

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

The February 1st snow survey is now complete. Data from 74 manual snow courses and 108 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 February 1st, the provincial snowpack remains very low, averaging 61% of normal (39% below normal) across British Columbia (Jan 1st: 56%). Last year, the provincial average was 79% for Feb 1st. The Fraser River is 62% for Feb 1st.
- Extreme cold temperatures mid-month and extreme warm conditions late-month resulted in overall monthly temperatures close to normal for January.
- Due to the extremely low snow conditions, below normal spring freshet flood hazard is expected this season, especially in the Interior.
- Low snowpack and seasonal runoff forecasts combined with warm seasonal weather forecasts and lingering impacts from previous drought are creating significantly elevated drought hazards for this upcoming spring and summer.
- There are still 2 to 3 months left in the snow season. While conditions may change slightly over this period, current trends in low snowpack are expected to persist.

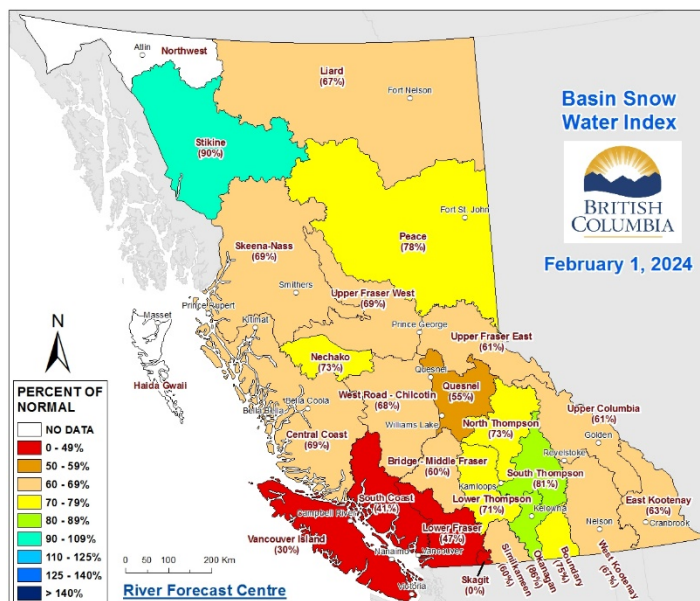


Figure 1. February 1st, 2024 Basin Snow Water Index Map of British Columbia. Larger and colour-friendly versions available in full report.

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

Basin	% of Normal	Basin	% of Normal	Basin	% of Normal
Upper Fraser West	69	North Thompson	73	South Coast	41
Upper Fraser East	61	South Thompson	81	Vancouver Island	30
Nechako	73	Fraser River	62	Central Coast	69
Middle Fraser	59	Upper Columbia	61	Skagit	0
Lower Thompson*	71	West Kootenay	67	Peace	78
Bridge*	60	East Kootenay	63	Skeena-Nass	69
Chilcotin*	68	Boundary	75	Liard	67
Quesnel*	55	Okanagan	86	Stikine	90
Lower Fraser	47	Similkameen	60	Northwest	N/A [#]
British Columbia 61% of Normal					

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

Next scheduled snow bulletin release: March 8, 2024



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Weather

British Columbia experienced periods of extremely cold temperatures in mid-January, and extremely warm temperatures in late-January. Combined, these extremes resulted in average monthly temperatures that were close to normal for most of the province.

A series of late-month atmospheric rivers brought heavy rainfall across south-west B.C. Monthly precipitation totals were above normal on Vancouver Island, the Lower

Mainland, South Coast, Okanagan, and the Thompson. The North Coast and Northeast regions measured below normal precipitation for January. Other areas of the province were near normal.

The first week of February was drier than normal. Weather forecasts for the upcoming 7-10 days predict continued relatively dry conditions through the province.

Snowpack

Snow Basin Indices (SBI) for February 1st, 2024 ranged from a low of 0% of normal in the Skagit to a high of 90% in the Stikine (Table 1, 2 and Figure 1, 4, 5). Overall, the provincial snowpack remains extremely low for February 1st, with all snow measurements averaging 61% of normal (39% below normal). Only three basins recorded above 80% of normal (Stikine: 90%, Okanagan: 86% and South Thompson: 81%). Nine snow stations measured all-time lows for their period of record. These are listed further below.

Most regions in the province measured slight increases in snow basin indices compared to last month (January 1st). Notable increases in relative percent of normal were the Okanagan and Similkameen, which increased by 22 and 28 percentage points, respectively. Drier than

normal conditions in the North Coast resulted in SBI decreasing in the Skeena-Nass, Central Coast and Nechako. Whereas Vancouver Island decreased relative to normal due to very warm late-January temperatures and heavy rain that caused significant snowmelt.

Last year, the February 1st average of all snow stations in British Columbia was 79% of normal (Table 2). Snow basin indices are much lower this year compared to 2023 due to very dry and warm conditions through the snow accumulation season. The Stikine and North Thompson are the only regions with 2024 values higher than the previous year.

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

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Table 2 – B.C. Snow Basin Indices – February 1, 2024 compared to January 1, 2024

Basin	February 1 st % of Normal (Jan 1 value)	Percentage Point Change Jan 1 to Feb 1	Basin	January 1 st % of Normal (Jan 1 value)	Percentage Point Change Jan 1 to Feb 1
Fraser River Region			Columbia Region		
Upper Fraser East	61 (63)	↓ -2	Upper Columbia	61 (59)	↑ +2
Upper Fraser West	69 (35)	↑ +34	West Kootenay	67 (57)	↑ +10
Nechako	73 (84)	↓ -11	East Kootenay	63 (62)	↑ +1
Middle Fraser	59 (50)	↑ +9	Boundary	75 (58)	↑ +17
Lower Thompson*	71 (36)	↑ +35	Okanagan	86 (64)	↑ +22
Bridge*	60 (53)	↑ +7	Similkameen	60 (32)	↑ +28
Chilcotin*	68 (0)	↑ +68	Northern Region		
Quesnel*	55 (51)	↑ +4	Peace	78 (72)	↑ +6
Lower Fraser	47 (35)	↑ +12	Skeena-Nass	69 (80)	↓ -11
North Thompson	73 (60)	↑ +13	Liard	67 (N/A ^a)	N/A ^a
South Thompson	81 (73)	↑ +8	Stikine	90 (96)	↓ -6
Coastal Region			Northwest	N/A ^b (N/A)	N/A ^a
South Coast	41 (36)	↑ +5	Additional		
Vancouver Island	30 (39)	↓ -9	Fraser River	62 (53)	↑ +9
Central Coast	69 (78)	↓ -9			
Skagit	0 (0)	0			
British Columbia 61 (56) ↑ +5					

^a No snow surveys scheduled for January 1st 2024. ^b No snow surveys scheduled for February 1st 2024. * Sub-region of the Middle Fraser

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

Basin	February 1 st % of Normal (2023 value)	Percentage Point Change 2023 to '24	Basin	February 1 st % of Normal (2023 value)	Percentage Point Change 2023 to '24
Fraser River Region			Columbia Region		
Upper Fraser East	61 (73)	↓ -12	Upper Columbia	61 (72)	↓ -18
Upper Fraser West	69 (100)	↓ -31	West Kootenay	67 (84)	↓ -17
Nechako	73 (84)	↓ -11	East Kootenay	63 (84)	↓ -21
Middle Fraser	59 (75)	↓ -16	Boundary	75 (116)	↓ -41
Lower Thompson*	71 (115)	↓ -44	Okanagan	86 (121)	↓ -35
Bridge*	60 (64)	↓ -4	Similkameen	60 (77)	↓ -17
Chilcotin*	68 (98)	↓ -30	Northern Region		
Quesnel*	55 (91)	↓ -36	Peace	78 (81)	↓ -3
Lower Fraser	47 (71)	↓ -24	Skeena-Nass	69 (86)	↓ -17
North Thompson	73 (63)	↑ +10	Liard	67 (68)	↓ -1
South Thompson	81 (86)	↓ -5	Stikine	90 (67)	↑ +23
Coastal Region			Northwest	N/A ^a (N/A)	N/A ^a
South Coast	41 (73)	↓ -32	Additional		
Vancouver Island	30 (75)	↓ -45	Fraser River	62 (75)	↓ -13
Central Coast	69 (88)	↓ -19			
Skagit	0 (50)	↓ -50			
British Columbia 61 (79) ↓ -18					

^a No snow surveys scheduled for January 1st in 2023 or 2024. * Sub-region of the Middle Fraser

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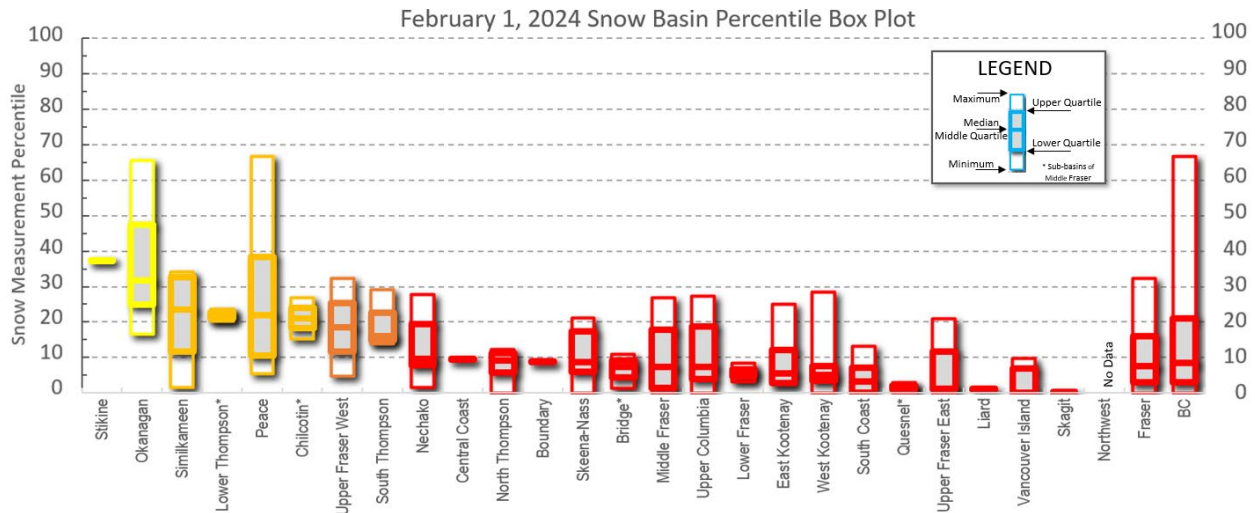
Nine snow stations measured all-time low snow water equivalent (SWE) measurements for February 1st, 2024:

- 1A02P McBride Upper: 200 mm SWE (60% of normal) – 32 years (Upper Fraser East)
- 1C17 Mount Timothy: 63 mm SWE (27% of normal) – 55 years (Quesnel / Middle Fraser)
- 1E08P Azure River: 525 mm SWE (66% of normal) – 26 years (North Thompson)
- 2A17 Fidelity Mountain: 392 mm SWE (46% of normal) – 60 years (Upper Columbia)
- 2A21P Molson Creek: 407 mm SWE (54% of normal) – 42 years (Upper Columbia)
- 2D07A Duncan Lake No. 2: 40 mm SWE (31% of normal) – 32 years (West Kootenay)
- 3A25P Squamish River Upper: 467 mm SWE (44% of normal) – 33 years (South Coast)
- 3A26 Chapman Creek: 382 mm SWE (43% of normal) – 14 years (South Coast)
- 3A27 Edwards Lake: 195 mm SWE – 12 years (South Coast)

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 Stikine (37th

percentile); the region with the lowest is the Skagit (0th). A box plot displaying the percentile variance ordered from highest to lowest median, including sub-basins, is provided below in Figure 2.

