

Snow Survey and Water Supply Bulletin – March 1st, 2024

The March 1st snow survey is now complete. Data from 101 manual snow courses and 107 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

- As of March 1st, the provincial snowpack remains very low, averaging 66% of normal (34% below normal) across B.C. (Feb 1st: 61%). Last year, the provincial average was 91% for March 1st.
- The Fraser River at Hope snow index is well below normal at 70%.
- Dry conditions persisted through February until a stormy pattern brought the most significant snowfall of the season in the final week.
- Due to the low snow conditions, below normal spring freshet flood hazard is expected this season.
- Low snowpack and seasonal runoff forecasts combined with warm seasonal weather forecasts and lingering impacts from on-going drought are creating significantly elevated drought hazards for this upcoming spring and summer.
- There are still 4 to 8 weeks left in the snow accumulation season. While conditions may change slightly over this period, current trends in low snowpack are expected to persist.

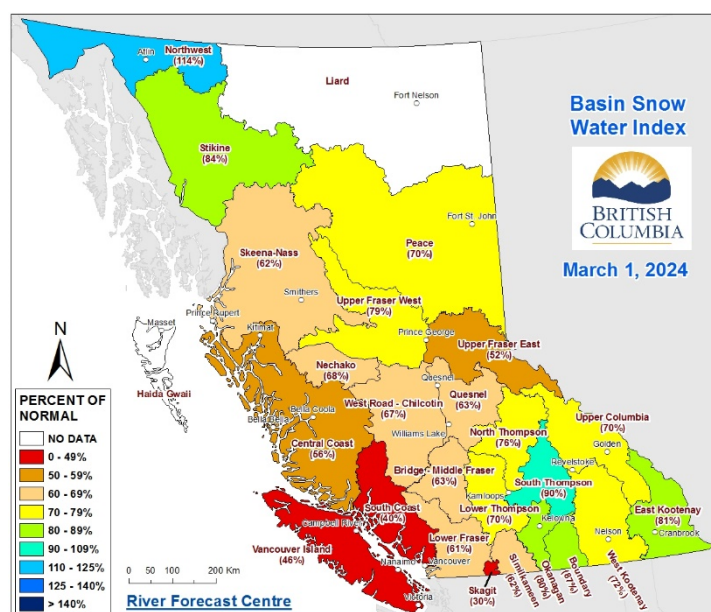


Figure 1. March 1st, 2024 Basin Snow Water Index Map of British Columbia. Larger and colour-friendly versions available in full report.

Table 1. March 1st 2024 Snow Basin Indices in B.C.

Basin	% of Normal	Basin	% of Normal	Basin	% of Normal
Upper Fraser West	79	North Thompson	76	South Coast	40
Upper Fraser East	52	South Thompson	90	Vancouver Island	46
Nechako	68	Fraser River	68	Central Coast	56
Middle Fraser	64	Upper Columbia	70	Skagit	30
Lower Thompson*	70	West Kootenay	72	Peace	70
Bridge*	63	East Kootenay	81	Skeena-Nass	62
Chilcotin*	67	Boundary	87	Liard	N/A [#]
Quesnel*	63	Okanagan	80	Stikine	84
Lower Fraser	61	Similkameen	62	Northwest	114
		Nicola	71	Fraser @ Hope	70
British Columbia 66% of Normal					

* Sub-basin of Middle Fraser [#] Insufficient data to calculate a Snow Basin Index Normal Period (1991-2020)

Next scheduled snow bulletin release: April 10, 2024

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Weather

Most regions of British Columbia experienced near normal monthly temperatures in February. Slightly above normal monthly temperatures (0.5°C to +1.5°C temperature anomalies) were observed in areas of Vancouver Island and the South Coast, including Victoria, Comox, Vancouver. Well above normal (+1.5°C to +4.5°C) temperature anomalies were observed in the Northeast, South Interior and Southeast including Fort St. John, Fort Nelson, Kelowna, Penticton, Vernon and Cranbrook. Areas with slightly below normal February temperatures (-0.5°C to -1.5°C anomalies) included areas in the North Interior and Northwest, including Prince George, Quesnel, Smithers and Terrace.

Dry conditions persisted throughout the province for the first three weeks of February. Two storms impacted B.C. from February 24-29 resulting in the most significant mountain

snow accumulation period of the season to date. Below normal February precipitation (<75% of normal) was observed on Vancouver Island, South Coast, Northwest B.C. and Haida Gwaii. Wetter than normal conditions (>125% of normal) were observed in the South Interior (Kamloops, Kelowna, Penticton), Southeast (Cranbrook) and Northeast (Fort St. John).

Early-March weather has been dominated by unsettled weather patterns, particularly over southwestern B.C. which has experienced cooler temperatures and episodes of snowfall extending to lower elevations. Other areas of B.C. have generally remained cold and dry over the first week of March. The upcoming 7-day weather forecasts are indicating the potential for a Pacific storm cycle to impact coastal B.C. with increased precipitation; meanwhile, drier patterns are currently anticipated to continue for the Interior.

Snowpack

A dry start to February hindered snow accumulation across the province, but a strong storm cycle late in the month significantly boosted snowpacks in many areas. Largely driven by coastal and southern increases, provincial snowpack gained five percentage points since February 1st to reach 66% of normal for March 1st. Snow Basin Indices (SBI) for March 1st ranged from a low of 30% of normal in the Skagit to a high of 114% in the Northwest (Tables 1, 2 and Figures 1, 5, 6).

Overall, the provincial snowpack remains very

low for March 1st. Most basins continue to see snowpack that is below 80% of normal, with extremely low snowpack (<60%) persisting in the Upper Fraser East, Central Coast, South Coast, Skagit and Vancouver Island. In the South Thompson, East Kootenay, Boundary, Okanagan, and Stikine, snowpacks are 80-90% of normal. The only region with normal to above normal snowpack (95-115%) is the Northwest. Across the province, twelve snow stations (listed further below) measured all-time lows for their respective periods of record. Five occurred in the Skeena-Nass region with periods of record of over 50 years.

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Compared to last month, SBI values in most regions increased. Regions with notable increases (>15 percentage points) from Feb 1st to Mar 1st are Vancouver Island, Skagit, Lower Thompson, and East Kootenay. Decreases occurred in the Upper Fraser East, Nechako Central Coast, Peace, Skeena-Nass and Stikine.

Last year, the March 1st provincial average was 91% of normal (Table 3). Snow basin indices are much lower this year in all regions (except the Stikine and Northwest) compared to 2023 due to very dry and warm conditions through the snow accumulation season.

The March 1st snowpack in 2024 is amongst the lowest on record. Based on active stations,

and using the 1991-2020 normal period, the lowest March 1st snowpack in the past 50 years was observed in 1977, with 53% of normal provincial average. Other historically low March 1st snowpack years include 2001 (66% of normal) and 2003 (68% of normal). Despite the extremely low 2024 March 1st SBI values in the southwest (30-46% of normal on Vancouver Island, South Coast and Skagit) these regions were even lower in 2015, their lowest year on record, when March 1st SBI values ranged from 15-26% of normal.

Please see 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, 2024 compared to February 1, 2024

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	52 (61)	↓ -9	Upper Columbia	70 (61)	↑ +9
Upper Fraser West	79 (69)	↑ +10	West Kootenay	72 (67)	↑ +5
Nechako	68 (73)	↓ -5	East Kootenay	81 (63)	↑ +18
Middle Fraser	64 (59)	↑ +5	Boundary	87 (75)	↑ +12
Lower Thompson*	70 (71)	↓ -1	Okanagan	80 (86)	↓ -6
Bridge*	63 (60)	↑ +3	Similkameen	62 (60)	↑ +2
Chilcotin*	67 (68)	↓ -1	Northern Region		
Quesnel*	63 (55)	↑ +8	Peace	70 (78)	↓ -8
Lower Fraser	61 (47)	↑ +14	Skeena-Nass	62 (69)	↓ -7
North Thompson	76 (73)	↑ +3	Liard	N/A ^b (67)	N/A ^b
South Thompson	90 (81)	↑ +9	Stikine	84 (90)	↓ -6
Coastal Region			Northwest	114 (N/A ^a)	N/A ^a
South Coast	40 (41)	↓ -1	Additional		
Vancouver Island	46 (30)	↑ +16	Fraser River	68 (62)	↑ +6
Central Coast	56 (69)	↓ -13	Fraser R @ Hope	70 (N/A ^a)	N/A
Skagit	30 (0)	↑ +30	Nicola**	71 (N/A ^a)	N/A

British Columbia 66 (61) ↑ +5

^a No snow surveys scheduled for February 1st 2024.

^b No snow measurements to calculate a SBI for March 1st, 2024

* Sub-region of the Middle Fraser

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

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Table 3 – B.C. Snow Basin Indices – March 1, 2024 compared to March 1, 2023

Basin	March 1 st % of Normal (2023 value)	Percentage Point Change 2023 to '24	Basin	March 1 st % of Normal (2023 value)	Percentage Point Change 2023 to '24
Fraser River Region			Columbia Region		
Upper Fraser East	52 (96)	↓ -44	Upper Columbia	70 (85)	↓ -15
Upper Fraser West	79 (124)	↓ -45	West Kootenay	72 (90)	↓ -18
Nechako	68 (99)	↓ -31	East Kootenay	81 (89)	↓ -8
Middle Fraser	64 (94)	↓ -30	Boundary	87 (123)	↓ -36
Lower Thompson*	70 (130)	↓ -60	Okanagan	80 (124)	↓ -44
Bridge*	63 (74)	↓ -11	Similkameen	62 (82)	↓ -20
Chilcotin*	67 (139)	↓ -72	Northern Region		
Quesnel*	63 (111)	↓ -48	Peace	70 (102)	↓ -32
Lower Fraser	61 (85)	↓ -24	Skeena-Nass	62 (103)	↓ -41
North Thompson	76 (91)	↓ -15	Liard	N/A ^a (103)	N/A ^a
South Thompson	90 (105)	↓ -15	Stikine	84 (84)	0
Coastal Region			Northwest	114 (90)	↑ +24
South Coast	40 (92)	↓ -52	Additional		
Vancouver Island	46 (77)	↓ -31	Fraser River	68 (94)	↓ -26
Central Coast	56 (105)	↓ -49	Fraser R @ Hope	70 (101)	↓ -31
Skagit	30 (59)	↓ -29	Nicola	71 (123)	↓ -52
British Columbia 66 (94) ↓ -28					

^aNo snow measurements to calculate a SBI for March 1st, 2024

* Sub-region of the Middle Fraser

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

Twelve snow stations measured all-time low snow water equivalent (SWE) for March 1st, 2024:

