

## Snow Survey and Water Supply Bulletin – June 15<sup>th</sup>, 2022

The June 15<sup>th</sup> snow survey is now complete. Data from nine manual snow courses and 88 automated snow weather stations around the province (collected by the Ministry of Environment and Climate Change Strategy's Snow Survey Program, BC Hydro and partners), and climate data from Environment and Climate Change Canada and the provincial Climate Related Monitoring Program have been used to form the basis of the following report<sup>1</sup>.

### Executive Summary

The primary purpose of the Snow Survey and Water Supply Bulletins in June is to assess the progression of spring snowmelt as either seasonal, earlier than normal, or delayed; this year has been delayed. Although June 15<sup>th</sup> is the final snow bulletin for 2022, the River Forecast Centre will continue to monitor snow conditions at the automated snow weather stations throughout the province.

Flood risk remains high due to delayed melt of the mountain snow pack throughout the province and continued unsettled weather conditions. The June 15<sup>th</sup>, 2022 snow pack is well above normal, increasing to 198% of normal (the average of all snow measurements across B.C.) over the past two weeks (where June 1<sup>st</sup> was 165%). All regions of the province with snow measurements have snow basin indices greater than 140% of normal, indicating continued risk throughout the Interior from snowmelt related flooding, especially in combination with heavy rain.

Caution should be taken in interpreting the snow basin index values at this time of year as they compare to a normal value that is typically dropping quickly. It is not unusual to have very high values for June 1<sup>st</sup> or June 15<sup>th</sup>. The most recent examples of very high June values were 2011 & 2012.

This year, five stations measured record high snow values for June 15<sup>th</sup>, including sites in the South Thompson, Upper Columbia, and West Kootenay.

Approximately three-quarters of the accumulated snow pack has typically melted by June 15<sup>th</sup> on average (according to data from automated snow weather stations). Snowmelt was delayed by two to four weeks due to extended cooler weather in April and May, where approximately half of the snow pack at automated snow weather stations melted by June 15<sup>th</sup>.

Snow pack is only one factor related to freshet flood risk. Weather conditions for June through July will determine the timing, magnitude, and rate of snowmelt, where heavy rainfall events can exacerbate snowmelt-driven flows. Due to the significant delay of snowmelt, the freshet flood risk may extend into late July for some regions.

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### Weather

The warmest temperatures of the year occurred during the first few days of June, initiating snowmelt at mid and higher elevations throughout the province. The largest temperature anomalies relative to normal occurred in northern regions of British Columbia. Warm weather was immediately followed by unsettled conditions in the South Interior and Bulkley/Skeena region, which contributed additional precipitation into observed river systems rises.

A cold low-pressure system impacted the South Interior from January 13-14 and resulted in additional snow accumulation at snow stations in the Kootenays. Heavy precipitation totals (60-80 mm) were measured at high elevation stations in the Okanagan, South Thompson, Boundary and West Kootenay during the event.

The upcoming weather forecast is predicting continued unsettled conditions throughout the province. In the Interior, June is typically the wettest month of the year. There is no sign of an extended heat event in the near future.

### Snowpack

Snow basin indices for June 15<sup>th</sup>, 2022 range from a low of 170% of normal in the Peace to a high of 1331% in the Stikine (Table 1 and Figures 1 + 2). The province has well above normal snow pack for June 15<sup>th</sup>, with the average of all snow measurements across the province at 198%, increasing from 165% on June 1<sup>st</sup>. All regions of the province with snow measurements have well above normal snow basin indices (>140%). It is important to note the total snow depth is not increasing. Instead, this high anomaly happens in June during years of delayed snowmelt when current snow levels are compared to normal values that are small due to more advanced snowmelt. The most recent years with very high snow relative to normal in June are 2011 & 2012. Several regions do not have a snow basin index for June 15<sup>th</sup> as measurements were either not taken or were snow-free.

The average of all snow measurements for the entire Fraser River basin (e.g., upstream of the Lower Mainland and inclusive of Upper Fraser West, Upper Fraser East, Nechako, Middle Fraser, Lower Fraser, North Thompson and South Thompson) is 198%, increasing from 164% on June 1<sup>st</sup>.

As the Middle Fraser encompasses a large and geographically diverse area, the River Forecast Centre has divided the region into sub-basins to analyze snow conditions and potential flood risks in localised areas. The Bridge region measures 203% of normal, while the Quesnel area (and surrounding Cariboo Mountains) is 311%. The Lower Thompson and the Chilcotin sub-basins did not have measurements for June 15<sup>th</sup>, therefore an index is not

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available. Please review the full summary data tables at the end of this report for further interpretation.

**Table 1 - BC Snow Basin Indices – June 15, 2022**

| Basin             | % of Normal<br>(June 1 <sup>st</sup> value) | Basin                 | % of Normal<br>(June 1 <sup>st</sup> value) |
|-------------------|---------------------------------------------|-----------------------|---------------------------------------------|
| Upper Fraser West | N/A (N/A)                                   | Okanagan              | 243 (153)                                   |
| Upper Fraser East | 261 (185)                                   | Boundary              | 181 (173)                                   |
| Nechako           | 324 (160)                                   | Similkameen           | 210 (165)                                   |
| Middle Fraser     | 254 (188)                                   | South Coast           | 182 (153)                                   |
| Lower Thompson*   | N/A (N/A)                                   | Vancouver Island      | 186 (169)                                   |
| Bridge*           | 203 (205)                                   | Central Coast         | 294 (249)                                   |
| Chilcotin*        | N/A (N/A)                                   | Skagit                | N/A (N/A)                                   |
| Quesnel*          | 311 (182)                                   | Peace                 | 170(161)                                    |
| Lower Fraser      | 159 (144)                                   | Skeena-Nass           | 177 (160)                                   |
| North Thompson    | 232 (175)                                   | Stikine               | 1331 (289)                                  |
| South Thompson    | 186 (157)                                   | Liard                 | N/A (N/A)                                   |
| Upper Columbia    | 212 (165)                                   | Northwest             | N/A (N/A)                                   |
| West Kootenay     | 215 (170)                                   | Fraser (Entire basin) | 198 (164)                                   |
| East Kootenay     | 177 (166)                                   | British Columbia      | 198 (165)                                   |

\* sub-basin of Middle Fraser

By June 15<sup>th</sup>, approximately three-quarters of the accumulated snow pack has melted on average (according to data from automated snow weather stations). Due to extended cooler temperatures in April and May, snowmelt was delayed by two to four weeks throughout the province. Snow pack across all automated snow weather stations has melted by approximately 50% on June 15<sup>th</sup> compared to peak snow accumulation (which occurred on April 28<sup>th</sup>).



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There are five snow stations with period of record highs for June 15<sup>th</sup>:

- 1F06P Celistia Mountain: 557 mm SWE (312% of normal) – period of record 15 years (SOUTH THOMPSON)
- 2A21P Molson Creek: 1394 mm SWE (267% of normal) – period of record 39 years (UPPER COLUMBIA)
- 2A30P Colpitti Creek: 758 mm SWE – period of record 13 years (UPPER COLUMBIA)
- 2B08P St. Leon Creek: 1354 mm SWE (268% of normal) – period of record 28 years (WEST KOOTENAY)
- 2D14P Redfish Creek: 1793 mm SWE (194% of normal) – period of record 20 years (WEST KOOTENAY)

### Streamflow

A moderate warming pattern during the first few days of June initiated significant snow melt at mid and higher elevations. Weather patterns transitioned to ongoing unsettled conditions throughout the province, resulting in several significant precipitation events. Most rivers throughout the province have risen to normal to above normal levels as of June 15<sup>th</sup>. Rivers are currently extremely vulnerable to heavy rainfall events because flows are relatively high.

Visit the River Forecast Centre [Flood Warnings and Advisories](#) web page to view most up-to-date warnings and advisories.

Current flow conditions on Water Survey of Canada hydrometric gauges can be viewed at the [Map of Current Streamflow Conditions for All Real-time WSC Stations in BC](#).

### Outlook

Based on the June 15<sup>th</sup> Snow Basin Indices, above normal snow pack exists for all regions of the province. This indicates a continued significant risk for high freshet flows, especially if adverse weather occurs. Due to the significant delay of snowmelt, the freshet flood risk may extend into late July for some regions and for the largest river systems such as the Fraser River.

Regions that remain at relatively high risk due to snow pack include (but are not exclusive to) the Upper Fraser, Cariboo Mountains, North Thompson, South Thompson, Lower Fraser, Upper Columbia, the Kootenays, and the northern regions of the province. Other Interior regions like the Okanagan, Similkameen, Nicola and Peace remain at risk to extreme rainfall events.

Typically, rivers on Vancouver Island and along coastal B.C. reach flood level flows from heavy rain events in the fall and winter. These areas are unlikely to experience flooding in June or July from snowmelt unless an extreme rainfall event occurs.

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The upcoming weather forecast is predicting continued unsettled conditions throughout the province. The significant risk over the short-term is for potential heavy rain to fall on a melting snow pack.

Situational awareness is necessary to understand flood risk given current conditions; individuals are encouraged to stay in touch with the most recent hydrological model results through the [CLEVER Model](#) map.

The [WARNS Model](#) provides additional discharge and water level forecasts for the Fraser River and its major tributaries.

When the lower Fraser River reaches higher levels, the Province provides regular water-level forecasts for the lower Fraser River with the [10-Day Lower Fraser River Water Level Forecast](#).

Once a week (and possibly more frequently during times of high flood risk) the River Forecast Centre provides an update on the overall freshet conditions in the [Provincial Freshet Update Dashboard](#). It is typically updated late Thursday afternoon.

### Summary

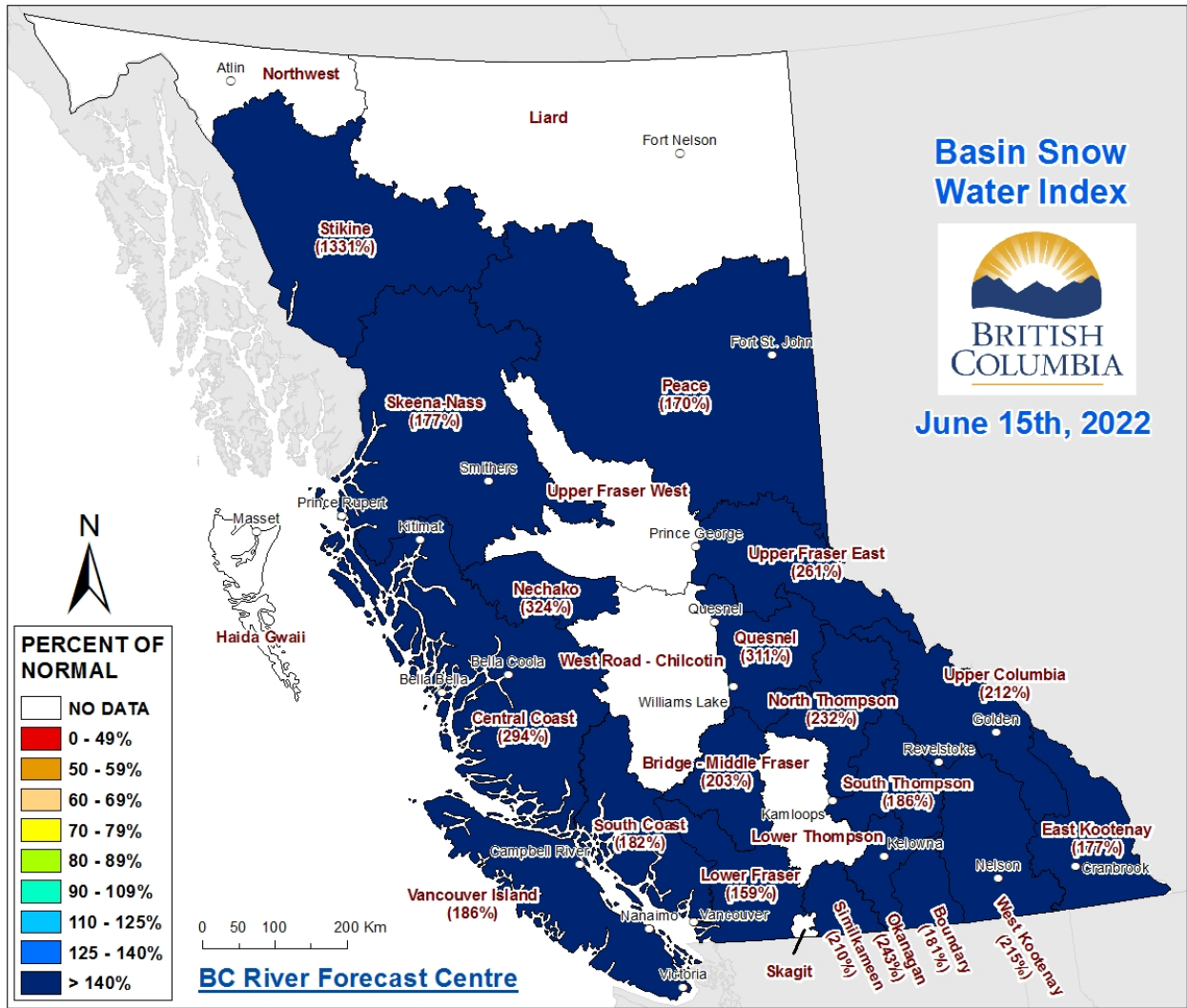
Snow pack throughout the province is well above normal. The provincial average for all snow measurements across the province is 198% of normal, and the Fraser River is 198%. These large snow basin numbers reflect a delay in melt, and not continued accumulation of snow from peak levels. Flood risk remains high due to the delayed melt of the mountain snow pack throughout the province. Snow pack is only one factor related to freshet flood risk. Weather conditions through June and July will determine the timing, magnitude, and rate of snowmelt, and heavy rainfall events can exacerbate the situation. The flood season is not over and may extend into late July for some regions.