Figure 2. Snow Basin Percentile Box Plot – February 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.

Periods of warm weather and atmospheric river events in late-January increased the

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proportion of ASWS reporting well below normal percentiles since January 1st. As of February 1st approximately 80% of stations were reporting below the 20th percentile, and nearly 95% of stations reported below the 40th percentile.

For comparison, Figure 4 displays the changes in percentile classes at ASWS last year (2022-2023). The snowpack was healthier last winter compared to this season. Record-breaking heat in May rapidly melted the snowpack in spring 2023.

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

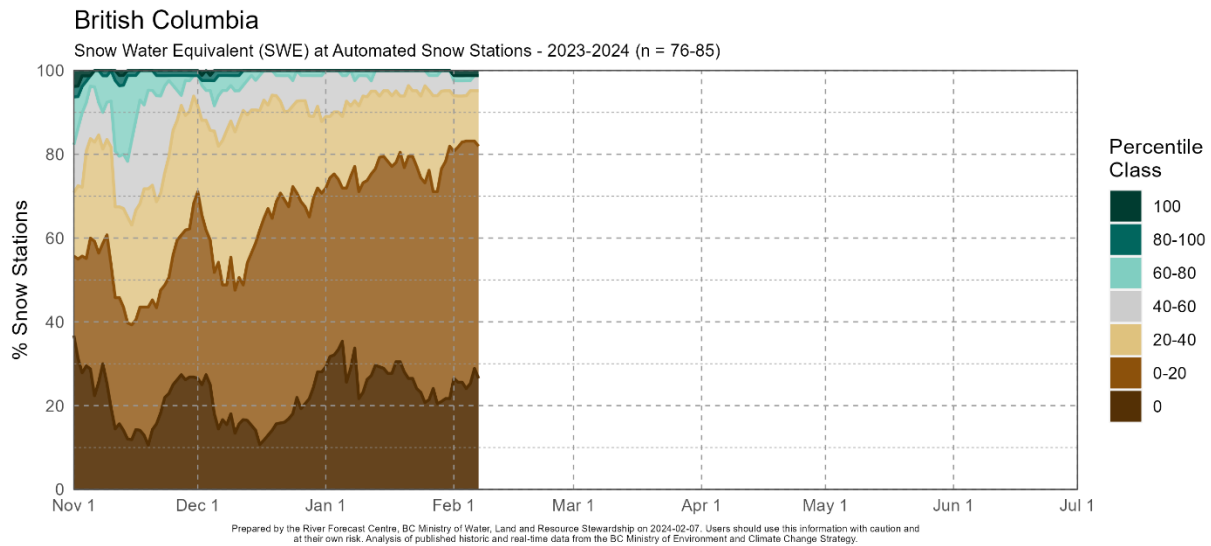
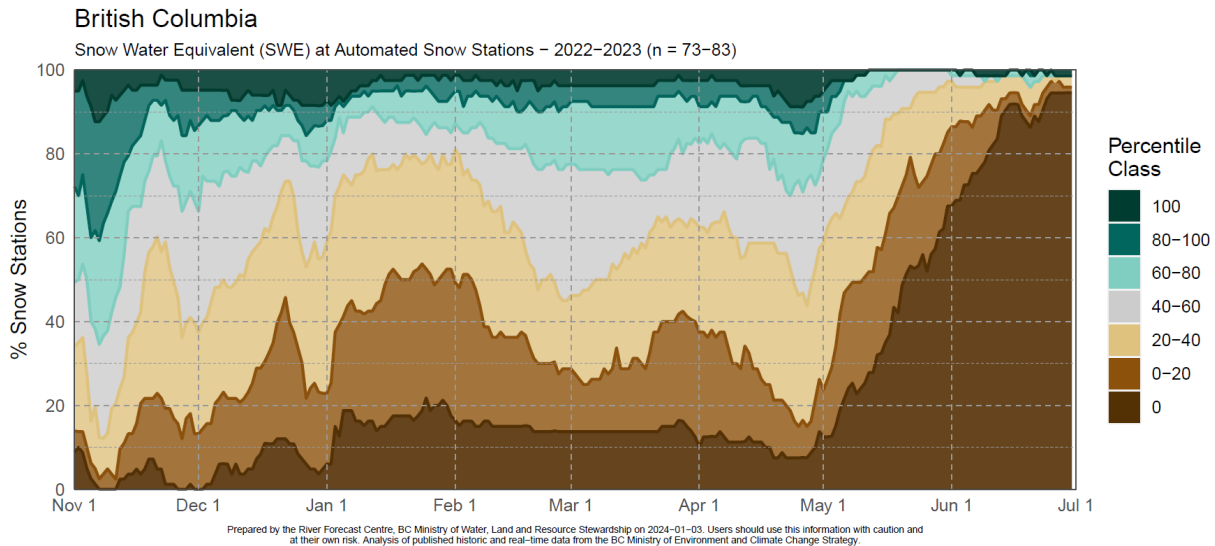


Figure 4. Snow Water Equivalent Percentiles at Automated Snow Weather Stations (2022-2023)





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Seasonal Weather Outlook

The Climate Prediction Center (CPC) at the U.S. National Weather Service / NOAA issued an El Niño Advisory for 2023-24. El Niño is the warm phase of the El Niño-Southern Oscillation (ENSO). It is expected to continue through the North American winter, with a transition to ENSO-neutral conditions favoured during April-June 2024 (79% chance). This is the first El Niño winter season since 2018-19. Typically, El Niño is linked to warmer winters across British Columbia. During El Niño, snowpacks tend to be lower than normal; however, there has been a large range of variability in snowpack in B.C. during El Niño winters in the past. For example, 2006-07 had an extremely high snowpack develop during an El Niño winter.

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 very high likelihood (60-100% chance) of above normal temperatures across all of B.C. over the February through April period, and moderate likelihood (40-80% chance) of above normal temperatures over the May to July period. There is less certainty over seasonal forecasts for precipitation, which indicate limited areas with either above or below normal precipitation over the February to April period. SWE forecasts are following similar trends as expected under El Niño conditions, with a high likelihood (90-100%) of below normal SWE over the February to April period across all but the far north of B.C.

Seasonal Volume Forecasts

In 2021, updated inflow models were developed for Nicola Lake, Nicola River, Okanagan Lake and Kalamalka-Wood Lake. The new models are trained to a longer observational record period, and include several years in the 2010s with extremely high or low runoff (see February 1st 2021 Snow Bulletin for additional details). In the past three seasons, both the original and updated models were run concurrently to examine the effects of the updates. The concurrent approach is being used again in the 2024 season.

Seasonal volume runoff forecasts are near normal (80%-100% of normal) for the Upper Fraser, Quesnel River, Skeena River, South Thompson River and Thompson River. Below normal (60-80%) flows are forecast for the Bulkley River, North Thompson River, and Similkameen. Well below normal (45-60%) to extremely low (<45%) inflow is forecast for Okanagan Lake, Kalamalka-Wood Lake, Nicola Lake and Nicola River.

Extremely low seasonal forecasts for Nicola, Okanagan and Kalamalka-Wood are being driven by low antecedent flow, dry seasonal



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weather, low snowpack, and seasonal weather forecasts. Evaporation and transpiration losses over summer lead to projections of net loss over periods of the summer. Forecasted flows are extremely low, but not without historical precedent in the observed record. Low inflow into Okanagan Lake and Kalamalka-Wood Lake in 1992 and 2003 were similar to current seasonal forecasted inflows.

Flood and Drought Outlook

By early February, approximately two-thirds of the annual B.C. snowpack typically accumulates. With another two to three months remaining in the snow accumulation season, changes can occur in the overall snowpack and seasonal outlook. 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. Regional variation in snowpack can be expected.

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 Stikine, where snowpack is closer to normal (90%),

These years included similar low antecedent inflow and snowpack. Low inflows into Nicola Lake in 1988, 1992 and 2003 across the whole spring-summer season (February to September) are similar to current forecasts. However, early season inflow into Nicola Lake (February to June and July) are below recorded observations.

where typical seasonal flood hazard is anticipated. 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 coming two to three months, with the April 1st snow survey period being the benchmark survey for understanding upcoming seasonal flood hazards with increased certainty.

The current provincial low snowpack (61% 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. These hazards are pronounced in areas with extremely low snowpack, including Vancouver Island, South Coast, and the Lower Fraser. Extremely low seasonal runoff forecasts for the Okanagan, Kalamalka-Wood, Nicola Lake and Nicola River are also indicative of elevated seasonal drought hazards.