- 1C33A Granite Mountain: 68 mm SWE (39% of normal) – 27 years (Quesnel / Middle Fraser)
- 2D02 Ferguson: 258 mm SWE (51% of normal) – 68 years (West Kootenay)
- 2D03 Sandon: 190 mm SWE (59% of normal) – 44 years (West Kootenay)
- 3A25P Squamish River Upper: 552 mm SWE (42% of normal) – 32 years (South Coast)
- 3A26 Chapman Creek: 392 mm SWE (37% of normal) – 14 years (South Coast)
- 3A27 Edwards Lake: 165 mm SWE (23% of normal) – 12 years (South Coast)
- 4A02P Pine Pass: 558 mm SWE (60% of normal) – 31 years (Peace)
- 4B03A Hudson Bay Mtn.: 249 mm SWE (56% of normal) – 52 years (Skeena-Nass)
- 4B04 Chapman Lake: 211 mm SWE (51% of normal) – 58 years (Skeena-Nass)
- 4B06 Tachek Creek: 106 mm SWE (53% of normal) – 55 years (Skeena-Nass)
- 4B07 McKendrick Creek: 123 mm SWE (49% of normal) – 54 years (Skeena-Nass)
- 4B08 Mount Cronin: 305 mm SWE (62% of normal) – 54 years (Skeena-Nass)

Percentiles offer a more detailed measure of the variability in snow conditions, especially in regions when the percent of normal can be

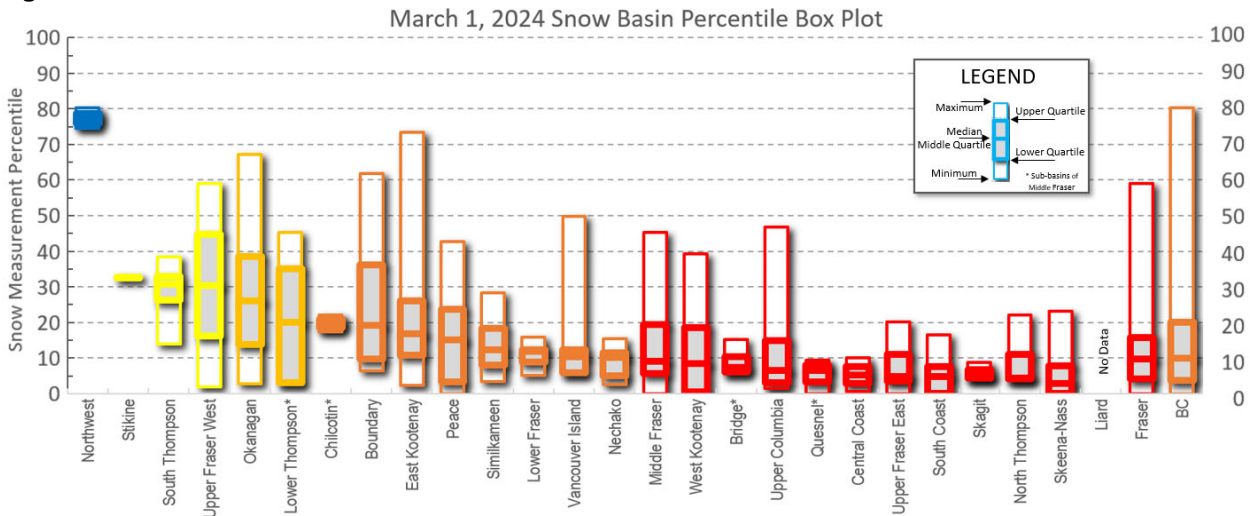
extremely high or low. The region with the highest average percentile is the Northwest (77th percentile); the regions with the lowest

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are Quesnel, South Coast and Central Coast (5th). A box plot displaying the percentile variance ordered from highest to lowest median across all regions, including sub-

basins, is provided below in Figure 2. The March 1st provincial average is the 15th percentile, and the median is the 10th percentile.

Figure 2. Snow Basin Percentile Box Plot – March 1st, 2024



The B.C. automated snow weather stations (ASWS) provide real-time SWE and snow depth data, recorded at one-hour intervals and summarized at daily time-steps for analysis. Figure 3 shows the percentage of snow stations that fall within a given percentile class over time for 2023-2024. Percentile classes are defined as: 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). All-time high and all-time low are represented by 100 and 0, respectively.

The relatively dry period during the initial three weeks of February is evident in the increasing trend in the proportion of ASWS's

that are in low percentile ranges. A late February shift in this trend due to storms can be seen in the improvements (decreases) in the proportion of low percentiles. As of March 1st approximately 80% of stations were reporting well below normal (0 to 20th percentile), but the number of stations in the lowest percentile classes has modestly decreased over the first few days of March.

For comparison, Figure 4 displays the changes in percentile classes at ASWS last year (2022-2023). The snowpack was generally healthier last winter compared to this winter, although record-breaking heat in May 2023 caused rapid melt and unusually early onset of freshet.

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.

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Figure 3. Snow Water Equivalent Percentiles at Automated Snow Weather Stations (2023-2024)

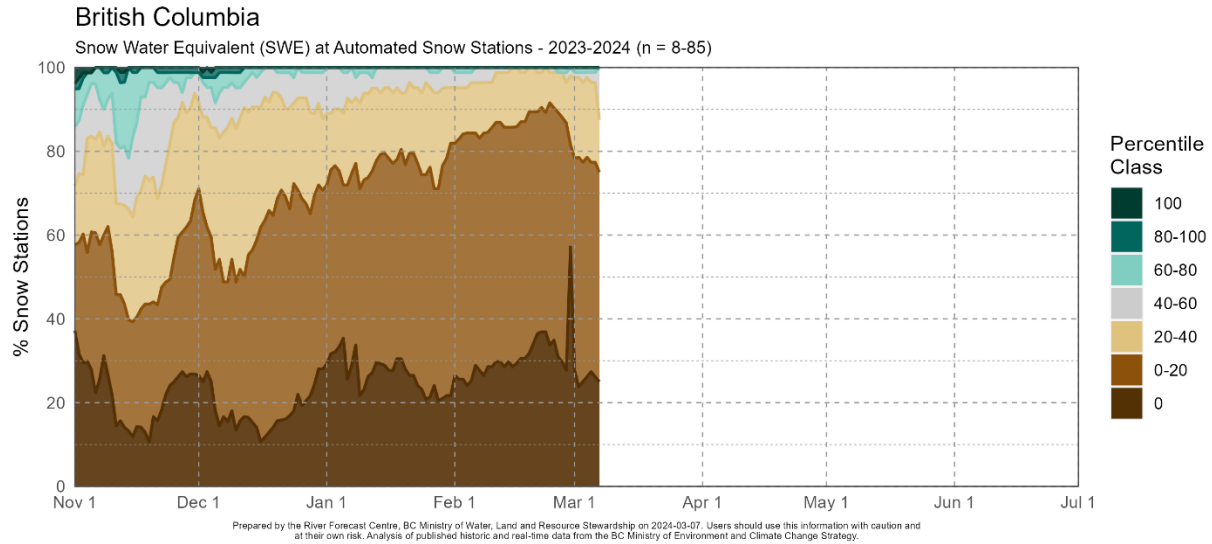
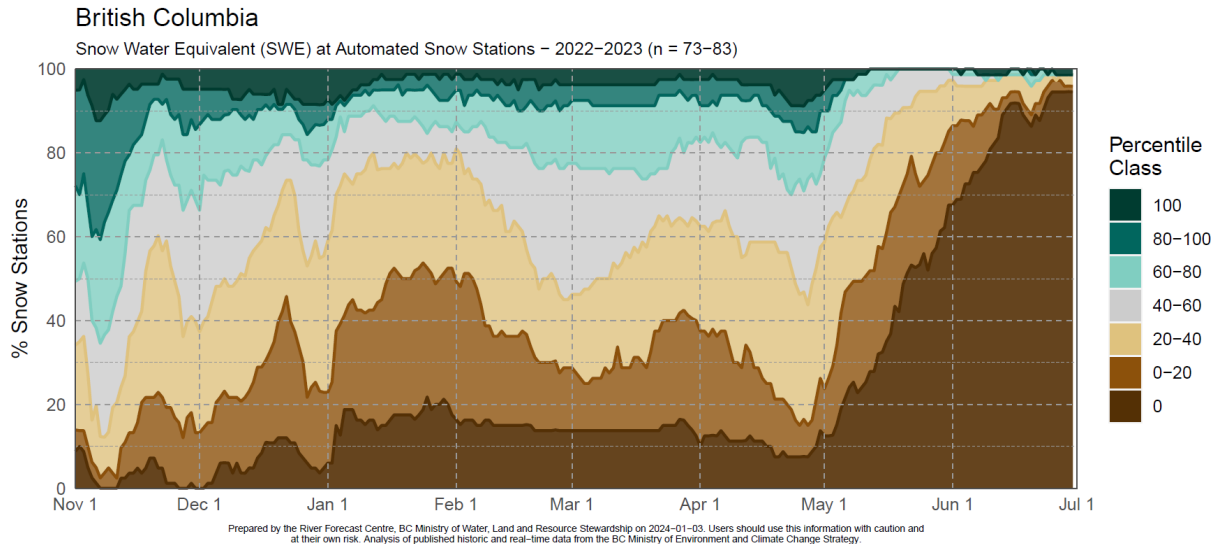


Figure 4. Snow Water Equivalent Percentiles at Automated Snow Weather Stations (2022-2023)



Seasonal Weather Outlook

The Climate Prediction Center (CPC) at the U.S. National Weather Service / NOAA has maintained an El Niño Advisory, with El Niño conditions persisting as of early-March. El Niño is the warm phase of the El Niño-Southern Oscillation (ENSO). CPC forecasts

currently indicate an increased likelihood of a transition to ENSO-neutral conditions during April-June 2024 (79% chance). Typically, El Niño is linked to warmer winters across British Columbia. During El Niño, snowpacks tend to be lower than normal, but not always.



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On February 8, the CPC issued a La Niña Watch with increasing odds of La Niña conditions developing in June-August (55% chance) and likely continuing into fall-winter 2024-25.

Seasonal weather forecasts from Environment and Climate Change Canada (ECCC) continue to indicate a moderate likelihood (40-80% chance) of above normal temperatures across all of B.C. over the March to May period, and high likelihood (50-90% chance) of above normal temperatures over the June to August period. There is less certainty over seasonal forecasts for precipitation, which indicate

nearly zero areas with either above or below normal precipitation over the February to April period. SWE forecasts indicate trends that would be expected for B.C. under typical El Niño conditions, with a high likelihood (65-100%) of below normal SWE over the March to May period across all but the far Northwest. As noted above, El Niño conditions do not always correlate with low snowpack; however, the extremely low seasonal accumulation to date suggests that this winter is tracking along the “most likely” path for El Niño conditions.