This is the final snow bulletin for the 2022 season; the first snow bulletin of the 2023 season will be released in early January 2023. Thank you to our partners for their contributions to these bulletins.

BC River Forecast Centre  
June 16, 2022

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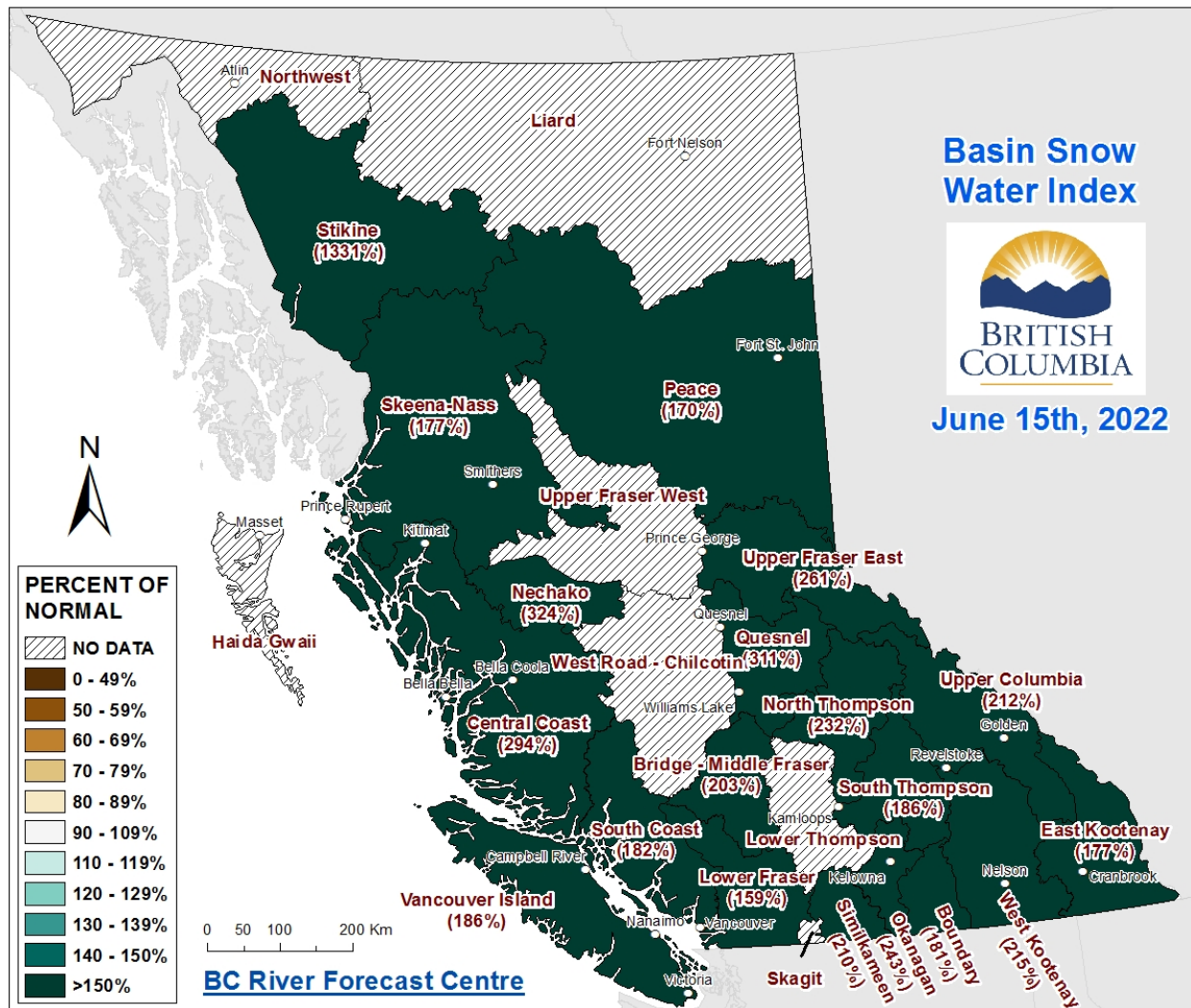
**Figure 1: Basin Snow Water Index – June 15<sup>th</sup>, 2022**

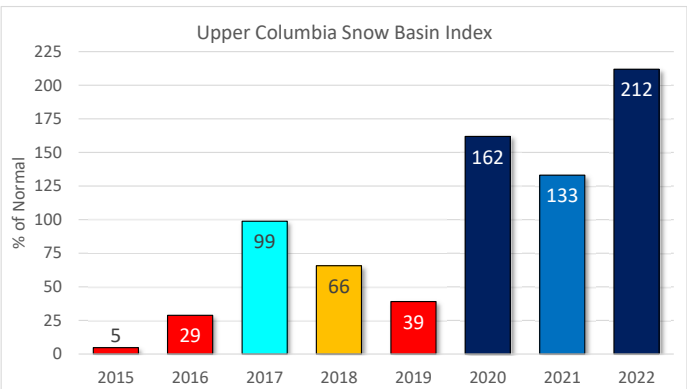
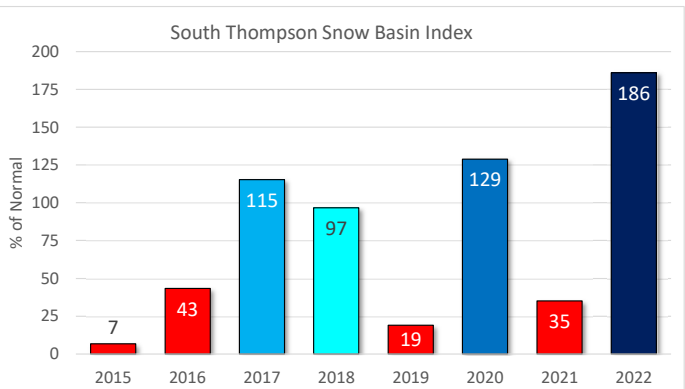
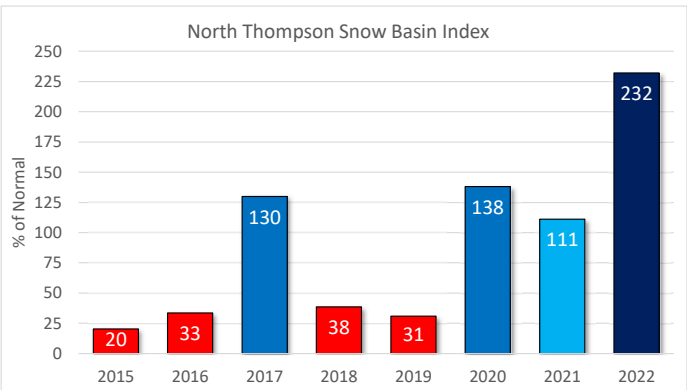
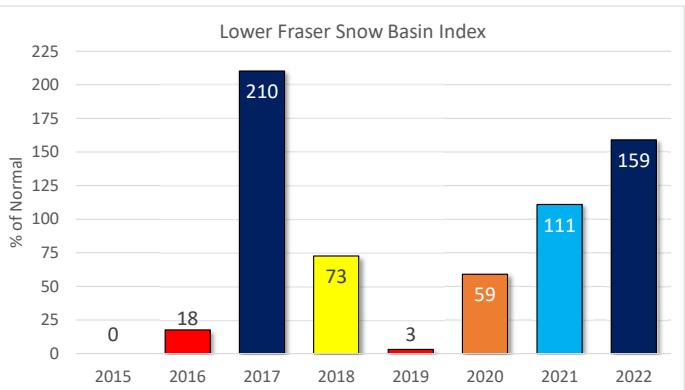
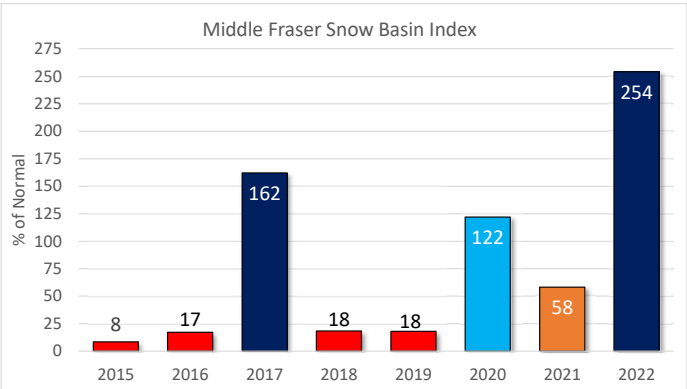
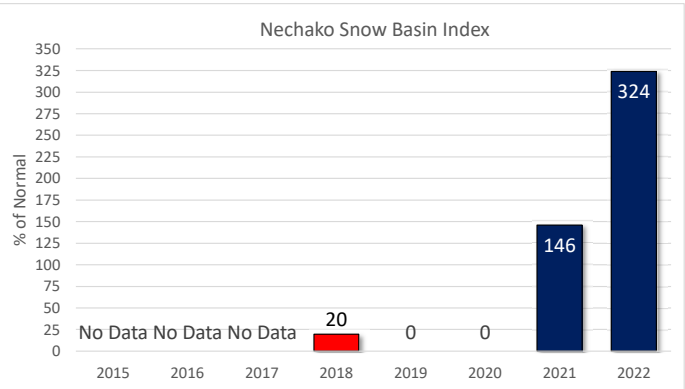
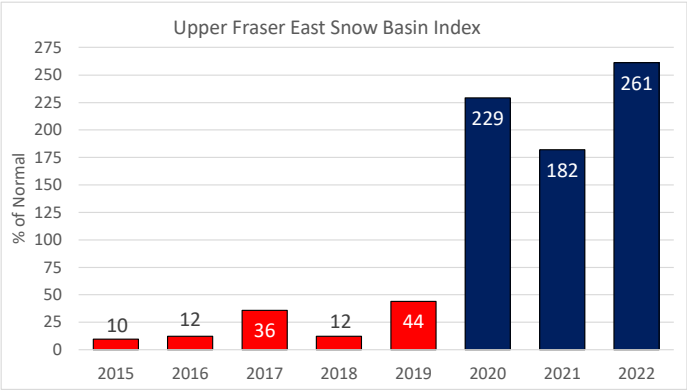
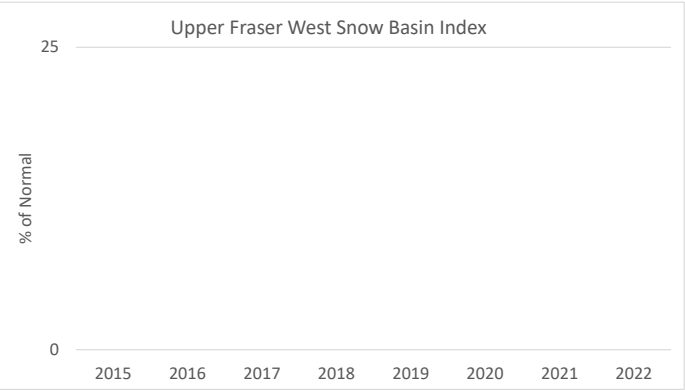


