td>
<td>41</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Pargon Creek</td>
<td>100</td>
<td>---</td>
<td>24</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Rocky Point</td>
<td>250</td>
<td>26</td>
<td>46</td>
<td>---</td>
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</tr>
</tbody>
</table>

*Estimate

Precipitation-Bethel

Bethel Temperature
Snowpack

Snowpack in the Copper Basin varies from below to much above normal. The snowpack along the Alaska Range is the heartiest, with the four sites in the area averaging 170% of normal. Paxson Snow Course recorded the second largest snowpack in 39 years-second to 1990. The nearby Fielding Lake snow course set a new 60-year record high.

The Talkeetna Mountain sites were also above normal, while the snowpack in the Wrangell Mountains, Chugach Mountains, and on the valley floor were generally near normal. Snow Courses in these two areas ranged from 68% to 125% of normal.
## Snowpack Data

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
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<th></th>
<th></th>
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<tbody>
<tr>
<td>Chistochina</td>
<td>1950</td>
<td>21</td>
<td>13</td>
<td>20</td>
<td>3.1</td>
<td>3.6</td>
<td>3.5</td>
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<td>14</td>
<td>0</td>
<td>15</td>
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<td>0.0</td>
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<tr>
<td>Copper Center</td>
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<td>25</td>
<td>8</td>
<td>---</td>
<td>5.4</td>
<td>2.6</td>
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<tr>
<td>Dadina Lake</td>
<td>2160</td>
<td>24</td>
<td>12</td>
<td>28</td>
<td>4.7</td>
<td>3.3</td>
<td>6.3</td>
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<tr>
<td>Fielding Lake S.C.</td>
<td>3000</td>
<td>76</td>
<td>30</td>
<td>40</td>
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<td>59</td>
<td>30</td>
<td>---</td>
<td>17.4</td>
<td>7.4</td>
<td>---</td>
<td></td>
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<tr>
<td>Gulkana River</td>
<td>1830</td>
<td>22</td>
<td>5</td>
<td>---</td>
<td>5.7</td>
<td>7.4</td>
<td>2.4</td>
<td>---</td>
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<tr>
<td>Haggard Creek</td>
<td>2540</td>
<td>34</td>
<td>23</td>
<td>28</td>
<td>7.1</td>
<td>5.0</td>
<td>5.5</td>
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<td>36</td>
<td>32</td>
<td>30</td>
<td>7.6</td>
<td>7.6</td>
<td>6.9</td>
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<tr>
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<td>36</td>
<td>23</td>
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<td>16</td>
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<td>0.0</td>
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<td>15</td>
<td>26</td>
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<td>3.1</td>
<td>5.2</td>
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<td>49</td>
<td>30</td>
<td>---</td>
<td>14.2</td>
<td>9.9</td>
<td>---</td>
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<tr>
<td>May Creek</td>
<td>1610</td>
<td>24</td>
<td>8</td>
<td>---</td>
<td>5.5</td>
<td>2.7</td>
<td>5.5</td>
<td></td>
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<tr>
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<td>27</td>
<td>8.1</td>
<td>3.5</td>
<td>6.2</td>
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<tr>
<td>Monsoon Lake</td>
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<td>20</td>
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<td>8.1</td>
<td>5.5</td>
<td>6.4</td>
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<tr>
<td>Nicks Valley</td>
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<td>131</td>
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<td>---</td>
<td>---</td>
<td></td>
</tr>
<tr>
<td>Notch</td>
<td>2643</td>
<td>17</td>
<td>0</td>
<td>---</td>
<td>---</td>
<td>3.6</td>
<td>0.0</td>
<td>---</td>
</tr>
<tr>
<td>Paxson</td>
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<td>47</td>
<td>26</td>
<td>31</td>
<td>10.9</td>
<td>6.5</td>
<td>6.9</td>
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<tr>
<td>Sanford River</td>
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<td>10</td>
<td>28</td>
<td>7.5</td>
<td>3.2</td>
<td>6.0</td>
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<tr>
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<td>1990</td>
<td>23</td>
<td>8</td>
<td>23</td>
<td>4.7</td>
<td>2.3</td>
<td>4.8</td>
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<tr>
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<td>0</td>
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<td>5.3</td>
<td>0.0</td>
<td>3.8</td>
<td></td>
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<tr>
<td>Tebay Lake</td>
<td>1930</td>
<td>60</td>
<td>---</td>
<td>---</td>
<td>17.1</td>
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<td>Tolsona Creek</td>
<td>2000</td>
<td>25</td>
<td>12</td>
<td>22</td>
<td>5.3</td>
<td>3.0</td>
<td>4.2</td>
<td></td>
</tr>
<tr>
<td>Tsaina River</td>
<td>1650</td>
<td>52</td>
<td>47</td>
<td>56</td>
<td>15.8</td>
<td>15.4</td>
<td>17.0</td>
<td></td>
</tr>
<tr>
<td>Twin Lakes</td>
<td>2400</td>
<td>23</td>
<td>10</td>
<td>26</td>
<td>5.7</td>
<td>3.0</td>
<td>6.4</td>
<td></td>
</tr>
<tr>
<td>Upper Tsaina River</td>
<td>1750</td>
<td>80</td>
<td>57</td>
<td>---</td>
<td>23.4</td>
<td>21.3</td>
<td>19.4</td>
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<td>Worthington Glacier</td>
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<td>72</td>
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<td>75</td>
<td>26.0</td>
<td>24.4</td>
<td>24.6</td>
<td></td>
</tr>
</tbody>
</table>

