

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

The January 1st snow survey is now complete. Data from 49 manual snow courses and 103 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 January 1st, the provincial snow pack is extremely low, averaging 56% of normal (44% below normal) across British Columbia. Last year, the provincial average was 82% for Jan 1.
- Temperatures were well above normal from Oct. 1 to Dec. 31 and precipitation was well below normal for most of the province.
- Fifteen snow stations measured all-time record low snow pack with five occurring in the Lower Fraser and four within the Upper Columbia snow basins.
- Due to the extremely low snow conditions, below normal hazard for spring freshet related flooding is emerging, especially in the Interior.
- The low snow pack could significantly affect ongoing drought concerns into summer 2024.
- There are still three or more months left in the snow accumulation season and the snow pack can still change significantly based on upcoming weather patterns.

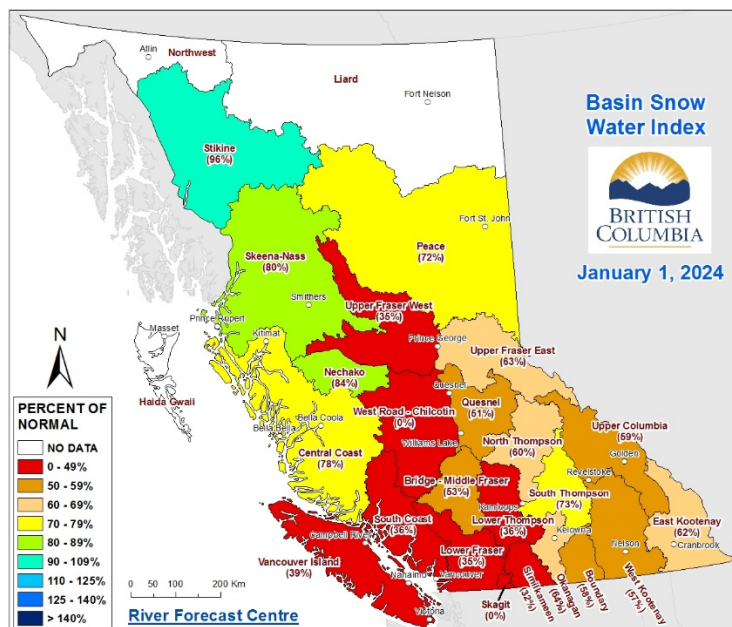


Figure 1. January 1st, 2024 Basin Snow Water Index Map of British Columbia. Larger and colour-friendly versions available in full report.

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

Basin	% of Normal	Basin	% of Normal	Basin	% of Normal
Upper Fraser West	35	North Thompson	60	South Coast	36
Upper Fraser East	63	South Thompson	73	Vancouver Island	39
Nechako	84	Fraser River	53	Central Coast	78
Middle Fraser	50	Upper Columbia	59	Skagit	0
Lower Thompson*	36	West Kootenay	57	Peace	72
Bridge*	53	East Kootenay	62	Skeena-Nass	80
Chilcotin*	0	Boundary	58	Liard	N/A [#]
Quesnel*	51	Okanagan	64	Stikine	96
Lower Fraser	35	Similkameen	32	Northwest	N/A [#]
British Columbia 56% of Normal					

* Sub-basin of Middle Fraser # Insufficient data to calculate a Snow Basin Index

Next scheduled snow bulletin release: February 8, 2024



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

Weather

For the second year in a row, a significant drought extended into the fall for much of the province. October was drier and warmer than normal across British Columbia. November temperatures ended up near normal due to a significant cold period in the last week of the month, while precipitation was unusually dry throughout B.C.

In early December, a strong atmospheric river (AR) event affected the coast and spilled into the Interior. Another strong AR impacted Vancouver Island on Christmas Day and Boxing Day. Overall, December temperatures were extremely warm relative to normal, ranging from +1.5°C to +8.0°C above normal. Several locations measured the warmest December on record, including Victoria

Gonzales CS (monitoring began in 1874), Comox A (1914), Campbell River A (1958), Vancouver Int A (1896), Abbotsford (1944) and Williams Lake (1961). Some areas continued to experience lower-than-normal precipitation in December including the Northeast and localized areas through the central and southern interior.

The first few days of January remained dry, until an active pattern moved in beginning January 5th, bringing additional precipitation and snow to the province. The rate of mountain snow accumulation since January 1st has been typical. Beginning January 10th, an arctic outbreak is expected to impact the province with very cold temperatures forecast for the upcoming week.

Snowpack

Snow Basin Indices (SBI) for January 1st, 2024 ranged from a low of 0% of normal in the Chilcotin and Skagit to a high of 96% in the Stikine (Table 1, 2 and Figure 1, 4, 5). Overall, the provincial snow pack is extremely low for January 1st, with the average of all snow measurements at 56% of normal (44% below normal). There were only two basins above

80% of normal (Stikine: 96% and Nechako: 84%). Fifteen snow stations measured all-time lows for the period of record. They are listed further below.

Last year, the January 1st average of all snow stations in British Columbia was 82% of normal (Table 2). Snow basin indices are much lower

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

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

this year compared to 2023 due a very dry and warm start to the snow accumulation season. The Stikine is the only region where 2024 values are 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.

Table 2 - BC Snow Basin Indices – January 1, 2024 compared to January 1, 2023

Basin	January 1 st % of Normal (2023 value)	Percentage Point Change 2023 to '24	Basin	January 1 st % of Normal (2023 value)	Percentage Point Change 2023 to '24
Fraser River Region			Columbia Region		
Upper Fraser East	63 (73)	↓ -10	Upper Columbia	59 (77)	↓ -18
Upper Fraser West	35 (50)	↓ -15	West Kootenay	57 (93)	↓ -36
Nechako	84 (87)	↓ -3	East Kootenay	62 (95)	↓ -33
Middle Fraser	50 (76)	↓ -26	Boundary	58 (129)	↓ -71
Lower Thompson*	36 (200)	↓ -164	Okanagan	64 (135)	↓ -71
Bridge*	53 (69)	↓ -16	Similkameen	32 (72)	↓ -40
Chilcotin*	0 (N/A)	N/A ^b	Northern Region		
Quesnel*	51 (78)	↓ -27	Peace	72 (75)	↓ -3
Lower Fraser	35 (86)	↓ -51	Skeena-Nass	80 (95)	↓ -15
North Thompson	60 (66)	↓ -6	Liard	(N/A ^a)	N/A ^a
South Thompson	73 (84)	↓ -11	Stikine	96 (67)	↑ +29
Coastal Region			Northwest	N/A (N/A)	N/A ^a
South Coast	36 (70)	↓ -34	Additional		
Vancouver Island	39 (62)	↓ -23	Fraser River	53 (79)	↓ -26
Central Coast	78 (99)	↓ -21			
Skagit	0 (65)	↓ -65			
British Columbia 56 (82) ↓ -26					

^a No snow surveys scheduled for January 1st in 2023 or 2024.

^b No snow surveys scheduled for January 1st in 2023.

* Sub-region of the Middle Fraser

Fifteen snow stations measured all-time low measurements for January 1st, 2024:

- 1C18P Mission Ridge: 115 mm SWE (44% of normal) – 47 years (Bridge / Middle Fraser)
- 1C33A Granite Mountain: 260 mm SWE (33% of normal) – 27 years (Quesnel / Middle Fraser)
- 1D09P Wahleach Lake Upper: 148 mm SWE (38% of normal) – 30 years (Lower Fraser)
- 1D10 Nahatlatch River: 204 mm SWE (33% of normal) – 23 years (Lower Fraser)
- 1D16 Dickson Lake: 102 mm SWE (15% of normal) – 25 years (Lower Fraser)
- 1D17P Chilliwack River: 336 mm SWE (51% of normal) – 30 years (Lower Fraser)
- 1D19P Spuzzum Creek: 172 mm SWE (29% of normal) – 25 years (Lower Fraser)
- 1E01B Blue River: 32 mm SWE (21% of normal) – 35 years (North Thompson)
- 1E08P Azure River: 383 mm SWE (67% of normal) – 23 years (North Thompson)



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

- 2A16 Goldstream: 302 mm SWE (52% of normal) – 36 years (Upper Columbia)
- 2A21P Molson Creek: 273 mm SWE (48% of normal) – 43 years (Upper Columbia)
- 2A25 Kirbyville Lake: 346 mm SWE (57% of normal) – 35 years (Upper Columbia)
- 2A27 Downie Slide (Lower): 164 mm SWE (52% of normal) – 33 years (Upper Columbia)
- 2B05 Whatshan (Upper): 146 mm SWE (48% of normal) – 30 years (West Kootenay)
- 2D04 Nelson: 40 mm SWE (25% of normal) – 63 years (West Kootenay)

There were five new automated snow weather stations built by the Ministry of Environment and Climate Change Strategy's Snow Program and added to the network this year:

- 1C17P Mount Timothy (Quesnel / Middle Fraser)
- 1C44P Paradise Lake (Lower Thompson / Middle Fraser)
- 1C45P July Mountain (Lower Thompson / Middle Fraser)
- 1E03AP Trophy Mountain (North Thompson)
- 4E01P Log Cabin (Northwest)

Four automated snow weather stations were incorporated into the provincial network this year:

- 4C20P Sierra Climate (Liard) – began in 2012; Fort Nelson First Nation
- 4C21P Two Island Climate (Liard) – began in 2012; Fort Nelson First Nation
- 4D16P Forrest Kerr Mid Elevation Snow (Stikine) – began in 2015; Altagas
- 4D17P Forrest Kerr High Elevation Snow (Stikine) – began in 2015; Altagas

There were 13 manual snow surveys scheduled to be de-activated for the upcoming season. Reasons for deactivation can include classification as no longer required due to co-location beside a relatively new automated snow weather station, site in disrepair, site destroyed by fire, or discontinuation due to resource challenges. De-activated locations scheduled for 2024 are:

- 1A11 Pacific Lake (Upper Fraser East)
- 1C38 Downton Lake Upper (Bridge / Middle Fraser)
- 1D08 Stave Lake (Lower Fraser)
- 2D05 Gray Creek Lower (West Kootenay)
- 2D10 Gray Creek Upper (West Kootenay)
- 2F10 Silver Star Mountain (Okanagan)
- 3A20 Callaghan Creek (South Coast)
- 3C07 Wedeene River South (Central Coast)
- 4A05 Germansen Upper (Peace)
- 4A12 Tsaydaychi Lake (Peace)
- 4A13 Philip Lake (Peace)
- 4A18 Mount Sheba (Peace)
- 4B13A Terrace Airport (Skeena-Nass)

Percentiles offer a more accurate interpretation of variance, especially in regions when the percent of normal can be

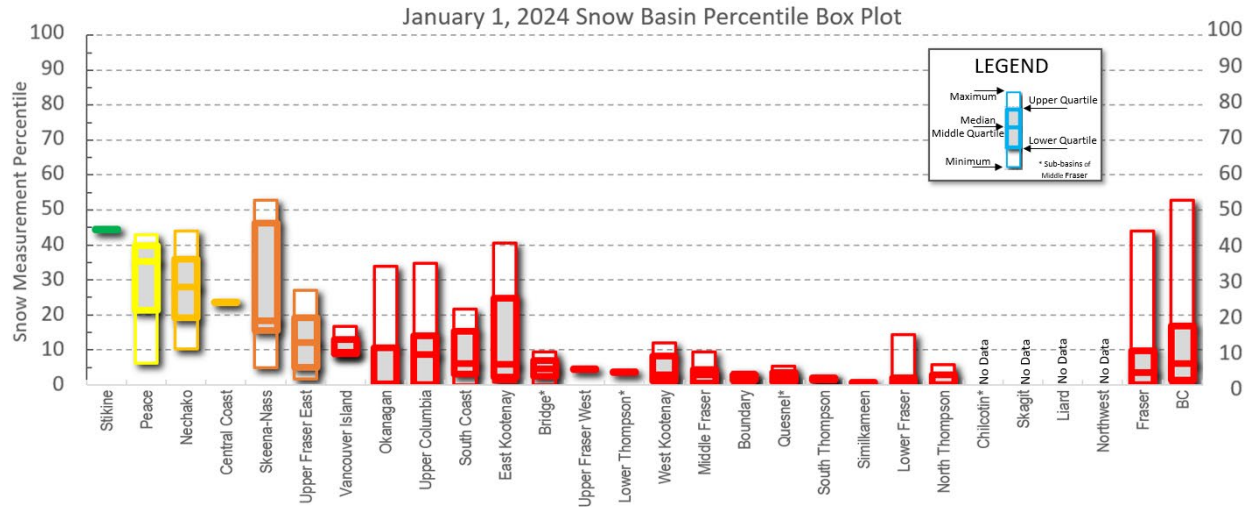
extremely high or low. The region with the highest average percentile is the Stikine (44th percentile); the region with the lowest is the

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

Similkameen (1st). 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 – January 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.

After a relatively dry start to the season, additional extended dry periods in the second half of November and December resulted in extremely low snow pack for January 1st. As of the start of 2024, nearly three quarters of the ASWS are below the 20th percentile and 90% are below the 40th percentile.

For comparison, Figure 4 displays the changes in percentile classes at ASWS last year (2022-2023). The snow pack was healthier last winter compared to this season and record-breaking warm temperatures in May resulted in the rapid onset of snowmelt in spring 2024.

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

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

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

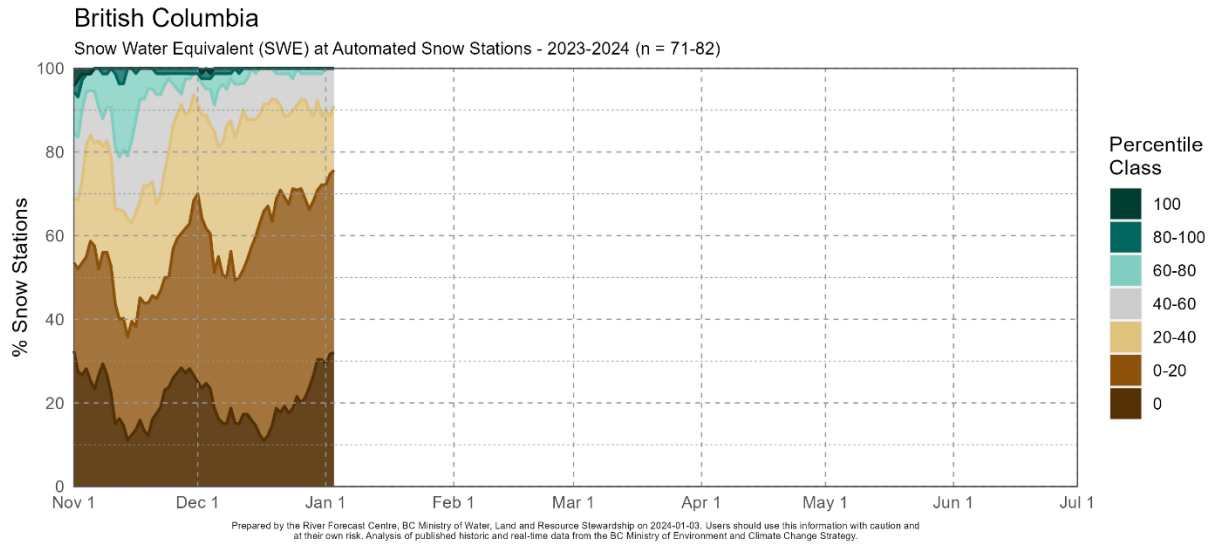
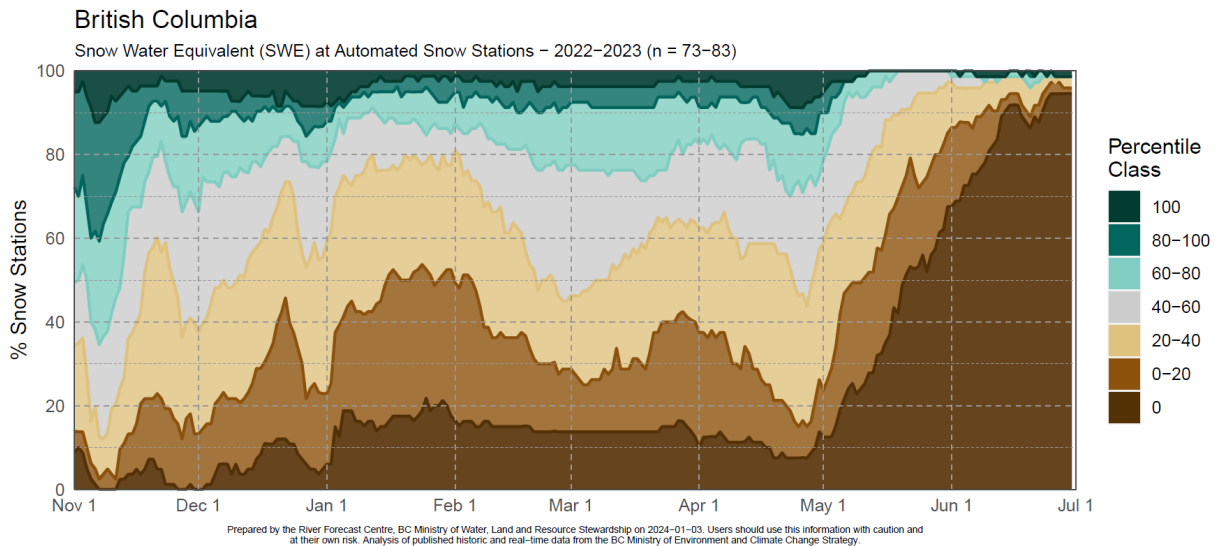


Figure 4. Snow Water Equivalent Percentiles at Automated Snow Weather Stations (2022-2023)



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 (60% 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, snow packs tend to be lower than normal; however, there has

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



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

been a large range of variability in snow pack in B.C. during El Niño winters in the past. For example, 2006-07 had an extremely high snow pack develop during an El Niño winter.

Seasonal weather forecasts from late December 2023 by ECCC indicate a greater

likelihood of above normal temperatures for B.C. from January through March 2024. Precipitation, which is more difficult than temperature to predict at a seasonal scale, is not showing any dominant trend of above normal or below normal precipitation for the upcoming months.

Summer 2024 Drought Concerns

For the second year in a row, a significant drought extended into the fall for much of the province. The Province does not typically monitor drought conditions through the winter. The best indicator during the winter of potential water scarcity concerns for the upcoming summer are the snow basin indices. Currently, most of the province is well below normal with extremely low snow pack for January 1st. This increases the likelihood for drought conditions this summer.

Upcoming challenges related to drought could include water supply issues, low groundwater levels, inadequate river levels for cultural needs, environmental flows, agricultural use, power generation, recreational use, wildfire risk, and more. Low snow pack significantly decreases spring freshet flood hazards, especially in the B.C. Interior. Conditions can still change significantly depending on the remainder of the season's weather conditions.