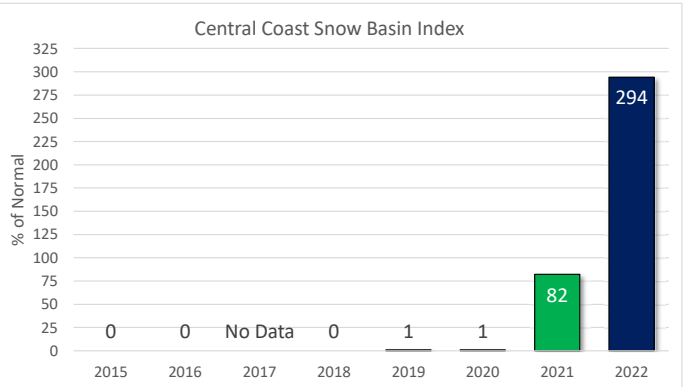
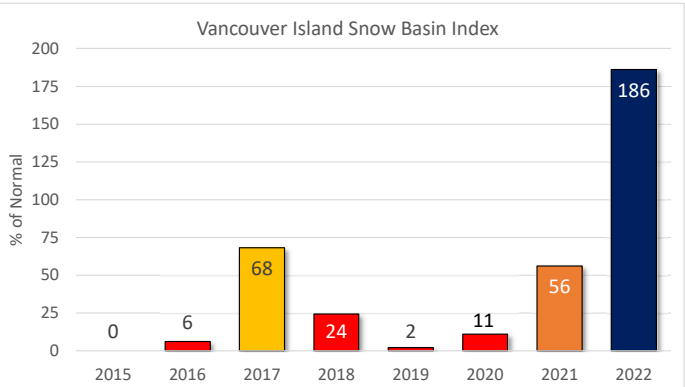
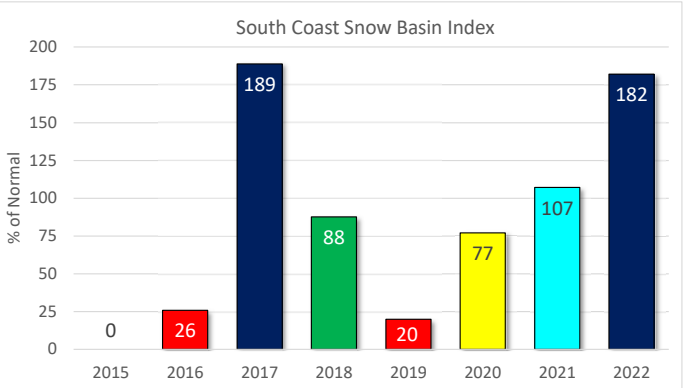
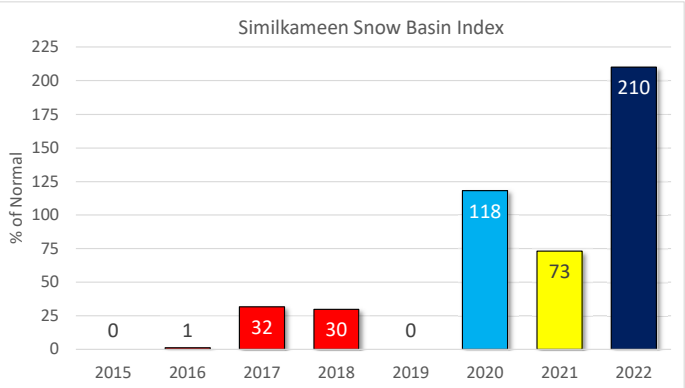
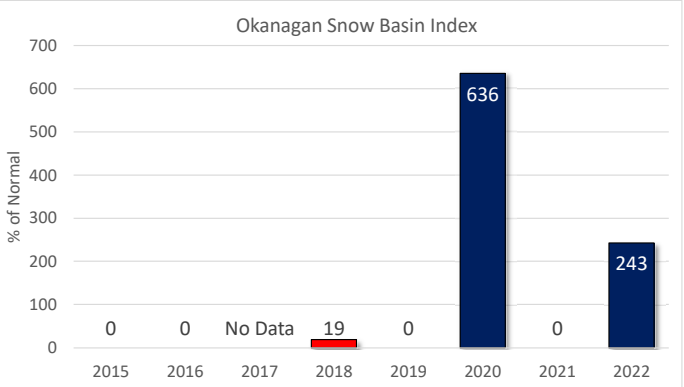
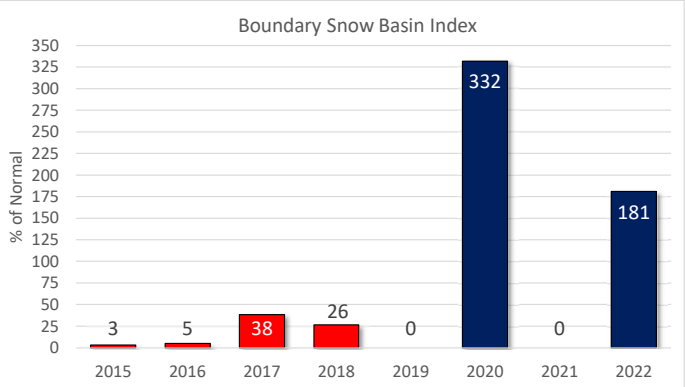
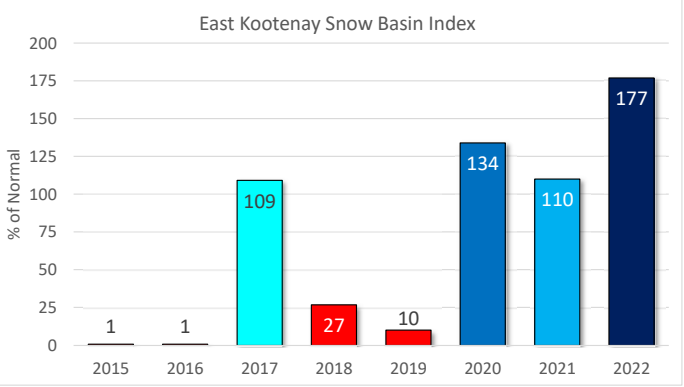
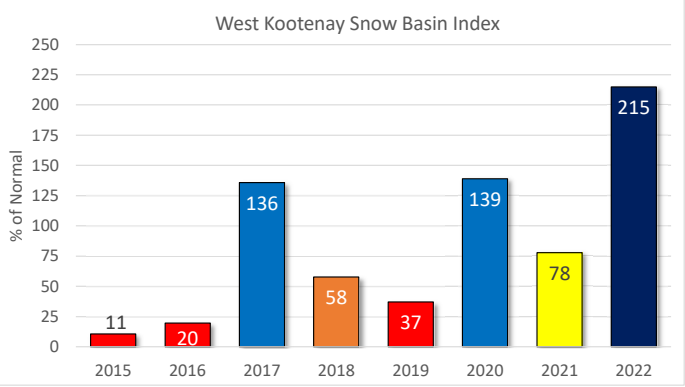
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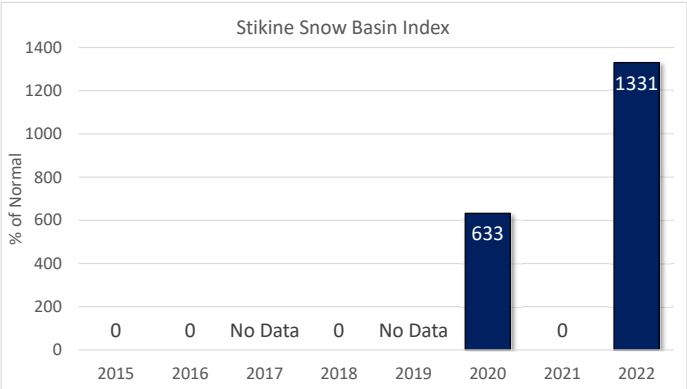
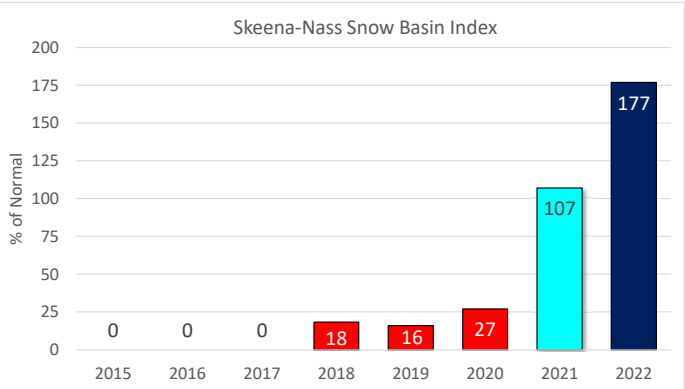
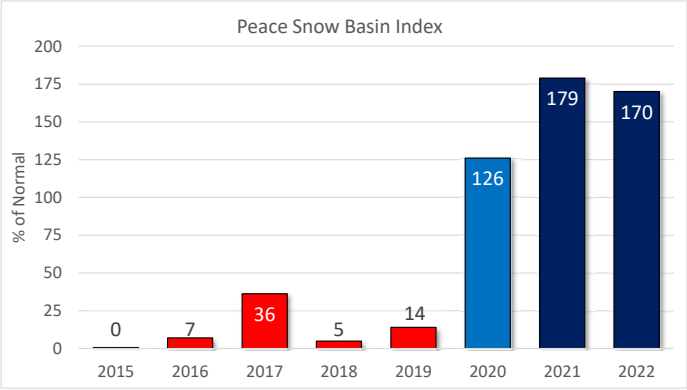
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**Figure 2: Basin Snow Water Index – June 15<sup>th</sup>, 2022 – Colour Friendly**