Seasonal Volume Forecasts

Seasonal volume runoff forecasts are near normal (80%-100% of normal) for the Upper Fraser, Quesnel River, North Thompson River, South Thompson River and Thompson River. Below normal (60-80%) flows are forecast for the Bulkley River, Skeena River, Nicola Lake, Nicola River, Okanagan Lake, Kalamalka-Wood Lake, Similkameen River and Cowichan Lake.

Low seasonal forecasts for Nicola, Okanagan and Kalamalka-Wood are driven by low antecedent flow, dry seasonal weather, below normal snowpack, and seasonal weather forecasts. Evaporation and transpiration losses over summer lead to projections of net loss over periods of the summer

Flood and Drought Outlook

March 1st snowpack is typically the penultimate indicator of the snow accumulation season, with only a month or two of accumulation remaining. In general, approximately 80% of the annual B.C. snowpack accumulates by March 1st and peak snowpack occurs mid-April. Despite the currently low snowpacks in most regions, changes can still occur in the overall snowpack and seasonal outlook. However, with strong indicators in the current El Niño and seasonal

forecasts for above-normal temperatures over this period, the on-going low snowpack trend is expected to persist throughout the remainder of this season. If persistent wetter (and potentially cooler) conditions occur, snowpack may experience some recovery and move nearer to normal by the peak of the snow accumulation season in April to May. A recovery to normal provincial snowpack would require double the typical rate of snow accumulation for the remainder of the season.



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Regional variation in snowpack can be expected, and some regions may experience greater change in the remainder of the season compared with other regions, or in comparison to the overall provincial average.

With below normal snowpack across most regions of the province, seasonal flood hazards are expected to be reduced this season. One current exception is the Northwest, where snowpack is above normal (115%). Flood hazard associated with extreme rainfall and rain-on-snow during the freshet period remains a hazard regardless of snowpack levels. This outlook could change as snowpack levels progress over the next month or two, with the April 1st snow survey period being the benchmark for understanding

upcoming seasonal flood hazards with increased confidence.

The current low provincial snowpack (66% of normal), persistence of drought impacts from previous seasons, and the upcoming seasonal weather outlook are all significant factors for province-wide concern for drought this year. Low seasonal runoff forecasts for the Okanagan, Kalamalka-Wood, Nicola Lake and Nicola River are also indicative of elevated seasonal drought hazards. The causes of drought in B.C. are multi-faceted. While snowpack can play an important role in areas, other factors such as the rate of snowmelt, spring and summer temperatures, and short- and long-term precipitation trends may have equal or greater importance in governing the emergence of drought.

Summary

By early March, approximately 80% of the annual B.C. snowpack typically accumulates. As of March 1st, snowpack throughout the province ranges from 30 to 114% of normal across regions, with a provincial average of 66% of normal (34% below normal). During the first week of March, additional snow has accumulated at ASWS and the short-term weather forecasts indicate a continued potential for increased snow accumulation in coastal areas over the next 7-10 days. There

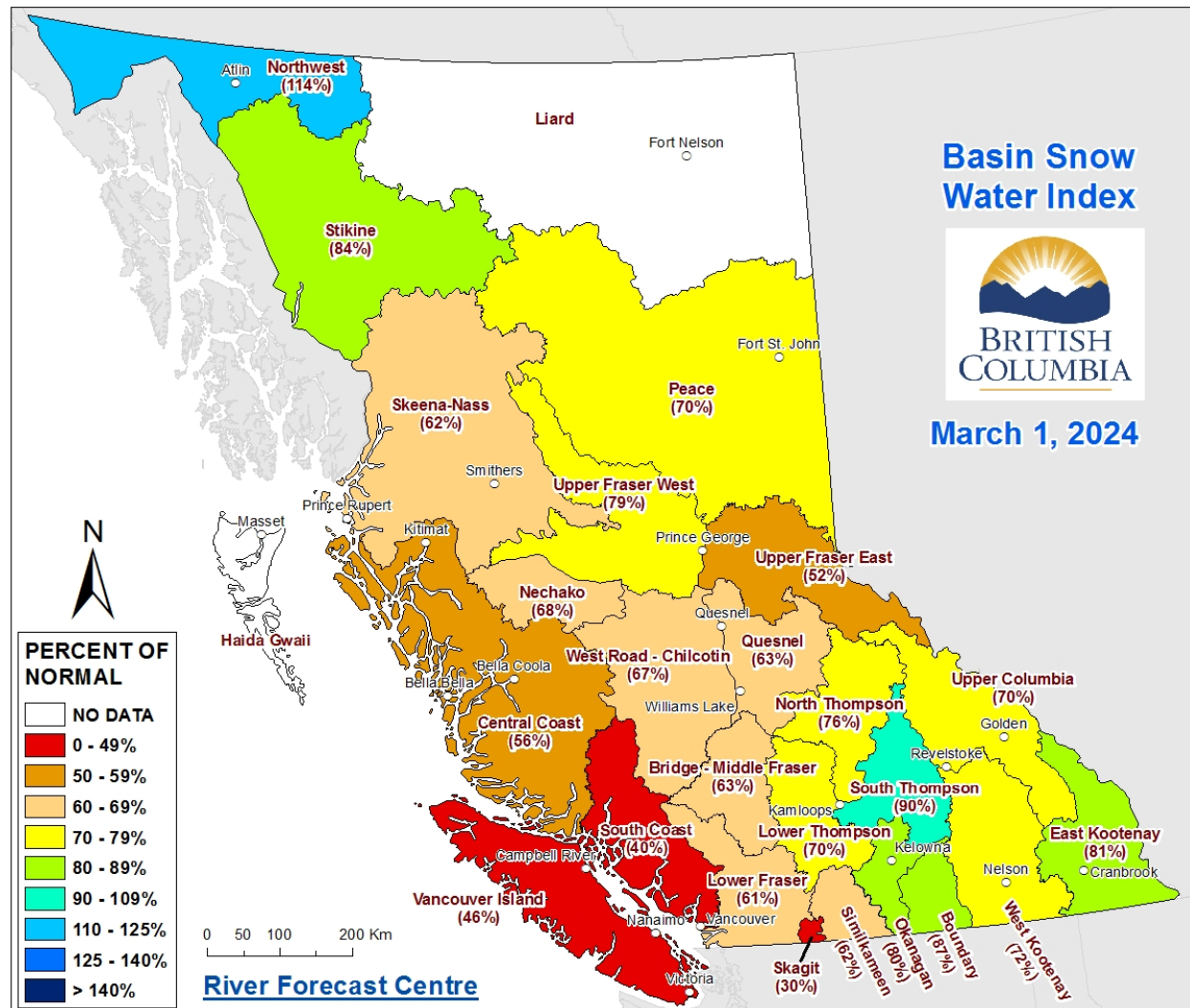
are early concerns for drought extending into the spring and summer with the low snowpack throughout the province. With approximately one to two more months left for snow accumulation, seasonal snowpacks and the seasonal flood and drought outlook could still change substantially; however, due to an increased chance of warmer seasonal temperatures, the below-normal snowpack trend is expected to continue.

The River Forecast Centre continues to monitor snowpack conditions and will provide an updated seasonal risk forecast in the April 1st, 2024 bulletin scheduled for release on April 10th.

River Forecast Centre
March 8, 2024

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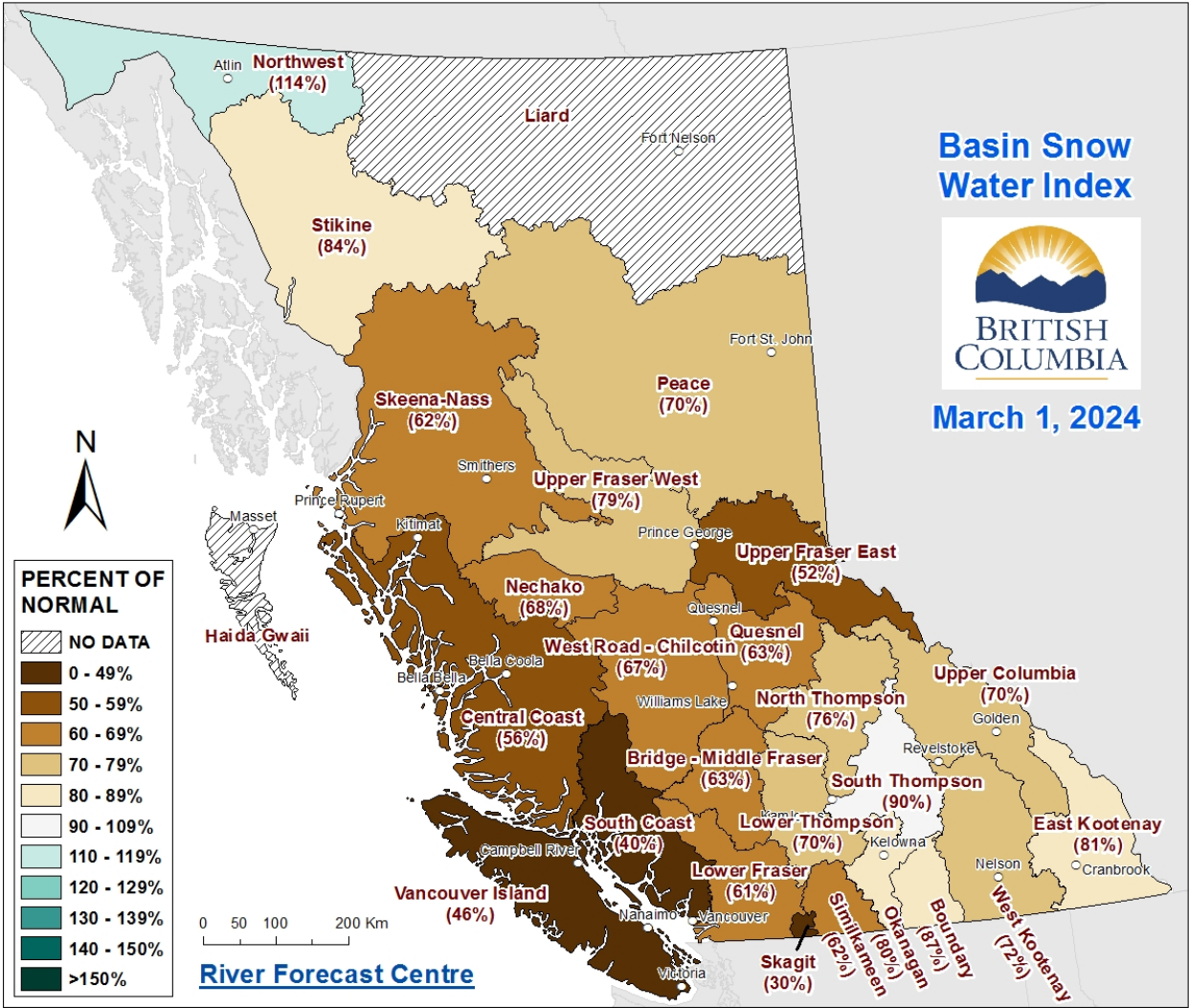
Figure 5: Basin Snow Water Index – March 1st, 2024



