

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

The February 1st snow survey is now complete. Data from 94 manual snow courses and 93 automated snow weather stations around the province (collected by the Ministry of Environment and Climate Change Strategy's Snow Survey Program, BC Hydro and partners), and climate data from Environment and Climate Change Canada (ECCC) and the provincial Climate Related Monitoring Program have been used to form the basis of the following report.

Executive Summary

- The B.C. snow pack is below normal for February 1st with the average of all snow measurements across the province at 79% of normal (21% below normal), decreasing from 82% of normal for January 1st.
- The Fraser River snow basin index is 75%.
- Above normal snow was measured within the Lower Thompson, Okanagan and Boundary basins.
- Below normal snow basin indices are an early indicator for potential spring or summer drought concerns for some regions.
- La Niña conditions existed during fall 2022 and are trending towards neutral-ENSO.
- By February 1st, nearly two-thirds of the seasonal snow pack has accumulated, on average.
- With two or more months left for snow accumulation, seasonal snow packs can still change.

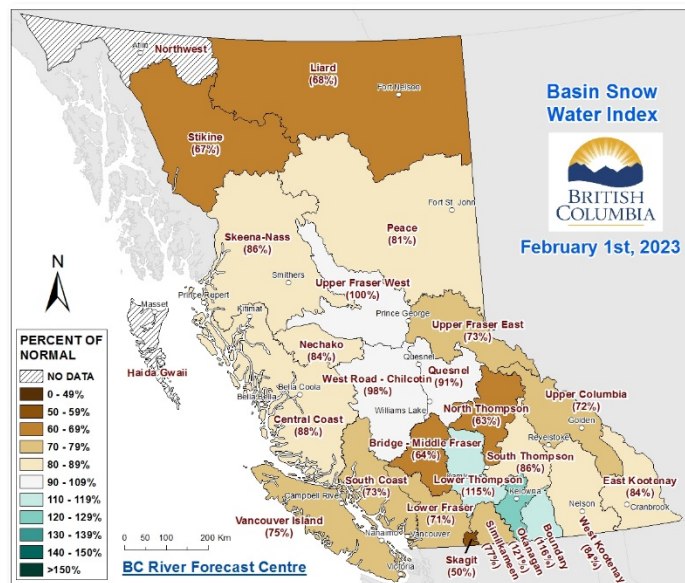


Figure 1. February 1st, 2023 Snow Basin Water Index Map of British Columbia.
Larger Version available in Report

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

Basin	% of Normal	Basin	% of Normal	Basin	% of Normal
Upper Fraser West	100	North Thompson	63	South Coast	73
Upper Fraser East	73	South Thompson	86	Vancouver Island	75
Nechako	84	Fraser River	75	Central Coast	88
Middle Fraser	75	Upper Columbia	72	Skagit	50
Lower Thompson*	115	West Kootenay	84	Peace	81
Bridge*	64	East Kootenay	84	Skeena-Nass	86
Chilcotin*	98	Boundary	116	Liard	68
Quesnel*	91	Okanagan	121	Stikine	67
Lower Fraser	71	Similkameen	77	Northwest	N/A ^a
British Columbia 79% of Normal					

* Middle Fraser Sub-Basin

^a No Snow Surveys scheduled for February 1st, 2023

Next scheduled snow bulletin release: March 8th, 2023



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

Weather

Temperatures across British Columbia were warmer than normal for January. Most regions of the province ranged from +1.0 to +4.0°C above normal for the month. The northerly sections of B.C., including Fort St. John, Fort Nelson and Dease Lake were +4.0 to +7.0°C above normal.

Generally, January was drier than normal. There were some pockets where precipitation was near normal, including central Vancouver Island, Cranbrook and Fort St. John. Areas in the Cariboo, including Quesnel and Williams

Lake, recorded slightly above normal precipitation.

Several low pressure systems have affected coastal B.C. during the first week of February, bringing moderate to heavy precipitation. Snow fell at higher elevations with automated snow weather stations measuring an uptick in snow pack since February 1st. The unsettled weather pattern is forecast to remain for the upcoming 10-days with continued ongoing storm systems.