| UPPER FRASER EAST |                  |           | June 15, 2022 Data |               |     |         |      | June 15, 2022 Statistics          |                                     | Historic Snow Water Equivalent (SWE) Data |      |             |             |             |             |                    |
|-------------------|------------------|-----------|--------------------|---------------|-----|---------|------|-----------------------------------|-------------------------------------|-------------------------------------------|------|-------------|-------------|-------------|-------------|--------------------|
| Station ID        | Name             | Elevation | YYYY-MM-DD         | Snow          | SWE | Density | Code | SWE %<br>of Normal<br>(1991-2020) | Percentile<br>of Historic<br>Record | 2021                                      | 2020 | Minimum     | Median      | Maximum     | 1991-2020   | Years of<br>Record |
|                   |                  | (masl)    |                    | Depth<br>(cm) |     |         |      |                                   |                                     | (mm)                                      | %    | SWE<br>(mm) | SWE<br>(mm) | SWE<br>(mm) | SWE<br>(mm) |                    |
| 1A01P             | Yellowhead Lake  | 1860      | 2022-06-15         | 61            | 325 | 53      |      | 251%                              | 89                                  | 118                                       | 51   | 0           | 70          | 574         | 130         | 22                 |
| 1A02P             | McBride Upper    | 1611      | 2022-06-15         |               | 2   |         |      | 16%                               | N/A                                 | 0                                         | 0    | 0           | 0           | 159         | 13          | 29                 |
| 1A03P             | Barkerville      | 1520      | 2022-06-15         | 0             | 0   |         |      | 0%                                | N/A                                 | 1                                         | 1    | 0           | 0           | 37          | 0           | 42                 |
| 1A05P             | Longworth Upper  | 1740      | 2022-06-15         | 144           | 886 | 62      |      | N/A                               | N/A                                 | 785                                       | 578  | 0           | 145         | 785         | N/A         | 5                  |
| 1A06A             | HANSARD          | 608       | N                  | N             | N   | N       | N    | N/A                               | N/A                                 | NS                                        | NS   |             |             |             | N/A         | 0                  |
| 1A10              | PRINCE GEORGE A  | 689       | N                  | N             | N   | N       | N    | N/A                               | N/A                                 | NS                                        | NS   |             |             |             | N/A         | 0                  |
| 1A11              | PACIFIC LAKE     | 755       | N                  | N             | N   | N       | N    | N/A                               | N/A                                 | NS                                        | NS   | 0           | 0           | 0           | N/A         | 4                  |
| 1A14P             | Hedrick Lake     | 1100      | 2022-06-15         | 78            | 346 | 44      |      | 306%                              | 89                                  | 267                                       | 186  | 0           | 9           | 625         | 113         | 22                 |
| 1A15P             | Knudsen Lake     | 1601      | 2022-06-15         | 126           | 880 | 70      |      | N/A                               | N/A                                 | 384                                       | 346  | 0           | 99          | 384         | N/A         | 6                  |
| 1A17P             | Revolution Creek | 1690      | 2022-06-15         | 150           | 829 | 55      |      | 307%                              | 97                                  | 541                                       | 815  | 0           | 149         | 901         | 270         | 32                 |
| 1A19P             | Dome Mountain    | 1774      | 2022-06-15         | 141           | 831 | 59      |      | 226%                              | 98                                  | 701                                       | 701  | 0           | 363         | 901         | 368         | 16                 |
|                   |                  |           | Average            | 100           | 512 | 57      |      | 184%                              | 93                                  |                                           |      |             |             |             |             |                    |

|                                               |                |      |
|-----------------------------------------------|----------------|------|
| Basin Index Calculation                       | Average SWE    | 467  |
|                                               | Average Normal | 179  |
| Upper Fraser East Basin Index - June 15, 2022 |                | 261% |

Stations used in Basin Index:  
1A01P, 1A02P, 1A14P, 1A17P, 1A19P

| UPPER FRASER WEST |            |                     | June 15, 2022 Data |               |             |              |                                   | June 15, 2022 Statistics            |                     | Historic Snow Water Equivalent (SWE) Data |                        |                       |                        |           |                    |                    |
|-------------------|------------|---------------------|--------------------|---------------|-------------|--------------|-----------------------------------|-------------------------------------|---------------------|-------------------------------------------|------------------------|-----------------------|------------------------|-----------|--------------------|--------------------|
| Station ID        | Name       | Elevation<br>(masl) | Snow               |               |             |              | SWE %<br>of Normal<br>(1991-2020) | Percentile<br>of Historic<br>Record | 2021<br>SWE<br>(mm) | 2020<br>SWE<br>(mm)                       | Minimum<br>SWE<br>(mm) | Median<br>SWE<br>(mm) | Maximum<br>SWE<br>(mm) | 1991-2020 |                    |                    |
|                   |            |                     | YYYY-MM-DD         | Depth<br>(cm) | SWE<br>(mm) | Density<br>% |                                   |                                     |                     |                                           |                        |                       |                        | Code      | Normal SWE<br>(mm) | Years of<br>Record |
| 1A12              | KAZA LAKE  | 1250                | N                  | N             | N           | N            | N                                 | N/A                                 | N/A                 | NS                                        | NS                     |                       |                        |           | N/A                | 0                  |
| 1A12P             | Kaza Lake  | 1257                | 2022-06-15         | 0             | 0           |              |                                   | N/A                                 | N/A                 | 0                                         | 0                      | 0                     | 0                      | 0         | N/A                | 6                  |
| 1A16              | BURNS LAKE | 800                 | N                  | N             | N           | N            | N                                 | N/A                                 | N/A                 | NS                                        | NS                     |                       |                        |           | N/A                | 0                  |
| 1A23              | BIRD CREEK | 1180                | N                  | N             | N           | N            | N                                 | N/A                                 | N/A                 | NS                                        | NS                     |                       |                        |           | N/A                | 0                  |
|                   |            |                     | Average            | 0             | 0           | N/A          |                                   | N/A                                 | N/A                 |                                           |                        |                       |                        |           |                    |                    |

|                                               |                |     |
|-----------------------------------------------|----------------|-----|
| Basin Index Calculation                       | Average SWE    | N/A |
|                                               | Average Normal | N/A |
| Upper Fraser West Basin Index - June 15, 2022 |                | N/A |

Stations used in Basin Index:  
N/A

| NECHAKO    |                |           | June 15, 2022 Data |       |     |         |      | June 15, 2022 Statistics |             | Historic Snow Water Equivalent (SWE) Data |      |         |        |         |           |        |
|------------|----------------|-----------|--------------------|-------|-----|---------|------|--------------------------|-------------|-------------------------------------------|------|---------|--------|---------|-----------|--------|
| Station ID | Name           | Elevation | YYYY-MM-DD         | Snow  | SWE | Density | Code | SWE %                    | Percentile  | 2021                                      | 2020 | Minimum | Median | Maximum | 1991-2020 |        |
|            |                | (masl)    |                    | Depth |     |         |      |                          |             | (mm)                                      | %    | SWE     | SWE    | SWE     | SWE       | SWE    |
|            |                |           |                    | (cm)  |     |         |      | (1991-2020)              | of Historic | (mm)                                      | (mm) | (mm)    | (mm)   | (mm)    | (mm)      | Record |
| 1B01       | MOUNT WELLS    | 1490      | N                  | N     | N   | N       | N    | N/A                      | N/A         | NS                                        | NS   |         |        |         | N/A       | 0      |
| 1B01P      | Mount Wells    | 1490      | 2022-06-15         |       | 279 |         |      | 649%                     | 98          | 98                                        |      | 0       | 3      | 308     | 43        | 29     |
| 1B02       | TAHTSA LAKE    | 1300      | N                  | N     | N   | N       | N    | N/A                      | N/A         | NS                                        | NS   |         |        |         | N/A       | 0      |
| 1B02P      | Tahtsa Lake    | 1300      | 2022-06-15         |       |     |         |      | N/A                      | N/A         | 885                                       |      | 0       | 479    | 1881    | 547       | 28     |
| 1B05       | SKINS LAKE     | 890       | N                  | N     | N   | N       | N    | N/A                      | N/A         | NS                                        | NS   |         |        |         | N/A       | 0      |
| 1B06       | MOUNT SWANNELL | 1620      | N                  | N     | N   | N       | N    | N/A                      | N/A         | NS                                        | NS   |         |        |         | N/A       | 0      |
| 1B07       | NUTLI LAKE     | 1490      | N                  | N     | N   | N       | N    | N/A                      | N/A         | NS                                        | NS   |         |        |         | N/A       | 0      |
| 1B08P      | Mt. Pondosy    | 1400      | 2022-06-15         |       | 130 |         |      | 156%                     | 79          | 0                                         | 0    | 0       | 0      | 497     | 83        | 25     |
|            |                |           | Average            | N/A   | 205 | N/A     |      | 403%                     | 88          |                                           |      |         |        |         |           |        |

|                                     |                |      |
|-------------------------------------|----------------|------|
| Basin Index Calculation             | Average SWE    | 205  |
|                                     | Average Normal | 63   |
| Nechako Basin Index - June 15, 2022 |                | 324% |

Stations used in Basin Index:  
1B01P, 1B08P

| LOWER THOMPSON |                      |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|----------------|----------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID     | Name                 | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 1C06           | PAVILION             | 1230             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 1C09A          | HIGHLAND VALLEY      | 1510             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 1C25           | LAC LE JEUNE (UPPER) | 1509             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 1C29           | SHOVELNOSE MOUNTAIN  | 1450             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 1C29P          | Shovenose Mountain   | 1460             | 2022-06-15         | 0               | 0        |           |      | N/A                         | N/A                           | 0                                         | 0             | 0                | 0               | 0                | N/A                       | 3               |
| 1C32           | DEADMAN RIVER        | 1430             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 1C42           | CAVERHILL LAKE NEW   | 1400             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
|                |                      |                  | Average            | 0               | 0        | N/A       |      | N/A                         | N/A                           |                                           |               |                  |                 |                  |                           |                 |

|                                            |                |     |
|--------------------------------------------|----------------|-----|
| Basin Index Calculation                    | Average SWE    | N/A |
|                                            | Average Normal | N/A |
| Lower Thompson Basin Index - June 15, 2022 |                | N/A |

Stations used in Basin Index:  
N/A

| BRIDGE / LILLOOET |                        |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|-------------------|------------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID        | Name                   | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 1C05P             | McGillivray Pass       | 1718             | 2022-06-15         |                 | 45       |           |      | N/A                         | N/A                           | 0                                         | 0             | 0                | 0               | 0                | N/A                       | 4               |
| 1C12P             | Green Mountain         | 1780             | 2022-06-15         |                 | 425      |           |      | 181%                        | 75                            | 2                                         | 2             | 0                | 93              | 887              | 235                       | 28              |
| 1C14P             | Bralorne               | 1382             | 2022-06-15         | 0               | 0        |           |      | N/A                         | N/A                           | 0                                         | 0             | 0                | 0               | 0                | N/A                       | 4               |
| 1C18P             | Mission Ridge          | 1850             | 2022-06-15         |                 | 76       |           |      | 623%                        | 90                            | 0                                         | 2             | 0                | 0               | 387              | 12                        | 45              |
| 1C28              | DUFFEY LAKE            | 1200             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 1C38              | DOWNTON LAKE (UPPER)   | 1887             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 1C38P             | Downton Lake Upper     | 1829             | 2022-06-15         |                 | 859      |           |      | N/A                         | N/A                           | 365                                       | 170           | 28               | 268             | 513              | N/A                       | 6               |
| 1C39              | BRIDGE GLACIER (LOWER) | 1390             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 1C40P             | North Tyaughton        | 1969             | 2022-06-15         |                 | 205      |           |      | N/A                         | N/A                           | 3                                         | 0             | 0                | 0               | 3                | N/A                       | 6               |
|                   |                        |                  | Average            | 0               | 268      | N/A       |      | 402%                        | 83                            |                                           |               |                  |                 |                  |                           |                 |

|                                             |                |      |
|---------------------------------------------|----------------|------|
| Basin Index Calculation                     | Average SWE    | 251  |
|                                             | Average Normal | 123  |
| Bridge/Lillooet Basin Index - June 15, 2022 |                | 203% |

Stations used in Basin Index:  
1C12P, 1C18P

| CHILCOTIN  |                 |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|------------|-----------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID | Name            | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 1C21       | BIG CREEK       | 1140             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 1C22       | PUNTZI MOUNTAIN | 940              | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
|            |                 |                  | Average            | N/A             | N/A      | N/A       |      | N/A                         | N/A                           |                                           |               |                  |                 |                  |                           |                 |

|                                       |                |     |
|---------------------------------------|----------------|-----|
| Basin Index Calculation               | Average SWE    | N/A |
|                                       | Average Normal | N/A |
| Chilcotin Basin Index - June 15, 2022 |                | N/A |