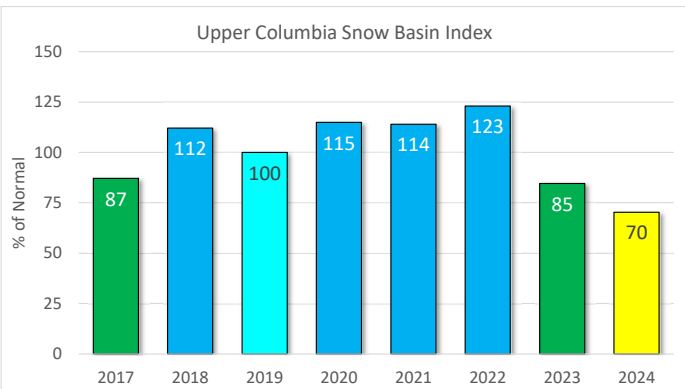
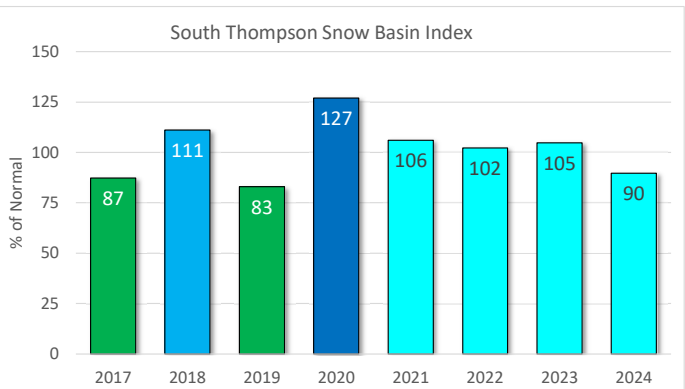
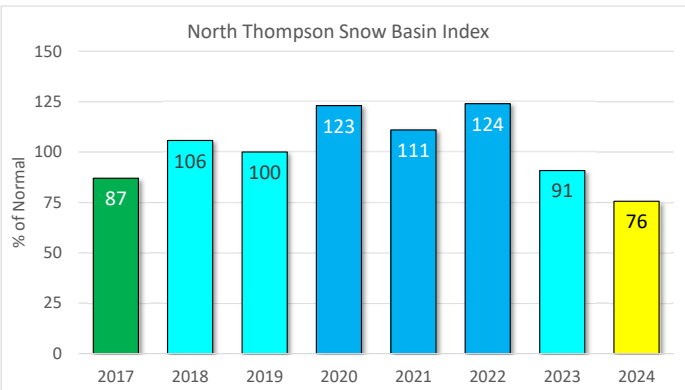
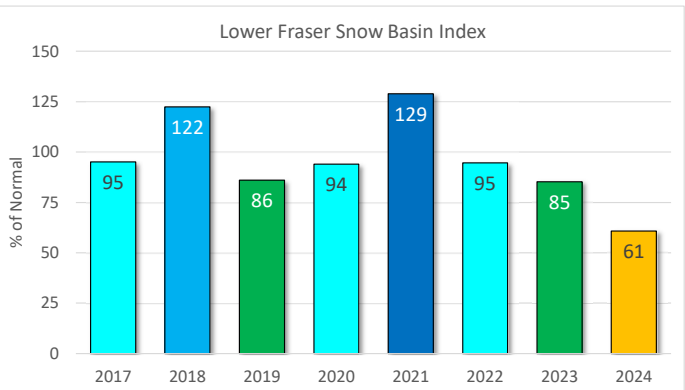
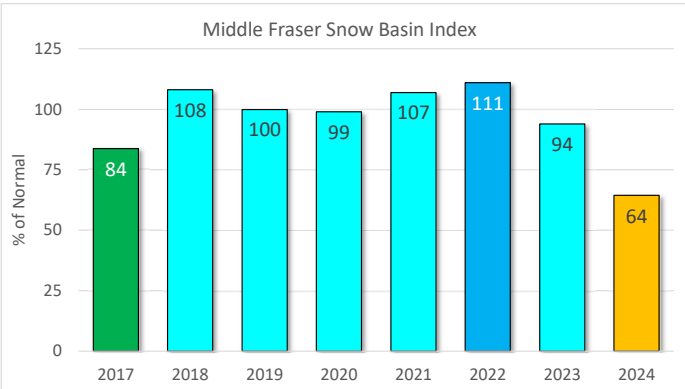
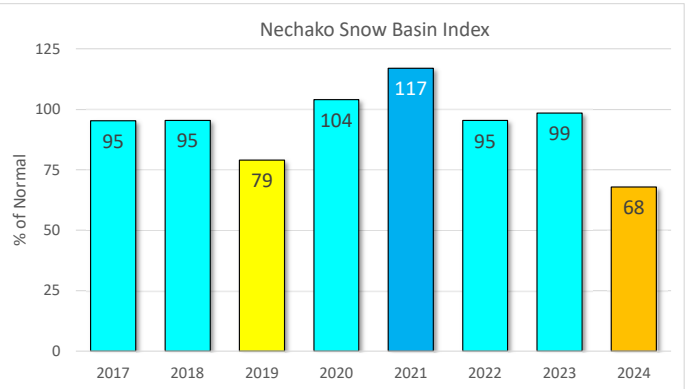
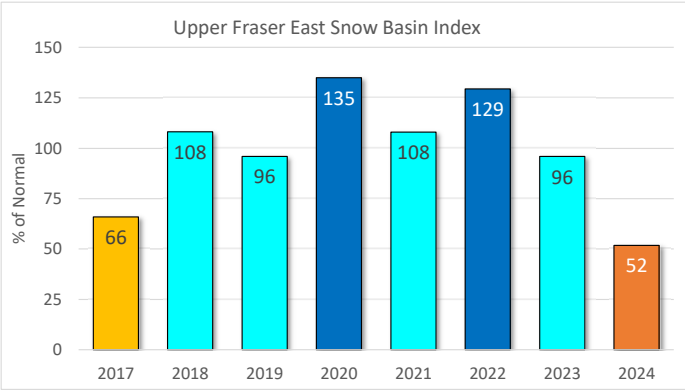
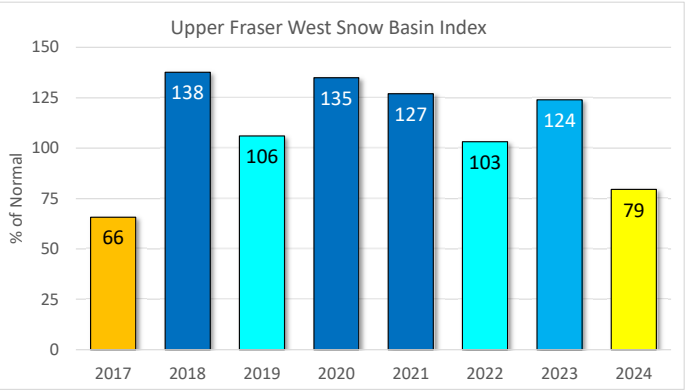
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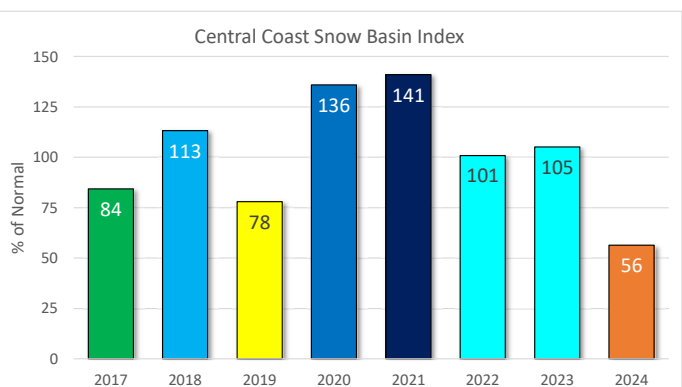
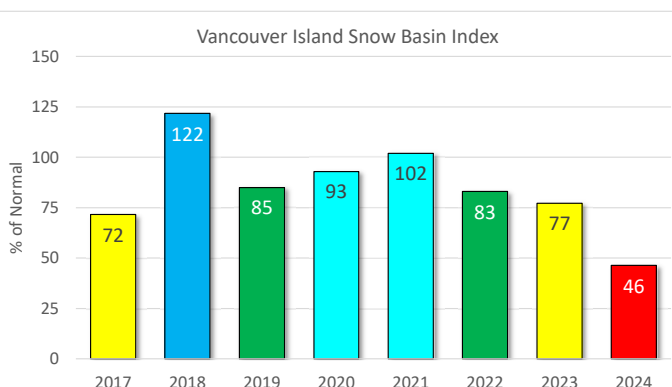
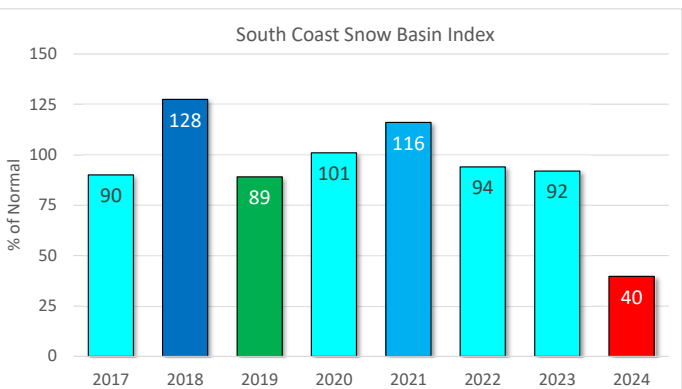
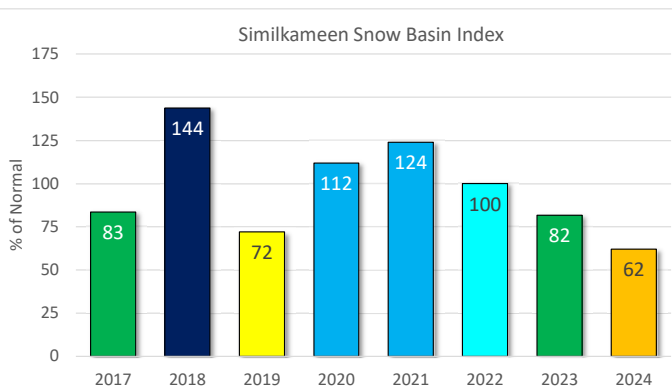
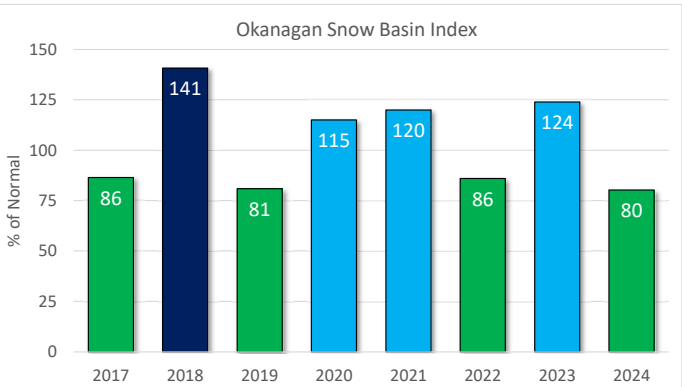
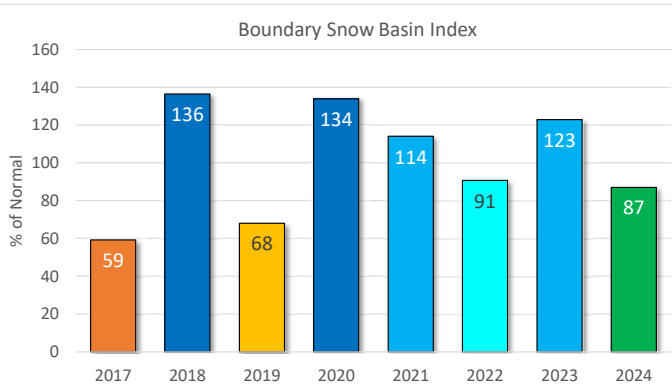
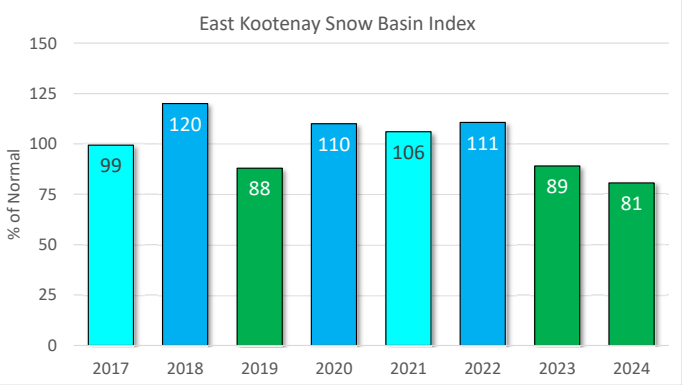
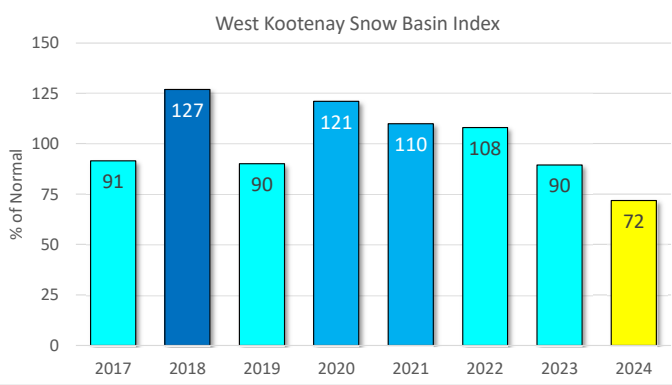
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Figure 6: Basin Snow Water Index – March 1st, 2024 – Colour Friendly