Snowpack

Snow basin indices (SBI) for February 1st, 2023 range from a low of 50% of normal in the Skagit to a high of 121% in the Okanagan (Table 1, 2 and Figure 1, 5, 6). The province has below normal snow pack for Feb 1st, with the average of all snow measurements across B.C. at 79% (21% below normal), decreasing from 82% of normal on January 1st. The overall snow basin index for the entire Fraser River basin (e.g., upstream of the Lower Mainland) is 75%, significantly lower than last year's 108%.

The Okanagan, Boundary and Lower Thompson are above normal. The Upper Fraser West, Chilcotin and Quesnel are near-normal (90-110%). Slightly below normal (80-90%) snow pack exists in the Nechako, South Thompson, West and East Kootenay, Central Coast, Peace and Skeena-Nass. All other regions are below normal for Feb 1st (<80%). The North Thompson is near historic low.

Most basins dropped relative to normal from Jan 1st to Feb 1st. The largest increase occurred at the Upper Fraser West (+50 percentage points). The result of very few monitoring sites with relatively low snow depths. Vancouver Island (+13), Quesnel (+13), Peace (+6), Similkameen (+5), South Coast (+3), South Thompson (+2) also increased. The Quesnel increase was significantly influenced by two manual sites being measured on Feb 6th, after a recent February snowfall.

Most basins in the province are significantly lower than values in 2022 (Table 3). The Okanagan, Boundary and Lower Thompson are higher compared to last year.

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

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 – February 1st, 2023

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

Basin	February 1 st % of Normal (Jan 1 value)	Percentage Point Change Jan 1 to Feb 1	Basin	February 1 st % of Normal (Jan 1 value)	Percentage Point Change Jan 1 to Feb 1
Fraser River Region			Columbia Region		
Upper Fraser East	73 (73)	0	Upper Columbia	72 (77)	↓ -5
Upper Fraser West	100 (50)	↑ +50	West Kootenay	84 (93)	↓ -9
Nechako	84 (87)	↓ -3	East Kootenay	84 (95)	↓ -11
Middle Fraser	75 (76)	↓ -1	Boundary	116 (129)	↓ -13
Lower Thompson*	115 (200)	↓ -85	Okanagan	121 (135)	↓ -14
Bridge*	64 (69)	↓ -5	Similkameen	77 (72)	↑ +5
Chilcotin*	98 (N/A) ^a	N/A ^a	Northern Region		
Quesnel*	91 (78)	↑ +13	Peace	81 (75)	↑ +6
Lower Fraser	71 (86)	↓ -15	Skeena-Nass	86 (95)	↓ -9
North Thompson	63 (66)	↓ -3	Liard	68 (N/A) ^a	N/A ^a
South Thompson	86 (84)	↑ +2	Stikine	67 (67)	0
Coastal Region			Northwest	N/A ^b (N/A ^a)	N/A ^a
South Coast	73 (70)	↑ +3	Additional		
Vancouver Island	75 (62)	↑ +13	Fraser River	75 (79)	↓ -4
Central Coast	88 (99)	↓ -11			
Skagit	50 (65)	↓ -15			
British Columbia 79 (82) ↓ -3					

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

^b No snow surveys scheduled for February 1st 2023

* Sub-region of the Middle Fraser

Table 3 - BC Snow Basin Indices – February 1, 2023 compared to February 1, 2022

Basin	February 1 st % of Normal (2022 value)	Percentage Point Change 2022 to '23	Basin	February 1 st % of Normal (2022 value)	Percentage Point Change 2022 to '23
Fraser River Region			Columbia Region		
Upper Fraser East	73 (119)	↓ -46	Upper Columbia	72 (130)	↓ -58
Upper Fraser West	100 (117)	↓ -17	West Kootenay	84 (116)	↓ -32
Nechako	84 (97)	↓ -13	East Kootenay	84 (117)	↓ -33
Middle Fraser	75 (115)	↓ -40	Boundary	116 (88)	↑ +28
Lower Thompson*	115 (86)	↑ +29	Okanagan	121 (89)	↑ +32
Bridge*	64 (117)	↓ -53	Similkameen	77 (95)	↓ -18
Chilcotin*	98 (170)	↓ -72	Northern Region		
Quesnel*	91 (109)	↓ -18	Peace	81 (101)	↓ -20
Lower Fraser	71 (103)	↓ -32	Skeena-Nass	86 (108)	↓ -22
North Thompson	63 (118)	↓ -55	Liard	68 (143)	↓ -75
South Thompson	86 (102)	↓ -16	Stikine	67 (96)	↓ -29
Coastal Region			Northwest	N/A ^b (N/A) ^a	N/A ^a
South Coast	73 (102)	↓ -29	Additional		
Vancouver Island	75 (102)	↓ -27	Fraser River	75 (108)	↓ -33
Central Coast	88 (128)	↓ -40			
Skagit	50 (126)	↓ -76			
British Columbia 79 (109) ↓ -30					