Summary

By early January, nearly half of the annual B.C. snow pack typically accumulates. Snow pack throughout the province ranges from 0 to 96% of normal across regions. The average for all snow measurements for the province on January 1st is 56% of normal (44% below normal). For the first week of January, snow at the automated snow weather stations has

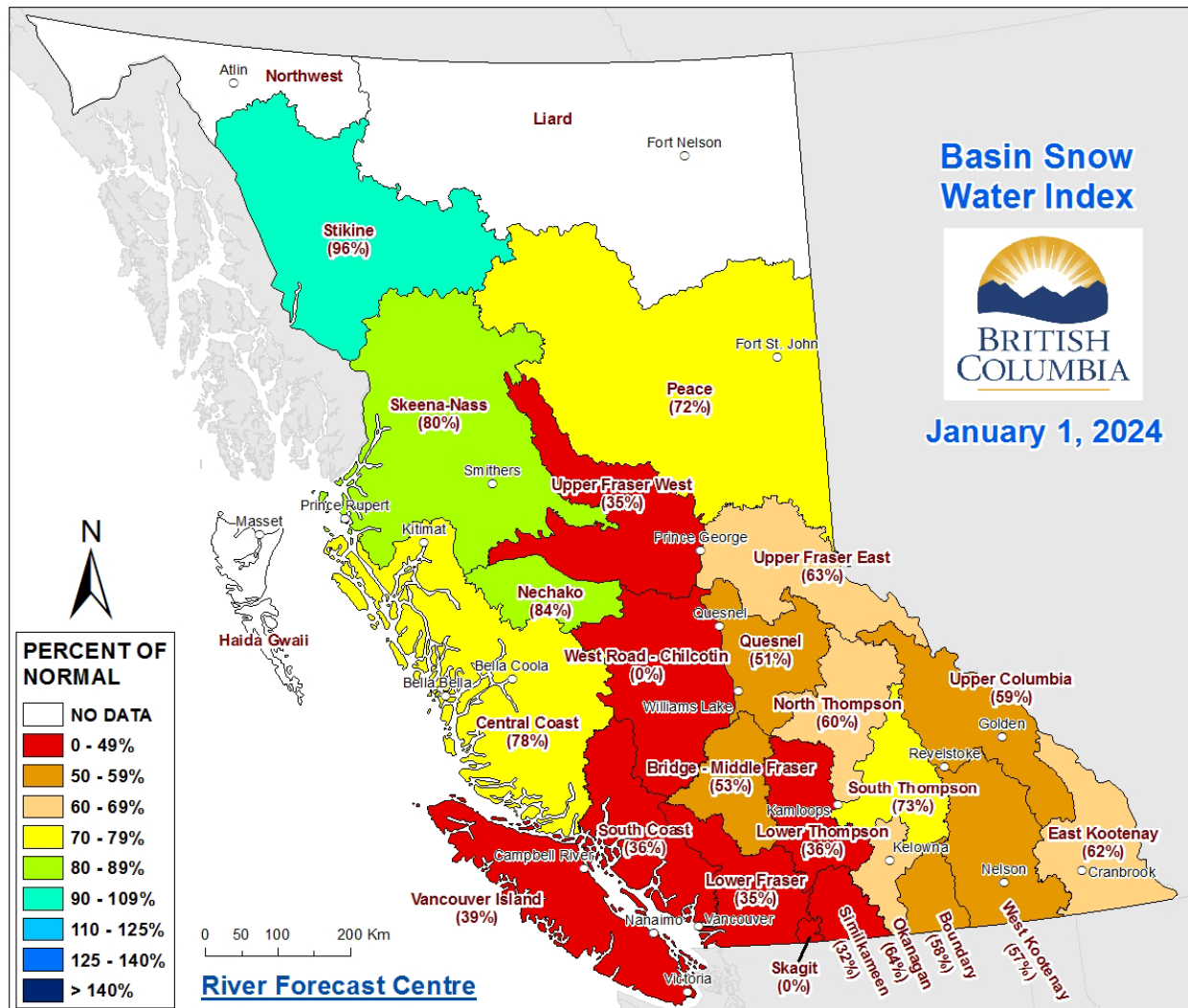
accumulated at a seasonal rate. There are early concerns for drought extending into the spring and summer with the extremely low snow pack throughout the province. With three or more months left for snow accumulation, seasonal snow packs can still change significantly based on weather patterns through the remainder of the season.

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

River Forecast Centre
January 10, 2024

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

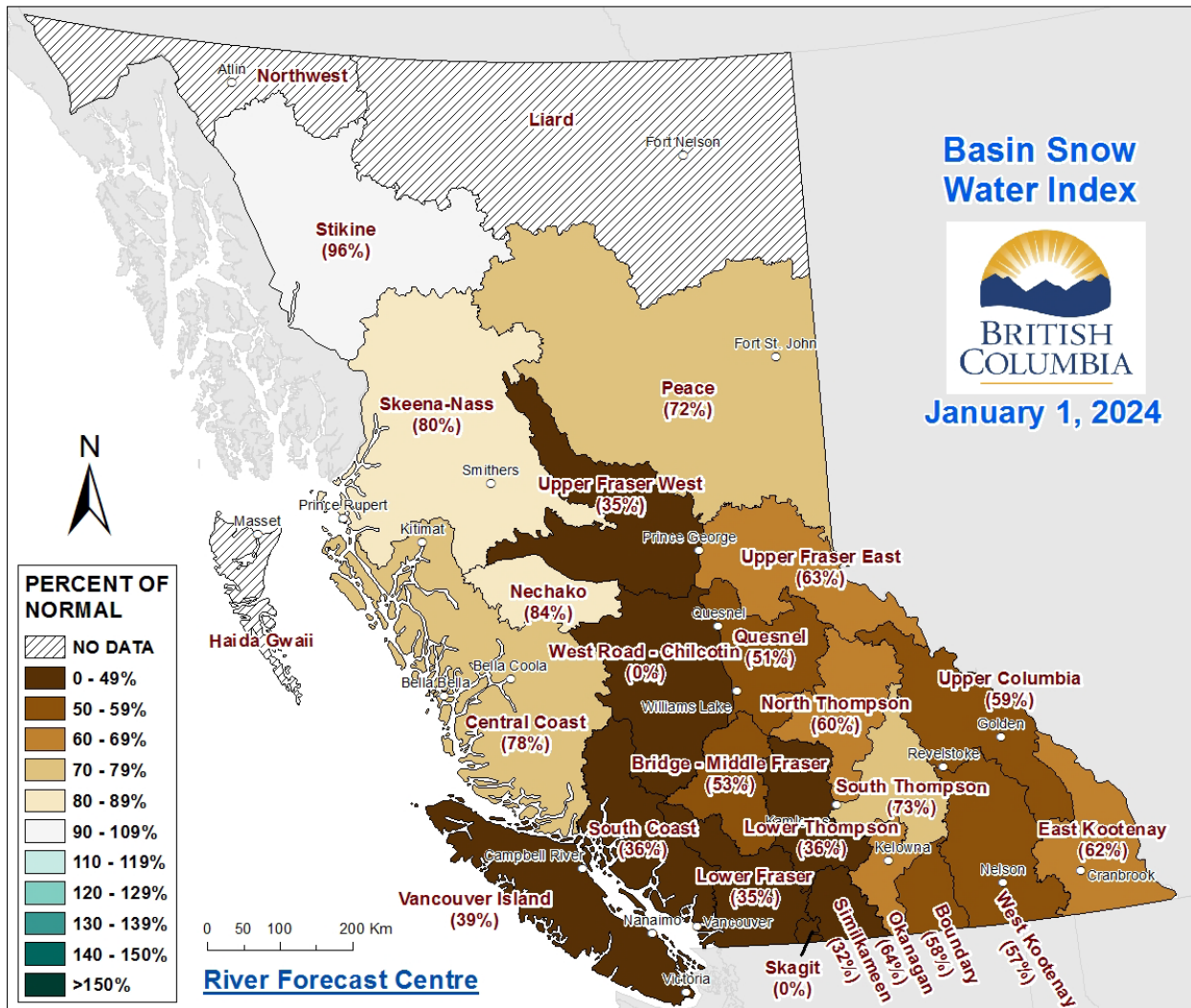
Figure 4: Basin Snow Water Index – January 1st, 2024