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Summary

By early February, approximately two-thirds of the annual B.C. snowpack typically accumulates. Snowpack throughout the province ranges from 0 to 90% of normal across regions. The average for all snow measurements in the province on February 1st is 61% of normal (39% below normal). During the first week of February, very little snow has accumulated at ASWS and the short-term weather forecasts indicate continued dry weather for another 7-10 days. There are early concerns for drought extending into the spring and summer with the extremely low snowpack throughout the province. With

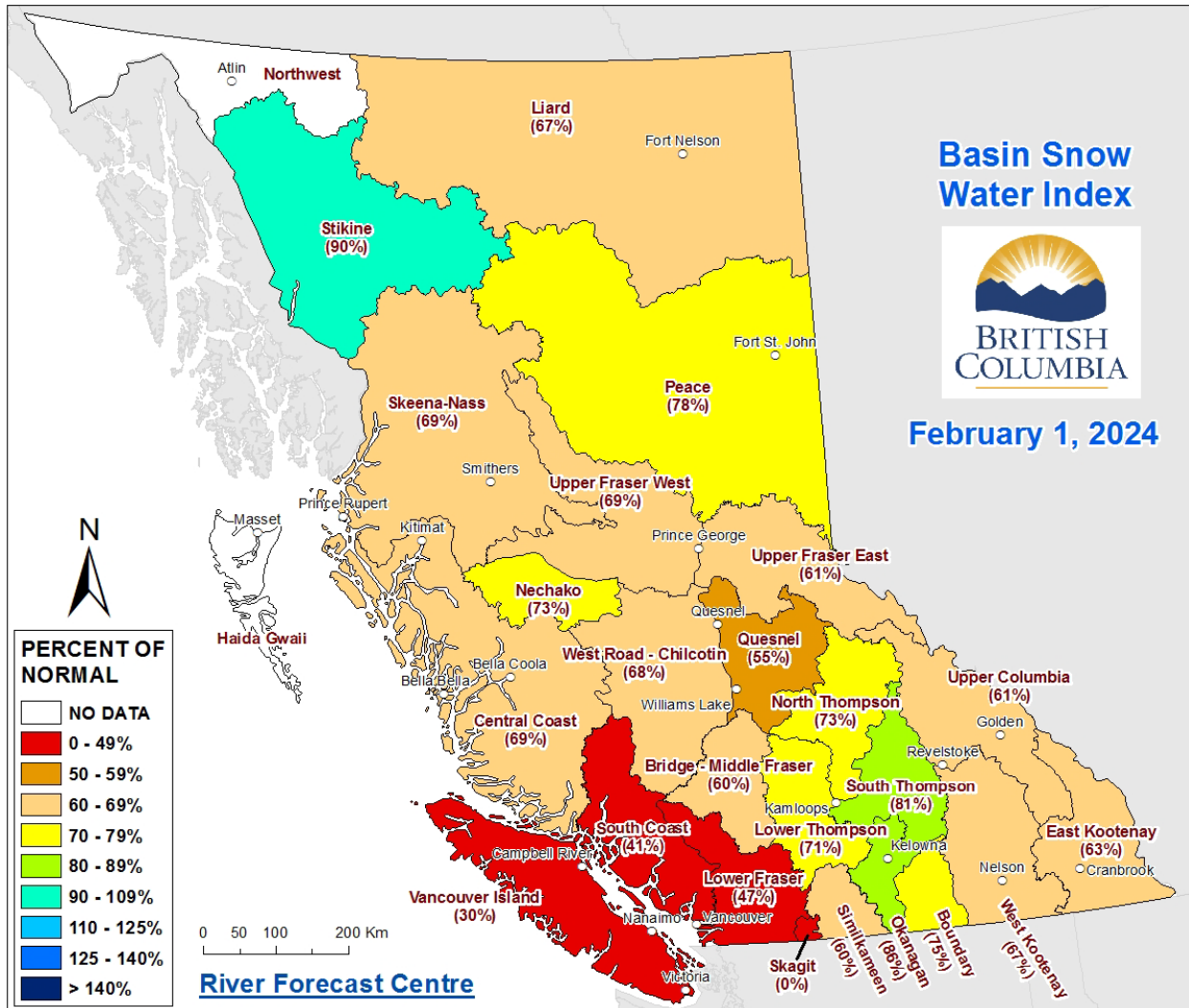
approximately two more months left for snow accumulation, seasonal snowpacks and the seasonal flood and drought outlook could change. With an increased chance of warmer than normal seasonal temperatures, the lower-than-normal snowpack trend is expected to continue. A very wet and cool seasonal weather scenario through the remainder of the winter and early spring could move snowpack closer to normal. Conversely, a dry and warm seasonal weather scenario through the remainder of the winter and spring could lead to record low flow and drought hazard this spring and summer.

The River Forecast Centre continues to monitor snowpack conditions and will provide an updated seasonal risk forecast in the March 1st, 2024 bulletin scheduled for release on March 8th.

River Forecast Centre
February 8, 2024

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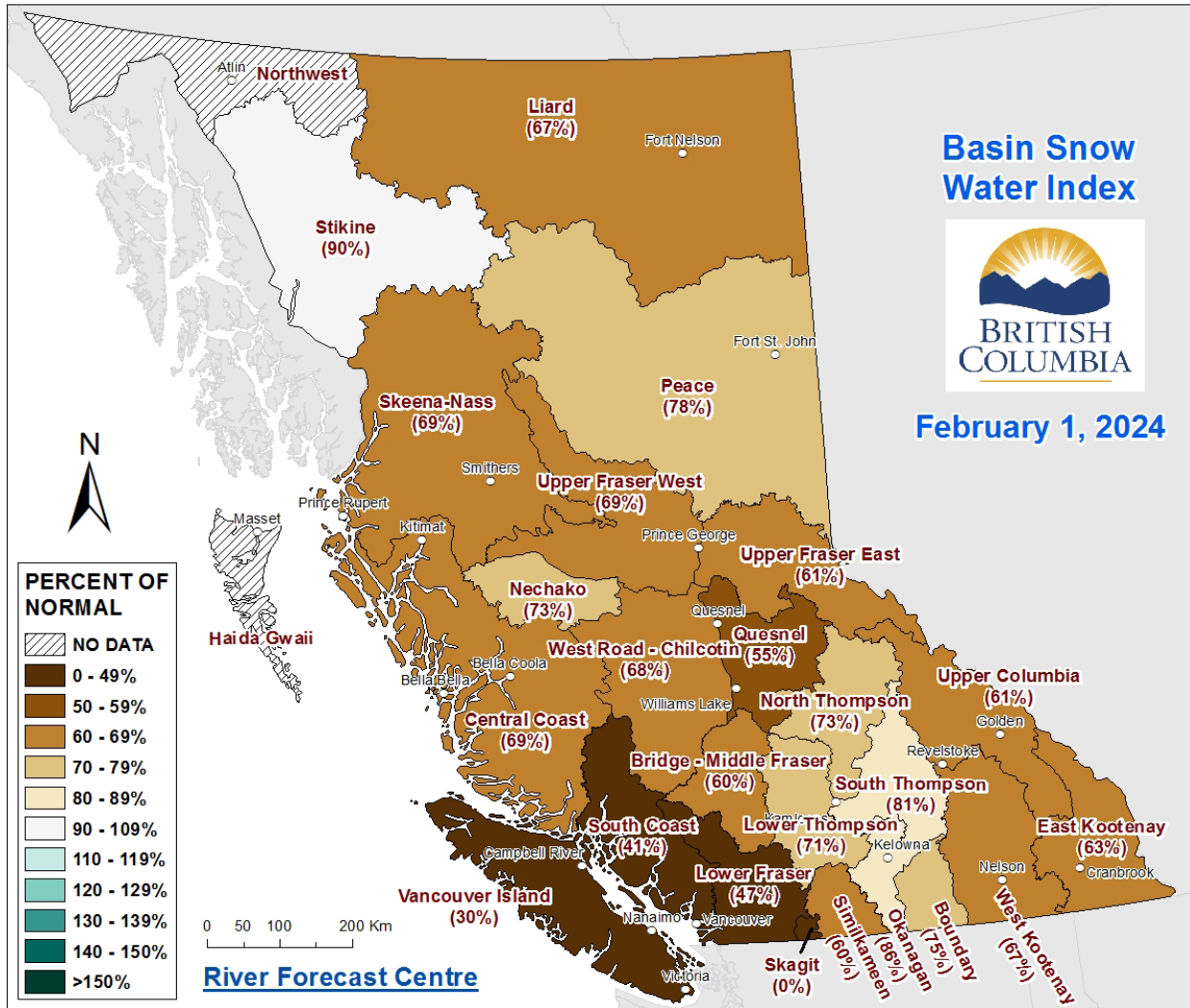
Figure 4: Basin Snow Water Index – February 1st, 2024