^a No snow surveys scheduled for February 1st in 2022 or 2023.

* Sub-region of the Middle Fraser

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

Three manual snow courses measured all-time record high snow pack for February 1st:

- 1C33A Granite Mountain: 208 mm SWE (149% of normal) – 16 years of record (Quesnel – Middle Fraser)
- 2F01A Trout Creek (West): 228 mm SWE (147% of normal) – 13 years of record (Okanagan)
- 2F23 MacDonald Lake: 414 mm SWE – 22 years of record (Okanagan)

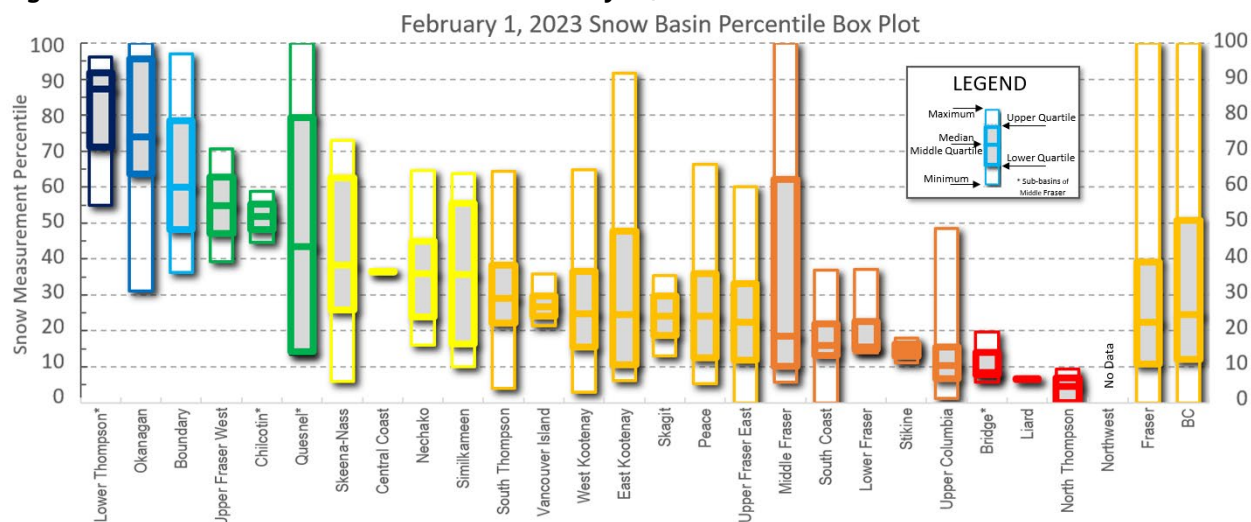
Four snow stations measured all-time record low measurements for February 1st:

- 1A19P Dome Mountain: 305 mm SWE (59% of normal) – 16 years of record (Upper Fraser East)
- 1E07 Adams River: 278 mm SWE (58% of normal) – 41 years of record (North Thompson)
- 1E10P Kostal Lake: 248 mm SWE (41%) – 36 years of record (North Thompson)
- 3A27 Edwards Lake: 204 mm SWE – 11 years of record (South Coast)

Percentiles express variability within datasets and are a particularly important metric for assessing conditions in regions for which percent of normal can be extremely high or low. The region with the highest average percentile is the Lower Thompson (79th percentile); the region with the lowest is the

North Thompson (4th). Both basins had only a single manual snow survey measurement for January 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 – February 1st, 2023



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 – February 1st, 2023

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

above normal (80th to 100th percentile), above normal (60th to 80th), normal (40th to 60th), below normal (20th to 40th) and well below normal (0 to 20th). For comparison, Figure 4 displays the changes in percentile classes at the automated snow weather stations last year (2021-22). For February 1st, over 50% of the ASWS measured well below normal snow.