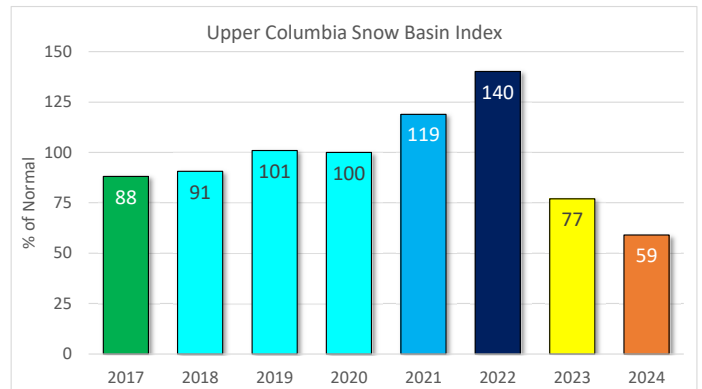
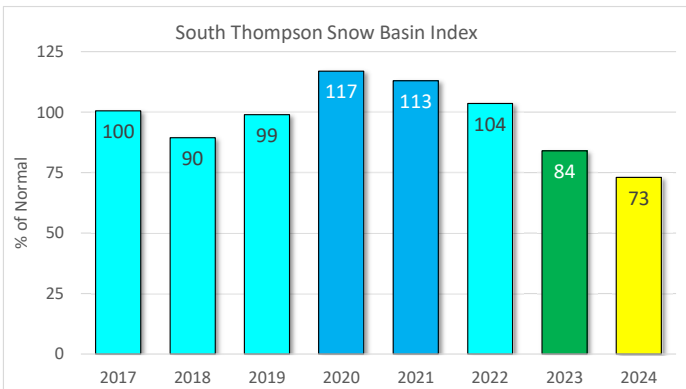
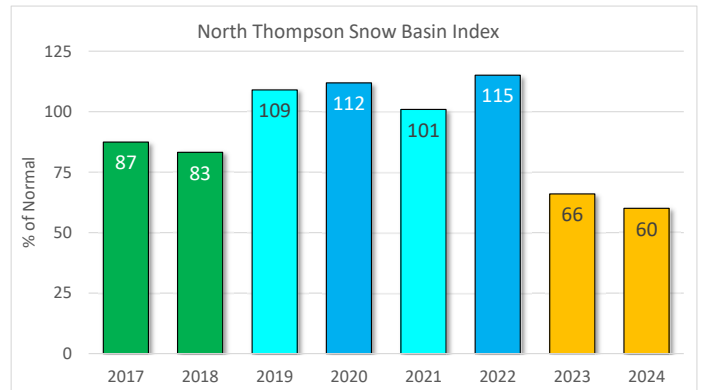
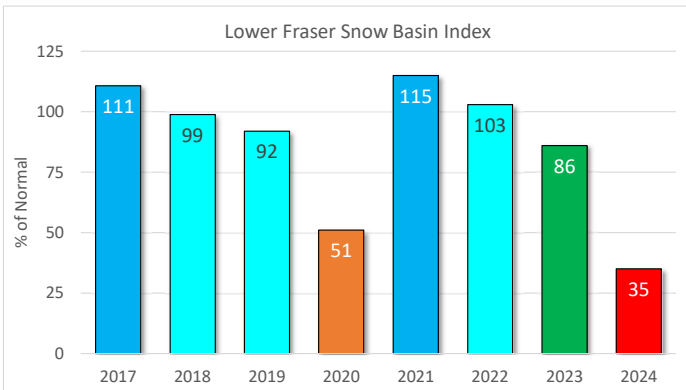
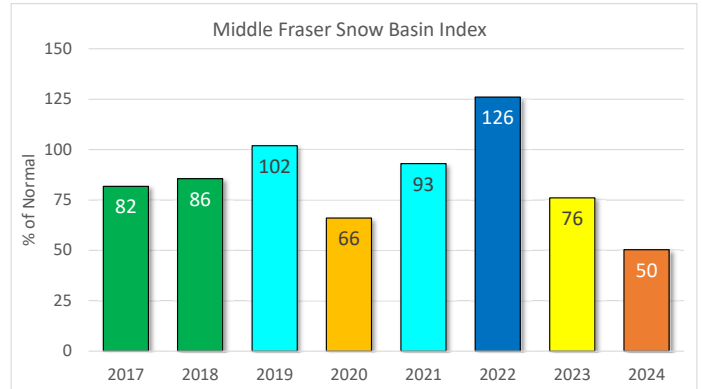
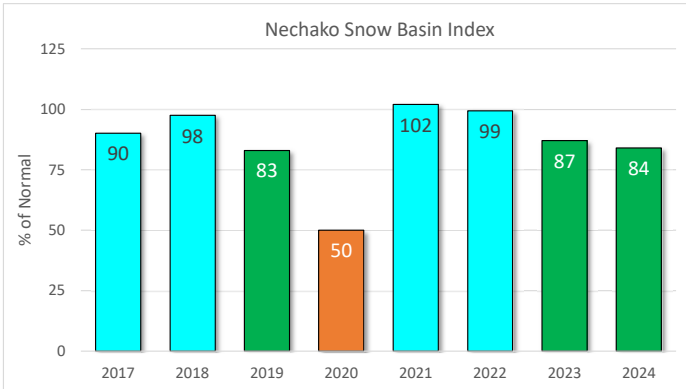
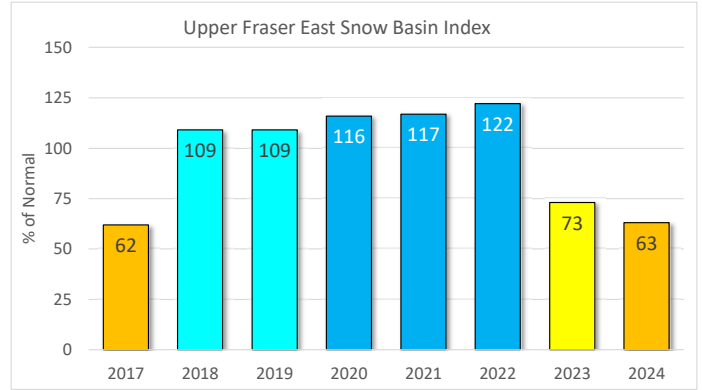
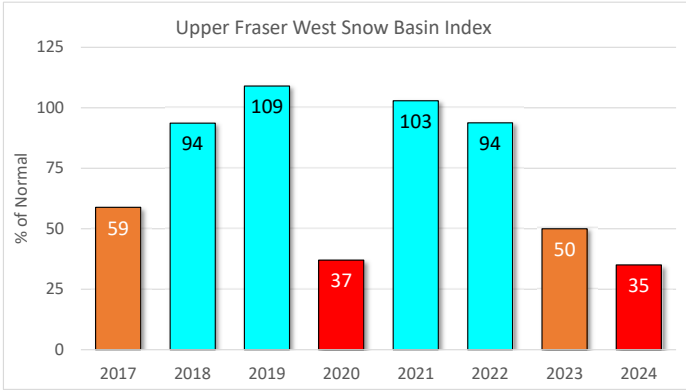
1. Every effort is made to ensure that data reported on these pages are accurate. However, in order to update the graphs and indices as quickly as possible, some data may have been estimated. Please note that data provided on these pages are preliminary and subject to revision upon review.

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

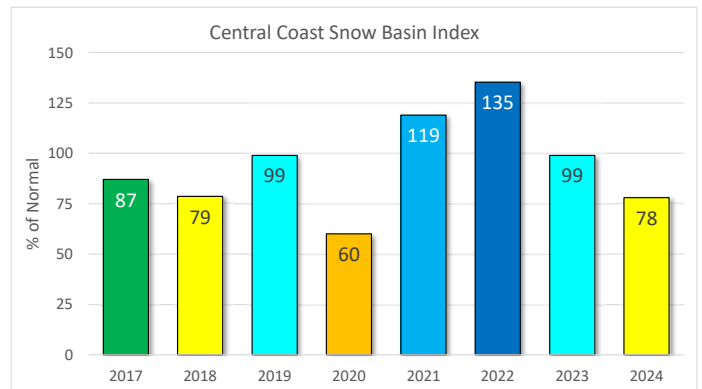
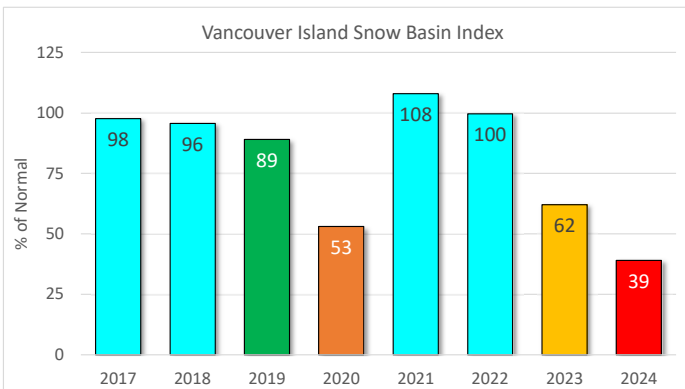
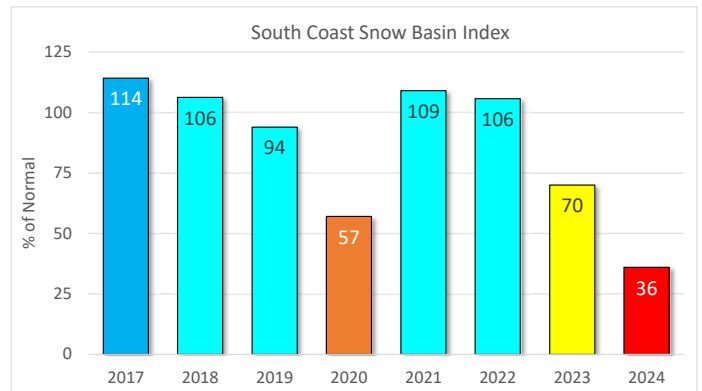
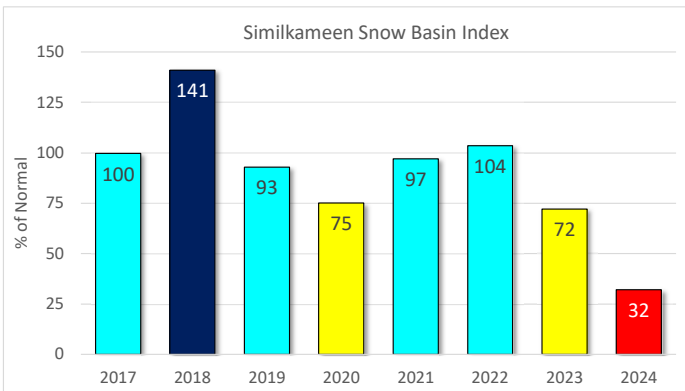
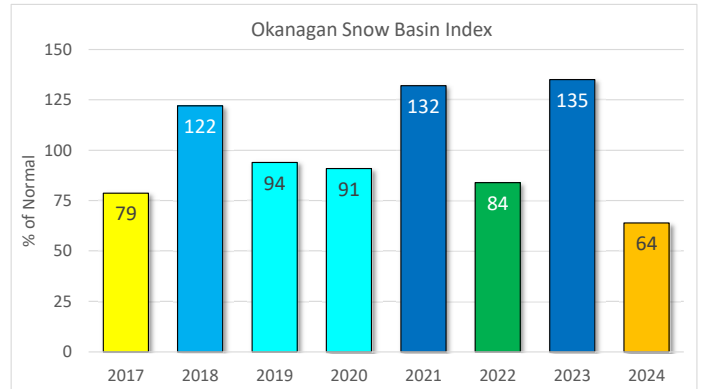
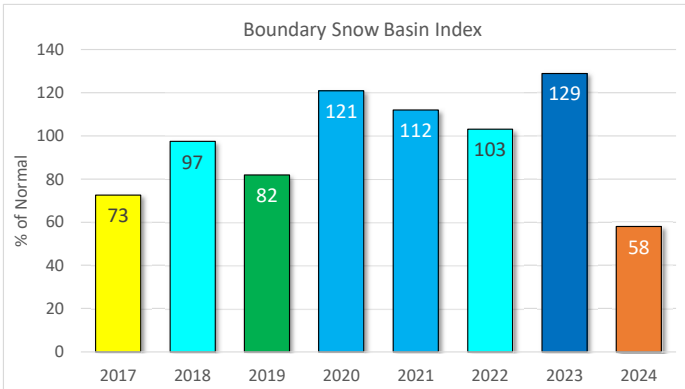
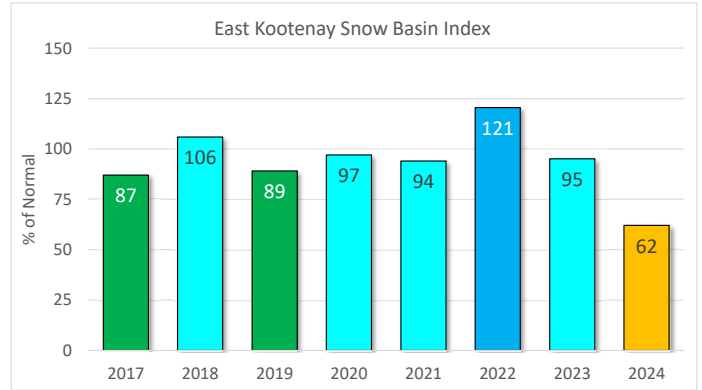
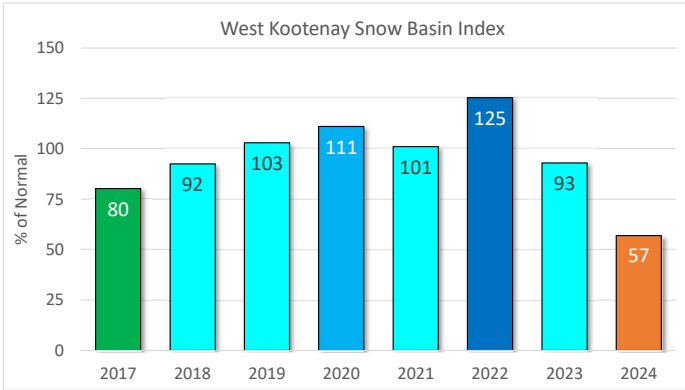
Figure 5: Basin Snow Water Index – January 1st, 2024 – Colour Friendly