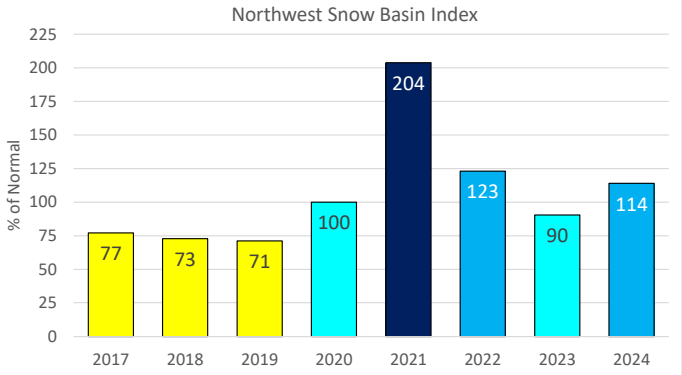
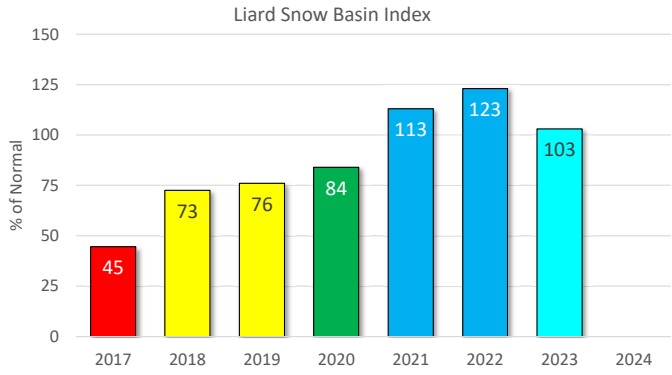
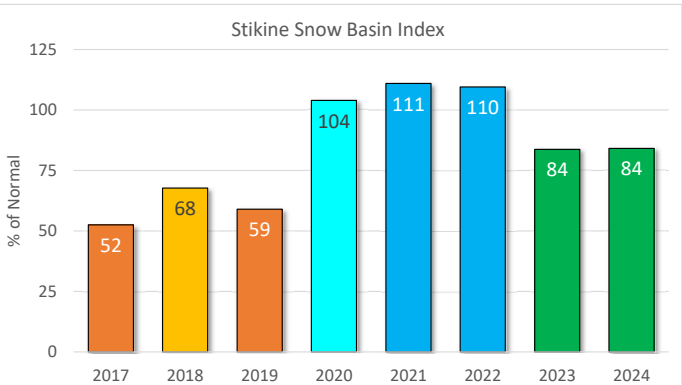
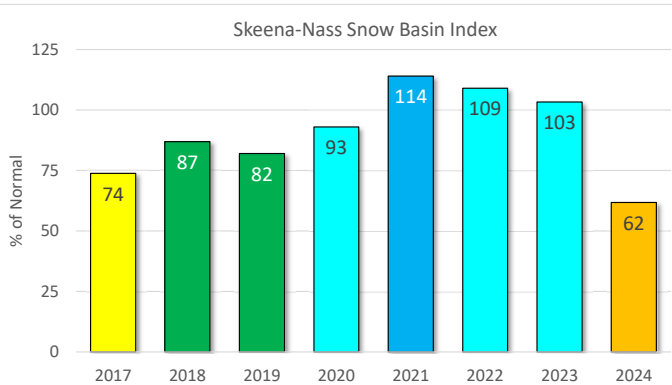
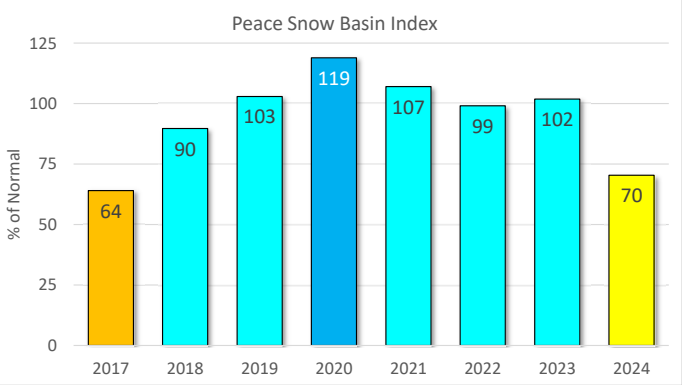
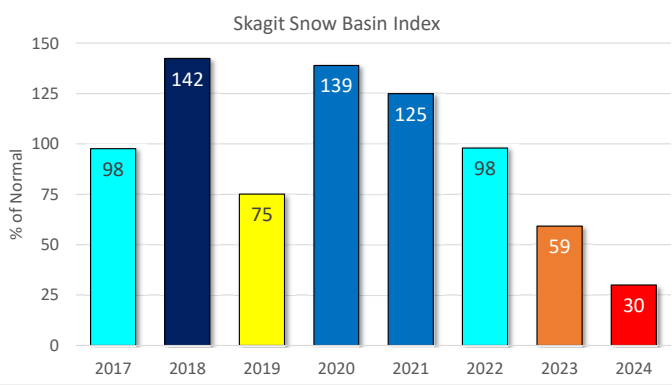


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Snow Basin Index Graphs - March 1, 2024



Ministry of Water, Lands and Resource Stewardship
River Forecast Centre
Volume Runoff Forecast March 2024

		Mar - Jun Runoff				Mar - Jul Runoff				Mar - Sep Runoff			
Location		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					3,492	3,786	92	331	4,912	5,252	94	390
	McGregor at Lower Canyon					3,376	4,087	83	490	4,426	5,132	86	639
	Fraser at Shelley					12,990	16,310	80	1,494	17,336	20,369	85	1,832
Middle Fraser Basin	Quesnel River at Quesnel					4,002	4,747	84	510	5,183	6,078	85	670
Thompson Basin	N. Thompson at McLure					7,794	9,190	85	536	9,781	11,359	86	826
	S. Thompson at Chase					5,783	6,111	95	566	7,302	7,678	95	832
	Thompson at Spences Bridge					14,027	15,775	89	1,174	17,712	19,755	90	1,814
Bulkley and Skeena	Bulkley at Quick					1,728	2,709	64	1,361	2,225	3,306	67	1,939
	Skeena at Usk					15,136	19,187	79	1,335	19,365	23,531	82	1,809
Nicola Lake		85	126	68	31	96	143	67	35				
*new model ¹		103	134	76	N/A	100	157	64	N/A	105	161	65	N/A
Nicola River at Spences Bridge		414	523	79	82	460	591	78	103				
*new model ²		274	541	51	51	377	591	64	N/A	412	636	65	N/A
Okanagan Lake		350	470	74	89	359	497	72	110				
*new model ²		348	499	70	101	351	526	67	116	298	504	59	122
Kalamalka-Wood Lake		24.2	31.1	78	12.3	24.6	32.5	76	15				
*new model ³		11.7	27.3	43	N/A	10.1	26.7	38	N/A	8.6	22.2	39	N/A
Similkameen River	at Nighthawk	1,009	1,342	75	158					1,188	1,652	72	184
	at Hedley	765	1,045	73	134					863	1,233	70	151
Cowichan River	Cowichan Lake Inflows	312	400	78	67					347	436	80	87

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 Principal 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