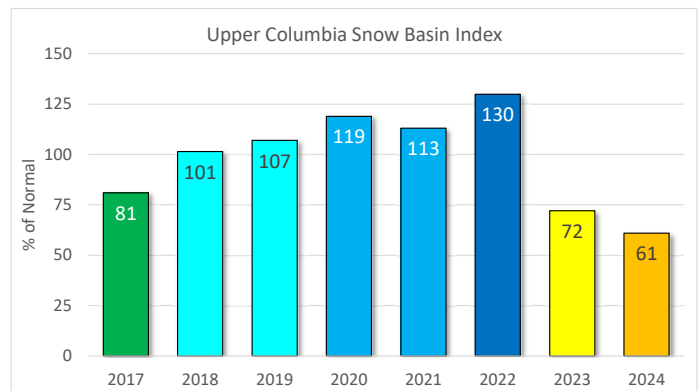
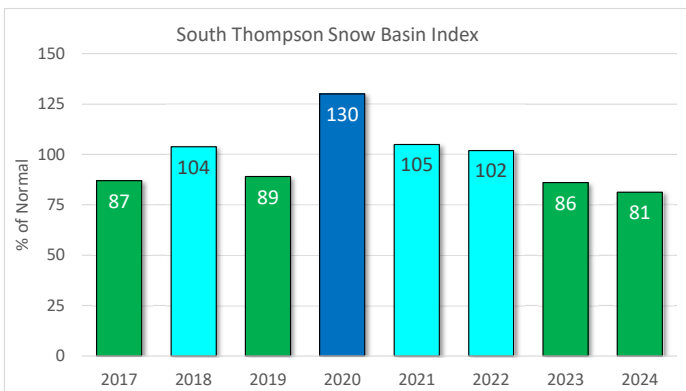
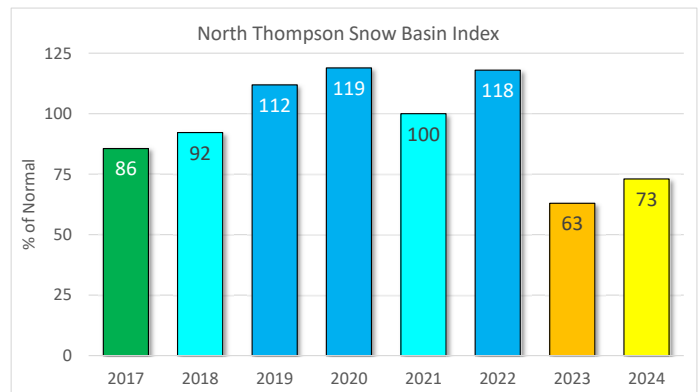
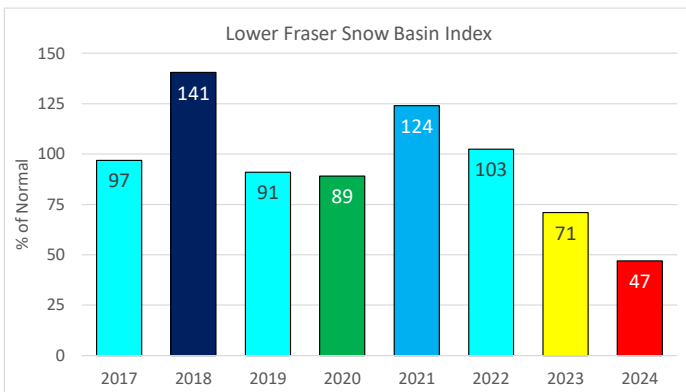
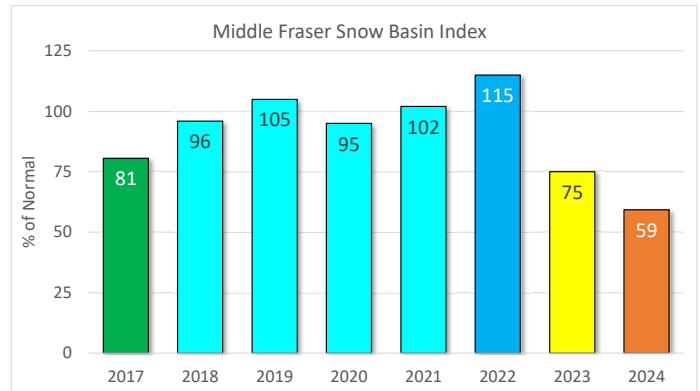
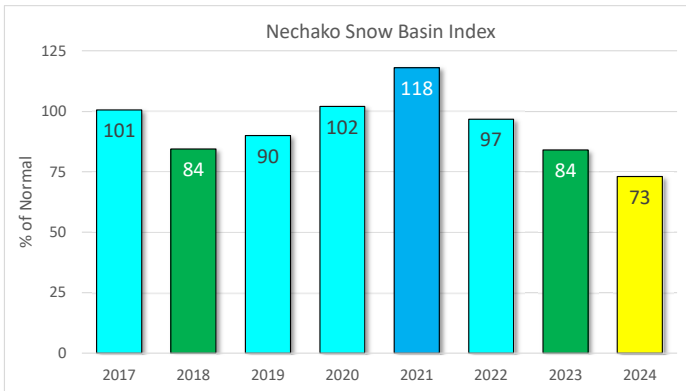
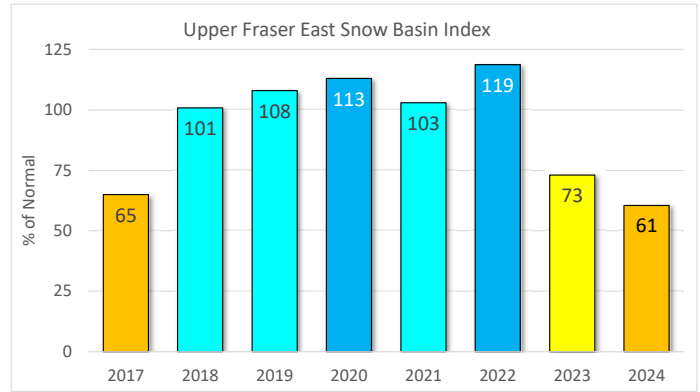
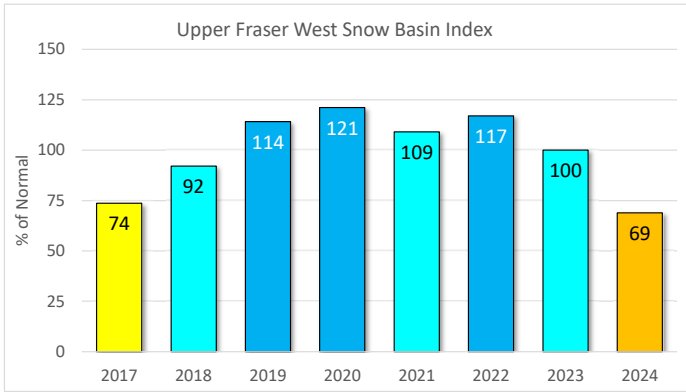
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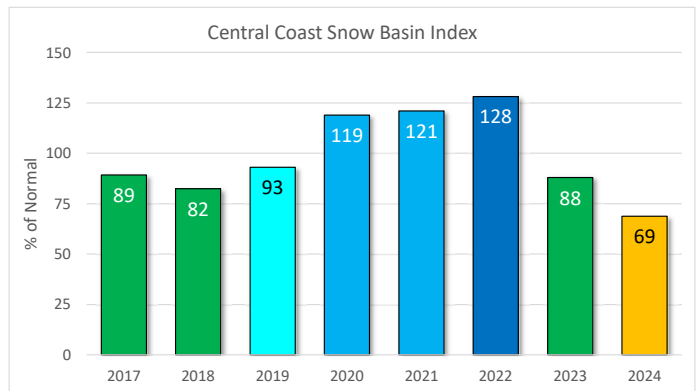
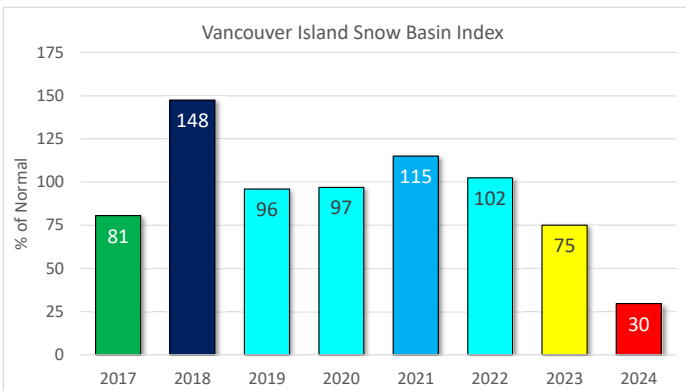
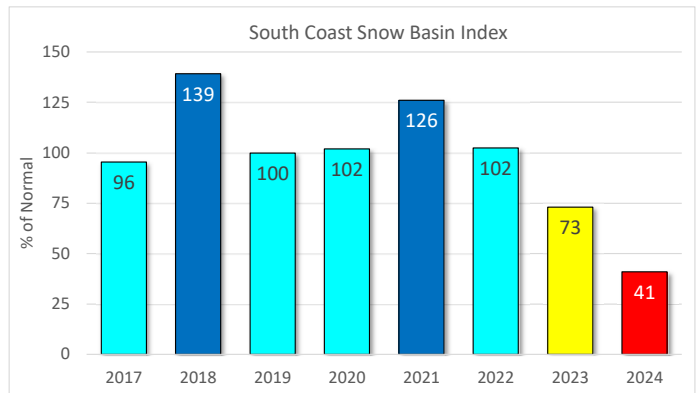
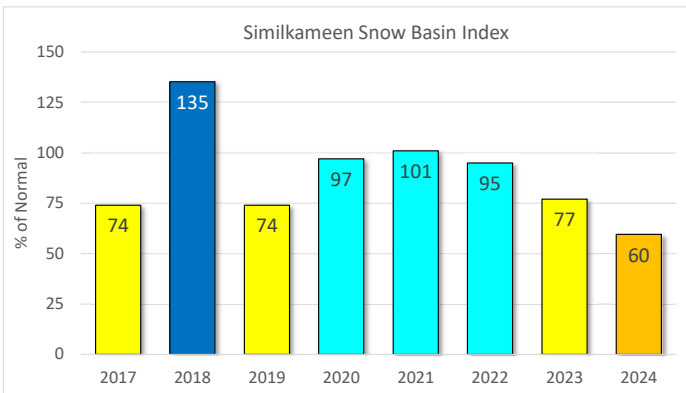
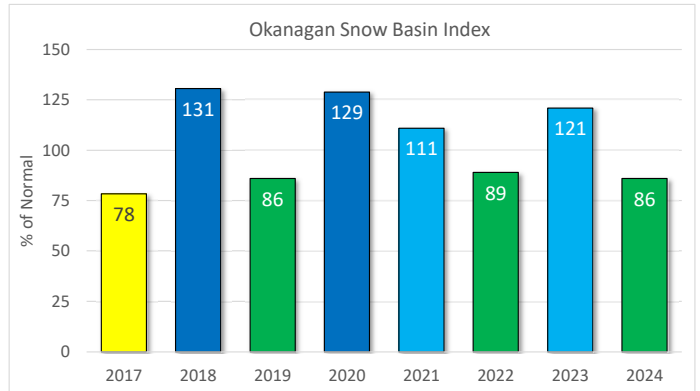
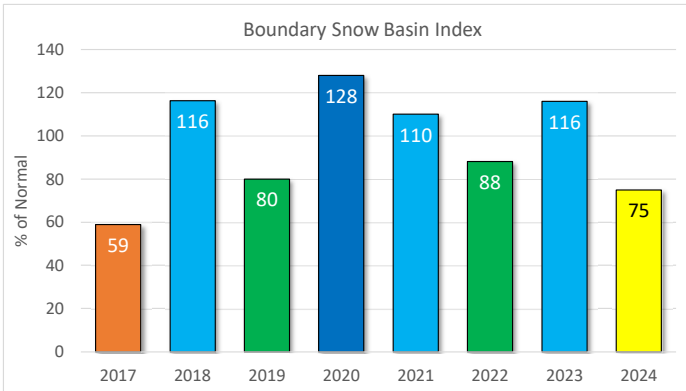
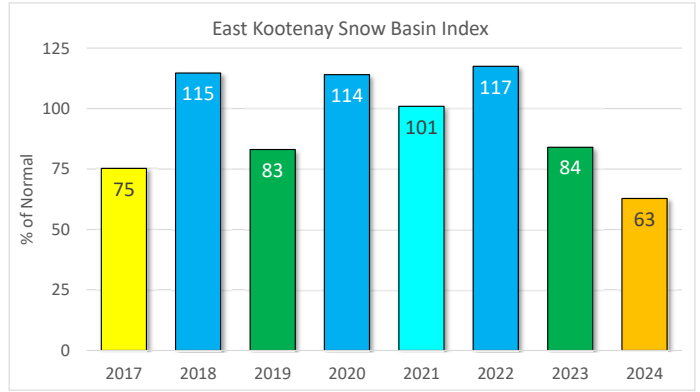
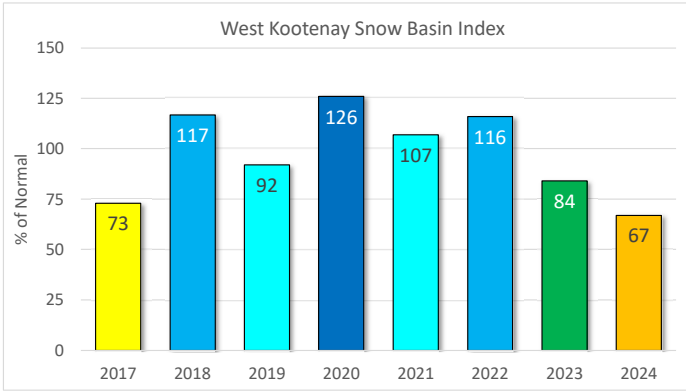
Figure 5: Basin Snow Water Index – February 1st, 2024 – Colour Friendly