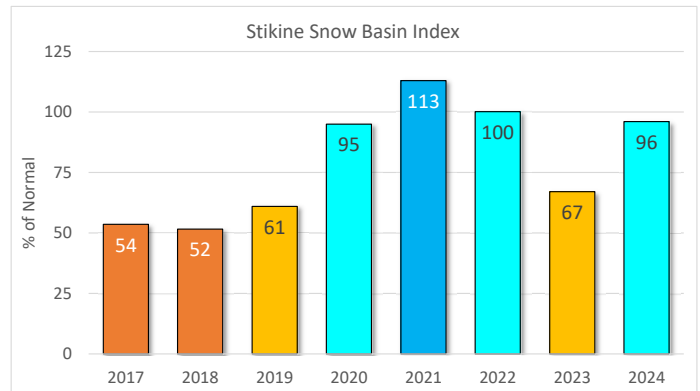
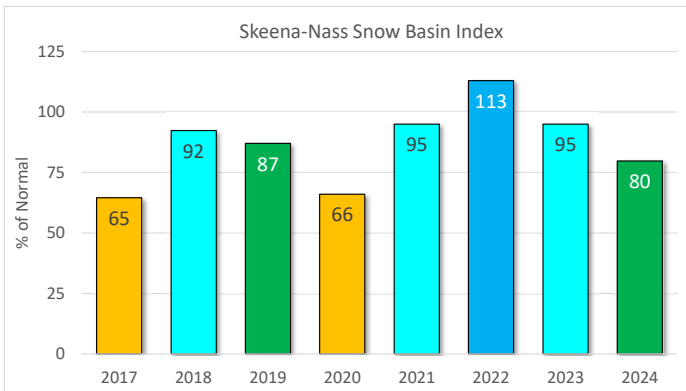
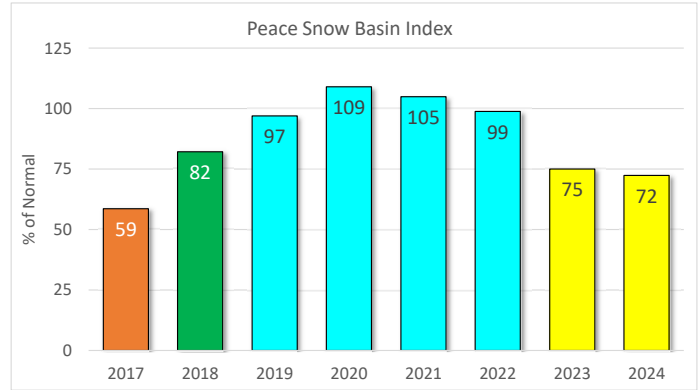
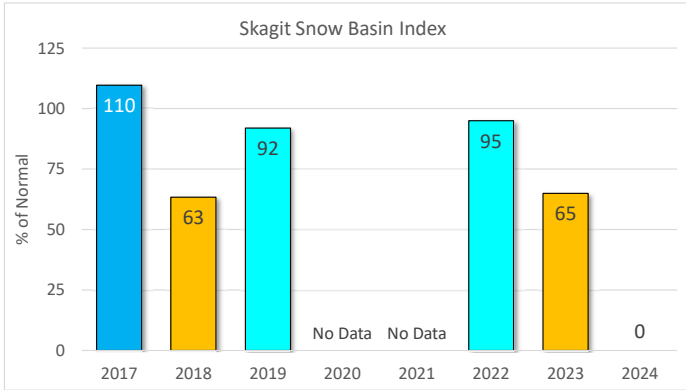
1. Every effort is made to ensure that data reported on these pages are accurate. However, in order to update the graphs and indices as quickly as possible, some data may have been estimated. Please note that data provided on these pages are preliminary and subject to revision upon review.



Snow Basin Index Graphs - January 1, 2024



Snow Basin Index Graphs - January 1, 2024



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

UPPER FRASER EAST			January 1, 2024 Data				Jan 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	2024-01-01	57	165	29		59%	2	211	345	153	263	420	280	25
1A02P	McBride Upper	1611	2024-01-01	107	145	14		62%	8	203	293	112	217	383	233	32
1A03P	Barkerville	1520	2024-01-01	46	127	28		91%	27	135	176	38	150	312	140	45
1A05P	Longworth Upper	1740	2024-01-01	98	310	32		N/A	N/A	416	472	192	472	560	N/A	7
1A06A	HANSARD	608	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1A10	PRINCE GEORGE A	689	2024-01-03	5	20	40		33%	5	66	113	0	66	156	60	59
1A11	PACIFIC LAKE	755	2023-12-29	60	143	24		45%	5	218	N	56	287	721	316	37
1A14P	Hedrick Lake	1100	2024-01-01	107	219	20		61%	19	229	407	150	358	718	356	24
1A15P	Knudsen Lake	1601	2024-01-01	84	314	37		N/A	N/A	336	476	209	349	584	N/A	7
1A17P	Revolution Creek	1690	2024-01-01	132	243	18		61%	16	296	540	183	407	814	397	35
1A19P	Dome Mountain	1774	2024-01-01	98	298	30		82%	20	206	368	206	345	575	366	16
			Average	79	198	27		62%	13							

Basin Index Calculation	Average SWE	170
	Average Normal	269
Upper Fraser East Basin Index - January 1, 2024		63%

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

UPPER FRASER WEST			January 1, 2024 Data				Jan 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	2024-01-01	50	105	21		N/A	N/A	136	NS	116	174	226	N/A	7
1A16	BURNS LAKE	800	2024-01-02	11	28	25		35%	4	40	56	26	67	192	79	46
1A23	BIRD CREEK	1180	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	68	74	174	N/A	4
			Average	31	67	23		35%	4							

Basin Index Calculation	Average SWE	28
	Average Normal	79
Upper Fraser West Basin Index - January 1, 2024		35%

Stations used in Basin Index:
1A16

NECHAKO			January 1, 2024 Data				Jan 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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	220	242	465	N/A	4
1B01P	Mount Wells	1490	2024-01-01		213			71%	10	325	387	146	306	516	302	30
1B02	TAHTSA LAKE	1300	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	295	528	1084	N/A	4
1B02P	Tahtsa Lake	1300	2024-01-01		597			92%	44	506	577	258	621	1168	646	30
1B05	SKINS LAKE	890	NS	NS	NS	NS	NS	N/A	N/A	N	N	0	53	127	51	35
1B06	MOUNT SWANNELL	1620	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	132	144	247	N/A	4
1B07	NUTLI LAKE	1490	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	130	190	527	N/A	4
1B08P	Mt. Pondosy	1400	2024-01-01		338			81%	28	359	390	184	395	687	415	28
			Average	N/A	383	N/A		81%	27							

Basin Index Calculation	Average SWE	383
	Average Normal	454
Nechako Basin Index - January 1, 2024		84%

Stations used in Basin Index:
1B01P, 1B02P, 1B08P

LOWER THOMPSON			January 1, 2024 Data					Jan 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
1C01	BROOKMERE	994	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	22	95	170	N/A	14
1C06	PAVILION	1230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	25	80	N/A	10
1C09A	HIGHLAND VALLEY	1510	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	12	41	104	N/A	11
1C25	LAC LE JEUNE (UPPER)	1509	2024-01-02	13	25	19		36%	4	140	90	10	61	146	70	51
1C29	SHOVELNOSE MOUNTAIN	1450	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C29P	Shovelnose Mountain	1460	2024-01-01	18	52	29		N/A	N/A	158	93	93	96	158	N/A	5
1C32P	Deadman River	1460	2024-01-01	13	53	41		N/A	N/A	101		101		101		1
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C44P	Paradise Lake	1640	2024-01-01	15	44	29		N/A	N/A	N/A	N/A				N/A	0
1C45P	July Mountain	1860	2024-01-01	61	81	13		N/A	N/A	N/A	N/A				N/A	0
			Average	24	51	26		36%	4							