Stations used in Basin Index:  
N/A

| QUESNEL    |                    |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|------------|--------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID | Name               | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 1C17       | MOUNT TIMOTHY      | 1660             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                | 0               | 140              | N/A                       | 5               |
| 1C20P      | Boss Mountain Mine | 1460             | 2022-06-15         | 0               | 0        | N/A       |      | 0%                          | N/A                           | 4                                         | 5             | 0                | 0               | 83               | 7                         | 28              |
| 1C23       | PENFOLD CREEK      | 1685             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 631              | 671             | 952              | N/A                       | 5               |
| 1C33A      | GRANITE MOUNTAIN   | 1150             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |

|       |                 |      |            |    |     |    |      |     |     |     |   |     |     |     |    |
|-------|-----------------|------|------------|----|-----|----|------|-----|-----|-----|---|-----|-----|-----|----|
| 1C41P | Yanks Peak East | 1670 | 2022-06-15 | 96 | 696 | 73 | 321% | 100 | 267 | 582 | 0 | 162 | 698 | 217 | 25 |
|       |                 |      | Average    | 48 | 348 | 73 | 161% | 100 |     |     |   |     |     |     |    |

|                                     |                |      |
|-------------------------------------|----------------|------|
| Basin Index Calculation             | Average SWE    | 348  |
|                                     | Average Normal | 112  |
| Quesnel Basin Index - June 15, 2022 |                | 311% |

Stations used in Basin Index:  
1C20P, 1C41P

#### MIDDLE FRASER

|                                          |                |      |
|------------------------------------------|----------------|------|
| Basin Index Calculation                  | Average SWE    | 299  |
|                                          | Average Normal | 118  |
| Middle River Basin Index - June 15, 2022 |                | 254% |

Stations used in Basin Index:  
1C12P, 1C18P, 1C20P, 1C41P

| LOWER FRASER |                     |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|--------------|---------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID   | Name                | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
|              |                     |                  |                    |                 |          |           |      |                             |                               |                                           |               |                  |                 |                  |                           |                 |
| 1D06P        | Tenquille Lake      | 1680             | 2022-06-15         | 179             | 960      | 54        |      | 242%                        | 92                            | 410                                       | 183           | 0                | 334             | 1173             | 396                       | 21              |
| 1D08         | STAVE LAKE          | 1250             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 2040             |                 | 2040             | N/A                       | 1               |
| 1D08P        | Lamont Creek Upper  | 1217             | 2022-06-15         |                 | 876      |           |      | N/A                         | N/A                           | 697                                       |               | 697              |                 | 697              | N/A                       | 1               |
| 1D09P        | Wahleach Lake Upper | 1480             | 2022-06-15         |                 | 670      |           |      | 146%                        | 71                            | 557                                       | 333           | 0                | 367             | 1281             | 458                       | 28              |
| 1D10         | NAHATLATCH RIVER    | 1550             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 697              |                 | 2256             | N/A                       | 2               |
| 1D16         | DICKSON LAKE        | 1160             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 1D17P        | Chilliwack River    | 1600             | 2022-06-15         | 217             | 1245     | 57        |      | 151%                        | 82                            |                                           | 990           | 0                | 790             | 2022             | 825                       | 25              |
| 1D18         | DISAPPOINTMENT LAKE | 1050             | 2022-06-14         | 226             | 1248     | 55        |      | 159%                        |                               | 810                                       |               | 0                | 648             | 1880             | 787                       | 12              |
| 1D18P        | Disappointment Lake | 1050             | 2022-06-15         | 219             |          |           |      | N/A                         | N/A                           |                                           | 178           | 0                | 548             | 1922             | 609                       | 13              |
| 1D19P        | Spuzzum Creek       | 1180             | 2022-06-15         | 144             | 1000     | 69        |      | 131%                        | 62                            | 888                                       | 270           | 0                | 763             | 2320             | 762                       | 23              |
|              |                     |                  | Average            | 197             | 1000     | 59        |      | 166%                        | 77                            |                                           |               |                  |                 |                  |                           |                 |

|                                          |                |      |
|------------------------------------------|----------------|------|
| Basin Index Calculation                  | Average SWE    | 1025 |
|                                          | Average Normal | 645  |
| Lower Fraser Basin Index - June 15, 2022 |                | 159% |

Stations used in Basin Index:  
1D06P, 1D09P, 1D18, 1D19P

| NORTH THOMPSON |                 |                  | June 15, 2022 Data |            |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |      |         |        |            |           |                 |
|----------------|-----------------|------------------|--------------------|------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|------|---------|--------|------------|-----------|-----------------|
| Station ID     | Name            | Elevation (masl) | YYYY-MM-DD         | Snow       | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021                                      | 2020 | Minimum | Median | Maximum    | 1991-2020 | Years of Record |
|                |                 |                  |                    | Depth (cm) |          |           |      |                             |                               | SWE                                       | SWE  | SWE     | SWE    | Normal SWE |           |                 |
| 1E01B          | BLUE RIVER      | 670              | N                  | N          | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS   |         |        |            | N/A       | 0               |
| 1E02P          | Mount Cook      | 1550             | 2022-06-15         |            |          |           |      | N/A                         | N/A                           | 935                                       | 931  | 206     | 758    | 1771       | 746       | 18              |
| 1E03A          | TROPHY MOUNTAIN | 1860             | N                  | N          | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS   | 800     |        | 800        | N/A       | 1               |
| 1E07           | ADAMS RIVER     | 1720             | N                  | N          | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS   | 0       | 233    | 1046       | 330       | 21              |
| 1E08P          | Azure River     | 1652             | 2022-06-15         | 153        | 1106     | 72        |      | 228%                        | 97                            | 586                                       | 584  | 24      | 487    | 1500       | 485       | 24              |
| 1E10P          | Kostal Lake     | 1770             | 2022-06-15         | 129        | 942      | 73        |      | 251%                        | 98                            | 267                                       | 518  | 0       | 355    | 1248       | 375       | 37              |
| 1E14P          | Cook Creek      | 1280             | 2022-06-15         | 0          | 0        |           |      | 0%                          | N/A                           | 2                                         | 89   | 0       | 0      | 161        | 22        | 13              |
|                |                 |                  | Average            | 94         | 683      | 73        |      | 160%                        | 97                            |                                           |      |         |        |            |           |                 |

|                                            |                |      |
|--------------------------------------------|----------------|------|
| Basin Index Calculation                    | Average SWE    | 683  |
|                                            | Average Normal | 294  |
| North Thompson Basin Index - June 15, 2022 |                | 232% |

Stations used in Basin Index:  
1E08P, 1E10P, 1E14P

| SOUTH THOMPSON |               |           | June 15, 2022 Data |       |      |         |       | June 15, 2022 Statistics |             | Historic Snow Water Equivalent (SWE) Data |         |        |         |           |            |          |
|----------------|---------------|-----------|--------------------|-------|------|---------|-------|--------------------------|-------------|-------------------------------------------|---------|--------|---------|-----------|------------|----------|
|                |               | Elevation | Snow               |       |      |         | SWE % | Percentile               | 2021        | 2020                                      | Minimum | Median | Maximum | 1991-2020 |            |          |
| Station ID     | Name          | (masl)    | YYYY-MM-DD         | Depth | SWE  | Density | Code  | of Normal                | of Historic | SWE                                       | SWE     | SWE    | SWE     | SWE       | Normal SWE | Years of |
|                |               |           |                    | (cm)  | (mm) | %       |       | (1991-2020)              | Record      | (mm)                                      | (mm)    | (mm)   | (mm)    | (mm)      | (mm)       | Record   |
| 1F01A          | ABERDEEN LAKE | 1310      | N                  | N     | N    | N       | N     | N/A                      | N/A         | NS                                        | NS      |        |         |           | N/A        | 0        |
| 1F02           | ANGLEMONT     | 1190      | N                  | N     | N    | N       | N     | N/A                      | N/A         | NS                                        | NS      |        |         |           | N/A        | 0        |
| 1F03P          | Park Mountain | 1890      | 2022-06-15         | 103   | 629  | 61      |       | 137%                     | 70          | 188                                       | 627     | 0      | 352     | 1045      | 458        | 37       |
| 1F04P          | Enderby       | 1950      | 2022-06-15         | 174   | 1007 | 58      |       | N/A                      | N/A         | 55                                        | 584     | 55     | 584     | 867       | N/A        | 5        |

|       |                  |      |            |     |     |    |      |     |    |     |   |     |     |     |    |             |
|-------|------------------|------|------------|-----|-----|----|------|-----|----|-----|---|-----|-----|-----|----|-------------|
| 1F06P | Celista Mountain | 1500 | 2022-06-15 | 103 | 557 | 54 | 312% | 100 | 33 | 194 | 0 | 143 | 545 | 179 | 15 | Record High |
|       |                  |      | Average    | 127 | 731 | 58 | 225% | 85  |    |     |   |     |     |     |    |             |

|                                            |                |      |
|--------------------------------------------|----------------|------|
| Basin Index Calculation                    | Average SWE    | 593  |
|                                            | Average Normal | 318  |
| South Thompson Basin Index - June 15, 2022 |                | 186% |

Stations used in Basin Index:  
1F03P, 1F06P

FRASER RIVER

|                                          |                |      |
|------------------------------------------|----------------|------|
| Basin Index Calculation                  | Average SWE    | 574  |
|                                          | Average Normal | 289  |
| Fraser River Basin Index - June 15, 2022 |                | 198% |

Stations used in Basin Index:  
1A01P, 1A02P, 1A14P, 1A17P, 1A19P, 1B01P, 1B08P, 1C12P, 1C18P, 1C20P, 1C41P, 1D06P, 1D09P, 1D18, 1D19P  
1E08P, 1E10P, 1E14P, 1F03P, 1F06P

| UPPER COLUMBIA |                              |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|----------------|------------------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID     | Name                         | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 2A02           | GLACIER                      | 1250             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                | 47              | 462              | N/A                       | 24              |
| 2A03A          | FIELD                        | 1285             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2A06P          | Mount Revelstoke             | 1850             | 2022-06-15         |                 | 1060     |           |      | 167%                        | 87                            | 698                                       | 800           | 0                | 614             | 1737             | 636                       | 28              |
| 2A07           | KICKING HORSE                | 1650             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                | 0               | 30               | N/A                       | 4               |
| 2A11           | BEAVERFOOT                   | 1890             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2A14           | MOUNT ABBOT                  | 2010             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                | 1016            | 1979             | N/A                       | 14              |
| 2A16           | GOLDSTREAM                   | 1920             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2A17           | FIDELITY MOUNTAIN            | 1870             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                | 875             | 1603             | N/A                       | 25              |
| 2A18P          | Keystone Creek               | 1840             | 2022-06-15         |                 | 463      |           |      | N/A                         | N/A                           | 424                                       | 547           | 3                | 286             | 594              | N/A                       | 7               |
| 2A19           | VERMONT CREEK                | 1520             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2A21P          | Molson Creek                 | 1935             | 2022-06-15         |                 | 1394     |           |      | 267%                        | 100                           | 836                                       | 763           | 0                | 563             | 1136             | 521                       | 39              |
| 2A23           | BUSH RIVER                   | 1920             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2A25           | KIRBYVILLE LAKE              | 1750             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2A27           | DOWNIE SLIDE (LOWER)         | 980              | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                |                 | 0                | N/A                       | 1               |
| 2A29           | DOWNIE SLIDE (UPPER)         | 1630             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 523              |                 | 540              | N/A                       | 2               |
| 2A30P          | Colpitti Creek               | 2131             | 2022-06-15         |                 | 758      |           |      | N/A                         | 100                           | 476                                       | 588           | 0                | 0               | 588              | N/A                       | 13              |
| 2A31P          | Caribou Creek Upper          | 2201             | 2022-06-15         |                 | 861      |           |      | N/A                         | N/A                           | 577                                       | 601           | 0                | 355             | 601              | N/A                       | 7               |
| 2A32P          | Wildcat Creek                | 2122             | 2022-06-15         |                 | 621      |           |      | N/A                         | N/A                           | 366                                       | 531           | 0                | 177             | 531              | N/A                       | 7               |
| 2A34P          | Glacier NP Rogers Pass Lower | 1182             | 2022-06-15         |                 | 43       |           |      | N/A                         | N/A                           |                                           |               |                  |                 |                  |                           | 0               |
|                |                              |                  | Average            | #DIV/0!         | 743      | #DIV/0!   |      | 217%                        | 96                            |                                           |               |                  |                 |                  |                           |                 |

|                                            |                |      |
|--------------------------------------------|----------------|------|
| Basin Index Calculation                    | Average SWE    | 1227 |
|                                            | Average Normal | 579  |
| Upper Columbia Basin Index - June 15, 2022 |                | 212% |