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

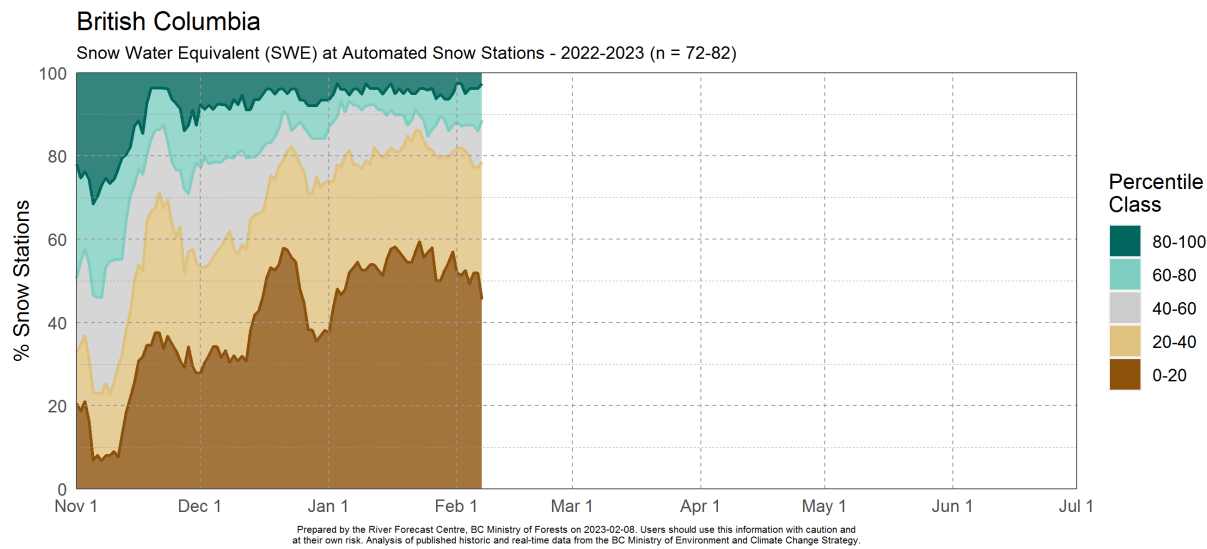
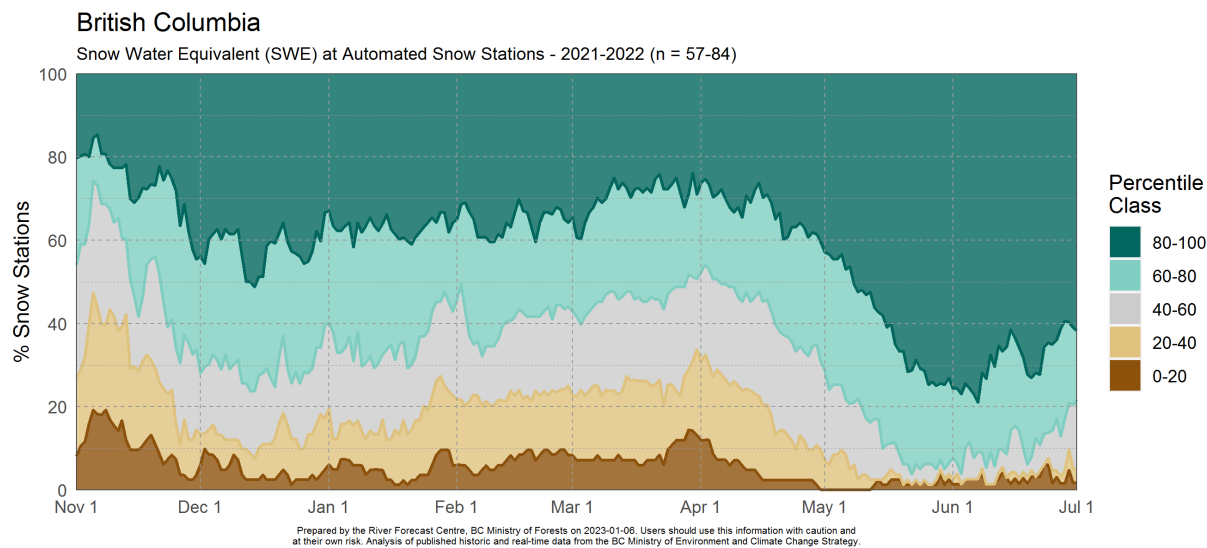