Basin Index Calculation	Average SWE	25
	Average Normal	70
Lower Thompson Basin Index - January 1, 2024		36%

Stations used in Basin Index:
1C25

BRIDGE / LILLOOET			January 1, 2024 Data					Jan 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
1C05P	McGillivray Pass	1718	2024-01-01		97			N/A	N/A	191	294	129	231	294	N/A	6
1C12P	Green Mountain	1780	2024-01-01		249			59%	9	281	526	90	397	756	426	30
1C14P	Bralorne	1382	2024-01-01	18	41	23		N/A	N/A	83	121	36	97	121	N/A	6
1C18P	Mission Ridge	1850	2024-01-01		115			44%	0	239	430	149	239	659	262	47
1C28	DUFFEY LAKE	1200	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C38	DOWNTON LAKE UPPPER	1884	NS	NS	NS	NS	NS	N/A	N/A	262	N	262	416	690	474	21
1C38P	Downton Lake Upper	1829	2024-01-01		292			N/A	N/A	309	629	182	423	629	N/A	8
1C39	BRIDGE GLACIER (LOWER)	1390	NS	NS	NS	NS	NS	N/A	N/A	222	N	74	296	466	287	26
1C40P	North Tyaughton	1969	2024-01-01		95			N/A	N/A	154	304	62	204	304	N/A	8
1C43P	Bridge Glacier Proglacial Lake	1505	2024-01-01	124	298	24		N/A	N/A	376		376		376	N/A	1
			Average	71	170	23		51%	5							

Basin Index Calculation	Average SWE	182
	Average Normal	344
Bridge/Lillooet Basin Index - January 1, 2024		53%

Stations used in Basin Index:
1C12P, 1C18P

Record Low

CHILCOTIN			January 1, 2024 Data					Jan 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
1C21	BIG CREEK	1140	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	10	30	68	30	29
1C22	PUNTZI MOUNTAIN	940	2023-12-27	0	0			0%	N/A	NS	NS	0	34	106	35	45
			Average	0	0	N/A		0%	N/A							

Basin Index Calculation	Average SWE	0
	Average Normal	35
Chilcotin Basin Index - January 1, 2024		0%

Stations used in Basin Index:
1C22

QUESNEL			January 1, 2024 Data					Jan 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
1C17	MOUNT TIMOTHY	1660	2023-12-29	21	46	22		28%	1	144	246	38	147	350	163	24

1C17P	Mount Timothy	1630	2024-01-01	30	8	3	N/A	N/A						N/A	0
1C20P	Boss Mountain Mine	1460	2024-01-01	66	149	23	53%	3	217	279	55	275	495	284	30
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	N/A	N/A	NS	NS	525		525	N/A	1
1C23P	Penfold Creek	1740	2024-01-01	106	353	33	N/A	N/A	391		391		391		1
1C33A	GRANITE MOUNTAIN	1150	2023-12-27	16	30	19	33%	0	NS	140	46	97	124	91	17
1C41P	Yanks Peak East	1670	2024-01-01	91	260	29	64%	5	304	424	206	423	598	406	27
			Average	55	141	21	44%	2							

Record Low

Basin Index Calculation	Average SWE	121
	Average Normal	236
Quesnel Basin Index - January 1, 2024		51%

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

MIDDLE FRASER

Basin Index Calculation	Average SWE	109
	Average Normal	217
Middle River Basin Index - January 1, 2024		50%

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

LOWER FRASER			January 1, 2024 Data				Jan 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
1D06P	Tenquille Lake	1680	2024-01-01	103	305	30		66%	14	406	699	221	469	795	466	23
1D08	STAVE LAKE	1250	NS	NS	NS	NS	NS	N/A	N/A	433	592	112	596	976	561	30
1D08P	Lamont Creek Upper	1217	2024-01-01	43	137	32		N/A	N/A	377	623	377		623	N/A	2
1D09P	Wahleach Lake Upper	1480	2024-01-01		148			38%	0	315	314	164	335	640	386	30
1D10	NAHATLATCH RIVER	1550	2024-01-01	55	204	37		33%	0	465	N	219	554	975	617	23
1D16	DICKSON LAKE	1160	2024-01-01	30	102	34		15%	0	576	436	210	612	1196	663	25
1D17P	Chilliwack River	1600	2024-01-01	59	336	57		51%	0	749	701	353	659	1161	654	30
1D18	DISAPPOINTMENT LAKE	1050	2023-12-29	39	165	42		25%	4	NS	840	112	762	1196	666	20
1D19P	Spuzzum Creek	1180	2024-01-01	43	172	40		29%	0	443	532	198	597	1270	599	25
			Average	53	196	39		37%	3							

Record Low

Record Low

Record Low

Record Low

Record Low

Record Low

Basin Index Calculation	Average SWE	205
	Average Normal	579
Lower Fraser Basin Index - January 1, 2024		35%

Stations used in Basin Index:
1D06P, 1D09P, 1D10, 1D16, 1D17P, 1D18, 1D19P

NORTH THOMPSON			January 1, 2024 Data				Jan 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
1E01B	BLUE RIVER	670	2024-01-02	32	32	10		21%	0	125	164	50	152	263	149	35
1E02P	Mount Cook	1550	2024-01-01					N/A	N/A	380	706	380	675	1075	643	19
1E03A	TROPHY MOUNTAIN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1E03AP	TROPHY MOUNTAIN	1880	2024-01-01	77	217	28		N/A	N/A						N/A	0
1E07	ADAMS RIVER	1720	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	205	293	475	N/A	14
1E08P	Azure River	1652	2024-01-01	118	383	32		67%	0	403	739	383	580	769	575	23
1E10P	Kostal Lake	1770	2024-01-01					N/A	N/A	278	428	278	428	615	429	37
1E14P	Cook Creek	1280	2024-01-01	53	166	31		67%	6	182	316	120	244	364	247	14
			Average	70	200	25		52%	2							

Record Low

Record Low

Basin Index Calculation	Average SWE	194
	Average Normal	324
North Thompson Basin Index - January 1, 2024		60%

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

SOUTH THOMPSON			January 1, 2024 Data				Jan 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

1F01A	ABERDEEN LAKE	1310	2023-12-28	22	40	18		N/A	1	NS	66	38	84	138	N/A	10
1F02	ANGLEMONT	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	164		164	N/A	1
1F03P	Park Mountain	1890	2024-01-01	97				N/A	N/A	382	395	256	394	632	410	39
1F04P	Enderby	1950	2024-01-01		387			N/A	N/A	512	578	496	552	776	N/A	7
1F06P	Celista Mountain	1500	2024-01-01	119	309	26		73%	2	315	467	305	446	506	422	18
			Average	79	245	22		73%	2							

Basin Index Calculation	Average SWE	309
	Average Normal	422
South Thompson Basin Index - January 1, 2024		73%

Stations used in Basin Index:
1F06P

FRASER RIVER

Basin Index Calculation	Average SWE	185
	Average Normal	347
Fraser River Basin Index - January 1, 2024		53%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A10, 1A11, 1A14P, 1A16, 1A17P, 1A19P, 1B01P, 1B02P, 1B08P, 1C12P, 1C17, 1C18P, 1C20P, 1C22, 1C25, 1C33A, 1C41P, 1D06P, 1D09P, 1D10, 1D16, 1D17P, 1D19P, 1E01B, 1E08P, 1E14P, 1F06P

UPPER COLUMBIA			January 1, 2024 Data					Jan 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		Years of Record
			SWE (mm)	SWE (mm)	SWE (mm)				SWE (mm)	SWE (mm)	Normal SWE (mm)					
2A02	GLACIER	1250	2023-12-29	72	217	30	70%	12	253	470	147	312	519	310	53	
2A03A	FIELD	1285	NS	NS	NS	NS	N/A	N/A	NS	NS	38	91	127	83	12	
2A06P	Mount Revelstoke	1850	2024-01-01		338		60%	5	478	704	293	572	861	568	30	
2A07	KICKING HORSE	1650	2023-12-28	53	118	22	81%	27	92	234	66	157	257	145	44	
2A11	BEAVERFOOT	1890	2023-12-29	41	90	22	86%	35	72	164	52	100	215	105	37	
2A14	MOUNT ABBOT	2010	2023-12-31	124	432	35	72%	16	431	978	298	590	1065	601	39	
2A16	GOLDSTREAM	1920	2023-12-27	116	302	26	52%	0	N	840	355	585	906	585	36	
2A17	FIDELITY MOUNTAIN	1870	2023-12-28	122	353	29	58%	9	444	907	331	590	1228	603	49	
2A18P	Keystone Creek	1840	2024-01-01		274		N/A	N/A	322	N	322	474	518	N/A	7	
2A19	VERMONT CREEK	1520	2023-12-29	60	136	23	65%	13	186	277	91	202	328	209	36	
2A21P	Molson Creek	1935	2024-01-01		273		48%	0	418	750	285	540	1072	573	43	
2A25	KIRBYVILLE LAKE	1750	2023-12-27	132	346	26	57%	0	529	789	351	599	830	609	35	
2A27	DOWNIE SLIDE (LOWER)	980	2023-12-27	63	164	26	52%	0	266	398	166	302	504	314	33	
2A29	DOWNIE SLIDE (UPPER)	1630	2023-12-27	130	356	27	52%	2	552	884	335	653	1022	688	32	
2A30P	Colpitti Creek	2131	2024-01-01		256		N/A	14	271	606	204	421	606	N/A	14	
2A31P	Caribou Creek Upper	2201	2024-01-01		266		N/A	N/A	333	681	333	475	681	N/A	8	
2A32P	Wildcat Creek	2122	2024-01-01		206		N/A	N/A	221	474	221	327	474	N/A	8	
2A34P	Glacier NP Rogers Pass Lower	1182	2024-01-01	69	193	28	N/A	N/A	214	442	214		442	N/A	2	
2A35P	Fred Laing Lower	577	2024-01-01	34	128	38	N/A	N/A	196		196		196	N/A	1	
			Average	85	247		63%	10								