Stations used in Basin Index:  
2A06P, 2A21P

| WEST KOOTENAY |                  |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|---------------|------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID    | Name             | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 2B02A         | FARRON           | 1220             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2B05          | WHATSHAN (UPPER) | 1525             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 18               |                 | 18               | N/A                       | 1               |
| 2B06P         | Barnes Creek     | 1620             | 2022-06-15         | 0               | 0        | N/A       |      | 0%                          | N/A                           | 3                                         | 1             | 0                | 0               | 210              | 15                        | 29              |
| 2B07          | KOCH CREEK       | 1860             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 630              |                 | 630              | N/A                       | 1               |
| 2B08P         | St. Leon Creek   | 1800             | 2022-06-15         |                 | 1354     |           |      | 268%                        | 100                           | 611                                       | 988           | 0                | 478             | 1336             | 505                       | 28              |
| 2B09          | RECORD MOUNTAIN  | 1890             | 2022-06-16         | 45              | 222      | 49        |      | 204%                        | 86                            | 0                                         | 0             | 0                | 0               | 949              | 109                       | 33              |
| 2D02          | FERGUSON         | 880              | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                | 0               | 61               | N/A                       | 3               |

|        |                    |      |            |    |      |    |   |      |     |     |      |     |     |      |     |    |
|--------|--------------------|------|------------|----|------|----|---|------|-----|-----|------|-----|-----|------|-----|----|
| 2D03   | SANDON             | 1070 | N          | N  | N    | N  | N | N/A  | N/A | NS  | NS   |     |     |      | N/A | 0  |
| 2D04   | NELSON             | 930  | N          | N  | N    | N  | N | N/A  | N/A | NS  | NS   |     |     |      | N/A | 0  |
| 2D05   | GRAY CREEK (LOWER) | 1550 | N          | N  | N    | N  | N | N/A  | N/A | NS  | NS   | 0   | 0   | 282  | N/A | 19 |
| 2D06   | CHAR CREEK         | 1310 | N          | N  | N    | N  | N | N/A  | N/A | NS  | NS   | 0   | 20  | 106  | N/A | 7  |
| 2D07A  | DUNCAN LAKE NO. 2  | 630  | N          | N  | N    | N  | N | N/A  | N/A | NS  | NS   |     |     |      | N/A | 0  |
| 2D07AP | Duncan Lake Dam 2  | 559  | 2022-06-15 | 0  | 0    |    |   | N/A  | N/A | 6   | 0    | 0   |     | 6    | N/A | 2  |
| 2D08P  | East Creek         | 2030 | 2022-06-15 |    | 930  |    |   | 208% | 93  | 397 | 472  | 0   | 399 | 1135 | 448 | 38 |
| 2D09   | MOUNT TEMPLEMAN    | 1860 | N          | N  | N    | N  | N | N/A  | N/A | NS  | NS   |     |     |      | N/A | 0  |
| 2D10   | GRAY CREEK (UPPER) | 1940 | N          | N  | N    | N  | N | N/A  | N/A | NS  | NS   | 0   | 144 | 825  | 361 | 16 |
| 2D10P  | GRAY CREEK (UPPER) | 1930 | 2022-06-15 |    |      |    |   | N/A  | N/A | 0   |      | 0   |     | 0    | N/A | 1  |
| 2D14P  | Redfish Creek      | 2104 | 2022-06-15 |    | 1793 |    |   | 194% | 100 | 536 | 1232 | 292 | 874 | 1702 | 925 | 20 |
| 2D17   | Lost Ledge         | 2050 | N          | N  | N    | N  | N | N/A  | N/A |     |      |     |     |      |     | 0  |
| 2D18   | Kootenay Joe       | 2060 | N          | N  | N    | N  | N | N/A  | N/A |     |      |     |     |      |     | 0  |
|        |                    |      | Average    | 15 | 717  | 49 |   | 175% | 95  |     |      |     |     |      |     |    |

Record High

|                                           |                |      |
|-------------------------------------------|----------------|------|
| Basin Index Calculation                   | Average SWE    | 860  |
|                                           | Average Normal | 400  |
| West Kootenay Basin Index - June 15, 2022 |                | 215% |

Stations used in Basin Index:  
2B06P, 2B08P, 2D08P, 2D14P

| EAST KOOTENAY |                   |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|---------------|-------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID    | Name              | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 2C01          | SINCLAIR PASS     | 1370             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2C04          | SULLIVAN MINE     | 1550             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                |                 | 0                | N/A                       | 1               |
| 2C09Q         | Morrissey Ridge   | 1860             | 2022-06-15         |                 | 0        |           |      | 0%                          | N/A                           | 0                                         | 0             | 0                | 0               | 454              | 40                        | 37              |
| 2C10P         | Moyie Mountain    | 1930             | 2022-06-15         | 3               | 18       | 60        |      | 450%                        | 96                            | 5                                         | 0             | 0                | 0               | 59               | 4                         | 42              |
| 2C11          | KIMBERLY UPPER    | 2140             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2C12          | KIMBERLY MIDDLE   | 1680             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2C14P         | Floe Lake         | 2090             | 2022-06-15         |                 | 666      |           |      | 195%                        | 88                            | 375                                       | 494           | 0                | 375             | 821              | 341                       | 27              |
| 2C15          | MOUNT ASSINIBOINE | 2230             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2C17          | THUNDER CREEK     | 2010             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
|               |                   |                  | Average            | 3               | 228      | 60        |      | 215%                        | 92                            |                                           |               |                  |                 |                  |                           |                 |

|                                           |                |      |
|-------------------------------------------|----------------|------|
| Basin Index Calculation                   | Average SWE    | 228  |
|                                           | Average Normal | 129  |
| East Kootenay Basin Index - June 15, 2022 |                | 177% |

Stations used in Basin Index:  
2C09Q, 2C10P, 2C14P

| BOUNDARY   |                    |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|------------|--------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID | Name               | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 2E01       | MONASHEE PASS      | 1370             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 2               |
| 2E02       | CARMI              | 1250             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2E03       | BIG WHITE MOUNTAIN | 1680             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                | 0               | 356              | 35                        | 21              |
| 2E07P      | Grano Creek        | 1860             | 2022-06-15         | 40              | 173      | 43        |      | 181%                        | 80                            | 6                                         | 279           | 0                | 13              | 502              | 96                        | 24              |
|            |                    |                  | Average            | 40              | 173      | 43        |      | 181%                        | 80                            |                                           |               |                  |                 |                  |                           |                 |

|                                      |                |      |
|--------------------------------------|----------------|------|
| Basin Index Calculation              | Average SWE    | 173  |
|                                      | Average Normal | 96   |
| Boundary Basin Index - June 15, 2022 |                | 181% |

Stations used in Basin Index:  
2E07P

| OKANAGAN   |                      |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|------------|----------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID | Name                 | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 2F01A      | TROUT CREEK (West)   | 1430             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2F01AP     | Trout Creek West     | 1420             | 2022-06-15         | 0               | 0        | N/A       |      | N/A                         | N/A                           | 1                                         | 9             | 0                | 1               | 9                | N/A                       | 4               |
| 2F02       | SUMMERLAND RESERVOIR | 1280             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                |                 | 0                | N/A                       | 1               |
| 2F03       | MCCULLOCH            | 1280             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2F04       | GRAYSTOKE LAKE       | 1840             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2F05P      | Mission Creek        | 1780             | 2022-06-15         | 69              | 210      | 30        |      | 246%                        | 83                            | 0                                         | 355           | 0                | 0               | 383              | 85                        | 51              |
| 2F07       | POSTILL LAKE         | 1370             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2F08       | GREYBACK RESERVOIR   | 1550             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                |                 | 0                | N/A                       | 1               |
| 2F08P      | Greyback Reservoir   | 1550             | 2022-06-15         | 0               | 4        |           |      | N/A                         | N/A                           | 1                                         | 0             | 0                | 0               | 0                | N/A                       | 5               |
| 2F09       | WHITEROCKS MOUNTAIN  | 1830             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                | 0               | 533              | 21                        | 20              |
| 2F10       | Silver Star Mountain | 1840             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                | 109             | 747              | 210                       | 33              |
| 2F10P      | Silver Star Mountain | 1839             | 2022-06-15         | 77              | 593      | 77        |      | N/A                         | N/A                           | 2                                         | 496           | 0                | 397             | 496              | N/A                       | 5               |
| 2F11       | ISINTOK LAKE         | 1680             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                | 0               | 0                | N/A                       | 3               |
| 2F12       | MOUNT KOBAN          | 1810             | 2022-06-12         | 0               | 0        | N/A       |      | N/A                         | N/A                           | NS                                        | NS            | 0                | 10              | 301              | N/A                       | 7               |
| 2F13       | ESPERON CR (UPPER)   | 1650             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 104              |                 | 104              | N/A                       | 1               |
| 2F14       | ESPERON CR (MIDDLE)  | 1430             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                |                 | 0                | N/A                       | 1               |
| 2F18P      | Brenda Mine          | 1460             | 2022-06-15         | 0               | 0        | N/A       |      | 0%                          | N/A                           | 2                                         | 1             | 0                | 0               | 8                | 1                         | 26              |
| 2F19       | OYAMA LAKE           | 1340             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2F19P      | OYAMA LAKE           | 1360             | 2022-06-15         | 0               | 0        | N/A       |      | N/A                         | N/A                           | 0                                         |               | 0                |                 | 0                | N/A                       | 1               |
| 2F20       | VASEUX CREEK         | 1400             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2F23       | MACDONALD LAKE       | 1740             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2F24       | ISLAHT LAKE          | 1480             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2F25       | POSTILL LAKE UPPER   | 1540             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
|            |                      |                  | Average            | 21              | 115      | 54        |      | 123%                        | 83                            |                                           |               |                  |                 |                  |                           |                 |

|                                      |                |      |
|--------------------------------------|----------------|------|
| Basin Index Calculation              | Average SWE    | 105  |
|                                      | Average Normal | 43   |
| Okanagan Basin Index - June 15, 2022 |                | 243% |

Stations used in Basin Index:  
2F05P, 2F18P

| SIMILKAMEEN |                     |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|-------------|---------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID  | Name                | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 2G03P       | Blackwall Peak      | 1940             | 2022-06-15         | 99              | 463      | 47        |      | 210%                        | 83                            | 161                                       | 257           | 0                | 72              | 1031             | 220                       | 54              |
| 2G04        | LOST HORSE MOUNTAIN | 1920             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 0                | 0               | 178              | N/A                       | 13              |
| 2G05        | MISSEZULA MOUNTAIN  | 1550             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 2G06        | HAMILTON HILL       | 1490             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
|             |                     |                  | Average            | 99              | 463      | 47        |      | 210%                        | 83                            |                                           |               |                  |                 |                  |                           |                 |

|                                         |                |      |
|-----------------------------------------|----------------|------|
| Basin Index Calculation                 | Average SWE    | 463  |
|                                         | Average Normal | 220  |
| Similkameen Basin Index - June 15, 2022 |                | 210% |

