

Snow Survey and Water Supply Bulletin – March 1st, 2023

The March 1st snow survey is now complete. Data from 115 manual snow courses and 94 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 (ECCC) and the provincial Climate Related Monitoring Program have been used to form the basis of the following report.

Executive Summary

- The B.C. snow pack increased significantly to near normal for March 1st with the average of all snow measurements across the province measuring 94% of normal (February 1st: 79%).
- The Fraser River at Hope snow index is near normal at 101%.
- Above normal snow indicates a higher risk for snowmelt related spring flooding for the Upper Fraser West, Chilcotin, Okanagan, Lower Thompson and Boundary basins.
- Basins with near normal or slightly below normal are still at risk for spring flooding if adverse weather occurs.
- La Niña conditions existed during the fall and winter 2022-23. Typically, La Niña years lead to increased late season snowfalls and delayed onset of snowmelt.
- By March 1st, nearly 80% of the seasonal snow pack has accumulated, on average.
- With a couple more months of potential snow accumulation, seasonal snow packs can still change significantly based on weather.

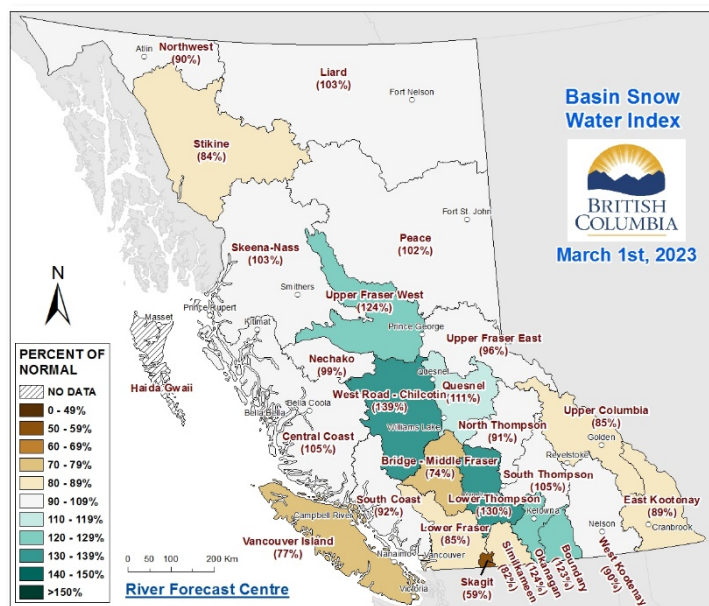


Figure 1. March 1st, 2023 Snow Basin Water Index Map of British Columbia.
Larger Version available in Report

Table 1. March 1st 2023 Snow Basin Indices in B.C.

Basin	% of Normal	Basin	% of Normal	Basin	% of Normal
Upper Fraser West	124	North Thompson	91	South Coast	92
Upper Fraser East	96	South Thompson	105	Vancouver Island	77
Nechako	99	Fraser River	94	Central Coast	105
Middle Fraser	94	Upper Columbia	85	Skagit	59
Lower Thompson*	130	West Kootenay	90	Peace	102
Bridge*	74	East Kootenay	89	Skeena-Nass	103
Chilcotin*	139	Boundary	123	Liard	103
Quesnel*	111	Okanagan	124	Stikine	84
Lower Fraser	85	Similkameen	82	Northwest	90
		Nicola	123	Fraser R @ Hope	101

British Columbia 94% of Normal

* Sub-basin of Middle Fraser

Next scheduled snow bulletin release: April 12th, 2023



Snow Survey and Water Supply Bulletin – March 1st, 2023

Weather

Temperatures across British Columbia were near normal for February. Regions of the province ranged from -1.5 °C below normal to +1.5°C above normal for the month. Stations on Vancouver Island measured the lowest temperature anomalies relative to normal.

February was drier than normal for Vancouver Island, the South Coast and regions in the South Interior. Near normal precipitation accumulated in the Peace and Northeast. Other regions of B.C., including the North Coast, Skeena/Bulkley and Cariboo recorded above normal precipitation. The Quesnel Airport weather station measured the 3rd wettest February since 1893. Prince Rupert

was the 4th wettest since 1909, Williams Lake Airport was the 4th wettest since 1961, Terrace was the 5th wettest since 1913 and Kamloops was the 7th wettest since 1891. The above normal precipitation had a significant impact in mountain snow accumulation during the month.

Seasonal precipitation occurred during the first week of March, resulting in modest snow accumulation, so far. The upcoming weather forecast shows two strong atmospheric rivers expected to affect California in the next week. British Columbia is expected to be impacted with light to moderate precipitation during this time.

Snowpack

Snow basin indices (SBI) for March 1st, 2023 range from a low of 59% of normal in the Skagit to a high of 124% in the Upper Fraser West and Okanagan (Table 1, 2 and Figure 1, 5, 6). The provincial snow pack is near normal for March 1st, with the average of all snow measurements across B.C. at 94%, increasing significantly from 79% of normal on Feb 1st.

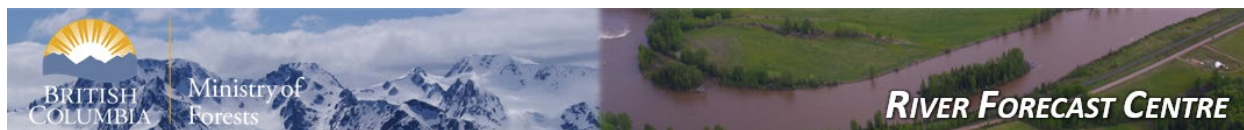
In general, most regions in the province are near normal (90-110% of normal) for March 1st. Above normal snow pack was measured in the following basins in the Interior, the Upper Fraser West (124%), Okanagan (124%), Boundary (123%), and sub-basins of the Middle Fraser – Quesnel (111%), Chilcotin (139%) and Lower Thompson (130%). Areas with below normal snow pack include the

Stikine (84%), Upper Columbia (85%), East Kootenay (89%), Vancouver Island (77%), Lower Fraser (85%), Similkameen (82%), Skagit (59%) and the Bridge sub-basin of the Middle Fraser (74%).

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 94%, increasing significantly from 75% on February 1st.

The River Forecast Centre calculates an additional Snow Basin Index for the Fraser River at Hope based on each basin's contribution to the total annual flow of the

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Snow Survey and Water Supply Bulletin – March 1st, 2023

river. For example, the Upper Fraser East contributes approximately 30% of the total flow for the Fraser River at Hope, the North Thompson about 16%, the South Thompson about 11% and the Quesnel approximately 9%. The Fraser River at Hope Snow Basin Index is 101%, which is essentially average. It ranks as the 27th highest in the past 54 years.

All regions increased in relative snow pack compared to February 1st. Many regions measured very large increases over the month. These include the Chilcotin (+41 percentage points), Liard (+35), North Thompson (+28), Upper Fraser West (+24),

Upper Fraser East (+23), Peace (+21), and Quesnel (+20).

Last year, the average of all snow stations in British Columbia for March 1st, 2022 was 105% (Table 3). The majority of snow basins are lower this year compared to last year. The large exceptions include the Upper Fraser West (+21 percentage points higher), Lower Thompson (+31), Boundary (+37), Okanagan (+33), and Nicola (+34).

Please review the full summary data tables and SBI bar charts at the end of this report for further interpretation.

Table 2 – B.C. Snow Basin Indices – March 1, 2023 compared to February 1, 2023

Basin	March 1 st % of Normal (Feb 1 value)	Percentage Point Change Feb 1 to Mar 1	Basin	March 1 st % of Normal (Feb 1 value)	Percentage Point Change Feb 1 to Mar 1
Fraser River Region			Columbia Region		
Upper Fraser East	96 (73)	↑ +23	Upper Columbia	85 (72)	↑ +13
Upper Fraser West	124 (100)	↑ +24	West Kootenay	90 (84)	↑ +6
Nechako	99 (84)	↑ +15	East Kootenay	89 (84)	↑ +5
Middle Fraser	94 (75)	↑ +19	Boundary	123 (116)	↑ +7
Lower Thompson*	130 (115)	↑ +15	Okanagan	124 (121)	↑ +3
Bridge*	74 (64)	↑ +10	Similkameen	82 (77)	↑ +5
Chilcotin*	139 (98)	↑ +41	Northern Region		
Quesnel*	111 (91)	↑ +20	Peace	102 (81)	↑ +21
Lower Fraser	85 (71)	↑ +14	Skeena-Nass	103 (86)	↑ +17
North Thompson	91 (63)	↑ +28	Liard	103 (68)	↑ +35
South Thompson	105 (86)	↑ +19	Stikine	84 (67)	↑ +17
Coastal Region			Northwest	90 (N/A ^a)	N/A ^a
South Coast	92 (73)	↑ +19	Additional		
Vancouver Island	77 (75)	↑ +2	Fraser River	94 (75)	↑ +19
Central Coast	105 (88)	↑ +17	Fraser R at Hope	101 (N/A ^a)	N/A ^a
Skagit	59 (50)	↑ +9	Nicola**	123 (N/A ^a)	N/A ^a
British Columbia 94 (79) ↑ +15					

^a No snow surveys scheduled for February 1st 2023

* Sub-region of the Middle Fraser

** Sub-basin of Lower Thompson – includes representative stations within Okanagan

Snow Survey and Water Supply Bulletin – March 1st, 2023

Table 3 – B.C. Snow Basin Indices – March 1, 2023 compared to March 1, 2022

Basin	March 1 st % of Normal (2022 value)	Percentage Point Change 2022 to '23	Basin	March 1 st % of Normal (2022 value)	Percentage Point Change 2022 to '23
Fraser River Region			Columbia Region		
Upper Fraser East	96 (129)	↓ -33	Upper Columbia	85 (123)	↓ -38
Upper Fraser West	124 (103)	↑ +21	West Kootenay	90 (108)	↓ -18
Nechako	99 (95)	↑ +4	East Kootenay	89 (111)	↓ -22
Middle Fraser	94 (111)	↓ -17	Boundary	123 (86)	↑ +37
Lower Thompson*	130 (99)	↑ +31	Okanagan	124 (91)	↑ +33
Bridge*	74 (105)	↓ -31	Similkameen	82 (100)	↓ -18
Chilcotin*	139 (163)	↓ -24	Northern Region		
Quesnel*	111 (125)	↓ -14	Peace	102 (99)	↑ +3
Lower Fraser	85 (95)	↓ -10	Skeena-Nass	103 (109)	↓ -6
North Thompson	91 (124)	↓ -33	Liard	103 (123)	↓ -20
South Thompson	105 (102)	↑ +3	Stikine	84 (110)	↓ -26
Coastal Region			Northwest	90 (123)	↓ -33
South Coast	92 (94)	↓ -2	Additional		
Vancouver Island	77 (83)	↓ -6	Fraser River	94 (107)	↓ -13
Central Coast	105 (101)	↑ +4	Fraser R at Hope	101 (119)	↓ -18
Skagit	59 (98)	↓ -39	Nicola**	123 (89)	↑ +34
British Columbia 94 (105) ↓ -11					

* Sub-region of the Middle Fraser

** Sub-basin of Lower Thompson – includes representative stations within Okanagan

Two manual snow courses measured all-time record high snow pack for March 1st:

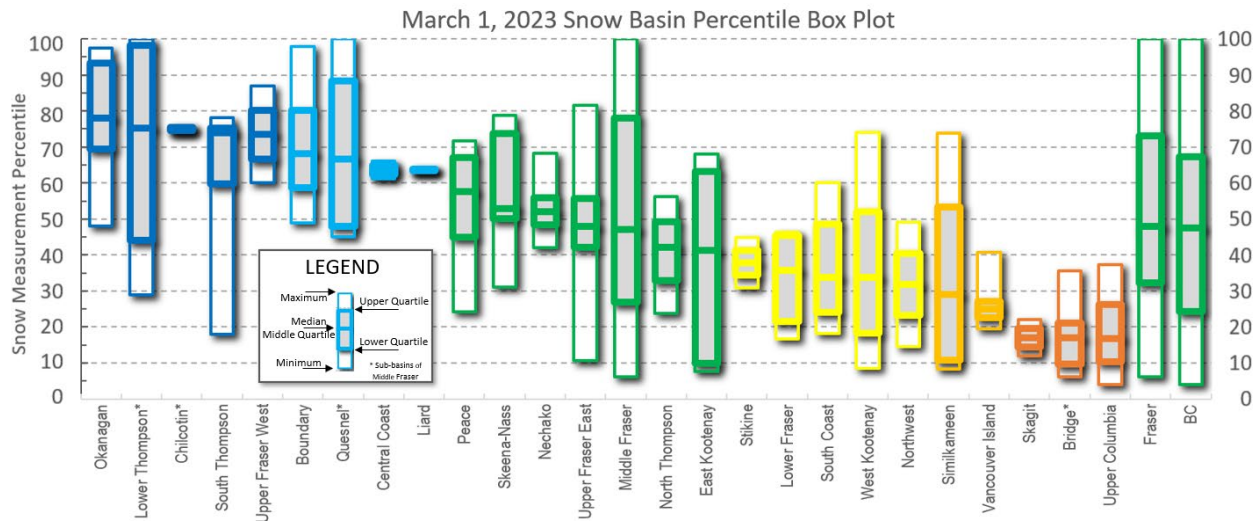
- 1C25 Lac Le Jeune: 210 mm SWE (185% of normal) – 50 years of record (Lower Thompson – Middle Fraser)
- 1C33A Granite Mountain: 282 mm SWE (162% of normal) – 17 years of record (Quesnel – Middle Fraser)

Percentiles express variability within datasets and are a particularly important metric for assessing conditions in regions for which percent of normal can be extremely high or low, ranking a SWE value amongst its historical values. The region with the highest average

percentile is the Okanagan (78th percentile); the region with the lowest is the Skagit (17th). A box plot displaying the percentile variance ordered from highest to lowest median, including sub-basins, is provided below in Figure 2.

Snow Survey and Water Supply Bulletin – March 1st, 2023

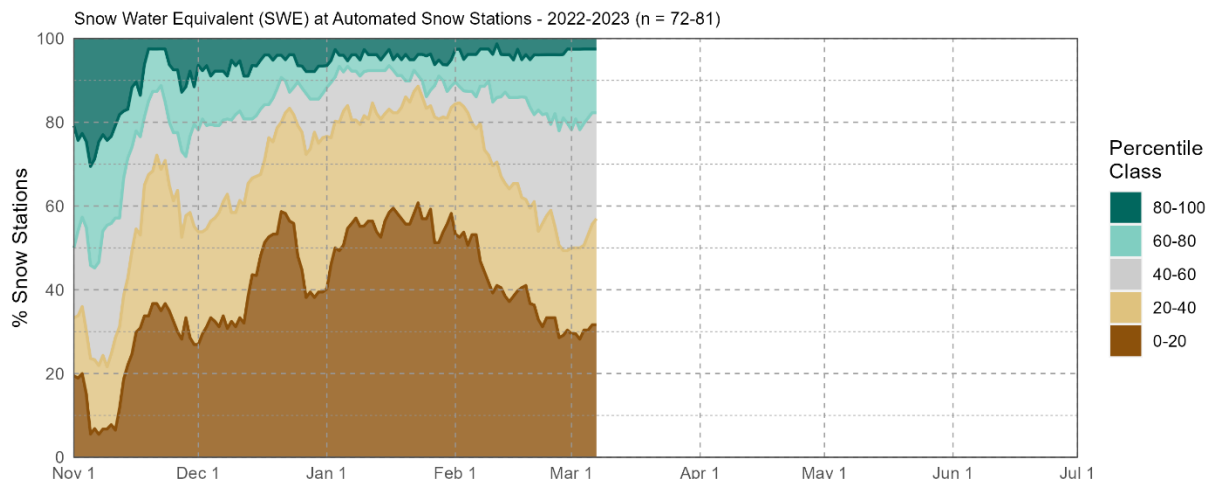
Figure 2. Snow Basin Percentile Box Plot – March 1st, 2023



The B.C. automated snow weather stations (ASWS) provide real-time data for snow water equivalent and snow depth, usually at a one-hour interval. Snow water equivalent data can be summarized daily to display changes over the season. Figure 3 shows the percentage of snow stations that measure a percentile class over time. The percentile class ranges are well

above normal (80th to 100th percentile), above normal (60th to 80th), normal (40th to 60th), below normal (20th to 40th) and well below normal (0 to 20th). There was a significant shift to more stations near normal during February. For comparison, Figure 4 displays the changes in percentile classes at the automated snow weather stations last year (2021-22).

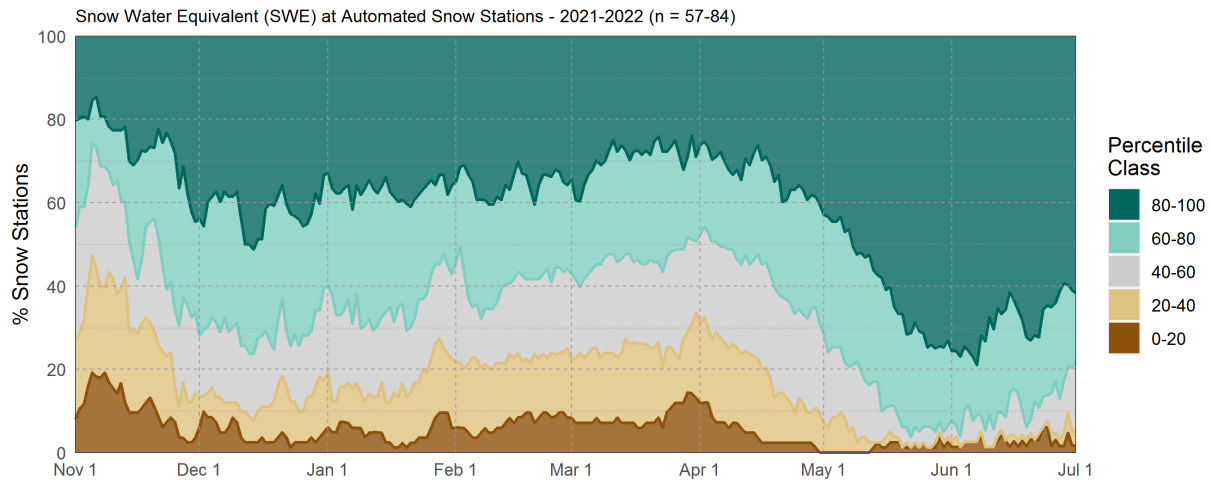
Figure 3. Snow Water Equivalent Percentiles at Automated Snow Weather Stations (2022-2023)



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Snow Survey and Water Supply Bulletin – March 1st, 2023

Figure 4. Snow Water Equivalent Percentiles at Automated Snow Weather Stations (2021-2022)



Seasonal Volume Forecasts

With snow pack measurements near normal throughout much of the province, the seasonal volume runoff forecasts for March 1st are primarily near normal (90-110% of normal). This includes forecasts for the Upper Fraser, Quesnel River, Thompson Basin, Bulkley, Skeena, Nicola River, Okanagan Lake, Kalamalka-Wood Lake, Similkameen River at Hedley and the Cowichan River. Below normal flow is predicted for the Similkameen River at Nighthawk. Above normal inflow is forecast for Nicola Lake using the original volume forecast model.

In 2021, an updated inflow model was developed for Nicola Lake, Nicola River, Okanagan Lake and Kalamalka-Wood Lake. The new model incorporates ten additional

years of data, including several years in the 2010s with extremely high or low runoff, as well as several other substantial refinements (see [February 1st 2021 Snow Bulletin](#) for additional details). In the past two seasons, both the original and updated models were run concurrently to examine the effects of the updates.

The updated model incorporates long-range seasonal weather forecasts, which can be highly variable for the South Interior. The newer model is forecasting below normal seasonal volumes for Nicola Lake, Nicola River, Okanagan Lake and Kalamalka-Wood Lake despite the relatively high March 1st snow basin indices for these regions.

Outlook

The Climate Prediction Center (CPC) shows that the El Niño-Southern Oscillation (ENSO)

climate pattern demonstrated La Niña conditions during the fall of 2022. This is the

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Snow Survey and Water Supply Bulletin – March 1st, 2023

third La Niña in a row (“triple dip”), with it present during the fall-winter of 2020-21 and 2021-22. La Niña occurs when oceanic temperature anomalies along the equatorial Pacific Ocean region are below normal for an extended period. Historically, La Niña conditions create cooler temperatures for British Columbia and wetter weather in the South Coast and Vancouver Island during the winter and spring months.

Forecasts from the CPC indicate a transition from La Niña to ENSO-neutral conditions through spring (March-May 2023), the likelihood of ENSO-neutral conditions is 94%. Historically, when winter La Niña conditions exist in British Columbia, the April 1st snow

pack is often above normal, particularly for the South Coast and Southern Interior. La Niña conditions can lead to late-season snow accumulation and delayed snowmelt, which increases the risk for freshet flooding (e.g. spring of 2022).

Seasonal weather forecasts from late February by ECCC indicate a greater likelihood of below normal temperatures from March through May for all of B.C. with the highest likelihood of cold temperatures occurring along the coast. There is a slight possibility of above normal precipitation in the Interior near Williams Lake and below normal precipitation in the East Kootenay near Fernie for March through May.

Spring Flood Risk (Freshet)

Flooding is a provincial risk every spring due to a combination of snowmelt and/or rainfall (also known as freshet). Rivers are at risk for flooding, even if the snow pack is below normal. The weather conditions during spring play a critical role in the rate at which the snow melts. For example, a gradual warming under dry conditions is ideal to lessen the flood risk. A lengthy cold period with high amounts of precipitation followed by a sudden extreme heat wave could lead to catastrophic conditions, especially if additional rain follows. Spring weather is impossible to predict with accuracy in advance. Communities and residents vulnerable to flooding should prepare accordingly. information for [Get Prepared for Floods](#) is available from Emergency Management and Climate Readiness BC.

Typically, regions with above normal snow pack have a higher risk for flooding. As of March 1st, 2023, these areas include the Upper Fraser West (124% of normal snow pack), the Lower Thompson (130%), the Chilcotin (139%), Quesnel (111%), Boundary (123%), and Okanagan (124%).

Regions with near normal or slightly below normal snow pack measurements for March 1st can still be susceptible to spring flooding based on weather conditions for the next four months.

November 2021 Atmospheric River Floods

The unprecedented and catastrophic flooding that occurred in November 2021 has made many rivers more vulnerable to flooding



Snow Survey and Water Supply Bulletin – March 1st, 2023

during freshet. Due to the significant erosion and possible changes in river channel morphology that occurred within many areas (including but not limited to the Coldwater River, Nicola River, Tulameen River, Coquihalla River and lower Fraser River), rivers may be at increased vulnerability to high flows at lower levels than previous freshet seasons. The freshet season differentiates from the fall flooding season as flows tend to be sustained for longer periods of time during snowmelt compared to shorter duration rainfall events. Currently, the Nicola River has a higher risk as it measures above normal snow pack for March 1st.

Extreme Weather Events

In general, flooding usually occurs due to extreme weather. In 2021, there were two extreme weather events that resulted in catastrophe: the heat dome in late-June and atmospheric rivers in November. Alpine temperatures during the heat dome reached up to 38°C and triggered extraordinary snow melt rates (80-100 mm SWE / day) at high elevation automated snow weather stations with snow remaining. If such an extreme heat event occurred earlier in the freshet season when there is more snow to melt (May or early-June), it could lead to significant flooding at a provincial scale.

Atmospheric rivers tend to affect the province primarily between September through January. However, strong storms can occur as early as August for the North Coast and there are numerous examples of atmospheric rivers occurring on the South Coast into February

and March. It is less likely that these events will occur in May or June, but not impossible.