Basin Index Calculation	Average SWE	260
	Average Normal	443
Upper Columbia Basin Index - January 1, 2024		59%

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

WEST KOOTENAY			January 1, 2024 Data					Jan 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		Years of Record
			SWE (mm)	SWE (mm)	SWE (mm)				SWE (mm)	SWE (mm)	Normal SWE (mm)					
2B02A	FARRON	1220	NS	NS	NS	NS	N/A	N/A	N	N	40	143	330	144	37	
2B05	WHATSHAN (UPPER)	1525	2023-12-28	59	146	25	48%	0	277	257	169	283	543	307	30	
2B06P	Barnes Creek	1620	2024-01-01		154		60%	3	241	243	130	248	405	258	31	
2B07	KOCH CREEK	1860	2023-12-30	77	202	26	57%	2	N	296	170	323	473	357	25	
2B08P	St. Leon Creek	1800	2024-01-01		308		63%	3	378	722	221	492	855	489	29	

2B09	RECORD MOUNTAIN	1890	2024-01-04	75	191	25	57%	12	354	358	134	320	575	335	35
2D02	FERGUSON	880	2024-01-04	61	144	24	57%	9	270	340	93	260	409	253	44
2D03	SANDON	1070	NS	NS	NS	NS	N/A	N/A	NS	NS	157		157	N/A	1
2D04	NELSON	930	2024-01-03	15	40	27	25%	0	182	208	66	152	366	157	63
2D05	GRAY CREEK (LOWER)	1550	NS	NS	NS	NS	N/A	N/A	NS	NS	69	182	372	N/A	21
2D06	CHAR CREEK	1310	2024-01-02	50	126	25	54%	11	243	239	110	224	480	233	40
2D07A	DUNCAN LAKE NO. 2	630	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2D07AP	Duncan Lake Dam 2	559	2024-01-01	2	8	40	N/A	N/A	79	78	41	79	105	N/A	4
2D08P	East Creek	2030	2024-01-01		274		63%	7	352	748	206	420	858	438	43
2D09	MOUNT TEMPLEMAN	1860	2023-12-28	104	286	28	53%	1	410	742	277	520	902	536	23
2D10	GRAY CREEK (UPPER)	1940	NS	NS	NS	NS	N/A	N/A	NS	NS	222	338	634	N/A	12
2D10P	GRAY CREEK (UPPER)	1930	2024-01-01	75	229	31	N/A	N/A	416	409	376	409	416	N/A	3
2D14P	Redfish Creek	2104	2024-01-01	110	375	34	63%	1	643	810	364	634	810	597	22
2D17	Lost Ledge	2050	2024-01-03	94	305	32	N/A	N/A	272	613	272		613	N/A	2
2D18	Purcell	2060	2024-01-06	114	306	27	N/A	N/A	390	631	390		631	N/A	2
			Average	70	206	29	54%	5							

Record Low

Basin Index Calculation	Average SWE	204
	Average Normal	360
West Kootenay Basin Index - January 1, 2024		57%

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

EAST KOOTENAY			January 1, 2024 Data				Jan 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	Snow			SWE (mm)	Density %	Code	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)	Normal SWE (mm)	Years of Record
2C01	SINCLAIR PASS	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	25	53	107	N/A	13	
2C04	SULLIVAN MINE	1550	2024-01-02	37	94	25		76%	31	154	194	29	116	226	123	37	
2C09Q	Morrissey Ridge	1860	2024-01-01		142			49%	1	276	253	123	255	706	291	39	
2C10P	Moyie Mountain	1930	2024-01-01	30	85	28		46%	1	213	127	76	174	354	183	44	
2C11	KIMBERLY UPPER	2140	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2C12	KIMBERLY MIDDLE	1680	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2C14P	Floe Lake	2090	2024-01-01		226			65%	7	274	563	172	334	563	346	29	
2C15	MOUNT ASSINIBOINE	2230	2023-12-29	70	173	25		63%	5	231	N	111	270	567	273	35	
2C17	THUNDER CREEK	2010	2023-12-29	50	114	23		86%	41	N	N	61	122	276	133	33	
			Average	47	139	24	23	64%	14								

Basin Index Calculation	Average SWE	139
	Average Normal	225
East Kootenay Basin Index - January 1, 2024		62%

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

BOUNDARY			January 1, 2024 Data				Jan 1, 2024 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	Snow			SWE (mm)	Density %	Code	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)	Normal SWE (mm)	Years of Record
2E01	MONASHEE PASS	1370	2023-12-30	38	86	23		54%	1	170	140	84	160	245	158	39	
2E02	CARMI	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	86		102	N/A	2	
2E03	BIG WHITE MOUNTAIN	1680	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	112	212	326	261	17	
2E07P	Grano Creek	1860	2024-01-01	51	126	25		61%	4	302	236	93	210	319	207	26	
			Average	45	106	24	23	58%	2								

Basin Index Calculation	Average SWE	106
	Average Normal	182
Boundary Basin Index - January 1, 2024		58%

Stations used in Basin Index:
2E01, 2E07P

OKANAGAN			January 1, 2024 Data				Jan 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 %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2F01A	TROUT CREEK (West)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	68	93	140	N/A	3
2F01AP	Trout Creek West	1420	2024-01-01	12	92	77		N/A	N/A	191	141	83	139	191	N/A	6
2F02	SUMMERLAND RESERVOIR	1280	2024-01-03	36	64	18		59%	10	212	116	42	110	212	108	59
2F03	MCCULLOCH	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	28	86	144	N/A	31
2F04	GRAYSTOKE LAKE	1840	2024-01-02	39	100	26		65%	2	186	132	96	151	278	154	18
2F05P	Mission Creek	1780	2024-01-01	62	136	22		59%	7		187	104	219	364	229	53
2F07	POSTILL LAKE	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F08	GREYBACK RESERVOIR	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	56	106	181	118	30
2F08P	Greyback Reservoir	1550	2024-01-01	42	89	21		N/A	N/A	151	133	81	121	151	N/A	7
2F09	WHITEROCKS MOUNTAIN	1830	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	122	259	447	N/A	22
2F09P	Whiterocks Mountain	1800	2024-01-01	58	159	27		N/A	N/A	379		379		379	N/A	1
2F10	Silver Star Mountain	1840	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	163	342	565	N/A	35
2F10P	Silver Star Mountain	1839	2024-01-01	83	230	28		N/A	N/A	415	393	314	404	483	N/A	8
2F11	ISINTOK LAKE	1680	2024-01-02	30	71	24		93%	42	122	80	16	80	196	76	57
2F12	MOUNT KOBAN	1810	2023-12-30	34	78	23		60%	22	181	70	28	113	261	129	45
2F13	ESPERON CR (UPPER)	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F14	ESPERON CR (MIDDLE)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F18P	Brenda Mine	1460	2024-01-01	40	103	26		62%	0	217	143	112	151	302	166	28
2F19	OYAMA LAKE	1340	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F19P	OYAMA LAKE	1360	2024-01-01	22	64	29		N/A	N/A	127	90	90	127	148	N/A	3
2F20	VASEUX CREEK	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	32	60	117	N/A	19
2F23	MACDONALD LAKE	1740	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	81	178	328	N/A	16
2F24	ISLAHT LAKE	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	224		224	N/A	1
Average				42	108	29		67%	14							

Basin Index Calculation	Average SWE	92
	Average Normal	144
Okanagan Basin Index - January 1, 2024		64%

Stations used in Basin Index:
2F02, 2F04, 2F05P, 2F11, 2F12, 2F18P

SIMILKAMEEN			January 1, 2024 Data				Jan 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
2G03P	Blackwall Peak	1940	2024-01-01	47	127	27		32%	1	287	412	108	356	923	398	56
2G04	LOST HORSE MOUNTAIN	1920	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	54	97	120	N/A	7
2G05	MISSEZULA MOUNTAIN	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	21	86	197	96	17
2G06	HAMILTON HILL	1490	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	55	148	313	N/A	15
Average				47	127	27		32%	1							

Basin Index Calculation	Average SWE	127
	Average Normal	398
Similkameen Basin Index - January 1, 2024		32%

Stations used in Basin Index:
2G03P

SOUTH COAST			January 1, 2024 Data				Jan 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
3A01	GROUSE MOUNTAIN	1100	2023-12-29	25	120	48		23%	6	344	536	24	473	878	521	43
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				N/A	0
3A09P	Palisade Lake	900	2024-01-01	1	1	9		N/A	N/A	438	619	206	475	636	N/A	5
3A10	DOG MOUNTAIN	1080	2023-12-29	20	92	46		19%	2	342	481	78	515	897	497	37
3A19	ORCHID LAKE		2023-12-29	67	250	37		35%	6	NS	816	180	728	1360	708	36
3A20	CALLAGHAN CREEK	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	100	297	638	N/A	12

3A20P	Callaghan	1017	2024-01-01						N/A	N/A	228	390	228	390	481	N/A	5
3A22P	Nostetuko River	1500	2024-01-01	47	154	33			60%	22	193	N	32	228	540	257	30
3A24P	Mosley Creek Upper	1650	2024-01-01	25	136	54			72%	19	158	225	85	178	491	188	34
3A25P	Squamish River Upper	1340	2024-01-01	86	292	34			42%	0	483	702	289	645	1160	697	33
3A26	CHAPMAN CREEK	1022		NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3A27	EDWARDS LAKE	1070		NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3A28P	Tetrahedron	1420	2024-01-01	90	371	41			N/A	N/A	421	723	74	662	744	N/A	6
			Average	45	177	38			42%	9							