*Estimate

## Precipitation

Inches Accumulated since October 1st

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>This Year</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>% of Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gulkana River</td>
<td>1830</td>
<td>6.0</td>
<td>3.7</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>May Creek</td>
<td>1610</td>
<td>6.6</td>
<td>6.0</td>
<td>6.1</td>
<td>108%</td>
</tr>
<tr>
<td>Upper Tsaina River</td>
<td>1750</td>
<td>25.5</td>
<td>33.1</td>
<td>27.0</td>
<td>94%</td>
</tr>
</tbody>
</table>
Streamflow Forecasts

COPPER BASIN
Water Supply Forecasts
April 1, 2020

Forecast Exceedance Probabilities
< ---- Drier ---- Future Conditions ---- Wetter ---- >
Labels on chart represent volumes of water expressed in thousand acre-feet.

<table>
<thead>
<tr>
<th>Forecast Point</th>
<th>Forecast Period</th>
<th>425</th>
<th>520</th>
<th>580</th>
<th>645</th>
<th>740</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gulkana R at Sourdough</td>
<td>Apr-Jul</td>
<td>90%</td>
<td>100%</td>
<td>110%</td>
<td>120%</td>
<td>130%</td>
</tr>
</tbody>
</table>

Legend

<table>
<thead>
<tr>
<th>95% or 90% Exceedance</th>
<th>70% Exceedance</th>
<th>50% Exceedance</th>
<th>30% Exceedance</th>
<th>10% or 5% Exceedance</th>
</tr>
</thead>
<tbody>
<tr>
<td>There is a 95%/90% chance that flows will exceed this volume</td>
<td>There is a 70% chance that flows will exceed this volume</td>
<td>There is a 50% chance that flows will exceed this volume</td>
<td>There is a 30% chance that flows will exceed this volume</td>
<td>There is a 10%/5% chance that flows will exceed this volume</td>
</tr>
</tbody>
</table>

When selected, the following historic streamflow values and statistics will be shown.