Stations used in Basin Index:  
2G03P

| SOUTH COAST |                      |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|-------------|----------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID  | Name                 | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 3A01        | GROUSE MOUNTAIN      | 1100             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 3A02        | POWELL RIVER (UPPER) | 1040             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 3A05        | POWELL RIVER (LOWER) | 910              | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 3A09        | PALISADE LAKE        | 880              | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 3A09P       | Palisade Lake        | 900              | 2022-06-15         | 2               | 23       | 115       |      | N/A                         | N/A                           | 0                                         | 0             | 0                | 0               | 0                | N/A                       | 4               |

|       |                      |      |            |     |      |    |      |     |     |     |     |     |      |     |    |
|-------|----------------------|------|------------|-----|------|----|------|-----|-----|-----|-----|-----|------|-----|----|
| 3A10  | DOG MOUNTAIN         | 1080 | 2022-06-14 | 126 | 708  | 56 | 161% | 77  | 528 | 218 | 0   | 298 | 2088 | 439 | 34 |
| 3A19  | ORCHID LAKE          | 1190 | 2022-06-14 | 286 | 1570 | 55 | 195% | 89  | 952 | N   | 0   | 880 | 1910 | 807 | 37 |
| 3A20  | CALLAGHAN CREEK      | 1040 | N          | N   | N    | N  | N/A  | N/A | NS  | NS  | 0   | 0   | 0    | N/A | 8  |
| 3A20P | Callaghan            | 1017 | 2022-06-15 | 27  |      |    | N/A  | N/A | 9   | 23  | 9   | 12  | 88   | N/A | 3  |
| 3A22P | Nostetuko River      | 1500 | 2022-06-15 | 33  |      |    | 140% | 87  | 3   | 2   | 0   | 0   | 273  | 24  | 31 |
| 3A24P | Mosley Creek Upper   | 1650 | 2022-06-15 | 0   | 0    |    | N/A  | N/A | 0   | 0   | 0   | 0   | 2    | 0   | 33 |
| 3A25P | Squamish River Upper | 1340 | 2022-06-15 | 214 |      |    | N/A  | N/A | 698 | 707 | 0   | 703 | 2505 | 764 | 28 |
| 3A26  | CHAPMAN CREEK        | 1022 | N          | N   | N    | N  | N/A  | N/A | NS  | NS  |     |     |      | N/A | 0  |
| 3A27  | EDWARDS LAKE         | 1070 | N          | N   | N    | N  | N/A  | N/A | NS  | NS  |     |     |      | N/A | 0  |
| 3A28P | Tetrahedron          | 1420 | 2022-06-15 | 328 | 1442 | 44 | N/A  | N/A | 812 | 868 | 357 | 840 | 1043 | N/A | 4  |
|       |                      |      | Average    | 159 | 543  | 68 | 165% | 84  |     |     |     |     |      |     |    |

|                                         |                |      |
|-----------------------------------------|----------------|------|
| Basin Index Calculation                 | Average SWE    | 770  |
|                                         | Average Normal | 423  |
| South Coast Basin Index - June 15, 2022 |                | 182% |

Stations used in Basin Index:  
3A10, 3A19, 3A22P

| VANCOUVER ISLAND |                        |           | June 15, 2022 Data |       |      |         |      | June 15, 2022 Statistics |            | Historic Snow Water Equivalent (SWE) Data |      |         |        |         |           |          |
|------------------|------------------------|-----------|--------------------|-------|------|---------|------|--------------------------|------------|-------------------------------------------|------|---------|--------|---------|-----------|----------|
| Station ID       | Name                   | Elevation | YYYY-MM-DD         | Snow  | SWE  | Density | Code | SWE %                    | Percentile | 2021                                      | 2020 | Minimum | Median | Maximum | 1991-2020 | Years of |
|                  |                        | (masl)    |                    | Depth |      |         |      |                          |            |                                           |      |         |        |         |           |          |
|                  |                        |           |                    | (cm)  |      |         |      | (1991-2020)              | Record     | (mm)                                      | (mm) | (mm)    | (mm)   | (mm)    | (mm)      |          |
| 3B01             | FORBIDDEN PLATEAU      | 1100      | N                  | N     | N    | N       | N    | N/A                      | N/A        | NS                                        | NS   | 249     | 942    | 2149    | N/A       | 10       |
| 3B02A            | MOUNT COKELY           | 1190      | N                  | N     | N    | N       | N    | N/A                      | N/A        | NS                                        | NS   |         |        |         | N/A       | 0        |
| 3B04             | ELK RIVER              | 270       | N                  | N     | N    | N       | N    | N/A                      | N/A        | NS                                        | NS   |         |        |         | N/A       | 0        |
| 3B10             | UPPER THELWOOD LAKE    | 990       | N                  | N     | N    | N       | N    | N/A                      | N/A        | NS                                        | NS   | 551     | 1252   | 2413    | N/A       | 4        |
| 3B17P            | Wolf River Upper       | 1490      | 2022-06-15         |       | 946  |         |      | 166%                     | 80         | 295                                       | 107  | 0       | 298    | 2400    | 571       | 33       |
| 3B18             | WOLF RIVER (MIDDLE)    | 990       | N                  | N     | N    | N       | N    | N/A                      | N/A        | NS                                        | NS   |         |        |         | N/A       | 0        |
| 3B19             | WOLF RIVER (LOWER)     | 640       | N                  | N     | N    | N       | N    | N/A                      | N/A        | NS                                        | NS   |         |        |         | N/A       | 0        |
| 3B23P            | Jump Creek             | 1160      | 2022-06-15         | 142   | 674  | 47      |      | 224%                     | 86         | 60                                        | 0    | 0       | 8      | 2700    | 300       | 26       |
| 3B24P            | Heather Mountain Upper | 1190      | 2022-06-15         | 180   | 1179 | 66      |      | N/A                      | N/A        | 699                                       | 196  | 0       | 403    | 1296    | N/A       | 6        |
| 3B26P            | Mount Arrowsmith       | 1465      | 2022-06-15         | 202   | 858  | 42      |      | N/A                      | N/A        | 365                                       | 4    | 0       | 153    | 365     | N/A       | 4        |
|                  |                        |           | Average            | 175   | 914  | 52      |      | 195%                     | 83         |                                           |      |         |        |         |           |          |

|                                              |                |      |
|----------------------------------------------|----------------|------|
| Basin Index Calculation                      | Average SWE    | 810  |
|                                              | Average Normal | 436  |
| Vancouver Island Basin Index - June 15, 2022 |                | 186% |

Stations used in Basin Index:  
3B17P, 3B23P

| CENTRAL COAST |                     |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|---------------|---------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID    | Name                | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
|               |                     |                  |                    |                 |          |           |      |                             |                               |                                           |               |                  |                 |                  |                           |                 |
| 3C07          | WEDEENE RIVER SOUTH | 220              | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 3C08P         | Burnt Bridge Creek  | 1330             | 2022-06-15         | 49              | 271      | 55        |      | 294%                        | 90                            | 76                                        | 1             | 0                | 0               | 720              | 92                        | 23              |
|               |                     |                  | Average            | 49              | 271      | 55        |      | 294%                        | 90                            |                                           |               |                  |                 |                  |                           |                 |

|                                           |                |      |
|-------------------------------------------|----------------|------|
| Basin Index Calculation                   | Average SWE    | 271  |
|                                           | Average Normal | 92   |
| Central Coast Basin Index - June 15, 2022 |                | 294% |

Stations used in Basin Index:  
3C08P

| SKAGIT     |                    |           | June 15, 2022 Data |       |      |         |      | June 15, 2022 Statistics |             | Historic Snow Water Equivalent (SWE) Data |      |         |        |         |            |          |        |
|------------|--------------------|-----------|--------------------|-------|------|---------|------|--------------------------|-------------|-------------------------------------------|------|---------|--------|---------|------------|----------|--------|
| Station ID | Name               | Elevation | YYYY-MM-DD         | Snow  | SWE  | Density | Code | SWE %                    | Percentile  | 2021                                      | 2020 | Minimum | Median | Maximum | 1991-2020  | Years of |        |
|            |                    | (masl)    |                    | Depth | (mm) | %       |      | of Normal                | of Historic | SWE                                       | SWE  | SWE     | SWE    | SWE     | Normal SWE |          | Record |
| 3D01C      | SUMALLO RIVER WEST | 790       | N                  | N     | N    | N       | N    | N/A                      | N/A         | NS                                        | NS   |         |        |         |            | N/A      | 0      |
| 3D02       | LIGHTNING LAKE     | 1220      | N                  | N     | N    | N       | N    | N/A                      | N/A         | NS                                        | NS   |         |        |         |            | N/A      | 0      |
| 3D03A      | KLESILKWA          | 1175      | N                  | N     | N    | N       | N    | N/A                      | N/A         | NS                                        | NS   |         |        |         |            | N/A      | 0      |
|            |                    |           | Average            | N/A   | N/A  | N/A     |      | N/A                      | N/A         |                                           |      |         |        |         |            |          |        |

|                         |             |     |
|-------------------------|-------------|-----|
| Basin Index Calculation | Average SWE | N/A |
|-------------------------|-------------|-----|

Stations used in Basin Index:

|                                    |     |     |
|------------------------------------|-----|-----|
| Average Normal                     | N/A | N/A |
| Skagit Basin Index - June 15, 2022 | N/A |     |

| PEACE      |                     |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|------------|---------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID | Name                | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 4A02P      | Pine Pass           | 1400             | 2022-06-15         | 156             | 661      | 42        |      | 177%                        | 82                            | 669                                       | 434           | 0                | 322             | 1114             | 374                       | 29              |
| 4A03P      | Ware Upper          | 1565             | 2022-06-15         | 0               | 0        |           |      | N/A                         | N/A                           | 0                                         | 0             | 0                | 0               | 0                | N/A                       | 5               |
| 4A04P      | Ware Lower          | 971              | 2022-06-15         | 0               | 0        |           |      | N/A                         | N/A                           | 1                                         | 0             | 0                | 0               | 1                | N/A                       | 5               |
| 4A05       | GERMANSEN (UPPER)   | 1480             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4A06       | TUTIZZI LAKE        | 1045             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4A07       | LADY LAURIER LAKE   | 1440             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4A09P      | Pulpit Lake         | 1311             | 2022-06-15         | 0               | 0        |           |      | N/A                         | N/A                           | 0                                         | 0             | 0                | 0               | 2                | 0                         | 31              |
| 4A10       | FREDRICKSON LAKE    | 1325             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4A11       | TRYGVE LAKE         | 1410             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4A12       | TSAYDAYCHI LAKE     | 1190             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4A12P      | Tsaydaychi Lake     | 1195             | 2022-06-15         | 0               | 0        |           |      | N/A                         | N/A                           | 0                                         |               | 0                |                 | 0                | N/A                       | 1               |
| 4A13       | PHILIP LAKE         | 1035             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4A13P      | Philip Lake         | 1028             | 2022-06-15         |                 |          |           |      | N/A                         | N/A                           | 3                                         | 0             | 0                | 2               | 3                | N/A                       | 2               |
| 4A16       | MORFEE MOUNTAIN     | 1430             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 592              |                 | 592              | N/A                       | 1               |
| 4A18       | MOUNT SHEBA         | 1490             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            | 922              |                 | 922              | N/A                       | 1               |
| 4A18P      | MOUNT SHEBA         | 1484             | 2022-06-15         | 124             | 822      | 66        |      | N/A                         | N/A                           | 767                                       | 814           | 380              | 767             | 814              | N/A                       | 3               |
| 4A20P      | Monkman Creek       | 1570             | 2022-06-15         |                 | 211      |           |      | N/A                         | N/A                           | 5                                         | 69            | 0                | 5               | 69               | N/A                       | 3               |
| 4A21       | MOUNT STEARNS       | 1505             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4A25       | FORT ST. JOHN A     | 690              | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4A27P      | Kwadacha North      | 1554             | 2022-06-15         |                 | 0        |           |      | 0%                          | N/A                           | 0                                         | 0             | 0                | 0               | 225              | 13                        | 30              |
| 4A30P      | Aiken Lake          | 1050             | 2022-06-15         | 0               | 0        |           |      | 0%                          | N/A                           | 0                                         | 0             | 0                | 0               | 14               | 2                         | 34              |
| 4A31P      | Crying Girl Prairie | 1358             | 2022-06-15         |                 | 0        |           |      | N/A                         | N/A                           | 0                                         | 0             | 0                | 0               | 1                | N/A                       | 7               |
| 4A33P      | Muskwa-Kechika      | 1196             | 2022-06-15         |                 | 0        |           |      | N/A                         | N/A                           | 0                                         | 0             | 0                | 0               | 0                | N/A                       | 6               |
| 4A34P      | Dowling Creek       | 1456             | 2022-06-15         |                 | 224      |           |      | N/A                         | N/A                           | 47                                        |               |                  |                 |                  | N/A                       | 0               |
| 4A36P      | Parsnip Upper       | 790              | 2022-06-15         | 0               | 0        |           |      | N/A                         | N/A                           | 5                                         | 0             | 0                | 0               | 5                | N/A                       | 3               |
| 4A37P      | McQue Terrace       | 1200             | 2022-06-15         | 0               | 0        |           |      | N/A                         | N/A                           | 0                                         | 0             | 0                |                 | 0                | N/A                       | 2               |
|            |                     |                  | Average            | 31              | 137      | 54        |      | 59%                         | 82                            |                                           |               |                  |                 |                  |                           |                 |

|                                   |                |      |
|-----------------------------------|----------------|------|
| Basin Index Calculation           | Average SWE    | 220  |
|                                   | Average Normal | 130  |
| Peace Basin Index - June 15, 2022 |                | 170% |