UPPER FRASER EAST			March 1, 2024 Data					Mar 1, 2024 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	2023 SWE (mm)	2022 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1A01P	Yellowhead Lake	1860	2024-03-01	123	295	24		67%	10	315	517	270	436	720	438	26
1A02P	McBride Upper	1611	2024-03-01	121	265	22		66%	2	379	536	257	389	556	399	32
1A03P	Barkerville	1520	2024-03-01	97	230	24		83%	20	289	350	155	288	479	278	46
1A05P	Longworth Upper	1740	2024-03-01	155				N/A	N/A	919	1020	379	742	1020	N/A	7
1A06A	HANSARD	608	2024-03-05	34	66	19		39%	4	213	196	44	167	396	171	51
1A10	PRINCE GEORGE A	689	2024-03-05	28	45	16		38%	4	165	98	0	130	296	117	61
1A11	PACIFIC LAKE	755	NS	NS	NS	NS	NS	N/A	N/A	596	647	277	540	866	562	61
1A14P	Hedrick Lake	1100	2024-03-01	183	368	20		54%	0	647	957	366	658	1057	679	24
1A15P	Knudsen Lake	1601	2024-03-01	137	447	33		N/A	N/A	783	1047	401	591	1047	N/A	7
1A17P	Revolution Creek	1690	2024-03-01		393			57%	5	655	1035	339	692	1135	694	35
1A19P	Dome Mountain	1774	2024-03-01	172	476	28		78%	14	525	718	190	636	908	608	18
			Average	117	287	23		60%	7							

Basin Index Calculation	Average SWE	267
	Average Normal	516
Upper Fraser East Basin Index - March 1, 2024		52%

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

UPPER FRASER WEST			March 1, 2024 Data				Mar 1, 2024 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	2023 SWE (mm)	2022 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1A12P	Kaza Lake	1257	2024-03-01	89	213	24		N/A	N/A	298	N	200	288	341	N/A	7
1A16	BURNS LAKE	800	2024-03-01	27	72	27		53%	2	136	88	60	121	250	137	52
1A23	BIRD CREEK	1180	2024-02-29	70	152	22		105%	59	214	174	72	148	296	145	34
				Average	62	146	24	79%	30							

Basin Index Calculation	Average SWE	112
	Average Normal	141
Upper Fraser West Basin Index - March 1, 2024		79%

Stations used in Basin Index:
1A16, 1A23

NECHAKO			March 1, 2024 Data					Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth	SWE	Density	Code	SWE %	Percentile	2023	2022	Minimum	Median	Maximum	1991-2020	Years of Record
				(cm)	(mm)	%		of Normal (1991-2020)	of Historic Record	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1B01	MOUNT WELLS	1490	2024-02-29	108	274	25		60%	3	444	517	244	439	954	458	71
1B01P	Mount Wells	1490	2024-03-01		339			70%	10	505	562	246	484	735	481	30
1B02	TAHTSA LAKE	1300	2024-03-01	216	745	34		72%	11	951	896	571	978	1777	1032	71
1B02P	Tahtsa Lake	1300	2024-03-01		757			70%	11	1070	953	661	1060	1722	1076	29
1B05	SKINS LAKE	890	2024-02-29	40	77	19		74%	16	99	88	54	104	226	104	59
1B06	MOUNT SWANNELL	1620	2024-02-29	61	141	23		54%	3	N	222	132	253	446	260	33
1B07	NUTLI LAKE	1490	2024-02-29	102	274	27		60%	6	497	476	229	464	779	453	33
1B08P	Mt. Pondosy	1400	2024-03-01		470			70%	12	650	616	351	635	987	674	28
			Average	105	385	26		66%	9							

Basin Index Calculation	Average SWE	385
	Average Normal	567
Nechako Basin Index - March 1, 2024		68%

Stations used in Basin Index:
1B01, 1B01P, 1B02, 1B02P, 1B05, 1B06, 1B07, 1B08P

1C17	MOUNT TIMOTHY	1660	2024-03-01	51	180	35	64%	10	352	322	141	285	468	280	61
1C17P	Mount Timothy	1630	2024-03-01	72		0	N/A	N/A						N/A	0
1C20P	Boss Mountain Mine	1460							487	568	221	489	739	488	30
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	N/A	N/A	NS	NS	453	784	1132	814	40
1C23P	Penfold Creek	1740	2024-03-01	171	579	34	N/A	N/A	782		782		782		1
1C33A	GRANITE MOUNTAIN	1150	2024-02-26	31	68	22	39%	0	282	246	112	187	282	174	18
1C41P	Yanks Peak East	1670	2024-03-01		474		68%	6	699	905	409	727	993	697	27
			Average	81	325	23	57%	5							

Record Low

Basin Index Calculation	Average SWE	241
	Average Normal	384
Quesnel Basin Index - March 1, 2024		63%

Stations used in Basin Index:

1C17, 1C33A, 1C41P

MIDDLE FRASER

Basin Index Calculation	Average SWE	186
	Average Normal	288
Middle River Basin Index - March 1, 2024		64%

Stations used in Basin Index:

1C01, 1C09A, 1C12P, 1C14, 1C17, 1C18P, 1C21, 1C22, 1C25, 1C28, 1C29, 1C33A, 1C39, 1C41P

LOWER FRASER			March 1, 2024 Data					Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
		Elevation (masl)					SWE % of Normal (1991-2020)	Percentile of Historic Record	2023 SWE (mm)	2022 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record	
Station ID	Name		YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code									
1D06P	Tenquille Lake	1680	2024-03-01	221	577	26		70%	12	711	999	488	864	1219	823	22
1D08	STAVE LAKE	1250	NS	NS	NS	NS	NS	N/A	N/A	838	1022	120	1211	2500	1136	54
1D08P	Lamont Creek Upper	1217	2024-03-01	226	592			N/A	N/A	885	1190	885	1190	1471	N/A	3
1D09P	Wahleach Lake Upper	1480	2024-03-01		525			69%	12	650	709	251	721	1320	759	30
1D10	NAHATLATCH RIVER	1550	N	N	N	N	N	N/A	N/A	N	955	400	1093	2380	1078	48
1D16	DICKSON LAKE	1160	2024-02-26	95	406	43		37%	5	1022	794	22	1086	1814	1101	28
1D16P	Dickson Lake	1155	2024-03-01	187	734	39		N/A	N/A						N/A	0
1D17P	Chilliwack River	1600	2024-03-01	232	929	40		74%	16	1251	1325	514	1272	2360	1254	30
1D18	Disappointment Lake	1050	NS	NS	NS	NS	NS	N/A	N/A	NS	1300	300	1352	1732	1191	21
1D19P	Spuzzum Creek	1180	2024-03-01	228	707	31		57%	9	914	1020	265	1108	2625	1235	25
			Average	198	639	36		61%	11							

Basin Index Calculation	Average SWE	629
	Average Normal	1034
Lower Fraser Basin Index - March 1, 2024		61%

Stations used in Basin Index:

1D06P, 1D09P, 1D16, 1D17P, 1D19P

NORTH THOMPSON			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data							
		Elevation (masl)		Snow Depth (cm)	SWE (mm)	Density %		SWE % of Normal (1991-2020)	Percentile of Historic Record	2023 SWE (mm)	2022 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
Station ID	Name		YYYY-MM-DD				Code									
1E01B	BLUE RIVER	670	2024-03-01	76	201	26		70%	4	271	364	179	277	411	289	40
1E02P	Mount Cook	1550	2024-03-01	228	827	36		77%	4	965	1239	787	1046	1615	1073	19
1E03A	TROPHY MOUNTAIN	1860	N	N	N	N	N	N/A	N/A	N	474	216	441	778	460	48
1E03AP	TROPHY MOUNTAIN	1880	2024-03-01	146	420			N/A	N/A						N/A	0
1E07	ADAMS RIVER	1720	2024-02-25	156	484	31	E	83%	22	N	692	262	568	892	584	52
1E08P	Azure River	1652	2024-03-01	199	648	33		70%	4	782	1161	563	969	1339	926	24
1E10P	Kostal Lake	1770	2024-03-01							541	813	481	714	1023	711	38
1E14P	Cook Creek	1280	2024-03-01	124	384	31		78%	11	493	790	308	494	790	491	14
			Average	155	494	31		76%	9							

Basin Index Calculation	Average SWE	509
	Average Normal	673
North Thompson Basin Index - March 1, 2024		76%

Stations used in Basin Index:

1E01B, 1E02P, 1E07, 1E08P, 1E14P

SOUTH THOMPSON			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023	2022	Minimum	Median	Maximum	1991-2020	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %			SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1F01A	ABERDEEN LAKE	1310	2024-03-05	55	128	23	88%	30	182	138	51	140	250	146	67
1F02	ANGLEMONT	1190	2024-03-04	104	301	29	92%	38	372	303	160	328	635	326	66
1F03P	Park Mountain	1890	2024-03-01	185	643	35	90%	31	785	654	393	698	1038	715	39
1F04P	Enderby	1950	2024-03-01	250	885	35	N/A	N/A	956	839	695	956	1116	N/A	7
1F06P	Celista Mountain	1500	2024-03-01	209	648	31	89%	14	672	868	545	738	908	731	18
			Average	161	521	31	90%	28							

Basin Index Calculation	Average SWE	430
	Average Normal	480
South Thompson Basin Index - March 1, 2024		90%

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

FRASER RIVER

Basin Index Calculation	Average SWE	333
	Average Normal	489
Fraser River Basin Index - March 1, 2024		68%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A06A, 1A10, 1A14P, 1A16, 1A17P, 1A19P, 1A23, 1B01, 1B01P, 1B02, 1B02P, 1B05, 1B06, 1B07, 1B08P, 1C01, 1C09A, 1C12P, 1C14, 1C17, 1C18P, 1C21, 1C22, 1C25, 1C28, 1C29, 1C33A, 1C39, 1C41P, 1D06P, 1D09P, 1D16, 1D17P, 1D19P, 1E01B, 1E02P, 1E07, 1E08P, 1E14P, 1F01A, 1F02, 1F03P, 1F06P