- Period of Record Minimum Streamflow KAF (Year)
- 1981-2010 Normal Streamflow KAF
- Observed Streamflow KAF
- Period of Record Maximum Streamflow KAF (Year)

Some forecasts may be for volumes that are regulated or influenced by diversions and water management.
Big storms continued to hit the Susitna Valley during March. Snowpack in this area is above normal with the 24 snow sites averaging 155% of normal. Both Tokositna SNOTEL and Independence Mine SNOTEL are reporting the greatest April 1st SWE in the 14 and 17-year records. On the western side of the Talkeetna Mountains, 2005 was the last year most locations recorded a more substantial snowpack. East of the Talkeetnas, snow is still above normal, but not so amply. Lake Louise Snow Course is 111% of normal.
### Precipitation

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>This Year</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>% of Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alexander Lake</td>
<td>160</td>
<td>19.9</td>
<td>20.7</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Frostbite Bottom</td>
<td>2700</td>
<td>23.8</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Independence Mine</td>
<td>3550</td>
<td>27.5</td>
<td>17.3</td>
<td>15.3</td>
<td>180%</td>
</tr>
<tr>
<td>Monahan Flat</td>
<td>2710</td>
<td>12.7</td>
<td>8.6</td>
<td>8.1</td>
<td>157%</td>
</tr>
<tr>
<td>Spring Creek</td>
<td>580</td>
<td>9.4</td>
<td>7.0</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Susitna Valley High</td>
<td>375</td>
<td>20.1</td>
<td>12.8</td>
<td>11.9</td>
<td>169%</td>
</tr>
<tr>
<td>Tokositna Valley</td>
<td>850</td>
<td>33.4</td>
<td>28.8</td>
<td>19.0</td>
<td>176%</td>
</tr>
</tbody>
</table>

### Snowpack Data

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>Current</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>Current</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
</tr>
</thead>
<tbody>
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*Estimate
### Streamflow Forecasts

#### MATANUSKA - SUSITNA BASINS
**Water Supply Forecasts**  
April 1, 2020

<table>
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<tr>
<th>Forecast Point</th>
<th>Forecast Period</th>
<th>Percent of Average (30 Yr Period)</th>
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#### Legend
- **95% or 90% Exceedance**: There is a 95% or 90% chance that flows will exceed this volume.
- **70% Exceedance**: There is a 75% chance that flows will exceed this volume.
- **50% Exceedance**: There is a 50% chance that flows will exceed this volume.
- **30% Exceedance**: There is a 30% chance that flows will exceed this volume.
- **10% or 5% Exceedance**: There is a 10% or 5% chance that flows will exceed this volume.

When selected, the following historic streamflow values and statistics will be shown:
- Period of Record Minimum Streamflow KAF (Year)
- 1981-2010 Normal Streamflow KAF
- Observed Streamflow KAF
- Period of Record Maximum Streamflow KAF (Year)

Some forecasts may be for volumes that are regulated or influenced by diversions and water management.
The Northern Cook Inlet area has received greater-than-average gains in snowpack during March. The snowpack is variable, with locations ranging from 54% to 124% of normal. The twelve measurement sites average 94% of normal.
# Snowpack Data

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>Current</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>Current</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
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<td>Spring Creek</td>
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*Estimate

# Precipitation

Inches Accumulated since October 1st

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<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>% of Normal</th>
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<td>Moraine</td>
<td>2100</td>
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<td>Mt. Alyeska</td>
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Streamflow Forecasts

**NORTHERN COOK INLET**

**Water Supply Forecasts**

April 1, 2020

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<th>85%</th>
<th>90%</th>
<th>95%</th>
<th>100%</th>
<th>105%</th>
<th>110%</th>
<th>115%</th>
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<th>125%</th>
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**Legend**

- **95% or 90% Exceedance**: There is a 95% or 90% chance that flows will exceed this volume.
- **75% Exceedance**: There is a 75% chance that flows will exceed this volume.
- **50% Exceedance**: There is a 50% chance that flows will exceed this volume.
- **30% Exceedance**: There is a 30% chance that flows will exceed this volume.
- **10% or 5% Exceedance**: There is a 10% or 5% chance that flows will exceed this volume.