Although not as extreme as the previous examples, the most likely cause for major flooding would be a period of persistent cool temperatures and wet weather into the late spring, followed by a sudden heat wave of at least five or more days. There is evidence that 1948 and 1894 floods on the Fraser River were caused by this scenario. Based on active manual snow surveys that were sampled in 1948, the snow conditions for March 1st, 1948 were average, showing the importance of spring weather to flooding. A secondary risky scenario is a widespread heavy rainfall event that occurs during the high flows from snowmelt.

Wrap-around low pressure, or cold low, systems pose an additional risk of primarily rain-driven flooding. The risk of these events occurring increases in June and typically extends into July. These systems can deliver extreme rainfall which wraps around the province and typically leads to upslope precipitation enhancement to eastern slope mountainous regions. These can be augmented or enhanced by snowmelt and high antecedent streamflow conditions. Flood events from this phenomena have occurred in the Peace Region in 2012 and 2016, Fernie (and Calgary/Alberta) in 2013, and in the Chilcotin in 2019.

Gaps in Snow Monitoring

Regions in the province that lack physical snow monitoring (manual or automated) include:

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Snow Survey and Water Supply Bulletin – March 1st, 2023

- Cache Creek and Bonaparte River. There were no March 1st measurements at 1C32 Deadman River or 1C42 Caverhill Lake New. A new automated snow weather station was built last summer for Deadman River (1C32P), and its March 1st measurement of 248 mm SWE would be the 2nd highest at 1C32 in 37 years.
- The Nazko and West Road River regions no longer have snow monitoring. This region experienced intense flooding in 2018 and sustained high flows in 2020.
- The Chilako River (just north of the West Road River).
- Salmon River near Prince George.

These regions typically are the first rivers in the season to experience significant increases in flow from snowmelt due to their lower elevation and it's possible the snow pack is very high.

Summary

By early March, approximately 80% of the seasonal provincial snow pack typically accumulates. Snow pack throughout B.C. ranges from 59 to 124% of normal. The average for all snow measurements across the province for March 1st is 94% of normal, increasing from 79% on February 1st. The Fraser River at Hope is 101% of normal. Several regions in the Interior are above normal and indicate a higher risk for snowmelt related flooding during the spring months (freshet).

The combination of normal to above normal March 1st snow pack, La Niña conditions

Remote sensing is supporting areal-based assessment of snow coverage in these regions; however, it is difficult to accurately determine seasonal flood risks in these areas due to lack of on-the-ground measurements.

La Niña Conditions

Under La Niña conditions, the snow pack can accumulate into late spring. Areas in the South Interior (including the Okanagan, Boundary and Kootenay) can receive significant additional precipitation in March and April which could increase Snow Basin Indices for April 1st or May 1st.

Typically, freshet (snowmelt) flood risk is limited on Vancouver Island and the South Coast as precipitation from Atmospheric Rivers in the Fall/Winter period overshadows the effect of snowmelt during spring

forecast to persist through spring, and seasonal weather forecasts that predict cooler conditions for the province means an elevated risk for freshet-related flooding. Snow pack is also only one factor related to freshet flood risk. Weather conditions from April through June determine the timing, magnitude and rate of snow melt, and heavy rainfall events can exacerbate the situation. Flooding is possible in years with normal or even below-normal, snow pack. Conversely, high snow pack does not typically lead to flooding without significant contributing weather during the snow melt season.



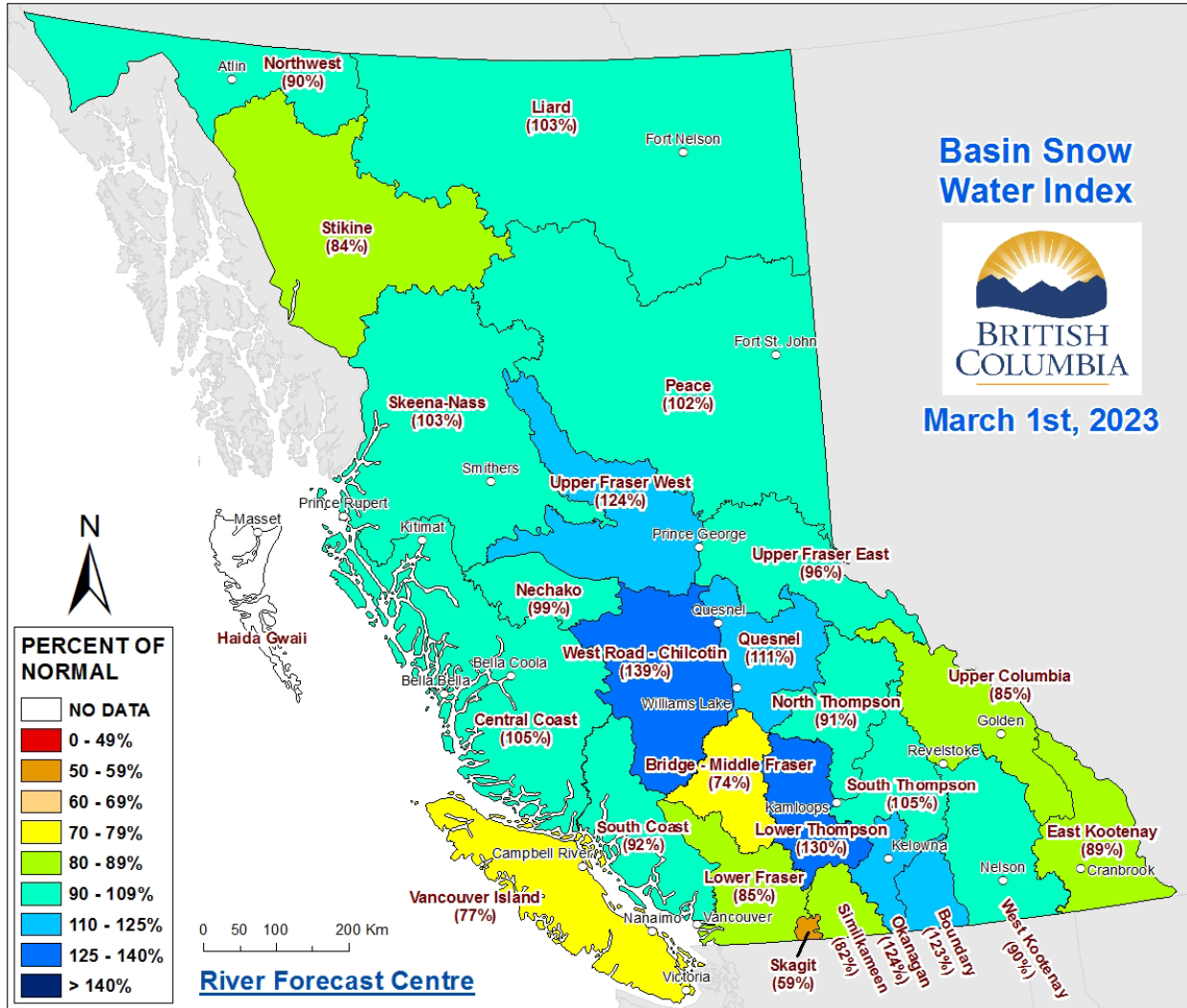
Snow Survey and Water Supply Bulletin – March 1st, 2023

The River Forecast Centre continues to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the April 1st, 2023 bulletin scheduled for release on April 12th.

River Forecast Centre
March 8, 2023

Snow Survey and Water Supply Bulletin – March 1st, 2023

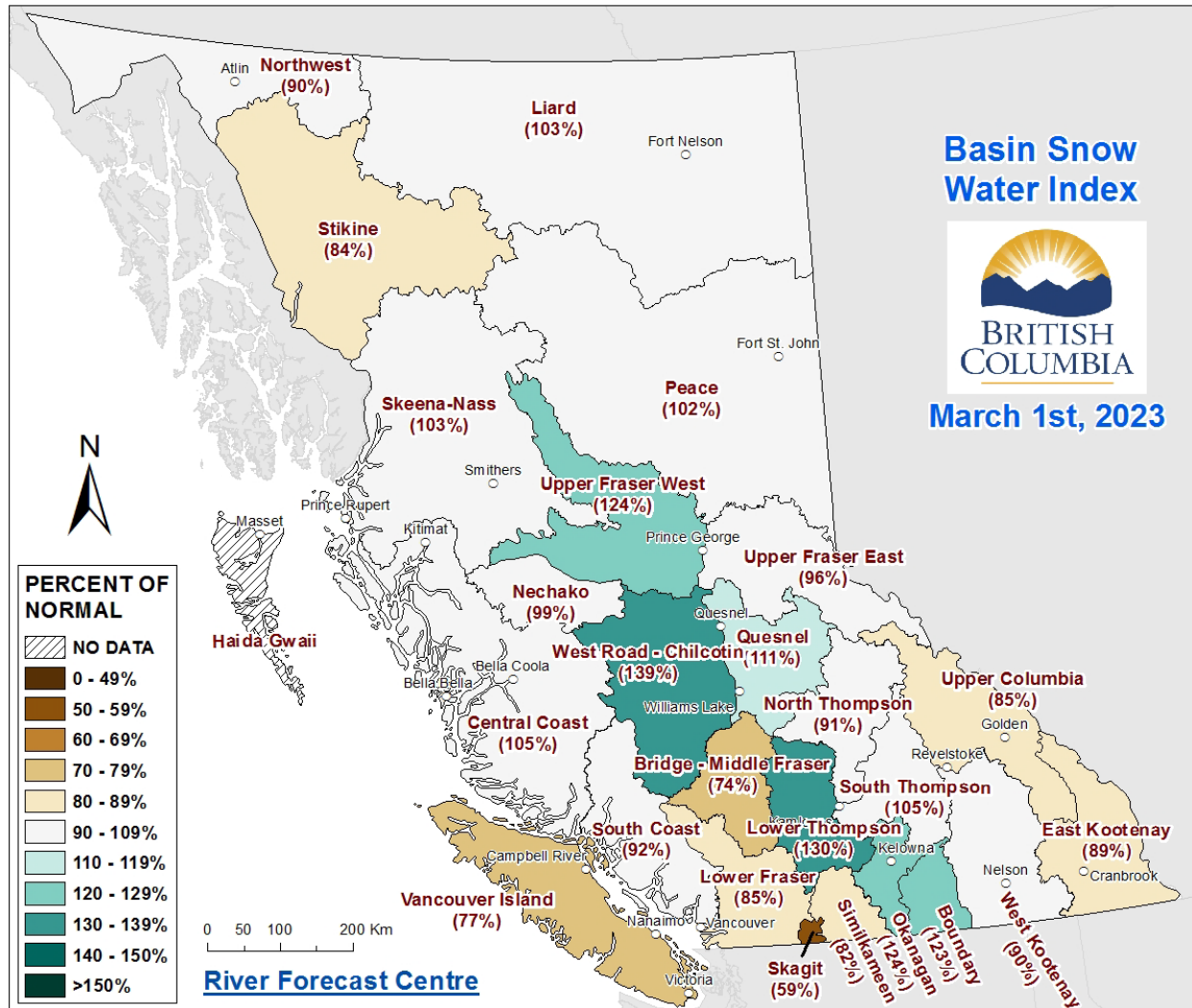
Figure 5: Basin Snow Water Index – March 1st, 2023