Figure 4. Snow Water Equivalent Percentiles at Automated Snow Weather Stations (2021-2022)



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 – February 1st, 2023

Seasonal Volume Forecasts

Seasonal volume runoff forecasts are near normal (85-115% of normal) for the Upper Fraser, Quesnel River, South Thompson River, Skeena River and Similkameen River. Below normal (70-85%) flows are forecast for the North Thompson, Thompson, Bulkley River and Nicola Lake (see further below).

In 2021, an updated inflow model was developed for Nicola Lake, Nicola River, Okanagan Lake and Kalamalka-Wood Lake. The new model incorporates ten additional years of data, including several years in the 2010s with extremely high or low runoff, as well as several other substantial refinements

(see [February 1st 2021 Snow Bulletin](#) for additional details). In the past two seasons, both the original and updated models were run concurrently to examine the effects of the updates. The concurrent approach will be used again in the 2023 season.

Seasonal volume forecasts for Okanagan Lake and Kalamalka-Wood Lake differ substantially between the two model versions. The older methodology forecasts Okanagan Lake inflows to be near normal and Kalamalka-Wood Lake below normal, while the updated model forecasts well above normal (>140%) seasonal inflows for both lakes.

Outlook

The Climate Prediction Center (CPC) shows that the El Niño-Southern Oscillation (ENSO) climate pattern demonstrated La Niña conditions during the fall of 2022. This is the third La Niña in a row (“triple dip”), with La Niña present during the fall-winter of 2020-21 and 2021-22. La Niña occurs when oceanic temperature anomalies along the equatorial Pacific Ocean region are below normal for an extended period. Historically, La Niña conditions create cooler temperatures for British Columbia and wetter weather in the South Coast and Vancouver Island during the winter months.

Forecasts from the CPC indicate a transition from La Niña to ENSO-neutral conditions through the remainder of winter 2022-23

(February-April). By spring (March-May 2023), the likelihood of ENSO-neutral conditions is 82%. Historically, when winter La Niña conditions exist in British Columbia, the April 1st snow pack is often above normal, particularly for the South Coast and Southern Interior. La Niña conditions can lead to late-season snow accumulation and delayed snowmelt, which increases the risk for freshet flooding (e.g. spring of 2022). Currently, the regions in the South Interior with slightly above normal snow pack have the greatest risk for snowmelt related flooding in the spring.

Seasonal weather forecasts from late January by ECCC indicate a greater likelihood of below normal temperatures from February through



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

April for the interior regions of B.C. and closer to normal temperatures for coastal areas. There is an increased likelihood of higher than normal precipitation for the northeastern

portions of the province from February through April, whereas the southern and northwest areas of the province do not display any trend.

Summary

By early February, approximately two-thirds of the seasonal provincial snow pack typically accumulates. Snow pack throughout B.C. ranges from 50 to 121% of normal. The average for all snow measurements across the province for February 1st is 79% of normal (21% below normal), decreasing from 82% on January 1st. Seasonal snow accumulation was measured during the first week of February. Automated snow weather stations have recorded a slight uptick in snow pack relative