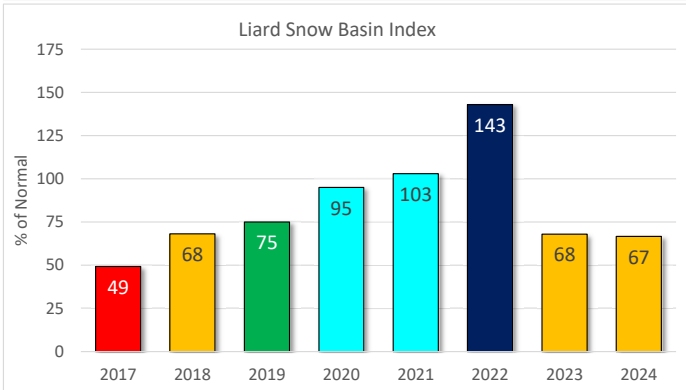
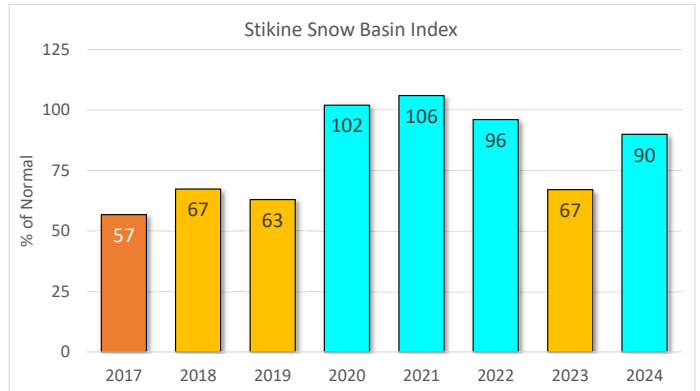
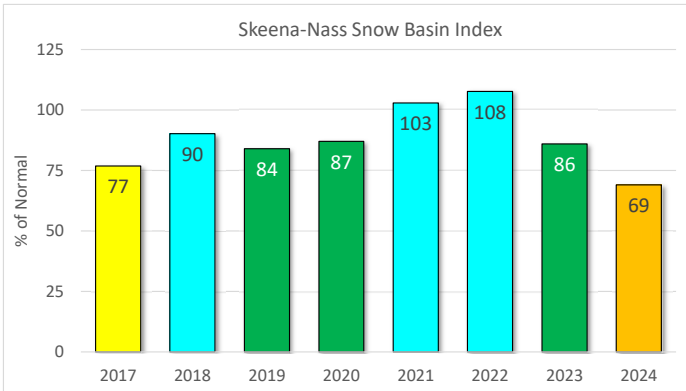
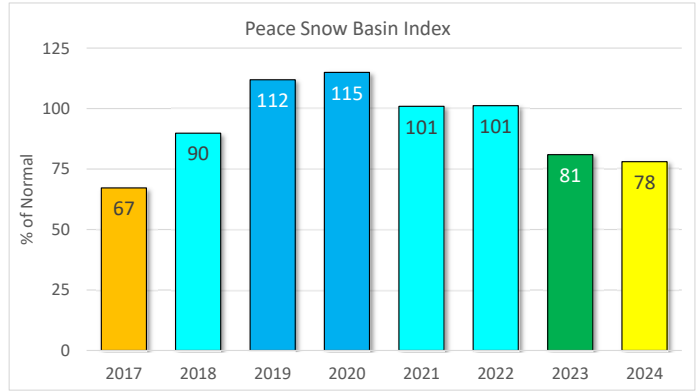
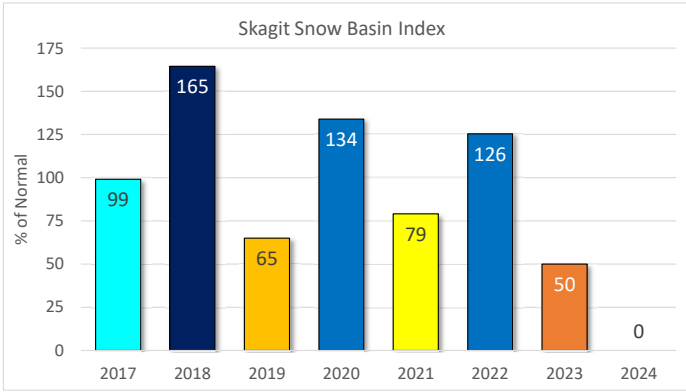
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Snow Basin Index Graphs - February 1, 2024



Snow Basin Index Graphs - February 1, 2024



Ministry of Forests, Lands and Natural Resource Operations and Rural Development
River Forecast Centre
Volume Runoff Forecast February 2024

Location		Feb - Jun Runoff				Feb - Jul Runoff				Feb - 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					3,583	3,858	93	333	5,004	5,325	94	396
	McGregor at Lower Canyon					3,571	4,185	85	553	4,598	5,231	88	672
	Fraser at Shelley					13,841	16,786	82	1,716	17,621	20,845	85	2,033
Middle Fraser Basin	Quesnel River at Quesnel					4,410	4,930	89	551	5,654	6,261	90	661
Thompson Basin	N. Thompson at McLure					7,198	9,411	76	710	8,669	11,580	75	925
	S. Thompson at Chase					5,695	6,389	89	650	7,125	7,956	90	940
	Thompson at Spences Bridge					13,605	16,353	83	1,381	16,786	20,333	83	1,775
Bulkley and Skeena	Bulkley at Quick					2,034	2,784	73	1,655	2,536	3,381	75	2,173
	Skeena at Usk					16,389	19,604	84	1,553	20,718	23,948	87	2,123
Nicola Lake		69	131	53	33	85	148	57	38				
*new model - Normal (1984-2019)		25	140	18	29	40	159	25	27	44	165	27	28
Nicola River at Spences Bridge		369	549	67	100	400	616	65	123				
*new model - Normal (1970-2019)		251	561	45	79	294	624	47	91	353	666	53	93
Okanagan Lake		354	488	73	99	360	515	70	120				
*new model - Normal (1970-2019)		274	513	53	91	272	537	51	95	236	520	45	102
Kalamalka-Wood Lake		18.1	33.1	55	12.8	17.4	34.5	50	15.1				
*new model - Normal (1975-2019)		10.3	28.6	36	N/A	6.6	27.5	24	N/A	-2	25.2	-9	N/A
Similkameen River	at Nighthawk	1,027	1,391	74	166					1,198	1,701	70	196
	at Hedley	795	1,080	74	139					890	1,268	70	148

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

February 1, 2024 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			February 1, 2024 Data				Feb 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	2022	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	2024-02-01	73	217	30		56%	1	243	449	207	385	619	386	24
1A02P	McBride Upper	1611	2024-02-01	59	200	34		60%	0	276	413	203	317	522	332	32
1A03P	Barkerville	1520	2024-02-01	60	176	29		79%	21	193	263	116	220	368	223	46
1A05P	Longworth Upper	1740	2024-02-01	111	384	35	A	N/A	N/A	672	720	296	657	720	N/A	7
1A06A	HANSARD	608	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	112	148	326	N/A	19
1A10	PRINCE GEORGE A	689	2024-01-31	12	31	26		32%	1	112	120	0	106	224	96	62
1A11	PACIFIC LAKE	755	NS	NS	NS	NS	NS	N/A	N/A	N	480	179	425	679	435	55
1A14P	Hedrick Lake	1100	2024-02-01	127	295	23		54%	1	396	650	282	537	934	546	24
1A15P	Knudsen Lake	1601	2024-02-01	80	349	44		N/A	N/A	521	692	298	432	704	N/A	7
1A17P	Revolution Creek	1690	2024-02-01		317	379		55%	4	422	772	296	593	1043	579	35
1A19P	Dome Mountain	1774	2024-02-01	113	383	34		75%	19	305	537	305	487	853	514	17
			Average	79	261	70		59%	7							

Record Low

Basin Index Calculation	Average SWE	231
	Average Normal	382
Upper Fraser East Basin Index - February 1, 2024		61%

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

UPPER FRASER WEST			February 1, 2024 Data				Feb 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	2022	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	2024-02-01	66.1	182	28		N/A	N/A	187		164	228	334	N/A	7
1A16	BURNS LAKE	800	2024-02-04	26	58	22		52%	5	98	104	44	104	232	112	53
1A23	BIRD CREEK	1180	2024-02-02	47	98	21		86%	32	128	150	56	112	220	114	31
			Average	46	113	24		69%	19							

Basin Index Calculation	Average SWE	78
	Average Normal	113
Upper Fraser West Basin Index - February 1, 2024		69%

Stations used in Basin Index:
1A16, 1A23

NECHAKO			February 1, 2024 Data				Feb 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	2022	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	2024-02-02	93	233	25		62%	7	334	425	188	364	606	373	39
1B01P	Mount Wells	1490	2024-02-01		280			68%	10	386	467	216	395	658	410	30
1B02	TAHTSA LAKE	1300	2024-02-03	182	685	38		80%	28	649	740	508	798	1442	854	68
1B02P	Tahtsa Lake	1300	2024-02-01		735			83%	26	666	785	621	874	1533	886	27
1B05	SKINS LAKE	890	2024-02-03	28	53	19		61%	9	73	86	35	84	224	87	55
1B06	MOUNT SWANNELL	1620	2024-02-03	45	108	24		49%	2	231	209	88	213	382	222	34
1B07	NUTLI LAKE	1490	2024-02-03	83	243	29		64%	8	383	410	218	376	729	378	31
1B08P	Mt. Pondosy	1400	2024-02-01		431			76%	17	465	537	273	537	872	570	28
			Average	N/A	346	N/A		68%	13							

Basin Index Calculation	Average SWE	346
	Average Normal	472
Nechako Basin Index - February 1, 2024		73%

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

LOWER THOMPSON			February 1, 2024 Data					Feb 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
1C01	BROOKMERE	994	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	41	173	297	N/A	45
1C06	PAVILION	1230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	53	130	N/A	31
1C09A	HIGHLAND VALLEY	1510	NS	NS	NS	NS	NS	N/A	N/A	143	76	20	81	188	N/A	27
1C25	LAC LE JEUNE (UPPER)	1509	2024-02-01	25	71	28		68%	20	147	A	13	92	177	104	49
1C29	SHOVELNOSE MOUNTAIN	1450	2024-01-29	44	125	28		73%	24	169	146	48	165	307	171	42
1C29P	Shovelnose Mountain	1460	2024-02-01	34	98	29		N/A	N/A	167	148	143	165	194	N/A	5
1C32P	Deadman River	1460	2024-02-01	15	64	43		N/A	N/A	153		153		153	N/A	1
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C44P	Paradise Lake	1640	2024-02-01	35	100	29		N/A	N/A						N/A	0
1C45P	July Mountain	1860	2024-02-01	81	115	14		N/A	N/A						N/A	0
			Average		39	96	29		71%	22						