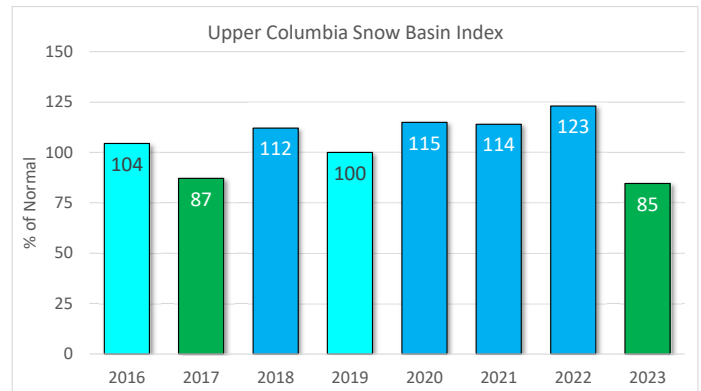
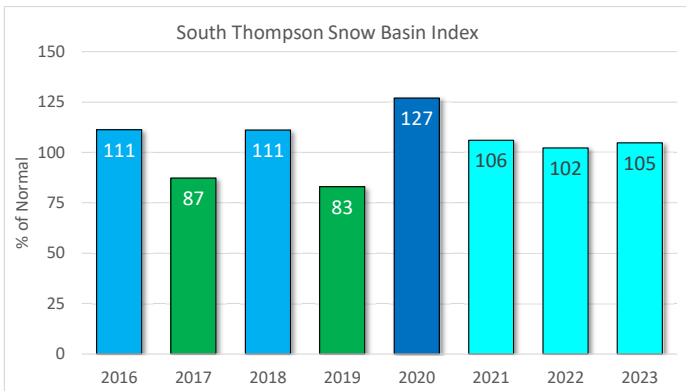
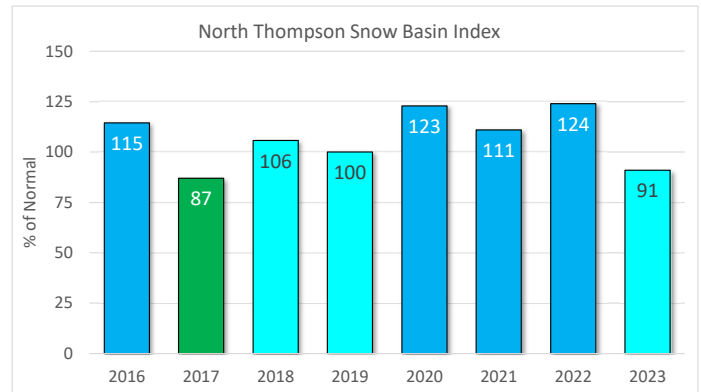
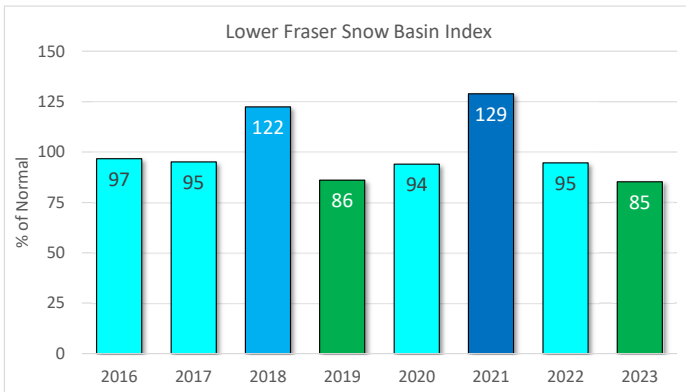
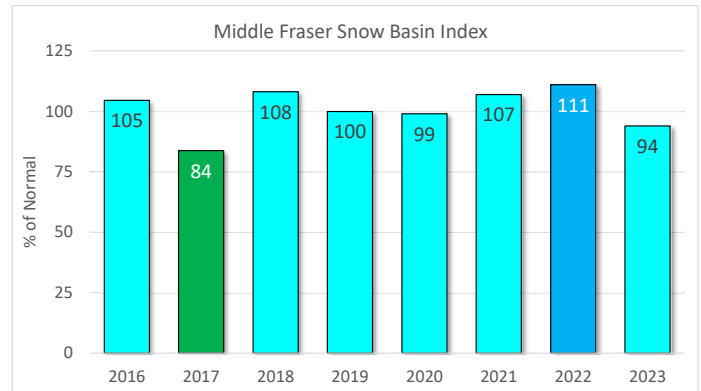
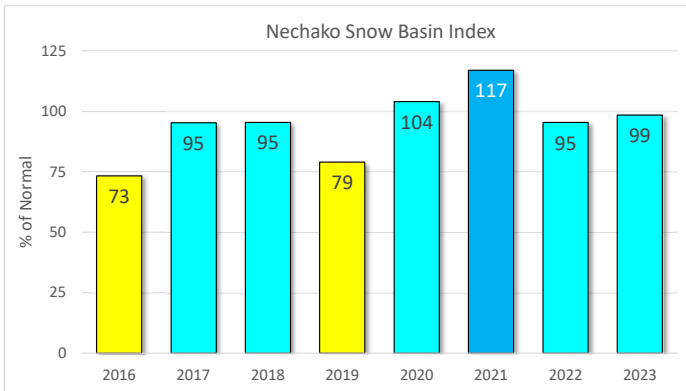
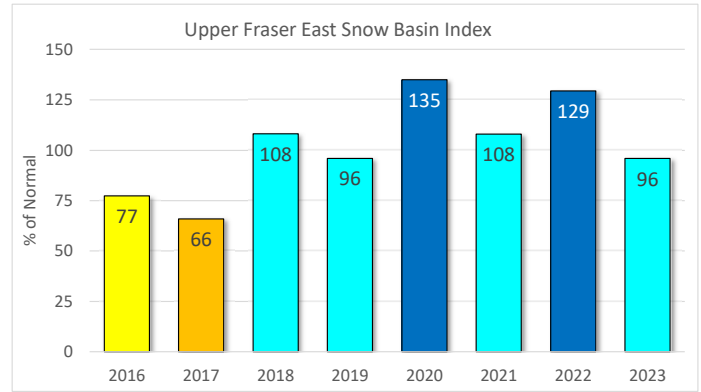
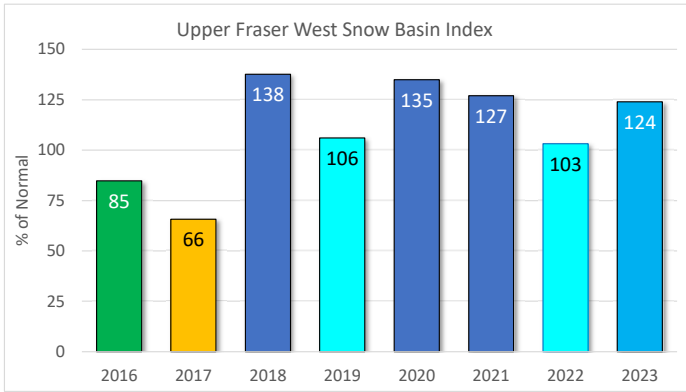
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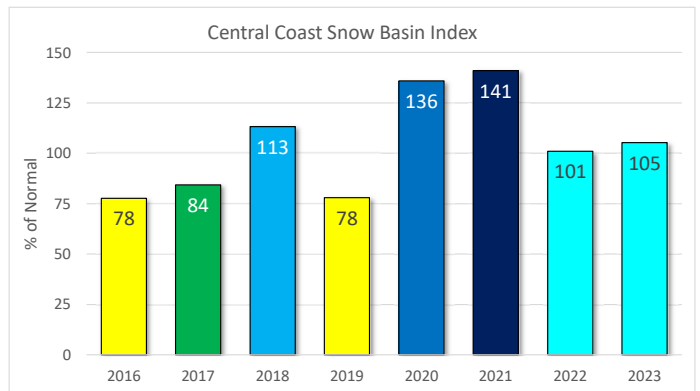
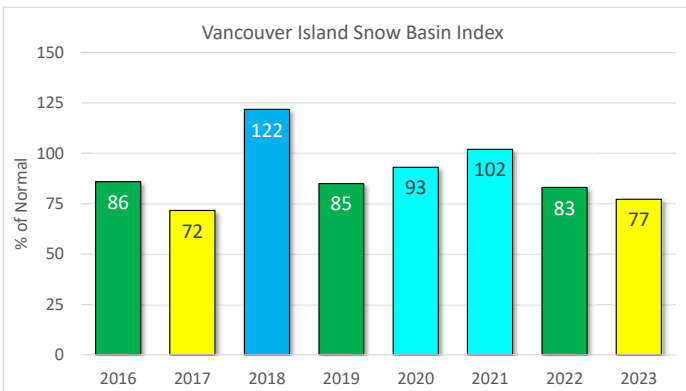
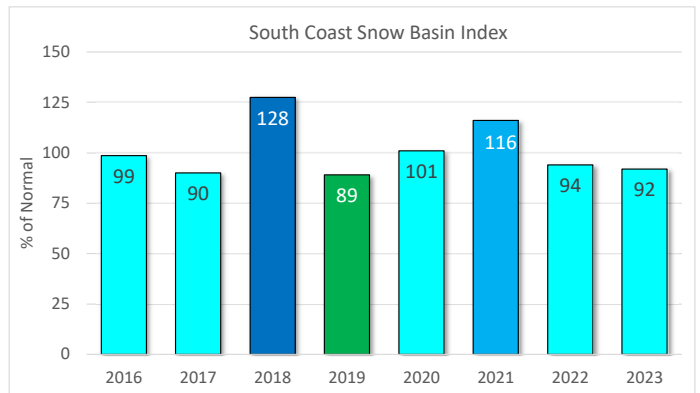
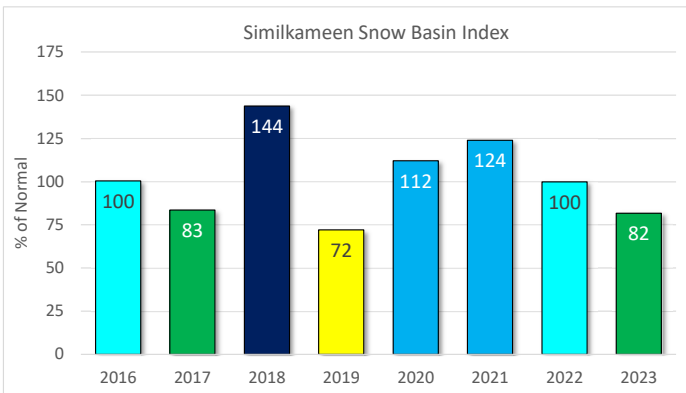
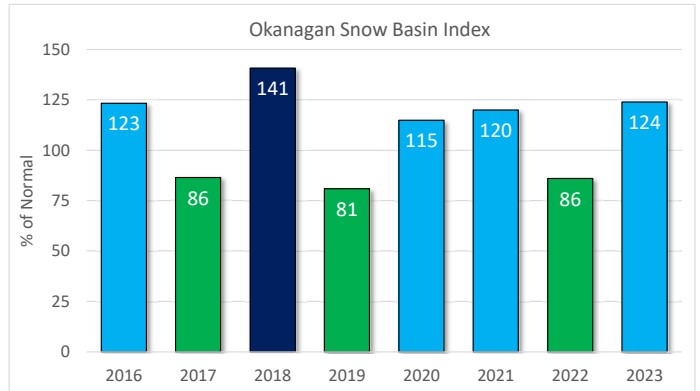
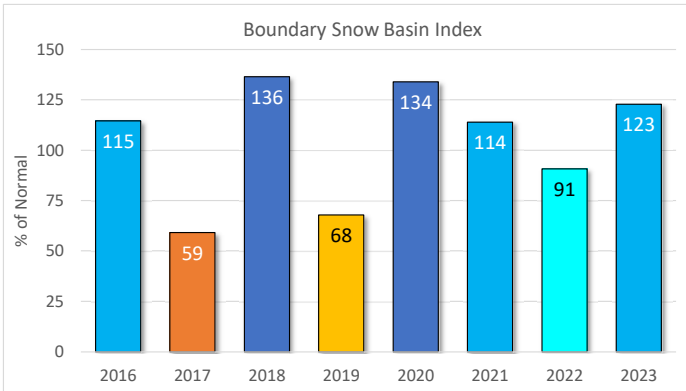
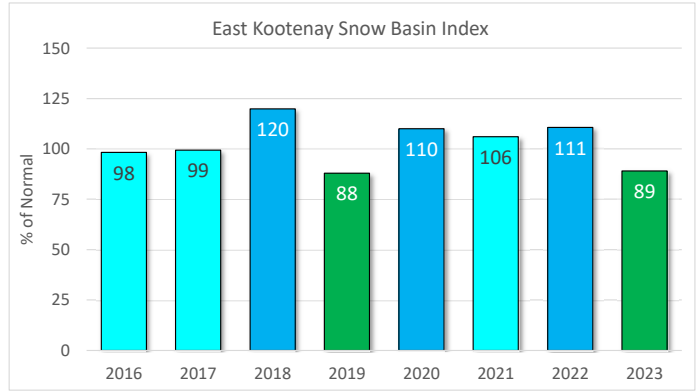
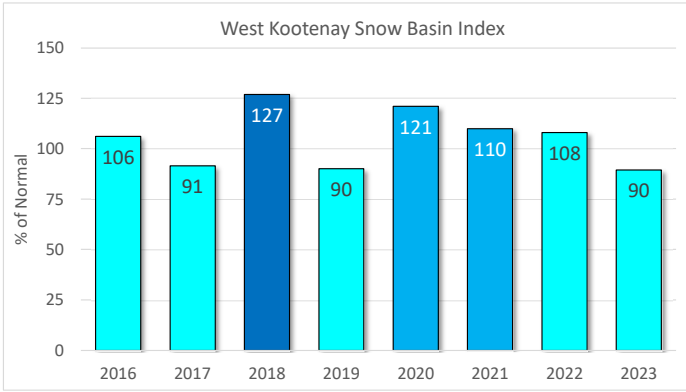
Figure 6: Basin Snow Water Index – March 1st, 2023 – Colour Friendly