When selected, the following historic streamflow values and statistics will be shown:

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- **1981-2010 Normal Streamflow KAF**
- **Observed Streamflow KAF**
- **Period of Record Maximum Streamflow KAF (Year)**

Some forecasts may be for volumes that are regulated or influenced by diversions and water management.
Snowpack

With the exception of the northwest portion of the peninsula, the Kenai snowpack made trifling gains during the month. The region had only 1/3 normal March precipitation. The 19 measured sites in this area averaged 64% of normal, only slightly better than last year. Many locations reported the 3rd or fourth lowest snowpack in the records.
# Kenai Peninsula

## Snowpack Data

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<th>Site Name</th>
<th>Elev.</th>
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<th>1981-2010 Normal</th>
<th>Current</th>
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<td>1400</td>
<td>28</td>
<td>22</td>
<td>---</td>
<td>6.9</td>
<td>6.2</td>
<td>11.1</td>
</tr>
<tr>
<td>Turnagain Pass</td>
<td>1880</td>
<td>62</td>
<td>67</td>
<td>---</td>
<td>18.9</td>
<td>24.5</td>
<td>33.4</td>
</tr>
</tbody>
</table>

*Estimate
**Precipitation**

Inches Accumulated since October 1st

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>This Year</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>% of Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anchor River Divide</td>
<td>1653</td>
<td>23.6</td>
<td>23.9</td>
<td>16.9</td>
<td>140%</td>
</tr>
<tr>
<td>Cooper Lake</td>
<td>1200</td>
<td>27.7</td>
<td>38.9</td>
<td>25.2</td>
<td>110%</td>
</tr>
<tr>
<td>Exit Glacier</td>
<td>400</td>
<td>49.9</td>
<td>71.0</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Grandview</td>
<td>1100</td>
<td>37.1</td>
<td>55.0</td>
<td>40.3</td>
<td>92%</td>
</tr>
<tr>
<td>Grouse Creek Divide</td>
<td>700</td>
<td>35.2</td>
<td>53.2</td>
<td>37.5</td>
<td>94%</td>
</tr>
<tr>
<td>Kenai Moose Pens</td>
<td>300</td>
<td>11.6</td>
<td>10.2</td>
<td>8.2</td>
<td>141%</td>
</tr>
<tr>
<td>Lower Kachemak Creek</td>
<td>1915</td>
<td>---</td>
<td>49.8</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Mcneil Canyon</td>
<td>1320</td>
<td>18.8</td>
<td>20.0</td>
<td>16.6</td>
<td>113%</td>
</tr>
<tr>
<td>Middle Fork Bradley</td>
<td>2300</td>
<td>42.6</td>
<td>48.4</td>
<td>32.5</td>
<td>131%</td>
</tr>
<tr>
<td>Nuka Glacier</td>
<td>1250</td>
<td>---</td>
<td>74.0</td>
<td>54.3</td>
<td>---</td>
</tr>
<tr>
<td>Port Graham</td>
<td>300</td>
<td>52.8</td>
<td>52.8</td>
<td>48.4</td>
<td>109%</td>
</tr>
<tr>
<td>Summit Creek</td>
<td>1400</td>
<td>18.2</td>
<td>22.5</td>
<td>15.8</td>
<td>115%</td>
</tr>
<tr>
<td>Turnagain Pass</td>
<td>1880</td>
<td>31.5</td>
<td>51.2</td>
<td>40.5</td>
<td>78%</td>
</tr>
</tbody>
</table>

**Streamflow Forecasts**

KENAI PENINSULA
Water Supply Forecasts
April 1, 2020

Forecast Exceedance Probabilities

<table>
<thead>
<tr>
<th>Forecast Point</th>
<th>Forecast Period</th>
<th>715</th>
<th>810</th>
<th>875</th>
<th>935</th>
<th>1,030</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kenai R at</td>
<td>Apr-Jul</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooper Landing</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Legend**

- **95% or 90%** Exceedance
- **70%** Exceedance
- **50%** Exceedance
- **30%** Exceedance
- **16% or 5%** Exceedance

When selected, the following historic streamflow values and statistics will be shown:

- **Period of Record Minimum Streamflow KAF (Year)**
- **1981-2010 Normal Streamflow KAF**
- **Observed Streamflow KAF**
- **Period of Record Maximum Streamflow KAF (Year)**

Some forecasts may be for volumes that are regulated or influenced by diversions and water management.