Basin Index Calculation	Average SWE	174
	Average Normal	478
South Coast Basin Index - January 1, 2024		36%

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

VANCOUVER ISLAND			January 1, 2024 Data					Jan 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	2024-01-05	72	236	33			38%	8	367	656	0	601	1287	618	39
3B02A	MOUNT COKELY	1190		NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3B04	ELK RIVER	270	2023-12-29	0	0				0%	N/A	55	89	0	42	264	46	36
3B10	UPPER THELWOOD LAKE	990		NS	NS	NS	NS	NS	N/A	N/A	NS	NS	546	578	734	N/A	4
3B17P	Wolf River Upper	1490	2024-01-01		320				58%	17	323	587	141	551	1057	550	36
3B18	WOLF RIVER (MIDDLE)	990		N	N	N	N	N	N/A	N/A	135	194	0	224	590	264	33
3B19	WOLF RIVER (LOWER)	640		N	N	N	N	N	N/A	N/A	106	98	0	132	388	168	30
3B23P	Jump Creek	1160	2024-01-01	10	80	80			20%	9	302	427	6	392	1054	409	26
3B24P	Heather Mountain Upper	1190	2024-01-01	16	81	51			N/A	N/A	334	490	283	524	691	N/A	8
3B26P	Mount Arrowsmith	1465	2024-01-01	34	108	32			N/A	N/A	204	454	170	402	493	N/A	6
			Average	26	138	49			29%	12							

Basin Index Calculation	Average SWE	159
	Average Normal	406
Vancouver Island Basin Index - January 1, 2024		39%

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

CENTRAL COAST			January 1, 2024 Data					Jan 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	242		242	N/A	1
3C08P	Burnt Bridge Creek	1330	2024-01-01	97	315	32			78%	23	400	547	146	400	696	404	25
			Average	97	315	32			78%	23							

Basin Index Calculation	Average SWE	315
	Average Normal	404
Central Coast Basin Index - January 1, 2024		78%

Stations used in Basin Index:
3C08P

SKAGIT			January 1, 2024 Data					Jan 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		NS	NS	NS	NS	NS	N/A	N/A	NS	114	47	82	114	N/A	3
3D02	LIGHTNING LAKE	1220		NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3D03A	KLESILKWA	1175	2024-01-01	0	0	N/A	T		0%	N/A	79	115	0	112	386	121	31
			Average	0	0	N/A			0%	N/A							

Basin Index Calculation	Average SWE	0
	Average Normal	121

Stations used in Basin Index:
3D03A

Skagit Basin Index - January 1, 2024 0%

PEACE			January 1, 2024 Data				Jan 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	2024-01-01	136	374	28		69%	14	421	578	259	549	1016	540	33
4A03P	Ware Upper	1565	2024-01-01	39	71	18		N/A	N/A	100	110	100	112	139	N/A	7
4A04P	Ware Lower	971	2024-01-01	40	96	24		N/A	N/A	106	94	68	100	117	N/A	7
4A05	GERMANSEN (UPPER)	1480	NS	NS	NS	NS	NS	N/A	N/A	144	165	93	174	364	195	40
4A07	LADY LAURIER LAKE	1440	2023-12-28	100	217	22		78%	28	N	322	140	256	472	280	37
4A09P	Pulpit Lake	1311	2024-01-01	82	191	23		83%	37	153	137	129	226	366	231	33
4A10	FREDRICKSON LAKE	1325	N	N	N	N	N	N/A	N/A	97	104	54	114	250	130	33
4A11	TRYGVE LAKE	1410	N	N	N	N	N	N/A	N/A	146	200	119	170	299	183	32
4A12	TSAYDAYCHI LAKE	1190	NS	NS	NS	NS	NS	N/A	N/A	190	N	128	206	393	232	39
4A12P	Tsaydaychi Lake	1195	2024-01-01	66	157	24		N/A	N/A	183	183	183		183		2
4A13	PHILIP LAKE	1035	NS	NS	NS	NS	NS	N/A	N/A	116	N	48	137	288	161	39
4A13P	Philip Lake	1028	2024-01-01		122			N/A	N/A	101	122	101	120	165	N/A	4
4A16	MORFEE MOUNTAIN	1430	2023-12-29	86	233	27		54%	6	290	N	199	440	710	429	26
4A18	MOUNT SHEBA	1490	NS	NS	NS	NS	NS	N/A	N/A	301	N	106	446	793	446	32
4A18P	MOUNT SHEBA	1484	2024-01-01	117	324	28		N/A	N/A		482	482	552	565	N/A	4
4A20P	Monkman Creek	1570	2024-01-01		164			N/A	N/A	196	300	190	210	300	N/A	5
4A21	MOUNT STEARNS	1505	N	N	N	N	N	N/A	N/A	93	N	14	76	151	81	32
4A25	FORT ST. JOHN A	690	2024-01-04	12	40	33		71%	35	48	N	0	48	134	56	42
4A27P	Kwadacha North	1554	2024-01-01	69	151	22		92%	43	129	183	82	159	307	163	24
4A30P	Aiken Lake	1050	2024-01-01	50	121	24		91%	43	121	137	71	125	262	133	36
4A31P	Crying Girl Prairie	1358	2024-01-01		73			N/A	N/A	163	94	68	115	163	N/A	8
4A33P	Muskwa-Kechika	1196	2024-01-01		59			N/A	N/A	102	90	17	70	102	N/A	8
4A34P	Dowling Creek	1456	2024-01-01		74			N/A	N/A	769	538	113	463	775	N/A	7
4A36P	Parsnip Upper	790	2024-01-01	28	80	29		N/A	N/A	76	136	76	136	202	N/A	5
4A37P	McQue Terrace	1200	2024-01-01		54			N/A	N/A	91	69	50	63	91	N/A	4
4A38P	Horn Creek	1450	2024-01-01	58	162	28		N/A	N/A	188		188		188	N/A	1
			Average	69	145	25		77%	30							

Basin Index Calculation	Average SWE	190
	Average Normal	262
Peace Basin Index - January 1, 2024		72%

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

SKEENA-NASS			January 1, 2024 Data				Jan 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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	298	415	894	N/A	4
4B02	JOHANSON LAKE	1420	N	N	N	N	N	N/A	N/A	133	156	84	155	282	162	39
4B02P	Johanson Lake	1467	2024-01-01	57	139	24		N/A	N/A						N/A	0
4B03A	HUDSON BAY MTN.	1480	2024-01-03	72	195	27		72%	16	260	N	135	261	470	271	47
4B04	CHAPMAN LAKE	1460	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B06	TACHEK CREEK	1140	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B07	MCKENDRICK CREEK	1050	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B08	MOUNT CRONIN	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B11A	BEAR PASS	460	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	170		170	N/A	1
4B13A	TERRACE AIRPORT	180	NS	NS	NS	NS	NS	N/A	N/A	NS	51	0	60	264	81	35
4B14	EQUITY MINE	1420	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	118	160	228	N/A	11
4B15	LU LAKE	1300	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	96	117	182	N/A	9
4B15P	Lu Lake	1300	2024-01-01	35	80	23		55%	5	178	148	49	147	293	144	26
4B16P	Shedin Creek	1480	2024-01-01	126	342	27		91%	46	341	424	195	360	596	377	27
4B17P	Tsai Creek	1360	2024-01-01	133	428	32		78%	18	470	597	288	510	970	552	26

4B18P	Cedar-Kiteen	885	2024-01-01	63	253	40	90%	53	316	435	90	244	563	282	22
			Average	81	240	29	77%	28							

Basin Index Calculation	Average SWE	260
	Average Normal	325
Skeena-Nass Basin Index - January 1, 2024		80%

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

LIARD			January 1, 2024 Data				Jan 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
			Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4C01P	Sikanni Lake	1387	2024-01-01	51	98	19	N/A	N/A	118	143	72	143	161	N/A	7
4C02	SUMMIT LAKE	1280	NS	NS	NS	NS	N/A	N/A	NS	NS	6	45	83	N/A	4
4C05	FORT NELSON AIRPORT	380	NS	NS	NS	NS	N/A	N/A	NS	NS	4	49	112	49	49
4C20P	Sierra Climate	572	2024-01-01		33		N/A	N/A	40	N/A	17	40	78	N/A	5
4C21P	Two Island Climate	708	2024-01-01		41		N/A	N/A	29	N/A	29	43	107	N/A	5
			Average	51	57	19	N/A	N/A							

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

Stations used in Basin Index:
N/A

STIKINE			January 1, 2024 Data				Jan 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
			Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4D10P	Tumeka Creek	1220	2024-01-01		284		96%	44	192	273	167	301	591	296	25
4D11P	Kinaskan Lake	1020	2024-01-01	78			N/A	N/A	138	212	95	180	378	188	25
4D16P	Forrest Kerr Mid Elevation Snow	1192	2024-01-01		640		N/A	N/A	577	828	424	529	829	N/A	8
4D17P	Forrest Kerr High Elevation Snow	1622	2024-01-01		964		N/A	N/A	509	891	365	539	891	N/A	8
			Average	78	629	N/A	96%	44							

Basin Index Calculation	Average SWE	284
	Average Normal	296
Stikine Basin Index - January 1, 2024		96%

Stations used in Basin Index:
4D10P

NORTHWEST			January 1, 2024 Data				Jan 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
			Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4E01	LOG CABIN	900	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4E01P	Log Cabin	890	2024-01-01	114	272	24	N/A	N/A	N/A	N/A				N/A	0
4E02B	ATLIN LAKE	730	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
			Average	114	272	24	N/A	N/A							

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

Stations used in Basin Index:
N/A

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	189
	Average Normal	338
British Columbia Basin Index - January 1, 2024		56%

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