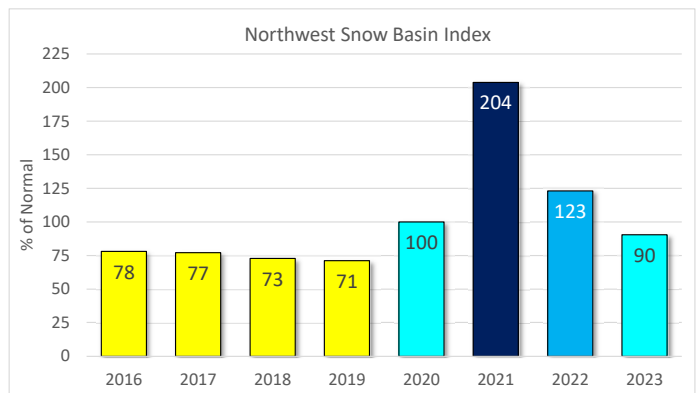
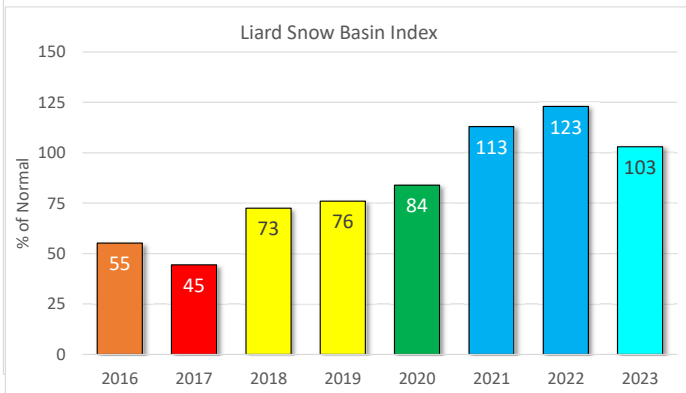
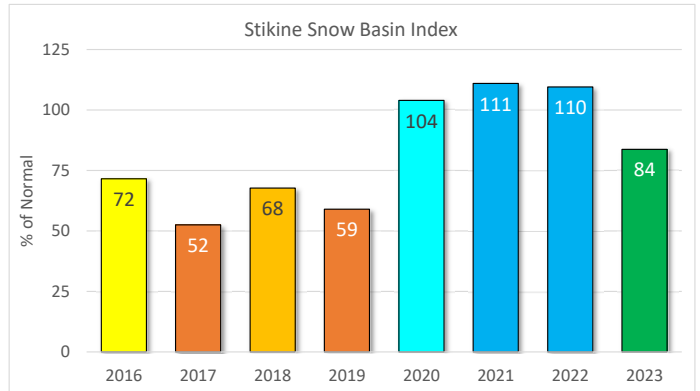
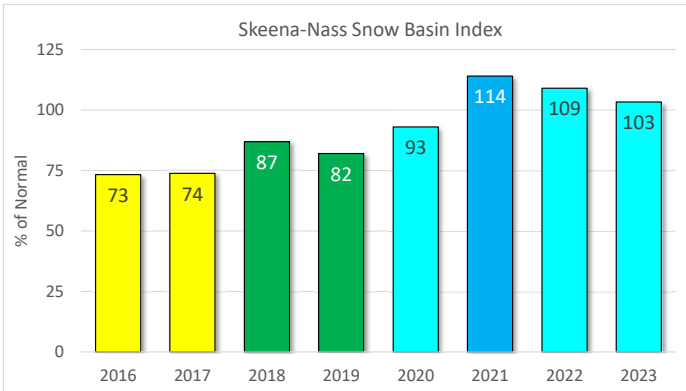
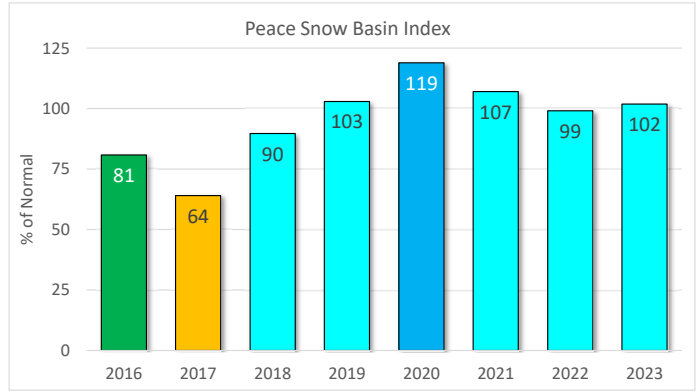
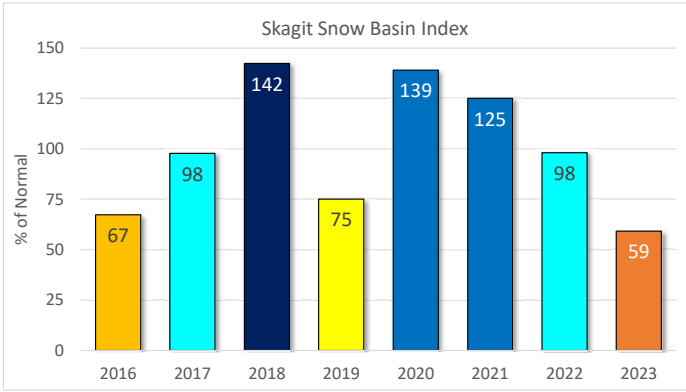
1. Every effort is made to ensure that data reported on these pages are accurate. However, in order to update the graphs and indices as quickly as possible, some data may have been estimated. Please note that data provided on these pages are preliminary and subject to revision upon review.



Snow Basin Index Graphs - March 1, 2023



Snow Basin Index Graphs - March 1, 2023



Ministry of Forests, Lands and Natural Resource Operations and Rural Development

River Forecast Centre

Volume Runoff Forecast March 2023

Location		Mar - Jun Runoff				Mar - Jul Runoff				Mar - Sep Runoff			
		Forecast (kdam ³)	Normal (1981-2010) (kdam ³)	% of Normal	Std. Error (kdam ³)	Forecast (kdam ³)	Normal (1981-2010) (kdam ³)	% of Normal	Std. Error (kdam ³)	Forecast (kdam ³)	Normal (1981-2010) (kdam ³)	% of Normal	Std. Error (kdam ³)
Upper Fraser Basin	Fraser at McBride					3,820	3,786	101	331	5,368	5,252	102	390
	McGregor at Lower Canyon					4,195	4,087	103	490	5,291	5,132	103	639
	Fraser at Shelley					15,752	16,310	97	1,494	19,986	20,369	98	1,832
Middle Fraser Basin	Quesnel River at Quesnel					4,967	4,747	105	510	6,400	6,078	105	670
Thompson Basin	N. Thompson at McLure					8,644	9,190	94	536	10,819	11,359	95	826
	S. Thompson at Chase					6,041	6,111	99	566	7,641	7,678	100	832
	Thompson at Spences Bridge					14,887	15,775	94	1,174	18,832	19,755	95	1,814
Bulkley and Skeena	Bulkley at Quick					2,570	2,709	95	1,361	3,155	3,306	95	1,939
	Skeena at Usk					18,635	19,187	97	1,335	22,993	23,531	98	1,809
Nicola Lake		143	126	114	31	163	143	114	35				
*new model ¹		46	134	35	N/A	77	157	49	N/A	97	161	60	N/A
Nicola River at Spences Bridge		504	523	96	82	569	591	96	103				
*new model ²		201	541	37	51	281	591	48	N/A	336	636	53	N/A
Okanagan Lake		451	470	96	89	471	497	95	110				
*new model ²		386	499	77	101	389	526	74	116	361	504	72	122
Kalamalka-Wood Lake		34.2	31.1	110	12.3	36.1	32.5	111	14.9				
*new model ³		22.4	27.3	82	N/A	16.4	26.7	61	N/A	12.2	22.2	55	N/A
Similkameen River	at Nighthawk	999	1,342	74	158					1,175	1,652	71	184
	at Hedley	949	1,045	91	134					1,095	1,233	89	151
Cowichan River	Cowichan Lake Inflows	396	400	99	70					441	436	101	74

¹ 1984-2019 Period of Record

² 1970-2019 Period of Record

³ 1975-2019 Period of Record

Note: 1 kdam³=1,000,000 m³

Note that missing values reflect that forecasts were not made for that time interval

Disclaimer: Seasonal forecasts were developed using a Principle Component Analysis of snow pack, climate and streamflow data.

There is inherent uncertainty in runoff forecasts including potential errors in data and the unpredictable nature of seasonal weather

Use at your own risk

March 1, 2023 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A01P	Yellowhead Lake	1860	2023-03-01	117	315	27		72%	11	517	502	270	443	720	438	25
1A02P	McBride Upper	1611	2023-03-01	138	379	27		95%	48	536	439	257	398	556	399	31
1A03P	Barkerville	1520	2023-03-01	111	289	26		104%	52	350	299	155	287	479	278	45
1A05P	Longworth Upper	1740	2023-03-01					N/A	N/A	1020	932	379	724	1020	N/A	6
1A06A	HANSARD	608	2023-02-28	89	213	24		125%	72	196	111	44	167	396	171	50
1A10	PRINCE GEORGE A	689	2023-02-28	78	165	21		141%	82	98	114	0	127	296	117	60
1A11	PACIFIC LAKE	755	2023-02-28	209	596	29		106%	56	647	648	277	536	866	562	60
1A14P	Hedrick Lake	1100	2023-03-01	229	647	28		95%	48	957	685	366	668	1057	679	23
1A15P	Knudsen Lake	1601	2023-03-01	206	769	37		N/A	N/A	1047	890	401	566	1047	N/A	6
1A17P	Revolution Creek	1690	2023-03-01		655			94%	42	1035	857	339	706	1135	694	34
1A19P	Dome Mountain	1774	2023-03-01	186	525	28		86%	24	718	726	190	638	908	608	17
			Average	151	455	28		102%	48							

Basin Index Calculation	Average SWE	420
	Average Normal	438
Upper Fraser East Basin Index - March 1, 2023		96%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A06A, 1A10, 1A11, 1A14P, 1A15P, 1A17P, 1A19P