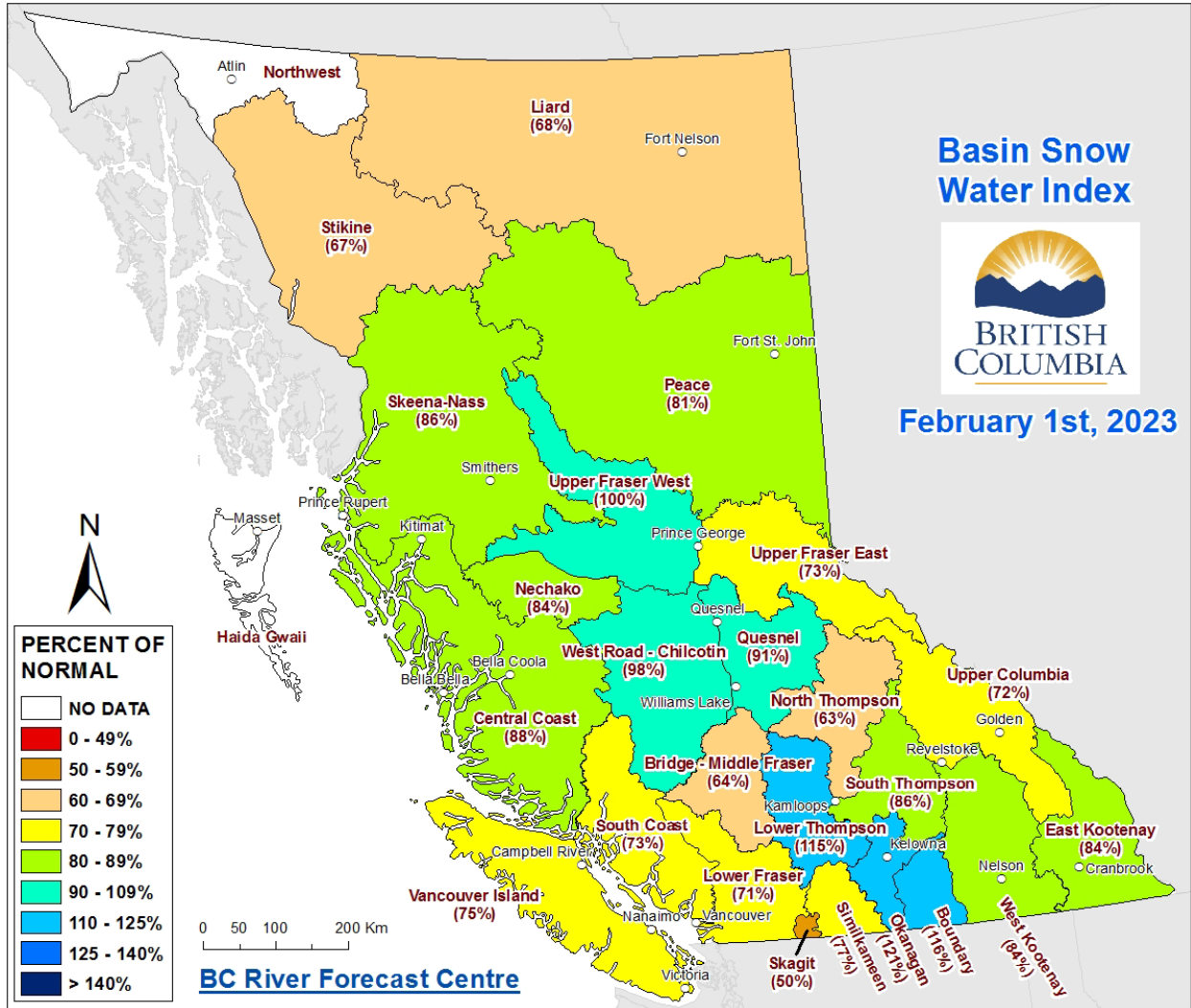
to long-term median for the start of the month. Ongoing precipitation is expected through the 10-day forecast period and snow pack numbers could continue increasing. There are early concerns for drought extending into the spring and summer with below normal snow throughout many regions. With two or more months left for snow accumulation, seasonal snow packs can still change based on weather patterns.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the March 1st, 2023 bulletin scheduled for release on March 8th.