UPPER COLUMBIA			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023	2022	Minimum	Median	Maximum	1991-2020	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %			SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2A02	GLACIER	1250	2024-03-02	155	476	31	81%	15	518	884	251	586	952	591	84
2A03A	FIELD	1285	2024-02-27	41	97	24	66%	11	118	215	53	155	248	148	84
2A06P	Mount Revelstoke	1850	2024-03-01		720		74%	7	911	1125	537	987	1494	971	29
2A07	KICKING HORSE	1650	2024-02-27	80	192	24	69%	3	204	341	140	305	462	278	77
2A11	BEAVERFOOT	1890	2024-03-05	77	180	23	105%	47	118	246	80	188	333	171	62
2A14	MOUNT ABBOT	2010	2024-03-03	256	833	33	83%	16	862	1320	508	997	1448	1001	64
2A16	GOLDSTREAM	1920	2024-02-26	209	580	28	59%	2	751	1281	553	947	1351	979	60
2A17	FIDELITY MOUNTAIN	1870	2024-03-01	245	761	31	72%	6	866	1420	534	995	1703	1058	61
2A18P	Keystone Creek	1840	2024-03-01		541		N/A	N/A	591	850	591	779	850	N/A	7
2A19	VERMONT CREEK	1520	N	N	N	N	N/A	N/A	283	454	152	363	643	360	57
2A21P	Molson Creek	1935	2024-03-01	211	550		63%	3	734	977	437	884	1215	875	42
2A25	KIRBYVILLE LAKE	1750	2024-03-05	245	788	32	78%	12	936	1115	526	975	1476	1006	50
2A27	DOWNIE SLIDE (LOWER)	980	2024-02-26	128	392	31	62%	3	548	704	378	598	1018	629	39
2A29	DOWNIE SLIDE (UPPER)	1630	2024-02-26	208	658	32	57%	2	948	1228	614	1080	2120	1150	43
2A30P	Colpitti Creek	2131	2024-03-01	206	547	27	N/A	25	489	906	423	651	906	N/A	14
2A31P	Caribou Creek Upper	2201	2024-03-01		571		N/A	N/A	577	982	577	806	982	N/A	8
2A32P	Wildcat Creek	2122	2024-03-01		393		N/A	N/A	380	723	380	534	723	N/A	8
2A34P	Glacier NP Rogers Pass Lower	1182	2024-03-01	131	383		N/A	N/A	457	808	457		808	N/A	2
2A35P	Fred Laing Lower	577	2024-03-01	84	281		N/A	N/A	467		467		467	N/A	1
			Average	163	497	29	72%	12							

Basin Index Calculation	Average SWE	519
	Average Normal	738
Upper Columbia Basin Index - March 1, 2024		70%

Stations used in Basin Index:
2A02, 2A03A, 2A6P, 2A07, 2A11, 2A14, 2A16, 2A17, 2A21P, 2A25, 2A27, 2A29

WEST KOOTENAY			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023	2022	Minimum	Median	Maximum	1991-2020	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %			SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	

2B02A	FARRON	1220	2024-02-29	82	258	31	94%	39	291	238	79	278	450	274	49	Record Low
2B05	WHATSHAN (UPPER)	1525	2024-02-27	106	301	28	54%	0	457	465	285	558	918	560	61	
2B06P	Barnes Creek	1620	2024-03-01		343		76%	8	492	457	227	439	690	451	31	
2B07	KOCH CREEK	1860	2024-02-27	136	408	30	67%	5	640	458	269	605	996	609	57	
2B08P	St. Leon Creek	1800	2024-03-01		683		77%	11	678	1168	423	879	1392	888	30	
2B09	RECORD MOUNTAIN	1890							482	468	147	574	1136	594	47	
2D02	FERGUSON	880	2024-02-29	82	258	31	51%	0	500	575	283	517	796	507	68	Record Low
2D03	SANDON	1070	2024-03-01	68	190	28	59%	0	306	301	196	304	475	324	44	Record Low
2D04	NELSON	930	2024-02-28	52	126	24	42%	0	241	291	118	336	558	301	84	
2D05	GRAY CREEK (LOWER)	1550	NS	NS	NS	NS	N/A	N/A	NS	NS	201	386	663	385	70	
2D06	CHAR CREEK	1310	2024-03-01	137	345	25	77%	18	356	454	231	445	754	447	56	
2D07A	DUNCAN LAKE NO. 2	630	2024-03-05	30	66	22	44%	9	153	N	52	148	322	149	29	
2D07AP	Duncan Lake Dam 2	559	2024-03-01	3	13		N/A	N/A	63	255	6	132	255	N/A	4	
2D08P	East Creek	2030	2024-03-01		605		84%	20	605	1045	312	717	1167	722	42	
2D09	MOUNT TEMPLEMAN	1860	N	N	N	N	N/A	N/A	690	1033	490	864	1534	872	44	
2D10	GRAY CREEK (UPPER)	1940	NS	NS	NS	NS	N/A	N/A	NS	NS	343	612	955	615	49	
2D10P	GRAY CREEK (UPPER)	1930	2024-03-01	180	485		N/A	N/A	626	643	626	632	643	N/A	3	
2D14P	Redfish Creek	2104	2024-03-01	268	926		88%	24	1052	1247	615	1082	1316	1047	22	
2D17	Lost Ledge	2050					N/A	N/A	608	N	608		608	N/A	1	
2D18	Purcell	2060					N/A	N/A	677	727	677		727	N/A	2	
			Average	104	358	28	68%	11								

Basin Index Calculation	Average SWE	376
	Average Normal	523
West Kootenay Basin Index - March 1, 2024		72%

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

EAST KOOTENAY			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023 SWE (mm)	2022 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %									
2C01	SINCLAIR PASS	1370	2024-02-28	42	94	22	87%	28	87	117	44	117	262	108	76
2C04	SULLIVAN MINE	1550	2024-03-05	95	322	34	138%	74	252	254	53	264	465	234	78
2C09Q	Morrissey Ridge	1860	2024-03-01		354		64%	2	395	464	240	546	1074	551	40
2C10P	Moyie Mountain	1930	2024-03-01	92	227	25	63%	10	321	303	149	326	653	358	43
2C11	KIMBERLY UPPER	2140	N	N	N	N	N/A	N/A	381	358	152	360	696	335	45
2C12	KIMBERLY MIDDLE	1680	N	N	N	N	N/A	N/A	243	214	97	217	386	202	44
2C14P	Floe Lake	2090	2024-03-01	181	483	27	84%	20	427	780	254	596	893	572	28
2C15	MOUNT ASSINIBOINE	2230	2024-03-05	137	336	25	78%	14	315	579	185	427	680	430	50
2C17	THUNDER CREEK	2010	N	N	N	N	N/A	N/A	259	260	91	236	378	223	52
			Average	109	303	26	86%	25							

Basin Index Calculation	Average SWE	303
	Average Normal	375
East Kootenay Basin Index - March 1, 2024		81%

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

BOUNDARY			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023 SWE (mm)	2022 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %									
2E01	MONASHEE PASS	1370	2024-02-27	76	210	28	74%	11	288	250	149	290	442	286	64
2E02	CARMI	1250	2024-03-01	27	75	28	60%	7	143	89	47	133	274	126	60
2E03	BIG WHITE MOUNTAIN	1680	2024-03-01	137	421	31	106%	62	466	N	208	387	676	397	56
2E07P	Grano Creek	1860	2024-03-01	114	345	30	87%	28	585	395	198	388	634	398	25
			Average	89	263	29	81%	27							

Basin Index Calculation	Average SWE	263
	Average Normal	302

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

Boundary Basin Index - March 1, 202487%

OKANAGAN			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023	2022	Minimum	Median	Maximum	1991-2020	
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %			SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2F01A	TROUT CREEK (West)	1430	2024-02-26	44	115	26	63%	4	241	173	109	190	271	183	14
2F01AP	Trout Creek West	1420	2024-03-01	56	186	33	N/A	N/A	258	259	156	258	266	N/A	5
2F02	SUMMERLAND RESERVOIR	1280	2024-02-27	63	168	27	83%	22	288	176	97	213	381	202	63
2F03	MCCULLOCH	1280	2024-02-29	51	142	28	90%	39	226	121	71	158	249	158	83
2F04	GRAYSTOKE LAKE	1840	2024-02-26	87	202	23	68%	11	368	236	128	303	605	296	38
2F05P	Mission Creek	1780	2024-03-01	123	336	27	82%	33	467	305	203	388	634	409	53
2F07	POSTILL LAKE	1370	2024-03-01	66	172	26	95%	44	201	158	98	183	274	181	74
2F08	GREYBACK RESERVOIR	1550	NS	NS	NS	NS	N/A	N/A	N	N	91	184	312	199	51
2F08P	Greyback Reservoir	1550	2024-03-01	69	179	26	N/A	N/A	228	196	158	196	298	N/A	7
2F09	WHITEROCKS MOUNTAIN	1830	2024-02-28	115	345	30	76%	13	618	425	180	450	809	455	66
2F09P	Whiterocks Mountain	1800	2024-03-01	120	402	34	N/A	N/A	704		704		704	N/A	1
2F10	Silver Star Mountain	1840	2024-03-02	171	464	27	75%	15	689	N	347	603	912	619	60
2F10P	Silver Star Mountain	1839	2024-03-01	172	553	32	N/A	N/A	755	593	445	641	773	N/A	8
2F11	ISINTOK LAKE	1680	2024-02-28	63	139	22	97%	46	163	102	53	144	358	143	59
2F12	MOUNT KOBAU	1810	2024-02-28	72	211	29	81%	26	406	251	61	259	488	262	57
2F13	ESPERON CR (UPPER)	1650	NS	NS	NS	NS	N/A	N/A	NS	NS	157	334	635	321	52
2F14	ESPERON CR (MIDDLE)	1430	NS	NS	NS	NS	N/A	N/A	NS	NS	132	294	513	273	28
2F18P	Brenda Mine	1460	2024-03-01	71	205	29	69%	3	287	233	186	285	435	296	28
2F19	OYAMA LAKE	1340	2024-02-29	71	162	23	111%	67	142	118	73	144	241	146	54
2F19P	OYAMA LAKE	1360	2024-03-01	54	148	27	N/A	N/A	168	147	147	168	230	N/A	3
2F20	VASEUX CREEK	1400	2024-02-27	37	94	25	84%	28	150	124	52	119	284	112	52
2F23	MACDONALD LAKE	1740	2024-03-04	122	328	27	89%	38	438	349	170	349	583	370	47
2F24	ISLAHT LAKE	1480	2024-02-28	89	211	24	78%	18	400	216	161	271	497	270	42
			Average	86	238	27	83%	27							

Basin Index Calculation	Average SWE	220
	Average Normal	273
Okanagan Basin Index - March 1, 202480%		

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

SIMILKAMEEN			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023	2022	Minimum	Median	Maximum	1991-2020	
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %			SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2G03P	Blackwall Peak	1940	2024-03-01	139	339	24	50%	3	462	682	229	652	1323	681	56
2G04	LOST HORSE MOUNTAIN	1920	2024-03-01	72	160	22	83%	28	230	254	92	186	508	194	61
2G05	MISSEZULA MOUNTAIN	1550	2024-03-03	58	137	24	76%	15	189	151	76	190	363	180	60
2G06	HAMILTON HILL	1490	2024-03-02	78	176	23	69%	10	188	221	102	278	676	254	61
			Average	87	203	23	69%	14							

Basin Index Calculation	Average SWE	203
	Average Normal	327
Similkameen Basin Index - March 1, 202462%		