Basin Index Calculation	Average SWE	98
	Average Normal	137
Lower Thompson Basin Index - February 1, 2024		71%

Stations used in Basin Index:
1C25, 1C29

BRIDGE / LILLOOET			February 1, 2024 Data					Feb 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
1C05P	McGillivray Pass	1718	2024-02-01		167			N/A	N/A	243	460	243	393	484	N/A	6
1C12P	Green Mountain	1780	2024-02-01		362			60%	7	354	667	238	618	985	606	30
1C14P	Bralorne	1382	2024-02-01	26	92	35		N/A	N/A	97	180	97	177	222	N/A	6
1C18P	Mission Ridge	1850	2024-02-01		205			52%	1	281	564	185	405	794	391	47
1C28	DUFFEY LAKE	1200	2024-02-02	52	195	38		N/A	N/A	244	NS	244		371	N/A	2
1C38	DOWNTON LAKE UPPPER	1884	NS	NS	NS	NS	NS	N/A	N/A	360	754	208	623	980	618	24
1C38P	Downton Lake Upper	1829	2024-02-01		469			N/A	N/A	403	803	403	580	803	N/A	8
1C39	BRIDGE GLACIER (LOWER)	1390	2024-02-03	88	288	33		68%	11	292	396	112	416	688	426	27
1C40P	North Tyaughton	1969	2024-02-01		152			N/A	N/A	211	369	187	248	369	N/A	8
1C43P	Bridge Glacier Proglacial Lake	1505	2024-02-01	140	469	34		N/A	N/A	496		496		496	N/A	1
			Average		77	267	35		60%	7						

Basin Index Calculation	Average SWE	285
	Average Normal	474
Bridge/Lillooet Basin Index - February 1, 2024		60%

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

CHILCOTIN			February 1, 2024 Data					Feb 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
1C21	BIG CREEK	1140	2024-01-28	16	28	18		62%	15	37	74	0	41	100	45	50
1C22	PUNTZI MOUNTAIN	940	2024-01-31	17	40	24		73%	27	61	96	0	56	126	54	53
			Average		17	34	21		68%	21						

Basin Index Calculation	Average SWE	34
	Average Normal	50
Chilcotin Basin Index - February 1, 2024		68%

Stations used in Basin Index:
1C21, 1C22

QUESNEL			February 1, 2024 Data					Feb 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
1C17	MOUNT TIMOTHY	1660	2024-02-02	30	63	21		27%	0	258	254	92	224	384	233	55

Record Low

1C17P	Mount Timothy	1630	2024-02-01	44					N/A	N/A					N/A	0	
1C20P	Boss Mountain Mine	1460	2024-02-01	93	258	28			64%	3	325	436	143	397	611	405	30
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	NS		N/A	N/A	NS	NS	663	663	663	N/A	2
1C23P	Penfold Creek	1740	2024-02-01	112	454	41			N/A	N/A	566		566		566		1
1C33A	GRANITE MOUNTAIN	1150	2024-01-29	24	84	35			60%	2	208	N	79	142	208	140	17
1C41P	Yanks Peak East	1670	2024-02-01	104	343	33			59%	1	447	641	304	559	803	580	27
			Average	68	240	31			53%	2							

Basin Index Calculation	Average SWE	187
	Average Normal	339
Quesnel Basin Index - February 1, 2024		55%

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

MIDDLE FRASER

Basin Index Calculation	Average SWE	170
	Average Normal	287
Middle River Basin Index - February 1, 2024		59%

Stations used in Basin Index:
1C12P, 1C17, 1C18P, 1C20P, 1C21, 1C22, 1C25, 1C29, 1C33A, 1C39, 1C41P

LOWER FRASER			February 1, 2024 Data					Feb 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	2022	Minimum	Median	Maximum	1991-2020		
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record	
1D06P	Tenquille Lake	1680	2024-02-01	131	460	35		66%	9	529	919	344	724	1092	695	22	
1D08	STAVE LAKE	1250	NS	NS	NS	NS	NS	N/A	N/A	559	909	163	908	1448	824	50	
1D08P	Lamont Creek Upper	1217	2024-02-01	72	245	34		N/A	N/A	543	1010	543	1010	1228	N/A	3	
1D09P	Wahleach Lake Upper	1480	2024-02-01		319			53%	4	411	513	246	579	1061	602	30	
1D10	NAHATLATCH RIVER	1550	N	N	N	N	N	N/A	N/A	498	886	262	899	1359	846	43	
1D16	DICKSON LAKE	1160	2024-02-04	67	282	42		34%	5	690	658	122	814	1538	840	28	
1D16P	Dickson Lake	1155	2024-02-01	89	469	53		N/A	N/A							N/A	0
1D17P	Chilliwack River	1600	2024-02-01	84	535	64		54%	3	859	1029	371	1000	1586	998	30	
1D18	Disappointment Lake	1050	2024-02-05	70	320	46		35%	6		1115	164	984	1580	903	20	
1D19P	Spuzzum Creek	1180	2024-02-01	94	463	49		47%	7	579	829	308	938	1902	982	25	
			Average	87	387	46		48%	6								

Basin Index Calculation	Average SWE	397
	Average Normal	836
Lower Fraser Basin Index - February 1, 2024		47%

Stations used in Basin Index:
1D06P, 1D09P, 1D16P, 1D17P, 1D18, 1D19P

NORTH THOMPSON			February 1, 2024 Data					Feb 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	2022	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1E01B	BLUE RIVER	670	2024-01-31	54	170	31		69%	8	175	266	98	233	380	245	39
1E02P	Mount Cook	1550	2024-02-01	165	704	43		78%	11	653	980	642	884	1432	902	19
1E03A	TROPHY MOUNTAIN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					0
1E03AP	TROPHY MOUNTAIN	1880	2024-02-01	92	306	33		N/A	N/A							0
1E07	ADAMS RIVER	1720	N	N	N	N	N	N/A	N/A	278	554	278	467	654	479	42
1E08P	Azure River	1652	2024-02-01	134	525	39		66%	0	581	960	525	802	1043	793	26
1E10P	Kostal Lake	1770	2024-02-01					N/A	N/A	421	631	417	605	790	603	37
1E14P	Cook Creek	1280	2024-02-01	73	308	42		77%	12	298	564	248	394	589	399	14
			Average	104	403	38		73%	8							

Basin Index Calculation	Average SWE	427
	Average Normal	585
North Thompson Basin Index - February 1, 2024		73%

Stations used in Basin Index:
1E01B, 1E02P, 1E07, 1E08P, 1E14P

Record Low

SOUTH THOMPSON			February 1, 2024 Data				Feb 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	2022	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1F01A	ABERDEEN LAKE	1310	2024-02-02	36	97	27		81%	29	140	107	48	118	193	119	66
1F02	ANGLEMONT	1190	2024-02-02	62	212	34		77%	16	228	277	130	263	483	276	64
1F03P	Park Mountain	1890	2024-02-01	133		32		N/A	N/A	538	556	334	581	870	591	39
1F04P	Enderby	1950	2024-02-01	186	652	35		N/A	N/A	716	724	607	720	914	N/A	6
1F06P	Celista Mountain	1500	2024-02-01	160	505	32		83%	14	466	691	421	642	736	607	18
			Average	115	367	32		80%	20							

Basin Index Calculation	Average SWE	271
	Average Normal	334
South Thompson Basin Index - February 1, 2024		81%

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

FRASER RIVER

Basin Index Calculation	Average SWE	276
	Average Normal	444
Fraser River Basin Index - February 1, 2024		62%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A10, 1A14P, 1A16, 1A17P, 1A19P, 1A23, 1B01, 1B01P, 1B02, 1B02P, 1C12P, 1C17, 1C33A, 1C39, 1C41P, 1D06P, 1D09P, 1D16P, 1D17P, 1D18, 1D19P, 1E01B, 1E02P, 1E07, 1E08P, 1E14P, 1F01A, 1F02, 1F06P

UPPER COLUMBIA			February 1, 2024 Data				Feb 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	2022	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2A02	GLACIER	1250	2024-01-31	98	312	32		65%	7	341	656	241	468	828	480	82
2A03A	FIELD	1285	2024-01-30	35	102	29		83%	27	86	188	46	122	233	123	84
2A06P	Mount Revelstoke	1850	2024-02-01		542			67%	4	620	962	464	814	1196	808	30
2A07	KICKING HORSE	1650	2024-01-29	68	182	27		82%	17	126	333	102	246	384	221	77
2A11	BEAVERFOOT	1890	2024-02-05	50	120	24		82%	22	92	210	78	145	249	146	53
2A14	MOUNT ABBOT	2010	N	N	N	N	N	N/A	N/A	599	1212	396	823	1212	837	65
2A16	GOLDSTREAM	1920	N	N	N	N	N	N/A	N/A	520	1057	460	777	1136	813	54
2A17	FIDELITY MOUNTAIN	1870	2024-01-26	164	392	24		46%	0	474	1200	430	851	1376	861	60
2A18P	Keystone Creek	1840	2024-02-01		403			N/A	N/A	412	684	412	648	696	N/A	8
2A19	VERMONT CREEK	1520	2024-02-05	76	210	28		73%	13	237	398	102	309	574	288	52
2A21P	Molson Creek	1935	2024-02-01	133	407	31		54%	0	530	888	417	832	1067	760	42
2A25	KIRBYVILLE LAKE	1750	N	N	N	N	N	N/A	N/A	708	945	381	843	1160	836	47
2A27	DOWNIE SLIDE (LOWER)	980	2024-02-05	97	314	32		64%	7	338	584	256	480	740	494	41
2A29	DOWNIE SLIDE (UPPER)	1630	2024-02-05	160	570	36		58%	3	652	N	466	910	1422	990	39
2A30P	Colpitti Creek	2131	2024-02-01	135	383	28		N/A	21	340	785	243	524	785	N/A	14
2A31P	Caribou Creek Upper	2201	2024-02-01		399			N/A	N/A	405	858	405	654	858	N/A	8
2A32P	Wildcat Creek	2122	2024-02-01		275			N/A	N/A	260	618	260	457	618	N/A	8
2A34P	Glacier NP Rogers Pass Lower	1182	2024-02-01	79	262	33		N/A	N/A	285	659	285		659	N/A	2
2A35P	Fred Laing Lower	577	2024-02-01	56	217	39		N/A	N/A	295		295		295	N/A	1
			Average	96	318			67%	11							

Basin Index Calculation	Average SWE	315
	Average Normal	517
Upper Columbia Basin Index - February 1, 2024		61%