River Forecast Centre
February 8, 2023

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

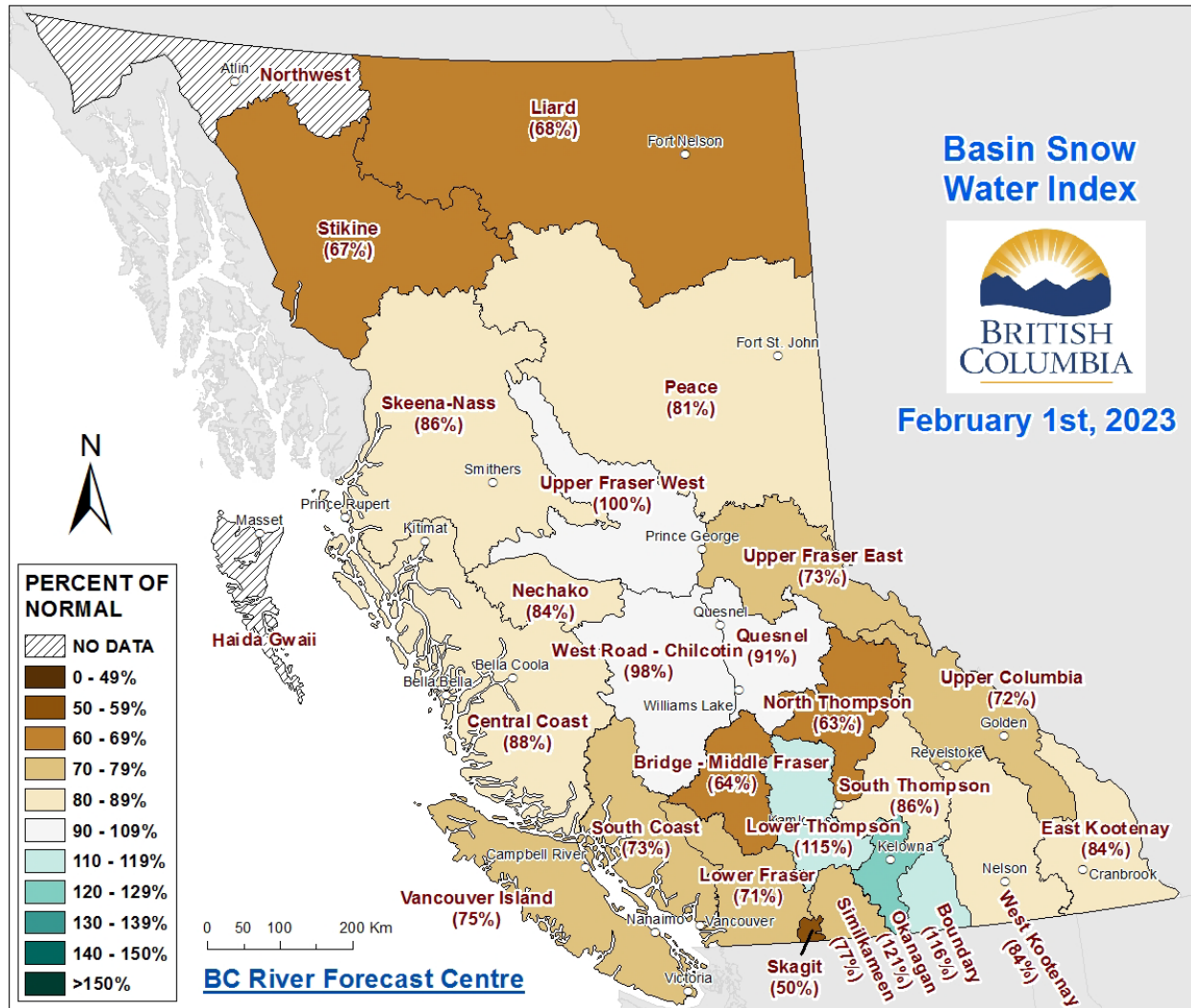
Figure 5: Basin Snow Water Index – February 1st, 2023