<table>
<thead>
<tr>
<th>Forecast Point</th>
<th>Forecast Period</th>
<th>% of Average</th>
<th>Maximum(%)</th>
<th>Minimum(%)</th>
<th>50% Exceedance (KAF)</th>
<th>30yr Average (KAF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bradley Lake Inflow</td>
<td>Apr-Jul</td>
<td>102</td>
<td>120</td>
<td>82</td>
<td>200</td>
<td>197</td>
</tr>
</tbody>
</table>
Western Gulf – Prince William Sound

Snowpack

Prince William Sound had less than half normal precipitation during March. Snowpack remains near normal on the eastern Sound, more robust than the last two years.
Western Gulf — Prince William Sound

Snowpack Data

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Current</td>
<td>Last Year</td>
<td></td>
</tr>
<tr>
<td>Esther Island</td>
<td>50</td>
<td>40</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Exit Glacier S.C.</td>
<td>400</td>
<td>31</td>
<td>26</td>
<td>51</td>
<td>10.0</td>
<td>8.7</td>
<td>18.2</td>
<td></td>
</tr>
<tr>
<td>Exit Glacier SNOTEL</td>
<td>400</td>
<td>32</td>
<td>26</td>
<td>---</td>
<td>9.2</td>
<td>9.8</td>
<td>18.4</td>
<td></td>
</tr>
<tr>
<td>Lowe River</td>
<td>600</td>
<td>52</td>
<td>37</td>
<td>50</td>
<td>17.2</td>
<td>12.8</td>
<td>17.0</td>
<td></td>
</tr>
<tr>
<td>Mt. Eyak</td>
<td>1405</td>
<td>68</td>
<td>26</td>
<td>---</td>
<td>22.5</td>
<td>8.4</td>
<td>28.4</td>
<td></td>
</tr>
<tr>
<td>Sugarloaf Mtn</td>
<td>550</td>
<td>68</td>
<td>44</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Valdez</td>
<td>50</td>
<td>48</td>
<td>31</td>
<td>51</td>
<td>16.2</td>
<td>10.6</td>
<td>15.7</td>
<td></td>
</tr>
</tbody>
</table>

*Estimate

Precipitation

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>This Year</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>% of Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Esther Island</td>
<td>50</td>
<td>79.0</td>
<td>118.3</td>
<td>80.5</td>
<td>98%</td>
</tr>
<tr>
<td>Exit Glacier</td>
<td>400</td>
<td>49.9</td>
<td>71.0</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Grouse Creek Divide</td>
<td>700</td>
<td>35.2</td>
<td>53.2</td>
<td>37.5</td>
<td>94%</td>
</tr>
<tr>
<td>Mt. Eyak</td>
<td>1405</td>
<td>76.8</td>
<td>95.3</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Nuchek</td>
<td>50</td>
<td>85.7</td>
<td>113.2</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Port San Juan</td>
<td>50</td>
<td>72.6</td>
<td>102.3</td>
<td>75.7</td>
<td>96%</td>
</tr>
<tr>
<td>Strawberry Reef</td>
<td>30</td>
<td>42.5</td>
<td>59.1</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Sugarloaf Mtn</td>
<td>550</td>
<td>50.3</td>
<td>55.8</td>
<td>40.5</td>
<td>124%</td>
</tr>
<tr>
<td>Tatitlek</td>
<td>50</td>
<td>47.8</td>
<td>59.3</td>
<td>40.0</td>
<td>120%</td>
</tr>
</tbody>
</table>

*Estimate
Southeast

Snowpack

Even though Southeast Alaska received below normal precipitation during March, the snowpack remains well above normal, at least in the northern half of Southeast. Measured sites recorded the most stout snowpacks since 2013 or 2012. The five indexed sites in this region averaged 131% of normal.
## Southeast