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

WEST KOOTENAY			February 1, 2024 Data				Feb 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	2022	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2B02A	FARRON	1220	2024-01-31	70	193	28		89%	29	222	223	63	218	346	216	50

2B05	WHATSHAN (UPPER)	1525	N	N	N	N	N	N/A	N/A	354	394	242	445	759	479	45
2B06P	Barnes Creek	1620	2024-02-01		248			68%	5	333	367	149	356	566	367	31
2B07	KOCH CREEK	1860	N	N	N	N	N	N/A	N/A	562	441	203	513	708	519	43
2B08P	St. Leon Creek	1800	2024-02-01		510			70%	6	481	998	322	731	1170	725	29
2B09	RECORD MOUNTAIN	1890	N	N	N	N	N	N/A	N/A	512	384	117	463	802	485	48
2D02	FERGUSON	880	2024-01-31	78	270	35		65%	5	330	556	237	411	616	417	51
2D03	SANDON	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	264		328	N/A	2
2D04	NELSON	930	2024-01-30	42	99	24		40%	1	211	300	79	259	508	250	85
2D05	GRAY CREEK (LOWER)	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	N	127	312	511	313	69
2D06	CHAR CREEK	1310	2024-02-02	79	237	30		65%	8	298	388	117	363	650	364	58
2D07A	DUNCAN LAKE NO. 2	630	2024-02-01	13	40	31		31%	0	102	190	60	110	283	128	32
2D07AP	Duncan Lake Dam 2	559	2024-02-01	0	0			N/A	N/A	83	192	19	165	192	N/A	4
2D08P	East Creek	2030	2024-02-01		433			71%	11	438	937	281	611	1012	614	43
2D09	MOUNT TEMPLEMAN	1860	N	N	N	N	N	N/A	N/A	512	885	409	705	1115	718	44
2D10	GRAY CREEK (UPPER)	1940	NS	NS	NS	NS	NS	N/A	N/A	NS	N	268	509	792	498	46
2D10P	GRAY CREEK (UPPER)	1930	2024-02-01	92	341	37		N/A	N/A	462	548	462	510	548	N/A	3
2D14P	Redfish Creek	2104	2024-02-01	158	624	39		72%	4	814	1075	529	865	1149	864	22
2D17	Lost Ledge	2050	2024-02-05	136	428	31		N/A	N/A	430	822	430		822	N/A	2
2D18	Purcell	2060	2024-01-28	149	394	26		N/A	N/A	442	760	442		760	N/A	2
Average				82	294	31		63%	8							

Record Low

Basin Index Calculation	Average SWE	295
	Average Normal	438
West Kootenay Basin Index - February 1, 2024		67%

Stations used in Basin Index:
2B02A, 2B06P, 2B08P, 2D02, 2D04, 2D06, 2D07A, 2D08P, 2D14P

EAST KOOTENAY			February 1, 2024 Data					Feb 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	2022	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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	33	102	208	N/A	44
2C04	SULLIVAN MINE	1550	2024-02-02	57	168	29		89%	25	214	N	46	213	397	188	77
2C09Q	Morrissey Ridge	1860	2024-02-01		254			57%	3	318	376	180	440	886	446	40
2C10P	Moyie Mountain	1930	2024-02-01		138			48%	2	255	236	104	270	521	289	44
2C11	KIMBERLY UPPER	2140	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	114	320	571	N/A	23
2C12	KIMBERLY MIDDLE	1680	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	81	190	356	N/A	23
2C14P	Floe Lake	2090	2024-02-01	100	320	32		67%	8	311	691	225	458	750	478	29
2C15	MOUNT ASSINIBOINE	2230	2024-02-05	94	231	25		66%	6	271	508	140	351	592	352	47
2C17	THUNDER CREEK	2010	N	N	N	N	N	N/A	N/A	244	232	69	179	335	174	47
Average				84	222	29		65%	9							

Basin Index Calculation	Average SWE	222
	Average Normal	351
East Kootenay Basin Index - February 1, 2024		63%

2C04, 2C9Q, 2C10P, 2C14P, 2C15

BOUNDARY			February 1, 2024 Data					Feb 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	2022	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	NS	NS	NS	NS	NS	N/A	N/A	220	207	103	235	364	236	62
2E02	CARMI	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	51	112	196	N/A	28
2E03	BIG WHITE MOUNTAIN	1680	N	N	N	N	N	N/A	N/A	354	246	178	324	483	329	55
2E07P	Grano Creek	1860	2024-02-01	75	235	31		75%	9	441	321	157	314	476	313	25
Average				75	235	31		75%	9							

Basin Index Calculation	Average SWE	235
	Average Normal	313
Boundary Basin Index - February 1, 2024		75%

Stations used in Basin Index:
2E07P

OKANAGAN			February 1, 2024 Data				Feb 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2023	2022	Minimum	Median	Maximum	1991-2020		
			Depth (cm)	SWE (mm)	Density %				SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record		
2F01A	TROUT CREEK (West)	1430	N	N	N	N	N	N/A	N/A	228	156	84	158	228	155	14
2F01AP	Trout Creek West	1420	2024-02-01	39	140	36		N/A	N/A	217	214	114	185	217	N/A	6
2F02	SUMMERLAND RESERVOIR	1280	2024-01-31	58	158	27		97%	43	246	128	65	170	307	163	59
2F03	MCCULLOCH	1280	2024-02-01	37	104	28		82%	31	152	162	57	123	196	126	87
2F04	GRAYSTOKE LAKE	1840	2024-01-29	71	196	28		86%	24	254	206	128	234	330	229	24
2F05P	Mission Creek	1780	2024-02-01	82	245	30		74%	17	320	261	167	311	525	331	53
2F07	POSTILL LAKE	1370	2024-02-01	46	119	26		82%	30	138	120	73	142	243	145	73
2F08	GREYBACK RESERVOIR	1550	NS	NS	NS	NS	NS	N/A	N/A	N	N	60	163	269	172	48
2F08P	Greyback Reservoir	1550	2024-02-01	59	148	25		N/A	N/A	187	166	111	166	222	N/A	7
2F09	WHITEROCKS MOUNTAIN	1830	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	135	364	693	379	47
2F09P	Whiterocks Mountain	1800	2024-02-01	94	319	34		N/A	N/A	527		527		527	N/A	1
2F10	Silver Star Mountain	1840	N	N	N	N	N	N/A	N/A	N	434	229	482	721	513	58
2F10P	Silver Star Mountain	1839	2024-02-01	131	416	32		N/A	N/A	590	513	359	522	692	N/A	8
2F11	ISINTOK LAKE	1680	2024-01-29	52	130	25		113%	65	126	92	26	109	307	115	58
2F12	MOUNT KOBAU	1810	2024-01-28	62	151	24		75%	25	365	210	43	210	400	201	57
2F13	ESPERON CR (UPPER)	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	156	229	457	N/A	4
2F14	ESPERON CR (MIDDLE)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	146	218	399	N/A	11
2F18P	Brenda Mine	1460	2024-02-01	59	176	30		74%	17	263	206	152	230	368	238	27
2F19	OYAMA LAKE	1340	2024-01-30	51	116	23		98%	53	95	52	31	114	193	119	55
2F19P	OYAMA LAKE	1360	2024-02-01	32	106	33		N/A	N/A	141	123	123	141	196	N/A	3
2F20	VASEUX CREEK	1400	2024-01-26	39	88	23		96%	46	120	92	44	91	208	91	36
2F23	MACDONALD LAKE	1740	2024-02-01	97	268	28		N/A	32	414	285	132	289	414	N/A	23
2F24	ISLAHT LAKE	1480	2024-01-30	86	217	25		97%	53	268	199	119	216	364	223	41
			Average	64	182	28		89%	36							

Basin Index Calculation	Average SWE	155
	Average Normal	180
Okanagan Basin Index - February 1, 2024		86%

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

SIMILKAMEEN			February 1, 2024 Data				Feb 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2023	2022	Minimum	Median	Maximum	1991-2020		
			Depth (cm)	SWE (mm)	Density %				SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record		
2G03P	Blackwall Peak	1940	2024-02-01	74	238	32		42%	2	358	558	159	550	1076	564	56
2G04	LOST HORSE MOUNTAIN	1920	2024-01-27	54	131	24		85%	34	171	190	70	150	335	154	61
2G05	MISSEZULA MOUNTAIN	1550	2024-01-27	55	120	22		86%	32	143	84	60	139	284	140	57
2G06	HAMILTON HILL	1490	2024-01-28	54	142	26		70%	15	149	180	91	198	411	203	60
			Average	59	158	26		71%	21							

Basin Index Calculation	Average SWE	158
	Average Normal	265
Similkameen Basin Index - February 1, 2024		60%

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

SOUTH COAST			February 1, 2024 Data				Feb 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2023	2022	Minimum	Median	Maximum	1991-2020		
			Depth (cm)	SWE (mm)	Density %				SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record		
3A01	GROUSE MOUNTAIN	1100	2024-01-31	53	244	46		30%	4	658	805	50	796	1530	802	74
3A02	POWELL RIVER (UPPER)	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3A05	POWELL RIVER (LOWER)	910	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	437		620	N/A	2
3A09	PALISADE LAKE	880	2024-02-05	32	150	47		N/A	N/A		927	318	739	927	N/A	4
3A09P	Palisade Lake	900	2024-02-01	2	18	86		N/A	N/A	568	829	534	622	1027	N/A	5

3A10	DOG MOUNTAIN	1080	2024-01-31	47	207	44	28%	3	589	735	77	741	1243	727	40
3A19	ORCHID LAKE	1190	2024-02-05	110	470	43	44%	7	1145	273	1120	1855	1060	43	
3A20	CALLAGHAN CREEK	1040	NS	NS	NS	NS	N/A	N/A	320	598	50	570	1040	548	39
3A20P	Callaghan	1017	2024-02-01		286		N/A	N/A	343	576	343	634	759	N/A	5
3A22P	Nostetuko River	1500	2024-02-01	54	174	32	45%	8	255		30	386	782	390	32
3A24P	Mosley Creek Upper	1650	2024-02-01	38	165	43	70%	13	173	280	98	219	509	235	34
3A25P	Squamish River Upper	1340	2024-02-01	126	467	37	44%	0	750	1011	503	1082	1555	1064	33
3A26	CHAPMAN CREEK	1022	2024-01-30	101	382	38	43%	0	653	870	540	856	1306	880	14
3A27	EDWARDS LAKE	1070	2024-01-30	43	195	45	N/A	0	204	660	204	619	944	N/A	12
3A28P	Tetrahedron	1420	2024-02-01	159	725	46	N/A	N/A	730	1056	730	995	1122	N/A	5
			Average	70	290	46	44%	4							

Record Low
Record Low
Record Low

Basin Index Calculation	Average SWE	301
	Average Normal	737
South Coast Basin Index - February 1, 2024		41%