UPPER FRASER WEST			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A12P	Kaza Lake	1257	2023-03-01	136	298	22		N/A	N/A	N	341	200	279	341	N/A	6
1A16	BURNS LAKE	800	2023-03-06	47	136	29		99%	60	88	124	60	120	250	137	51
1A23	BIRD CREEK	1180	2023-02-28	90	214	24		147%	87	174	228	72	148	296	145	33
			Average	91	216	25		123%	74							

Basin Index Calculation	Average SWE	175
	Average Normal	141
Upper Fraser West Basin Index - March 1, 2023		124%

Stations used in Basin Index:
1A16, 1A23

NECHAKO			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1B01	MOUNT WELLS	1490	2023-02-27	150	444	30		97%	52	517	551	244	439	954	458	70
1B01P	Mount Wells	1490	2023-03-01		505			105%	56	562	595	246	482	735	481	29
1B02	TAHTSA LAKE	1300	2023-02-27	307	951	31		92%	45	896	1120	571	979	1777	1032	70
1B02P	Tahtsa Lake	1300	2023-03-01		1070			99%	56	953	1231	661	1052	1722	1076	28
1B05	SKINS LAKE	890	2023-02-28	43	99	23		95%	42	88	117	54	105	226	104	58
1B06	MOUNT SWANNELL	1620	N	N	N	N	N	N/A	N/A	222	370	132	253	446	260	33
1B07	NUTLI LAKE	1490	2023-02-28	156	497	32		110%	68	476	567	229	462	779	453	32
1B08P	Mt. Pondosy	1400	2023-03-01		650			96%	52	616	755	351	620	987	674	27
			Average	N/A	602	N/A		99%	53							

Basin Index Calculation	Average SWE	602
	Average Normal	611
Nechako Basin Index - March 1, 2023		99%

Stations used in Basin Index:
1B01, 1B01P, 1B02, 1B02P, 1B05, 1B07, 1B08P

LOWER THOMPSON			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C01	BROOKMERE	980	2023-02-27	53	150	28		93%	29	151	159	53	183	351	161	77
1C06	PAVILION	1230	2023-02-27	42	90	21		151%	75	83	65	0	66	168	60	64
1C09A	HIGHLAND VALLEY	1510	2023-03-07	77	177	23		202%	98	108	130	25	88	229	88	56
1C25	LAC LE JEUNE (UPPER)	1509	2023-02-28	97	236	24		185%	100	126	210	13	117	213	128	50
1C29	SHOVELNOSE MOUNTAIN	1450	2023-02-27	73	188	26		88%	44	171	226	100	223	398	214	41
1C29P	Shovelnose Mountain	1460	2023-03-01	92	202	22		N/A	N/A	180	233	167	193	233	N/A	4
1C32	DEADMAN RIVER	1430	N	N	N	N	N	N/A	N/A	N	250	44	110	250	114	37
1C32P	Deadman River	1460	2023-03-01	106	248	23		N/A	N/A							0
1C42	CAVERHILL LAKE NEW	1400	N	N	N	N	N	N/A	N/A	256	276	60	214	329	203	18
			Average	77	184	24		144%	69							

Record High

Basin Index Calculation	Average SWE	168
	Average Normal	130
Lower Thompson Basin Index - March 1, 2023		130%

Stations used in Basin Index:
1C01, 1C06, 1C09A, 1C25, 1C29

BRIDGE / LILLOOET			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C05P	McGillivray Pass	1718	2023-03-01		347			N/A	N/A	513	447	383	464	549	N/A	5
1C12P	Green Mountain	1780	2023-03-01		443			62%	6	706	582	311	706	1265	710	29
1C14P	Bralorne	1382	2023-03-01	62	136			N/A	N/A	190	211	170	210	245	N/A	5
1C18P	Mission Ridge	1850	2023-03-01		414			88%	36	598	565	160	457	866	468	46
1C28	DUFFEY LAKE	1200	2023-02-27	141	357	25		81%	21	379	447	194	424	762	442	44
1C38	DOWNTON LAKE (UPPER)	1887	2023-03-03	175	528	30		72%	10	842	658	302	709	1250	736	26
1C38P	Downton Lake Upper	1829	2023-03-01		539			N/A	N/A	867	721	558	672	867	N/A	7
1C39	BRIDGE GLACIER (LOWER)	1390	2023-03-03	136	386	28		77%	17	478	404	146	509	954	504	28
1C40P	North Tyaughton	1969	2023-03-01		311			N/A	N/A	414	429	241	316	429	N/A	7
1C43P	Bridge Glacier Proglacial Lake	1505	2023-03-01		653			N/A	N/A							0
			Average	129	411	28		76%	18							

Basin Index Calculation	Average SWE	426
	Average Normal	572
Bridge/Lillooet Basin Index - March 1, 2023		74%

Stations used in Basin Index:
1C12P, 1C18P, 1C28, 1C38, 1C39

CHILCOTIN			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C21	BIG CREEK	1140	2023-02-27	33	75	23		142%	74	74	89	0	48	112	53	50
1C22	PUNTZI MOUNTAIN	940	2023-02-27	44	82	19		136%	76	110	68	0	54	128	60	52
			Average	39	79	21		139%	75							

Basin Index Calculation	Average SWE	79
	Average Normal	57
Chilcotin Basin Index - March 1, 2023		139%

Stations used in Basin Index:
1C21, 1C22

QUESNEL			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C17	MOUNT TIMOTHY	1660	2023-03-06	124	352	28		126%	85	322	268	141	284	468	280	60
1C20P	Boss Mountain Mine	1460	2023-03-01	200	487	24		100%	49	568	595	221	491	739	488	29

1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	453	784	1132	814	40
1C23P	PENFOLD CREEK	1740	2023-03-01	209	782	37		N/A	N/A							0
1C33A	GRANITE MOUNTAIN	1150	2023-03-03	106	282	27		162%	100	246	185	112	185	246	174	17
1C41P	Yanks Peak East	1670	2023-03-01	213	699	33		100%	45	905	787	409	728	993	697	26
			Average	170	520	30		122%	70							

Record High

Basin Index Calculation	Average SWE	455
	Average Normal	410
Quesnel Basin Index - March 1, 2023		111%

Stations used in Basin Index:
1C17, 1C20P, 1C33A, 1C41P

MIDDLE FRASER

Basin Index Calculation	Average SWE	309
	Average Normal	329
Middle River Basin Index - March 1, 2023		94%

Stations used in Basin Index:
1C01, 1C06, 1C09A, 1C12P, 1C17, 1C18P, 1C20P, 1C21, 1C22, 1C25, 1C28, 1C29, 1C33A, 1C38, 1C39, 1C41P

LOWER FRASER			March 1, 2023 Data				Mar 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow Depth (cm)	SWE (mm)	Density (%)	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1D06P	Tenquille Lake	1680	2023-03-01	209	711	34	86%	27	999	883	488	874	1219	823	21
1D08	STAVE LAKE	1250	2023-02-24	232	838	36	74%	17	1022	1380	120	1230	2500	1136	53
1D08P	Lamont Creek Upper	1217	2023-03-01	272	885	33	N/A	N/A	1190	1471	1190		1471	N/A	2
1D09P	Wahleach Lake Upper	1480	2023-03-01		650		86%	46	709	982	251	733	1320	759	29
1D10	NAHATLATCH RIVER	1550	N	N	N	N	N/A	N/A	955	N	400	1093	2380	1078	48
1D16	DICKSON LAKE	1160	2023-02-24	261	1022	39	93%	44	794	1538	22	1102	1814	1101	27
1D17P	Chilliwack River	1600	2023-03-01	257	1241	48	99%	46	1325		514	1283	2360	1254	29
1D19P	Spuzzum Creek	1180	2023-03-01	259	914	35	74%	20	1020	1603	265	1182	2625	1235	24
			Average	248	894	38	85%	33							

Basin Index Calculation	Average SWE	896
	Average Normal	1051
Lower Fraser Basin Index - March 1, 2023		85%

Stations used in Basin Index:
1D06P, 1D08, 1D09P, 1D16, 1D17P, 1D19P

NORTH THOMPSON			March 1, 2023 Data				Mar 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow Depth (cm)	SWE (mm)	Density (%)	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1E01B	BLUE RIVER	670	2023-02-28	122	271	22	94%	42	364	218	179	278	411	289	39
1E02P	Mount Cook	1550	2023-03-01				N/A	N/A	1239		787	1059	1615	1073	18
1E03A	TROPHY MOUNTAIN	1860	N	N	N	N	N/A	N/A	474	532	216	441	778	460	48
1E07	ADAMS RIVER	1720	N	N	N	N	N/A	N/A	692	652	262	568	892	584	52
1E08P	Azure River	1652	2023-03-01	246	782	32	84%	24	1161	1008	563	970	1339	926	23
1E10P	Kostal Lake	1770	2023-03-01	209			N/A	N/A	813	655	481	715	1023	711	37
1E14P	Cook Creek	1280	2023-03-01	162	498	31	101%	56	790	665	308	495	790	491	13
			Average	185	517	28	93%	41							

Basin Index Calculation	Average SWE	517
	Average Normal	569
North Thompson Basin Index - March 1, 2023		91%

Stations used in Basin Index:
1E01B, 1E08P, 1E14P

SOUTH THOMPSON			March 1, 2023 Data				Mar 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow Depth (cm)	SWE (mm)	Density (%)	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1F01A	ABERDEEN LAKE	1310	2023-03-01	72	182	25	125%	78	138	151	51	140	250	146	66
1F02	ANGLEMONT	1190	2023-02-28	140	372	27	114%	74	303	297	160	328	635	326	65
1F03P	Park Mountain	1890	2023-03-01		785		110%	74	654	769	393	694	1038	715	38
1F04P	Enderby	1950	2023-03-01	305	961	32	N/A	N/A	839	1023	695	913	1116	N/A	6

1F06P	Celista Mountain	1500	2023-03-01	240	672	28	92%	18	868	816	545	745	908	731	17
			Average	189	594	28	110%	61							

Basin Index Calculation	Average SWE	503
	Average Normal	480
South Thompson Basin Index - March 1, 2023		105%

Stations used in Basin Index:
1F01A, 1F02, 1F03P, 1F06P

FRASER RIVER

Basin Index Calculation	Average SWE	473
	Average Normal	504
Fraser River Basin Index - March 1, 2023		94%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A06A, 1A10, 1A11, 1A14P, 1A15P, 1A16, 1A17P, 1A19P, 1A23, 1B01, 1B01P, 1B02, 1B02P, 1B05, 1B07, 1B08P, 1C01, 1C06, 1C09A, 1C12P, 1C17, 1C18P, 1C20P, 1C21, 1C22, 1C25, 1C28, 1C29, 1C33A, 1C38, 1C39, 1C41P, 1D06P, 1D08, 1D09P, 1D16, 1D17P, 1D19P, 1E01B, 1E08P, 1E14P, 1F01A, 1F02, 1F03P, 1F06P