### Snowpack Data

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>Current</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>Current</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cropley Lake</td>
<td>1650</td>
<td>108</td>
<td>34</td>
<td>83</td>
<td>39.0</td>
<td>12.8</td>
<td>30.4</td>
</tr>
<tr>
<td>Eagle Crest</td>
<td>1200</td>
<td>84</td>
<td>20</td>
<td>50</td>
<td>30.0</td>
<td>6.4</td>
<td>18.6</td>
</tr>
<tr>
<td>Fish Creek</td>
<td>500</td>
<td>26</td>
<td>0</td>
<td>11</td>
<td>8.6</td>
<td>0.0</td>
<td>2.7</td>
</tr>
<tr>
<td>Flower Mountain</td>
<td>2510</td>
<td>69</td>
<td>42</td>
<td>---</td>
<td>24.8</td>
<td>15.6</td>
<td>---</td>
</tr>
<tr>
<td>Heen Latinee</td>
<td>2065</td>
<td>68</td>
<td>16</td>
<td>---</td>
<td>25.5</td>
<td>5.3</td>
<td>---</td>
</tr>
<tr>
<td>Institute Creek</td>
<td>1350</td>
<td>---</td>
<td>1</td>
<td>---</td>
<td>---</td>
<td>0.3</td>
<td>---</td>
</tr>
<tr>
<td>Long Lake</td>
<td>850</td>
<td>117</td>
<td>53</td>
<td>---</td>
<td>45.3</td>
<td>20.8</td>
<td>39.4</td>
</tr>
<tr>
<td>Moore Creek Bridge SNOTEL</td>
<td>2250</td>
<td>86</td>
<td>39</td>
<td>---</td>
<td>---</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Moore Creek Bridge S.C.</td>
<td>2250</td>
<td>64</td>
<td>30</td>
<td>65</td>
<td>24.4</td>
<td>10.6</td>
<td>21.3</td>
</tr>
<tr>
<td>Petersburg Reservoir</td>
<td>550</td>
<td>---</td>
<td>0</td>
<td>1</td>
<td>---</td>
<td>0.0</td>
<td>0.2</td>
</tr>
<tr>
<td>Petersburg Ridge, S.</td>
<td>1650</td>
<td>---</td>
<td>32</td>
<td>74</td>
<td>---</td>
<td>12.1</td>
<td>27.4</td>
</tr>
<tr>
<td>Rainbow Falls</td>
<td>500</td>
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<td>0</td>
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<td>0.0</td>
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<tr>
<td>Speel River</td>
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<td>66</td>
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<tr>
<td>West Creek</td>
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<td>13.8</td>
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</tbody>
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*Estimate

### Precipitation Data

<table>
<thead>
<tr>
<th>Site Name</th>
<th>Elev.</th>
<th>This Year</th>
<th>Last Year</th>
<th>1981-2010 Normal</th>
<th>% of Normal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Heen Latinee</td>
<td>2065</td>
<td>35.1</td>
<td>36.5</td>
<td>---</td>
<td>---</td>
</tr>
<tr>
<td>Long Lake</td>
<td>850</td>
<td>110.0</td>
<td>79.9</td>
<td>97.7</td>
<td>113%</td>
</tr>
<tr>
<td>Moore Creek Bridge</td>
<td>2250</td>
<td>30.9</td>
<td>25.1</td>
<td>27.4</td>
<td>113%</td>
</tr>
</tbody>
</table>

### Streamflow Forecast

<table>
<thead>
<tr>
<th>Forecast Point</th>
<th>Forecast Period</th>
<th>% of Average</th>
<th>Maximum(%)</th>
<th>Minimum(%)</th>
<th>50% Exceedance (KAF)</th>
<th>30yr Average (KAF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Taiya River near Skagway</td>
<td>Apr-Jul</td>
<td>110</td>
<td>130</td>
<td>89</td>
<td>510</td>
<td>464</td>
</tr>
</tbody>
</table>
For further information contact:

NRCS Water and Climate Center web site: http://www.wcc.nrcs.usda.gov/
Alaska Meteor Burst Communication System (AMBCS) web site: www.ambcs.org

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