Stations used in Basin Index:

4A02P, 4A27P, 4A30P

| SKEENA-NASS |                  |                  | June 15, 2022 Data |                 |          |           |      | June 15, 2022 Statistics    |                               | Historic Snow Water Equivalent (SWE) Data |               |                  |                 |                  |                           |                 |
|-------------|------------------|------------------|--------------------|-----------------|----------|-----------|------|-----------------------------|-------------------------------|-------------------------------------------|---------------|------------------|-----------------|------------------|---------------------------|-----------------|
| Station ID  | Name             | Elevation (masl) | YYYY-MM-DD         | Snow Depth (cm) | SWE (mm) | Density % | Code | SWE % of Normal (1991-2020) | Percentile of Historic Record | 2021 SWE (mm)                             | 2020 SWE (mm) | Minimum SWE (mm) | Median SWE (mm) | Maximum SWE (mm) | 1991-2020 Normal SWE (mm) | Years of Record |
| 4B01        | KIDPRICE LAKE    | 1370             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4B02        | JOHANSON LAKE    | 1420             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4B03A       | HUDSON BAY MTN.  | 1480             | 2022-06-14         | 25              | 125      | 50        |      | 139%                        |                               | 52                                        | 0             | 0                | 28              | 673              | 90                        | 38              |
| 4B04        | CHAPMAN LAKE     | 1460             | 2022-06-14         | 23              | 90       | 39        |      | N/A                         | N/A                           | NS                                        | NS            | 0                |                 | 0                | N/A                       | 1               |
| 4B06        | TACHEK CREEK     | 1140             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4B07        | MCKENDRICK CREEK | 1050             | 2022-06-14         | 0               | 0        |           |      | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4B08        | MOUNT CRONIN     | 1480             | 2022-06-14         | 70              | 315      | 45        |      | N/A                         | N/A                           | NS                                        | NS            | 376              | 681             | 742              | N/A                       | 5               |
| 4B10        | NINGUNSAW PASS   | 690              | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4B11A       | BEAR PASS        | 460              | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4B13A       | TERRACE AIRPORT  | 180              | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4B14        | EQUITY MINE      | 1420             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4B15        | LU LAKE          | 1300             | N                  | N               | N        | N         | N    | N/A                         | N/A                           | NS                                        | NS            |                  |                 |                  | N/A                       | 0               |
| 4B15P       | Lu Lake          | 1300             | 2022-06-15         | 0               | 0        |           |      | 0%                          | N/A                           | 4                                         | 4             | 0                | 0               | 14               | 3                         | 24              |

|       |              |      |            |     |      |    |      |    |     |     |   |     |      |     |    |
|-------|--------------|------|------------|-----|------|----|------|----|-----|-----|---|-----|------|-----|----|
| 4B16P | Shedin Creek | 1480 | 2022-06-15 | 106 | 460  | 43 | 181% | 76 | 244 | 11  | 0 | 114 | 905  | 254 | 24 |
| 4B17P | Tsai Creek   | 1360 | 2022-06-15 | 143 | 1012 | 71 | 186% | 87 | 653 | 271 | 0 | 385 | 1778 | 545 | 24 |
| 4B18P | Cedar-Kiteen | 885  | 2022-06-15 |     | 4    |    | 28%  | 60 | 0   | 5   | 0 | 0   | 125  | 14  | 21 |
|       |              |      | Average    | 52  | 251  | 50 | 107% | 74 |     |     |   |     |      |     |    |

|                                         |                |      |
|-----------------------------------------|----------------|------|
| Basin Index Calculation                 | Average SWE    | 320  |
|                                         | Average Normal | 181  |
| Skeena-Nass Basin Index - June 15, 2022 |                | 177% |

Stations used in Basin Index:  
4B03A, 4B15P, 4B16P, 4B17P, 4B18P

| LIARD      |                     |                     | June 15, 2022 Data |                       |             |              |      | June 15, 2022 Statistics          |                                     | Historic Snow Water Equivalent (SWE) Data |                     |                        |                       |                        |                                 |                    |
|------------|---------------------|---------------------|--------------------|-----------------------|-------------|--------------|------|-----------------------------------|-------------------------------------|-------------------------------------------|---------------------|------------------------|-----------------------|------------------------|---------------------------------|--------------------|
| Station ID | Name                | Elevation<br>(masl) | YYYY-MM-DD         | Snow<br>Depth<br>(cm) | SWE<br>(mm) | Density<br>% | Code | SWE %<br>of Normal<br>(1991-2020) | Percentile<br>of Historic<br>Record | 2021<br>SWE<br>(mm)                       | 2020<br>SWE<br>(mm) | Minimum<br>SWE<br>(mm) | Median<br>SWE<br>(mm) | Maximum<br>SWE<br>(mm) | 1991-2020<br>Normal SWE<br>(mm) | Years of<br>Record |
|            |                     |                     |                    |                       |             |              |      |                                   |                                     |                                           |                     |                        |                       |                        |                                 |                    |
| 4C01       | SIKANNI LAKE        | 1385                | N                  | N                     | N           | N            | N    | N/A                               | N/A                                 | NS                                        | NS                  |                        |                       |                        | N/A                             | 0                  |
| 4C01P      | Sikanni Lake        | 1387                | 2022-06-15         | 0                     | 0           |              |      | N/A                               | N/A                                 | 4                                         |                     | 0                      | 0                     | 4                      | N/A                             | 4                  |
| 4C02       | SUMMIT LAKE         | 1280                | N                  | N                     | N           | N            | N    | N/A                               | N/A                                 | NS                                        | NS                  |                        |                       |                        | N/A                             | 0                  |
| 4C03       | DEASE LAKE          | 820                 | N                  | N                     | N           | N            | N    | N/A                               | N/A                                 | NS                                        | NS                  |                        |                       |                        | N/A                             | 0                  |
| 4C05       | FORT NELSON AIRPORT | 380                 | N                  | N                     | N           | N            | N    | N/A                               | N/A                                 | NS                                        | NS                  |                        |                       |                        | N/A                             | 0                  |
|            |                     |                     | Average            | N/A                   | N/A         | N/A          |      | N/A                               | N/A                                 |                                           |                     |                        |                       |                        |                                 |                    |

|                                   |                |     |
|-----------------------------------|----------------|-----|
| Basin Index Calculation           | Average SWE    | N/A |
|                                   | Average Normal | N/A |
| Liard Basin Index - June 15, 2022 |                | N/A |

Stations used in Basin Index:  
N/A

| STIKINE    |               |                     | June 15, 2022 Data |               |             |              |      | June 15, 2022 Statistics          |                                     | Historic Snow Water Equivalent (SWE) Data |             |             |             |                    |           |                    |
|------------|---------------|---------------------|--------------------|---------------|-------------|--------------|------|-----------------------------------|-------------------------------------|-------------------------------------------|-------------|-------------|-------------|--------------------|-----------|--------------------|
| Station ID | Name          | Elevation<br>(masl) | YYYY-MM-DD         | Snow          | SWE<br>(mm) | Density<br>% | Code | SWE %<br>of Normal<br>(1991-2020) | Percentile<br>of Historic<br>Record | 2021                                      | 2020        | Minimum     | Median      | Maximum            | 1991-2020 | Years of<br>Record |
|            |               |                     |                    | Depth<br>(cm) |             |              |      |                                   |                                     | SWE<br>(mm)                               | SWE<br>(mm) | SWE<br>(mm) | SWE<br>(mm) | Normal SWE<br>(mm) |           |                    |
| 4D02       | ISKUT         | 1000                | N                  | N             | N           | N            | N    | N/A                               | N/A                                 | NS                                        | NS          |             |             |                    | N/A       | 0                  |
| 4D10P      | Tumeka Creek  | 1220                | 2022-06-15         |               | 120         |              |      | 1595%                             | 99                                  | 140                                       | 36          | 0           | 0           | 140                | 8         | 22                 |
| 4D11P      | Kinaskan Lake | 1020                | 2022-06-15         | 0             | 0           |              |      | 0%                                | N/A                                 | 0                                         | 0           | 0           | 0           | 15                 | 1         | 26                 |
|            |               |                     | Average            | 0             | 60          | N/A          |      | 798%                              | 99                                  |                                           |             |             |             |                    |           |                    |

|                                     |                |       |
|-------------------------------------|----------------|-------|
| Basin Index Calculation             | Average SWE    | 60    |
|                                     | Average Normal | 5     |
| Stikine Basin Index - June 15, 2022 |                | 1331% |

Stations used in Basin Index:  
4D10P, 4D11P

| NORTHWEST  |            |                     | June 15, 2022 Data |               |             |              |      | June 15, 2022 Statistics          |                                     | Historic Snow Water Equivalent (SWE) Data |             |             |             |                    |           |                    |
|------------|------------|---------------------|--------------------|---------------|-------------|--------------|------|-----------------------------------|-------------------------------------|-------------------------------------------|-------------|-------------|-------------|--------------------|-----------|--------------------|
| Station ID | Name       | Elevation<br>(masl) | YYYY-MM-DD         | Snow          | SWE<br>(mm) | Density<br>% | Code | SWE %<br>of Normal<br>(1991-2020) | Percentile<br>of Historic<br>Record | 2021                                      | 2020        | Minimum     | Median      | Maximum            | 1991-2020 | Years of<br>Record |
|            |            |                     |                    | Depth<br>(cm) |             |              |      |                                   |                                     | SWE<br>(mm)                               | SWE<br>(mm) | SWE<br>(mm) | SWE<br>(mm) | Normal SWE<br>(mm) |           |                    |
| 4E01       | LOG CABIN  | 900                 | N                  | N             | N           | N            | N    | N/A                               | N/A                                 | NS                                        | NS          |             |             |                    | N/A       | 0                  |
| 4E02B      | ATLIN LAKE | 730                 | N                  | N             | N           | N            | N    | N/A                               | N/A                                 | NS                                        | NS          |             |             |                    | N/A       | 0                  |
|            |            |                     | Average            | N/A           | N/A         | N/A          |      | N/A                               | N/A                                 |                                           |             |             |             |                    |           |                    |

|                                       |                |     |
|---------------------------------------|----------------|-----|
| Basin Index Calculation               | Average SWE    | N/A |
|                                       | Average Normal | N/A |
| Northwest Basin Index - June 15, 2022 |                | N/A |

Stations used in Basin Index:

## BRITISH COLUMBIA

|                                              |                |      |
|----------------------------------------------|----------------|------|
| Basin Index Calculation                      | Average SWE    | 529  |
|                                              | Average Normal | 266  |
| British Columbia Basin Index - June 15, 2022 |                | 198% |

Stations used in Basin Index:  
All stations with measurements in B.C.

| Code | Description                                   |
|------|-----------------------------------------------|
| A    | Sampling problems were encountered            |
| B    | Early or late sampling                        |
| C    | Early or late sampling w/problems encountered |
| E    | Estimate                                      |
| N    | Scheduled, but not sampled                    |
| N/A  | Not available                                 |
| NS   | Not scheduled                                 |
| SD   | Snow Depth                                    |
| SWE  | Snow Water Equivalent                         |
| T    | Trace Amount                                  |