UPPER COLUMBIA			March 1, 2023 Data				Mar 1, 2023 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	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
2A02	GLACIER	1250	2023-03-03	191	518	27		88%	24	884	663	251	586	952	591	83
2A03A	FIELD	1285	2023-02-28	58	118	20		80%	25	215	163	53	155	248	148	83
2A06P	Mount Revelstoke	1850	2023-03-01		911			94%	37	1125	1064	537	998	1494	971	28
2A07	KICKING HORSE	1650	2023-02-28	83	204	25		73%	4	341	315	140	305	462	278	76
2A11	BEAVERFOOT	1890	2023-02-24	55	118	21		69%	9	246	206	80	190	333	171	61
2A14	MOUNT ABBOT	2010	2023-03-02	273	862	32		86%	19	1320	1225	508	1001	1448	1001	63
2A16	GOLDSTREAM	1920	2023-02-23	242	751	31		77%	8	1281	1075	553	950	1351	979	59
2A17	FIDELITY MOUNTAIN	1870	2023-03-03	303	866	29		82%	15	1420	1338	534	1011	1703	1058	60
2A18P	Keystone Creek	1840	2023-03-01		584			N/A	N/A	850		733	794	850	N/A	6
2A19	VERMONT CREEK	1520	2023-02-24	103	283	27		79%	15	454	432	152	372	643	360	56
2A21P	Molson Creek	1935	2023-03-01		734			84%	14	977	982	437	884	1215	875	41
2A25	KIRBYVILLE LAKE	1750	2023-02-23	284	936	33		93%	37	1115	1049	526	981	1476	1006	49
2A27	DOWNIE SLIDE (LOWER)	980	2023-02-23	187	548	29		87%	31	704	674	378	598	1018	629	39
2A29	DOWNIE SLIDE (UPPER)	1630	2023-02-23	283	948	33		82%	27	1228	1236	614	1094	2120	1150	42
2A30P	Colpitti Creek	2131	2023-03-01		489			N/A	8	906	821	423	651	906	N/A	13
2A31P	Caribou Creek Upper	2201	2023-03-01		577			N/A	N/A	982	952	717	832	982	N/A	7
2A32P	Wildcat Creek	2122	2023-03-01		380			N/A	N/A	723	595	434	542	723	N/A	7
2A34P	Glacier NP Rogers Pass Lower	1182	2023-03-01	165	457	28		N/A	N/A	808		808		808		1
2A35P	Fred Laing Lower	577	2023-03-01	126	467	37		N/A	N/A							0
			Average	181	566	29		83%	19							

Basin Index Calculation	Average SWE	600
	Average Normal	709
Upper Columbia Basin Index - March 1, 2023		85%

Stations used in Basin Index:
2A02, 2A03A, 2A06P, 2A07, 2A11, 2A14, 2A16, 2A17, 2A19, 2A21P, 2A25, 2A27, 2A29

WEST KOOTENAY			March 1, 2023 Data				Mar 1, 2023 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	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
2B02A	FARRON	1220	2023-03-02	112	291	26		106%	61	238	300	79	278	450	274	48
2B05	WHATSHAN (UPPER)	1525	2023-02-23	159	457	29		82%	18	465	593	285	561	918	560	60
2B06P	Barnes Creek	1620	2023-03-01		492			109%	74	457	547	227	439	690	451	30
2B07	KOCH CREEK	1860	2023-02-23	188	640	34		105%	54	458	645	269	602	996	609	56
2B08P	St. Leon Creek	1800	2023-03-01		678			76%	9	1168	1041	423	881	1392	888	29
2B09	RECORD MOUNTAIN	1890	2023-02-28	186	482	26	A	81%	25	468	602	147	577	1136	594	46
2D02	FERGUSON	880	2023-03-01	156	500	32		99%	43	575	610	283	521	796	507	67
2D03	SANDON	1070	2023-03-01	104	306	29		94%	53	301	368	196	304	475	324	43
2D04	NELSON	930	2023-03-01	89	241	27		80%	16	291	309	118	336	558	301	83
2D05	GRAY CREEK (LOWER)	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	381	201	386	663	385	70

2D06	CHAR CREEK	1310	2023-03-01	118	356	30	80%	22	454	397	231	446	754	447	55
2D07A	DUNCAN LAKE NO. 2	630	2023-03-01	58	144	25	96%	51	N	N	52	140	322	149	28
2D07AP	Duncan Lake Dam 2	559	2023-03-01	34	63	19	N/A	N/A	255	6	6	201	255	N/A	3
2D08P	East Creek	2030	2023-03-01		605		84%	19	1045	848	312	718	1167	722	41
2D09	MOUNT TEMPLEMAN	1860	2023-02-24	218	690	32	79%	13	1033	N	490	866	1534	872	43
2D10	GRAY CREEK (UPPER)	1940	NS	NS	NS	NS	N/A	N/A	NS	628	343	612	955	615	49
2D10P	GRAY CREEK (UPPER)	1930	2023-03-01	189	626	33	N/A	N/A	643	632	632		643	N/A	2
2D14P	Redfish Creek	2104	2023-03-01	275	1052	38	101%	43	1247	1191	615	1094	1316	1047	21
2D17	Lost Ledge	2050	2023-03-01	240	608	25	N/A	N/A	N	N/A				N/A	0
2D18	Purcell	2060	2023-03-05	234	677	29	N/A	N/A	727	N/A	727		727	N/A	1
			Average	157	495	29	91%	36							

Basin Index Calculation	Average SWE	495
	Average Normal	553
West Kootenay Basin Index - March 1, 2023		90%

Stations used in Basin Index:
2B02A, 2B05, 2B06P, 2B07, 2B08P, 2B09, 2D02, 2D03, 2D04, 2D06, 2D07A, 2D08P, 2D09, 2D14P

EAST KOOTENAY			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2C01	SINCLAIR PASS	1370	2023-02-27	48	87	18		81%	19	117	124	44	117	262	108	75
2C04	SULLIVAN MINE	1550	2023-02-27	96	252	26		108%	41	254	284	53	264	465	234	77
2C09Q	Morrissey Ridge	1860	2023-03-01		395			72%	8	464	358	240	548	1074	551	39
2C10P	Moyie Mountain	1930	2023-03-01	104	321	31		90%	45	303	326	149	327	653	358	42
2C11	KIMBERLY UPPER	2140	2023-03-01	138	381	28		114%	63	358	412	152	359	696	335	44
2C12	KIMBERLY MIDDLE	1680	2023-03-01	91	243	27		120%	68	214	225	97	216	386	202	43
2C14P	Floe Lake	2090	2023-03-01		427			75%	10	780	690	254	601	893	572	27
2C15	MOUNT ASSINIBOINE	2230	2023-02-24	117	315	27		73%	8	579	499	185	428	680	430	49
2C17	THUNDER CREEK	2010	2023-02-24	94	259	28		116%	67	260	264	91	236	378	223	51
			Average	98	298	26		94%	37							

Basin Index Calculation	Average SWE	298
	Average Normal	335
East Kootenay Basin Index - March 1, 2023		89%

Stations used in Basin Index:
2C01, 2C04, 2C09Q, 2C10P, 2C11, 2C12, 2C14P, 2C15, 2C17

BOUNDARY			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2E01	MONASHEE PASS	1370	2023-02-23	112	288	26		101%	49	250	337	149	292	442	286	63
2E02	CARMI	1250	2023-03-01	66	143	22		114%	62	89	118	47	132	274	126	59
2E03	BIG WHITE MOUNTAIN	1680	2023-03-02	185	466	25		117%	74	N	421	208	384	676	397	55
2E07P	Grano Creek	1860	2023-03-01	182	585	32		147%	98	395	501	198	388	634	398	24
			Average	136	371	26		120%	71							

Basin Index Calculation	Average SWE	371
	Average Normal	302
Boundary Basin Index - March 1, 2023		123%

Stations used in Basin Index:
2E01, 2E02, 2E03, 2E07P

OKANAGAN			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2F01A	TROUT CREEK (West)	1430	2023-02-24	76	241	32		132%	94	173	228	109	184	271	183	13
2F01AP	Trout Creek West	1420	2023-03-01	82	258	31		N/A	N/A	259	266	156	250	266	N/A	4
2F02	SUMMERLAND RESERVOIR	1280	2023-02-24	108	288	27		143%	94	176	269	97	211	381	202	62
2F03	MCCULLOCH	1280	2023-02-28	89	226	25		143%	93	121	204	71	158	249	158	82

2F04	GRAYSTOKE LAKE	1840	2023-02-27	146	368	25		124%	76	236	394	128	302	605	296	37
2F05P	Mission Creek	1780	2023-03-01	167	467	28		114%	75	305	463	203	388	634	409	52
2F07	POSTILL LAKE	1370	2023-03-03	83	201	24		111%	65	158	183	98	183	274	181	73
2F08	GREYBACK RESERVOIR	1550	N	N	N	N	N	N/A	N/A	N	177	91	184	312	199	51
2F08P	Greyback Reservoir	1550	2023-03-01	93	228	25		N/A	N/A	196	190	158	193	298	N/A	6
2F09	WHITEROCKS MOUNTAIN	1830	2023-02-28	196	618	32		136%	88	425	614	180	448	809	455	65
2F09P	Whiterocks Mountain	1800	2023-03-01	184	704	38		N/A	N/A							0
2F10	Silver Star Mountain	1840	2023-03-01	233	689	30		111%	72	N	673	347	599	912	619	59
2F10P	Silver Star Mountain	1839	2023-03-01	230	743	32		N/A	N/A	593	678	445	622	773	N/A	7
2F11	ISINTOK LAKE	1680	2023-02-27	77	163	21		114%	67	102	152	53	143	358	143	58
2F12	MOUNT KOBAN	1810	2023-02-27	115	406	35		155%	96	251	352	61	257	488	262	56
2F13	ESPERON CR (UPPER)	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	390	157	334	635	321	52
2F14	ESPERON CR (MIDDLE)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	352	132	294	513	273	28
2F18P	Brenda Mine	1460	2023-03-01	109	287	26		97%	54	233	324	186	284	435	296	27
2F19	OYAMA LAKE	1340	2023-02-28	74	142	19		97%	48	118	176	73	145	241	146	53
2F19P	OYAMA LAKE	1360	2023-03-01	69	168	24		N/A	N/A	147	230	147		230	N/A	2
2F20	VASEUX CREEK	1400	2023-02-25	70	150	21		133%	80	124	124	52	118	284	112	51
2F23	MACDONALD LAKE	1740	2023-03-03	142	438	31		118%	78	349	486	170	349	583	370	46
2F24	ISLAHT LAKE	1480	2023-02-28	137	400	29		148%	98	216	272	161	269	497	270	41
			Average	124	359	28		125%	78							

Basin Index Calculation	Average SWE	339
	Average Normal	273
Okanagan Basin Index - March 1, 2023		124%

Stations used in Basin Index:
2F01A, 2F02, 2F03, 2F04, 2F05P, 2F07, 2F09, 2F10, 2F11, 2F12, 2F18P, 2F19, 2F20, 2F23, 2F24

SIMILKAMEEN			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2G03P	Blackwall Peak	1940	2023-03-01	155	462	30		68%	8	682	790	229	654	1323	681	55
2G04	LOST HORSE MOUNTAIN	1920	2023-03-01	101	230	23		119%	74	254	270	92	186	508	194	60
2G05	MISSEZULA MOUNTAIN	1550	2023-03-01	76	189	25		105%	47	151	238	76	190	363	180	59
2G06	HAMILTON HILL	1490	2023-03-02	85	188	22		74%	12	221	328	102	280	676	254	60
			Average	104	267	25		91%	35							

Basin Index Calculation	Average SWE	267
	Average Normal	327
Similkameen Basin Index - March 1, 2023		82%

Stations used in Basin Index:
2G03P, 2G04, 2G05, 2G06

SOUTH COAST			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
3A01	GROUSE MOUNTAIN	1100	2023-02-27	294	946	32		95%	46	980	1230	0	984	2320	999	72
3A02	POWELL RIVER (UPPER)	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	868		868	N/A	1
3A05	POWELL RIVER (LOWER)	910	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	588		588	N/A	1
3A09P	Palisade Lake	900	2023-03-01	242	885	37		N/A	N/A	923	1277	585	803	1277	N/A	4
3A10	DOG MOUNTAIN	1080	2023-03-01	279	920	33		99%	43	906	1210	0	980	2146	931	39
3A20	CALLAGHAN CREEK	1040	2023-03-03	194	558	29		81%	24	664	784	40	722	1260	693	45
3A20P	Callaghan	1017	2023-03-01	198	511	26		N/A	N/A	609	719	609	715	839	N/A	4
3A22P	Nostetuko River	1500	2023-03-01		352			74%	25		506	86	468	878	479	32
3A24P	Mosley Creek Upper	1650	2023-03-01	93	201	22		78%	24	296	260	98	244	555	256	34
3A25P	Squamish River Upper	1340	2023-03-01	307	1023	33		77%	18	1141	1267	558	1340	2312	1322	31
3A26	CHAPMAN CREEK	1022	2023-03-07	342	1160	34		109%	57	1014	1222	662	1023	1412	1064	13
3A27	EDWARDS LAKE	1070	2023-03-07	237	770	32		109%	60	670	914	380	670	964	709	11
3A28P	Tetrahedron	1420	2023-03-01	341	1031	30		N/A	N/A	1248	1466	953	1186	1466	N/A	5
			Average	253	760	31		90%	37							