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

SOUTH COAST			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023	2022	Minimum	Median	Maximum	1991-2020	
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %			SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
3A01	GROUSE MOUNTAIN	1100	2024-03-01	132	430	33	43%	7	946	980	0	980	2320	999	73
3A02	POWELL RIVER (UPPER)	1040	NS	NS	NS	NS	N/A	N/A	NS	NS	868		868	N/A	1
3A05	POWELL RIVER (LOWER)	910	NS	NS	NS	NS	N/A	N/A	NS	NS	588		588	N/A	1
3A09	PALISADE LKAE	880	NS	NS	NS	NS	N/A	N/A	NS	1007	0	1120	3150	1083	67

Basin Index Calculation	Average SWE	326
	Average Normal	823
South Coast Basin Index - March 1, 2024		40%

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

Basin Index Calculation	Average SWE	341
	Average Normal	736
Vancouver Island Basin Index - March 1, 2024		46%

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

Basin Index Calculation	Average SWE	321
	Average Normal	569
Central Coast Basin Index - March 1, 2024		56%

Stations used in Basin Index:
3C07, 3C08P

SKAGIT			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
		Elevation					SWE %	Percentile	2023	2022	Minimum	Median	Maximum	1991-2020	
Station ID	Name	(masl)	YYYY-MM-DD	Snow Depth	SWE	Density	of Normal	of Historic	SWE	SWE	SWE	SWE	SWE	Normal SWE	Years of
				(cm)	(mm)	%		Record	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Record
3D01C	SUMALLO RIVER WEST	790	2024-02-26	17	26	15	12%	5	118	215	0	213	442	208	32
3D02	LIGHTNING LAKE	1220	2024-03-02	68	156	23	60%	9	172	232	36	248	497	260	50
3D03A	KLESILKWA	1175	2024-02-26	20	21	11	10%	4	112	219	0	237	759	212	70
			Average	35	68	N/A	28%	6							

Basin Index Calculation	Average SWE	68
	Average Normal	227
Skagit Basin Index - March 1, 2024		30%

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

PEACE			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023 SWE (mm)	2022 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020	
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %								Normal SWE (mm)	Years of Record
4A02P	Pine Pass	1400	2024-03-01	199	558	28	60%	0	1063	955	606	927	1485	923	31
4A03	WARE (UPPER)	1575	2024-02-28	68	138	20	64%	3	192	N	114	204	360	215	62
4A03P	Ware Upper	1565	2024-03-01	73	145	20	N/A	N/A	180	179	145	180	223	N/A	7
4A04	WARE (LOWER)	970	2024-02-28	62	128	21	76%	19	181	158	66	156	246	168	58
4A04P	Ware Lower	971	2024-03-01	61	148	24	N/A	N/A	175	167	91	175	196	N/A	7
4A05	GERMANSEN (UPPER)	1480	2024-02-29	82	194	24	64%	3	286	260	174	287	520	301	63
4A07	LADY LAURIER LAKE	1440	2024-02-27	122	334	27	75%	12	460	483	255	419	662	443	56
4A09P	Pulpit Lake	1311	2024-03-01	115	310	27	85%	23	318	375	200	372	515	365	33
4A10	FREDRICKSON LAKE	1325	2024-02-29	83	192	23	90%	41	227	187	86	202	315	213	59
4A10P	Fredrickson Lake	1326	2024-03-01	88	229	26	N/A	N/A						N/A	0
4A11	TRYGVE LAKE	1410	2024-02-28	109	279	26	89%	36	273	312	186	295	453	312	59
4A12	TSAYDAYCHI LAKE	1190	2024-03-01	92	218	24	61%	4	403	333	166	330	540	355	60
4A12P	Tsaydaychi Lake	1195	2024-03-01	93	198	21	N/A	N/A	366	282	282	366	419	N/A	3
4A13	PHILIP LAKE	1035	NS	NS	NS	NS	N/A	N/A	257	218	118	237	400	249	59
4A13P	Philip Lake	1028	2024-03-01	64	141	22	N/A	N/A	243	222	222	256	276	N/A	4
4A16	MORFEE MOUNTAIN	1430	2024-03-01	131	401	31	55%	2	757	614	312	699	1166	726	56
4A18	MOUNT SHEBA	1490	NS	NS	NS	NS	N/A	N/A	715	840	394	720	1123	754	51
4A18P	MOUNT SHEBA	1484	2024-03-01	173	492	28	N/A	N/A		883	802	892	991	N/A	4
4A20P	Monkman Creek	1570	2024-03-01		277		N/A	N/A	292	443	292	371	443	N/A	5
4A21	MOUNT STEARNS	1505	2024-02-27	42	78	19	64%	18	125	139	40	123	227	123	49
4A25	FORT ST. JOHN A	690	2024-02-29	33	60	18	59%	6	90	100	38	90	191	102	49
4A27P	Kwadacha North	1554	2024-03-01	97	231	24	86%	24	257	276	158	266	405	269	33
4A30P	Aiken Lake	1050	2024-03-01	82	216	26	96%	43	244	216	117	221	363	224	36
4A31P	Crying Girl Prairie	1358	2024-03-01	54	123	23	N/A	N/A	241	172	124	199	241	N/A	8
4A33P	Muskwa-Kechika	1196	2024-03-01	44	70	16	N/A	N/A	151	120	33	94	120	N/A	8
4A34P	Dowling Creek	1456	2024-03-01		222		N/A	N/A	1401	1319	1026	1244	1401	N/A	6
4A36P	Parsnip Upper	790	2024-03-01	70	111	16	N/A	N/A	282	324	282	336	362	N/A	5
4A37P	McQue Terrace	1200	2024-03-01	44	101	23	N/A	N/A	126	113	81	113	126	N/A	4
4A38P	Horn Creek	1450	2024-03-01	89	255	29	N/A	N/A	342		342		342	N/A	1
4A39P	Chowade Upper	1480	2024-03-01	46	83	18	N/A	N/A						N/A	0
			Average	85	212	23	73%	17							

Record Low

Basin Index Calculation	Average SWE	238
	Average Normal	338
Peace Basin Index - March 1, 2024		70%

Stations used in Basin Index:
4A02P, 4A03, 4A04, 4A07, 4A09P, 4A10, 4A11, 4A12, 4A16, 4A21, 4A25, 4A27P, 4A30P

SKEENA-NASS			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023 SWE (mm)	2022 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020	
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %								Normal SWE (mm)	Years of Record
4B01	KIDPRICE LAKE	1370	2024-03-01	165	515	31	65%	5	780	746	429	745	1320	791	72
4B02	JOHANSON LAKE	1420	2024-02-29	87	200	23	79%	13	283	261	148	240	368	252	59
4B02P	Johanson Lake	1467	2024-03-01	93	265	28	N/A	N/A	299		299		299	N/A	1
4B03A	HUDSON BAY MTN.	1480	2024-02-26	105	249	24	56%	0	494	482	287	426	719	444	52
4B04	CHAPMAN LAKE	1460	2024-02-26	96	211	22	51%	0	396	456	266	395	691	415	58
4B06	TACHEK CREEK	1140	2024-02-29	53	106	20	53%	0	222	192	117	190	332	199	55
4B07	MCKENDRICK CREEK	1050	2024-02-26	50	123	25	49%	0	258	224	155	254	391	250	54
4B08	MOUNT CRONIN	1480	2024-02-26	120	305	25	62%	0	432	468	345	469	869	492	54
4B11A	BEAR PASS	460	2024-02-28	106	290	27	58%	3	640	600	87	545	824	503	36

Record Low

Record Low

Record Low

Record Low

Record Low

4B13A	TERRACE AIRPORT	180	2024-03-05	9	18	20	13%	9	151	94	0	141	407	138	40
4B14	EQUITY MINE	1420	2024-02-28	84	192	23	55%	0	324	N	190	324	546	348	44
4B15	LU LAKE	1300	2024-02-28	66	134	20	53%	2	256	N	122	256	412	254	43
4B15P	Lu Lake	1300	2024-03-01	67	142	21	58%	6	296	244	120	244	402	246	26
4B16P	Shedin Creek	1480	2024-03-01	157	511	33	77%	23	650	774	393	675	957	665	27
4B17P	Tsai Creek	1360	2024-03-01	170	642	38	69%	6	845	994	587	876	1600	932	26
4B18P	Cedar-Kiteen	885	2024-03-01	97	377	39	67%	15	685	880	281	570	953	561	21
			Average	95	268	26	58%	6							

Basin Index Calculation	Average SWE	268
	Average Normal	433
Skeena-Nass Basin Index - March 1, 2024		62%

Stations used in Basin Index:
4B01, 4B02, 4B03A, 4B04, 4B06, 4B07, 4B08, 4B11A, 4B13A, 4B14, 4B15, 4B15P, 4B16P, 4B17P, 4B18P

LIARD			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023 SWE (mm)	2022 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %									
4C01P	Sikanni Lake	1387	2024-03-01	84	163	19	N/A	N/A	224	230	114	226	283	N/A	7
4C02	SUMMIT LAKE	1280	N	N	N	N	N/A	N/A	N	136	0	100	190	106	52
4C05	FORT NELSON AIRPORT	380							N	122	40	94	177	84	55
4C20P	Sierra Climate	572	2024-03-01		52		N/A	N/A	91	N/A	65	91	129	N/A	5
4C21P	Two Island Climate	708	2024-03-01		66		N/A	N/A	62	N/A	62	101	161	N/A	5
			Average	84	94	19	N/A	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Liard Basin Index - March 1, 2024		N/A

Stations used in Basin Index:

STIKINE			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023 SWE (mm)	2022 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %									
4D10P	Tumeka Creek	1220	2024-03-01		403		84%	33	399	477	262	481	789	479	26
4D11P	Kinaskan Lake	1020	2024-03-01	94			N/A	N/A	278	359	148	283	557	321	28
4D16P	Forrest Kerr Mid Elevation Snow	1192	2024-03-01		821		N/A	N/A	883	1095	471	778	1095	N/A	8
4D17P	Forrest Kerr High Elevation Snow	1622	2024-03-01		1193		N/A	N/A	1199	1668	598	996	1668	N/A	8
			Average	94	806	N/A	84%	33							

Basin Index Calculation	Average SWE	403
	Average Normal	479
Stikine Basin Index - March 1, 2024		84%

Stations used in Basin Index:
4D10P

NORTHWEST			March 1, 2024 Data				Mar 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2023 SWE (mm)	2022 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %									
4E01	LOG CABIN	900	2024-02-29	142	392	28	111%	80	328	419	124	328	700	353	63
4E01P	Log Cabin	890	2024-03-01	145	416	29	N/A	N/A						N/A	0
4E02B	ATLIN LAKE	730	2024-02-26	52	116	22	125%	75	75	129	54	88	207	93	17
			Average	113	308	26	118%	77							

Basin Index Calculation	Average SWE	254
	Average Normal	223
Northwest Basin Index - March 1, 2024		114%

Stations used in Basin Index:
4E01, 4E02P

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	312
	Average Normal	472
British Columbia Basin Index - March 1, 2024		66%

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

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