Stations used in Basin Index:
3A01, 3A10, 3A19, 3A22P, 3A24P, 3A25P, 3A26

VANCOUVER ISLAND			February 1, 2024 Data				Feb 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	2022	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	2024-02-03	81	348	43		37%	7	776	966	42	988	1640	931	68
3B02A	MOUNT COKELY	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	234	552	1050	N/A	6
3B04	ELK RIVER	270	2024-02-03	0	0	N/A		0%	0	0	233	0	77	544	70	64
3B10	UPPER THELWOOD LAKE	990	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	28	843	1534	N/A	19
3B17P	Wolf River Upper	1490	2024-02-01		458			55%	10	619	782	171	848	1383	840	36
3B18	WOLF RIVER (MIDDLE)	990	N	N	N	N	N	N/A	N/A	320	260	0	370	742	378	51
3B19	WOLF RIVER (LOWER)	640	2024-02-03	0	0	N/A		0%	0	146	242	0	245	572	246	50
3B23P	Jump Creek	1160	2024-02-01	0	0	N/A	E	0%	0	486	702	0	678	1367	643	26
3B24P	Heather Mountain Upper	1190	2024-02-01	38	233	61		N/A	N/A	525	799	525	829	1282	N/A	8
3B26P	Mount Arrowsmith	1465	2024-02-01	60	246	41		N/A	N/A	373	728	373	709	886	N/A	6
			Average	30	184	48		18%	3							

Basin Index Calculation	Average SWE	161
	Average Normal	546
Vancouver Island Basin Index - February 1, 2024		30%

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

CENTRAL COAST			February 1, 2024 Data				Feb 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	2022	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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	105	340	497	N/A	13
3C08P	Burnt Bridge Creek	1330	2024-02-01	114	405	36		69%	9	519	756	240	536	1119	590	25
			Average	114	405	36		69%	9							

Basin Index Calculation	Average SWE	405
	Average Normal	590
Central Coast Basin Index - February 1, 2024		69%

Stations used in Basin Index:
3C08P

SKAGIT			February 1, 2024 Data				Feb 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	2022	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	2024-02-04	0	0	N/A	T	0%	0	95	191	0	150	368	157	29
3D02	LIGHTNING LAKE	1220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	67	189	242	N/A	4
3D03A	KLESILKWA	1175	2024-02-04	0	0	N/A	T	0%	0	65	207	0	193	508	160	65
			Average	0	0	N/A		0%	0							

Basin Index Calculation	Average SWE	0
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Stations used in Basin Index:

Average Normal	159
Skagit Basin Index - February 1, 2024	0%

3D01C, 3D03A

PEACE			February 1, 2024 Data					Feb 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	2022	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	2024-02-01	168.2	572	34		74%	11	646	806	469	806	1257	772	31
4A03P	Ware Upper	1565	2024-02-01	54	106	20		N/A	N/A	145	152	130	152	182	N/A	7
4A04P	Ware Lower	971	2024-02-01	51.1	129	25		N/A	N/A	145	145	89	145	168	N/A	6
4A05	GERMANSEN (UPPER)	1480	2024-01-30	67	162	24	A	67%	7	178	223	140	222	371	242	54
4A07	LADY LAURIER LAKE	1440	2024-01-29	112	292	26		79%	22	N	412	224	342	679	369	51
4A09P	Pulpit Lake	1311	2024-02-01	114.3	277	24		89%	29	226	319	182	320	463	310	33
4A10	FREDRICKSON LAKE	1325	2024-01-30	72	152	21		86%	41	143	156	105	161	309	176	55
4A10P	Fredrickson Lake	1326	2024-02-01	75	193	26		N/A	N/A						N/A	0
4A11	TRYGVE LAKE	1410	2024-02-01	102	247	24		96%	61	187	263	160	236	434	258	52
4A12	TSAYDAYCHI LAKE	1190	NS	NS	NS	NS	NS	N/A	N/A	266	N	146	266	507	292	53
4A12P	Tsaydaychi Lake	1195	2024-02-01	84	218	26		N/A	N/A	250	257	250	257	371	N/A	3
4A13	PHILIP LAKE	1035	NS	NS	NS	NS	NS	N/A	N/A	171	203	118	191	355	210	56
4A13P	Philip Lake	1028	2024-02-01	47	151	32		N/A	N/A	172	199	172	215	250	N/A	4
4A16	MORFEE MOUNTAIN	1430	2024-01-29	124	381	31		64%	10	411	510	323	579	952	592	55
4A18	MOUNT SHEBA	1490	NS	NS	NS	NS	NS	N/A	N/A	N	634	299	569	932	602	53
4A18P	MOUNT SHEBA	1484	2024-02-01	127	419	33		N/A	N/A		683	683	728	814	N/A	4
4A20P	Monkman Creek	1570	2024-02-01		219			N/A	N/A	223	397	223	303	397	N/A	5
4A21	MOUNT STEARNS	1505	N	N	N	N	N	N/A	N/A	107	137	40	98	196	100	49
4A25	FORT ST. JOHN A	690	2024-02-01	14	42	30		51%	6	80	84	22	71	154	83	49
4A27P	Kwadacha North	1554	2024-02-01	88	197	22		87%	22	197	243	137	221	371	227	33
4A30P	Aiken Lake	1050	2024-02-01	71	192	27		102%	67	167	189	100	184	330	188	36
4A31P	Crying Girl Prairie	1358	2024-02-01	35	99	28		N/A	N/A	194	153	100	169	194	N/A	8
4A33P	Muskwa-Kechika	1196	2024-02-01	34	59	17		N/A	N/A	125	110	23	88	125	N/A	8
4A34P	Dowling Creek	1456	2024-02-01		126			N/A	N/A	1023	1080	114	1023	1096	N/A	7
4A36P	Parsnip Upper	790	2024-02-01	45	100	22		N/A	N/A	146	248	146	266	305	N/A	5
4A37P	McQue Terrace	1200	2024-02-01	32	83	26		N/A	N/A	111	97	57	99	111	N/A	4
4A38P	Horn Creek	1450	2024-02-01	78	238	31		N/A	N/A	235		235		235	N/A	1
4A39P	Chowade Upper	1480	2024-02-01	32	66.2	21		N/A	N/A						N/A	0
			Average	74	197	26		80%	28							

Basin Index Calculation	Average SWE	251
	Average Normal	322
Peace Basin Index - February 1, 2024		78%

Stations used in Basin Index:
4A02P, 4A05, 4A07, 4A09P, 4A10, 4A11, 4A16, 4A25, 4A27P, 4A30P

SKEENA-NASS			February 1, 2024 Data					Feb 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	2022	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	2024-02-03	138	459	33		68%	6	551	670	403	595	1220	678	63
4B02	JOHANSON LAKE	1420	2024-01-30	77	173	22		83%	21	185	215	115	191	355	209	53
4B02P	Johanson Lake	1467	2024-02-01	81	220	27		N/A	N/A	203		203		203	N/A	1
4B03A	HUDSON BAY MTN.	1480	2024-02-01	93	228	25		62%	2	322	392	210	341	665	367	52
4B04	CHAPMAN LAKE	1460	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B06	TACHEK CREEK	1140	N	N	N	N	N	N/A	N/A	N	N	99	156	298	159	20
4B07	MCKENDRICK CREEK	1050	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	264		264	N/A	1
4B08	MOUNT CRONIN	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B11A	BEAR PASS	460	2024-02-01	86	300	35		71%	16	430	N	192	417	821	422	33
4B13A	TERRACE AIRPORT	180	2024-02-02	0	0			0%	0	57	157	0	121	330	124	43
4B14	EQUITY MINE	1420	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	174	246	444	N/A	13
4B15	LU LAKE	1300	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	134	200	352	N/A	12

4B15P	Lu Lake	1300	2024-02-01	47	126	27	61%	8	222	206	94	210	353	206	26
4B16P	Shedin Creek	1480	2024-02-01	138	443	32	80%	17	455	580	262	564	877	555	27
4B17P	Tsai Creek	1360	2024-02-01	138	592	43	75%	9	586	781	423	755	1482	790	26
4B18P	Cedar-Kiteen	885	2024-02-01	65	298	46	67%	20	462	632	233	401	847	446	21
			Average	86	284	32	63%	11							

Basin Index Calculation	Average SWE	291
	Average Normal	422
Skeena-Nass Basin Index - February 1, 2024		69%

Stations used in Basin Index:
4B01, 4B02, 4B03A, 4B11A, 4B13A, 4B15P, 4B16P, 4B17P, 4B18P

LIARD			February 1, 2024 Data				Feb 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
4C01P	Sikanni Lake	1387	2024-02-01	67	139	21		N/A	N/A	165	189	94	189	237	N/A	7
4C02	SUMMIT LAKE	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	36	74	146	N/A	21
4C05	FORT NELSON AIRPORT	380	2024-02-01	22	44	20		67%	1	45	120	35	76	128	66	56
4C20P	Sierra Climate	572	2024-02-01		50			N/A	N/A	65		35	65	117	N/A	5
4C21P	Two Island Climate	708	2024-02-01		62			N/A	N/A	44		43	70	153	N/A	5
			Average	45	74	20		N/A	N/A							

Basin Index Calculation	Average SWE	44
	Average Normal	66
Liard Basin Index - February 1, 2024		67%

Stations used in Basin Index:
4C05

STIKINE			February 1, 2024 Data				Feb 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
4D10P	Tumeka Creek	1220	2024-02-01		367			90%	37	273	361	212	400	744	408	26
4D11P	Kinaskan Lake	1020	2024-02-01	82				N/A	N/A	190	281	113	253	516	273	26
4D16P	Forrest Kerr Mid Elevation Snow	1192	2024-02-01		740			N/A	N/A	577	828	424	529	829	N/A	8
4D17P	Forrest Kerr High Elevation Snow	1622	2024-02-01		1094			N/A	N/A	802	1290	502	763	1290	N/A	8
			Average	82	734	N/A		90%	37							

Basin Index Calculation	Average SWE	367
	Average Normal	408
Stikine Basin Index - February 1, 2024		90%

Stations used in Basin Index:
4D10P

NORTHWEST			February 1, 2024 Data				Feb 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
4E01	LOG CABIN	900	NS	NS	NS	NS	NS	N/A	N/A	NS	277	277		277	N/A	1
4E01P	Log Cabin	890	2024-02-01	124	368	30		N/A	N/A						N/A	0
4E02B	ATLIN LAKE	730	NS	NS	NS	NS	NS	N/A	N/A	NS	104	50		104	N/A	2
			Average	124	368	30		N/A	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Northwest Basin Index - February 1, 2024		N/A

Stations used in Basin Index:
N/A

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	253
	Average Normal	416
British Columbia Basin Index - February 1, 2024		61%

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