Basin Index Calculation	Average SWE	741
	Average Normal	807
South Coast Basin Index - March 1, 2023		92%

Stations used in Basin Index:
3A01, 3A10, 3A20, 3A22P, 3A24P, 3A25P, 3A26, 3A27

VANCOUVER ISLAND			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3B01	FORBIDDEN PLATEAU	1100	2023-02-24	259	977	38		83%	28	1004	1238	101	1214	2730	1177	67
3B02A	MOUNT COKELY	1190	N	N	N	N	N	N/A	N/A	N	NS	14	664	1034	596	31
3B04	ELK RIVER	270	2023-02-24	0	0		T	0%	N/A	209	5	0	53	546	61	62
3B10	UPPER THELWOOD LAKE	990	2023-02-24	203	802	40		74%	24	786	1112	0	1064	2440	1079	61
3B17P	Wolf River Upper	1490	2023-03-01		827			79%	22	854	934	204	1023	2085	1052	35
3B18	WOLF RIVER (MIDDLE)	990	2023-02-24	94	343	36		72%	26	238	436	0	453	1344	479	52
3B19	WOLF RIVER (LOWER)	640	2023-02-24	51	172	34		55%	19	208	252	0	316	1064	314	51
3B23P	Jump Creek	1160	2023-03-01	181	785	43		88%	41	901	1076	20	901	2206	897	27
3B24P	Heather Mountain Upper	1190	2023-03-01	183	773	42		N/A	N/A	939	1294	651	1070	1557	N/A	7
3B26P	Mount Arrowsmith	1465	2023-03-01		666			N/A	N/A	803	923	743	803	1123	N/A	5
Average				139	594	39		64%	27							

Basin Index Calculation	Average SWE	558
	Average Normal	723
Vancouver Island Basin Index - March 1, 2023		77%

Stations used in Basin Index:
3B01, 3B04, 3B10, 3B17P, 3B18, 3B19, 3B23P

CENTRAL COAST			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3C07	WEDEENE RIVER SOUTH	220	2023-03-03	158	456	29		105%	66	273	624	119	381	945	435	34
3C08P	Burnt Bridge Creek	1330	2023-03-01	215	742	35		105%	61	876	980	285	692	1229	703	24
Average				187	599	32		105%	64							

Basin Index Calculation	Average SWE	599
	Average Normal	569
Central Coast Basin Index - March 1, 2023		105%

Stations used in Basin Index:
3C07, 3C08P

SKAGIT			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3D01C	SUMALLO RIVER WEST	790	2023-02-24	39	118	30		57%	22	215	224	0	215	442	208	31
3D02	LIGHTNING LAKE	1220	2023-02-28	73	172	24		66%	12	232	311	36	250	497	260	49
3D03A	KLESILKWA	1175	2023-02-24	43	112	26		53%	17	219	312	0	238	759	212	69
Average				52	134	27		59%	17							

Basin Index Calculation	Average SWE	134
	Average Normal	227
Skagit Basin Index - March 1, 2023		59%

Stations used in Basin Index:
3D01C, 3D02, 3D03A

PEACE			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4A02P	Pine Pass	1400	2023-03-01	359	1063	30		115%	71	955	1123	606	922	1485	923	30
4A03	WARE (UPPER)	1575	2023-02-26	76	192	25		89%	39	NS	204	114	204	360	215	61
4A03P	Ware Upper	1565	2023-03-01	76	180	24		N/A	N/A	179	176	145	188	223	N/A	6

4A04	WARE (LOWER)	970	2023-02-26	74	181	24	107%	67	158	177	66	155	246	168	57
4A04P	Ware Lower	971	2023-03-01	74	175	24	N/A	N/A	167	166	91	175	196	N/A	6
4A05	GERMANSEN (UPPER)	1480	2023-02-27	108	286	26	95%	48	260	334	174	288	520	301	62
4A07	LADY LAURIER LAKE	1440	2023-02-24	152	460	30	104%	67	483	501	255	418	662	443	55
4A09P	Pulpit Lake	1311	2023-03-01	113	318	28	87%	24	375	283	200	374	515	365	32
4A10	FREDRICKSON LAKE	1325	2023-02-26	91	227	25	107%	63	187	217	86	201	315	213	58
4A11	TRYGVE LAKE	1410	2023-02-26	101	273	27	88%	28	312	316	186	296	453	312	58
4A12	TSAYDAYCHI LAKE	1190	2023-02-27	139	403	29	114%	72	333	463	166	328	540	355	59
4A12P	Tsaydaychi Lake	1195	2023-03-01	143	366	26	N/A	N/A	282	419	282	419	N/A	N/A	2
4A13	PHILIP LAKE	1035	2023-02-27	102	257	25	103%	63	218	309	118	237	400	249	58
4A13P	Philip Lake	1028	2023-03-01		243		N/A	N/A	222	269	222	269	276	N/A	3
4A16	MORFEE MOUNTAIN	1430	2023-02-28	255	757	30	104%	62	614	819	312	696	1166	726	55
4A18	MOUNT SHEBA	1490	2023-02-28	225	715	32	95%	48	840	808	394	725	1123	754	50
4A18P	MOUNT SHEBA	1484	2023-03-01	239			N/A	N/A	883	901	802	892	991	N/A	4
4A20P	Monkman Creek	1570	2023-03-01		292		N/A	N/A	443	310	310	381	443	N/A	4
4A21	MOUNT STEARNS	1505	2023-02-25	51	125	25	102%	54	139	89	40	123	227	123	48
4A25	FORT ST. JOHN A	690	2023-03-01	49	90	18	89%	47	100	63	38	93	191	102	48
4A27P	Kwadacha North	1554	2023-03-01	107	257	24	96%	34	276	248	158	268	405	269	32
4A30P	Aiken Lake	1050	2023-03-01	94	244	26	109%	71	216	226	117	220	363	224	35
4A31P	Crying Girl Prairie	1358	2023-03-01		241		N/A	N/A	172	188	124	192	220	N/A	7
4A33P	Muskwa-Kechika	1196	2023-03-01		151		N/A	N/A	120	102	33	92	120	N/A	7
4A34P	Dowling Creek	1456	2023-03-01		1401		N/A	N/A	1319	1026	1026	1136	1288	N/A	5
4A36P	Parsnip Upper	790	2023-03-01	136	282	21	N/A	N/A	324	362	336	345	362	N/A	4
4A37P	McQue Terrace	1200	2023-03-01		126		N/A	N/A	113	81	81		113	N/A	3
4A38P	Horn Creek	1450	2023-03-01	108	342	32	N/A	N/A						N/A	0
			Average	132	357	26	100%	54							

Basin Index Calculation	Average SWE	366
	Average Normal	359
Peace Basin Index - March 1, 2023		102%

Stations used in Basin Index:

4A02P, 4A03, 4A04, 4A05, 4A07, 4A09P, 4A10, 4A11, 4A12, 4A13, 4A16, 4A18, 4A21, 4A25, 4A27P, 4A30P

SKEENA-NASS			March 1, 2023 Data				Mar 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4B01	KIDPRICE LAKE	1370	2023-02-27	245	780	32		99%	59	746	1033	429	744	1320	791	71
4B02	JOHANSON LAKE	1420	2023-02-27	102	283	28		112%	77	261	266	148	240	368	252	58
4B02P	Johanson Lake	1467	2023-03-01	103	299	29		N/A	N/A							0
4B03A	HUDSON BAY MTN.	1480	2023-02-28	167	494	30		111%	74	482	534	287	421	719	444	51
4B04	CHAPMAN LAKE	1460	2023-02-28	138	396	29		95%	50	456	455	266	394	691	415	57
4B06	TACHEK CREEK	1140	2023-03-02	91	222	24		111%	75	192	238	117	188	332	199	54
4B07	MCKENDRICK CREEK	1050	2023-02-28	104	258	25		103%	52	224	260	155	249	391	250	53
4B08	MOUNT CRONIN	1480	2023-02-28	147	432	29		88%	31	468	446	345	470	869	492	53
4B11A	BEAR PASS	460	2023-03-02	226	640	28		127%	73	600	782	87	543	824	503	35
4B13A	TERRACE AIRPORT	180	2023-03-01	49	151	31		109%	53	94	161	0	132	407	138	39
4B14	EQUITY MINE	1420	2023-02-28	119	324	27		93%	50	N	368	190	324	546	348	43
4B15	LU LAKE	1300	2023-02-28	105	256	24		101%	51	N	268	122	249	412	254	42
4B15P	Lu Lake	1300	2023-03-01	114	296	26		120%	79	244	299	120	244	402	246	25
4B16P	Shedin Creek	1480	2023-03-01	228	650	29		98%	46	774	616	393	679	957	665	26
4B17P	Tsai Creek	1360	2023-03-01	257	845	33		91%	40	994	950	587	893	1600	932	25
4B18P	Cedar-Kiteen	885	2023-03-01	213	685	32		122%	72	880	698	281	536	953	561	20
			Average	151	438	28		105%	59							

Basin Index Calculation	Average SWE	447
	Average Normal	433
Skeena-Nass Basin Index - March 1, 2023		103%

Stations used in Basin Index:

4B01, 4B02, 4B03A, 4B04, 4B06, 4B07, 4B08, 4B11A, 4B13A, 4B14, 4B15, 4B15P, 4B16P, 4B17P, 4B18P

LIARD			March 1, 2023 Data				Mar 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			SWE % of Normal (1991-2020)	Percentile of Historic Record	2022	2021	Minimum	Median	Maximum	1991-2020		
			Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4C01P	Sikanni Lake	1387	2023-03-01	104	224	22	N/A	N/A	230	226	114	228	283	N/A	6
4C01	SIKANNI LAKE	1385	2023-02-25	94	234	25	103%	63	280	219	106	215	335	227	57
4C02	SUMMIT LAKE	1280	N	N	N	N	N/A	N/A	136	128	0	100	190	106	52
4C05	FORT NELSON AIRPORT	380	N	N	N	N	N/A	N/A	122	112	40	94	177	84	55
Average				99	229	23	103%	63							

Basin Index Calculation	Average SWE	234
	Average Normal	227
Liard Basin Index - March 1, 2023		103%

Stations used in Basin Index:
4C01

STIKINE			March 1, 2023 Data				Mar 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			SWE % of Normal (1991-2020)	Percentile of Historic Record	2022	2021	Minimum	Median	Maximum	1991-2020		
			Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4D10P	Tumeka Creek	1220	2023-03-01		392		82%	31	477	493	262	485	789	479	25
4D11P	Kinaskan Lake	1020	2023-03-01		278		87%	45	359	405	148	286	557	321	27
Average					335		84%	38							

Basin Index Calculation	Average SWE	335
	Average Normal	400
Stikine Basin Index - March 1, 2023		84%

Stations used in Basin Index:
4D10P, 4D11P

NORTHWEST			March 1, 2023 Data				Mar 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			SWE % of Normal (1991-2020)	Percentile of Historic Record	2022	2021	Minimum	Median	Maximum	1991-2020		
			Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4E01	LOG CABIN	900	2023-02-23	115	328	29	93%	49	419	700	124	330	700	353	62
4E02B	ATLIN LAKE	730	2023-02-27	39	75	19	81%	15	129	207	54	88	207	93	17
Average				77	202	24	87%	32							

Basin Index Calculation	Average SWE	202
	Average Normal	223
Northwest Basin Index - March 1, 2023		90%

Stations used in Basin Index:
4E01, 4E02P

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	448
	Average Normal	477
British Columbia Basin Index - March 1, 2023		94%

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