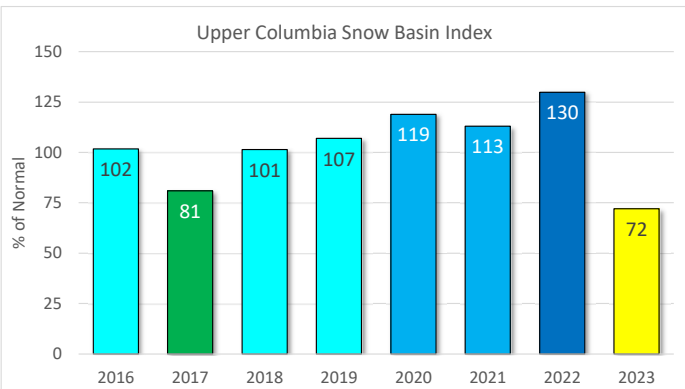
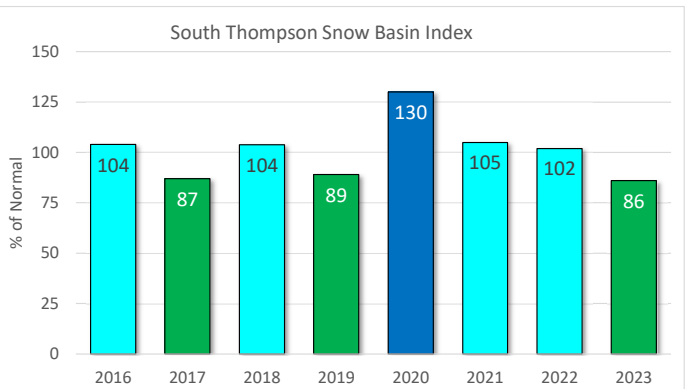
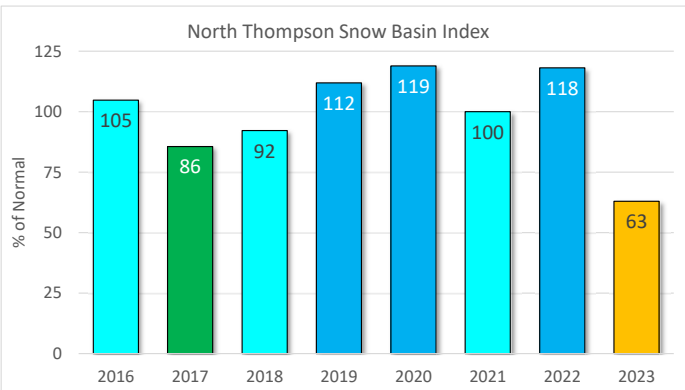
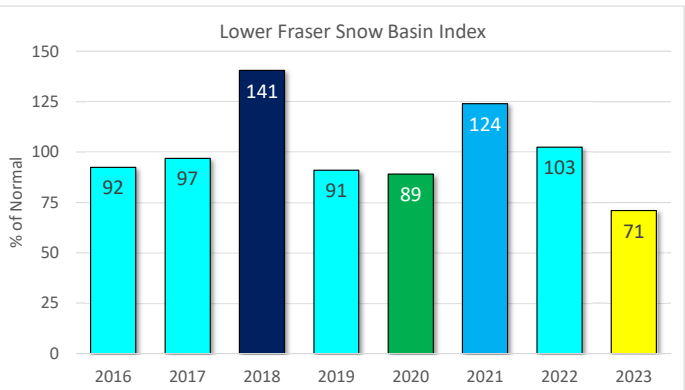
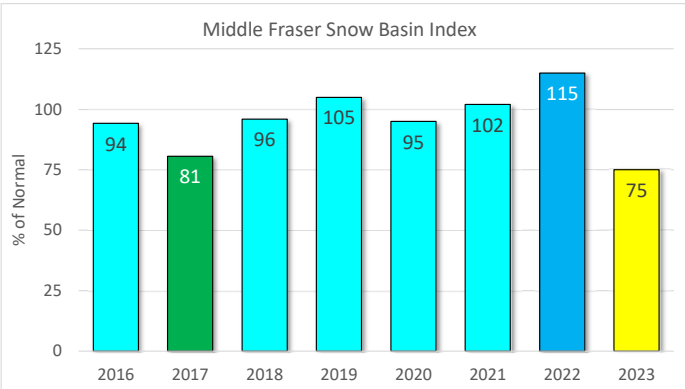
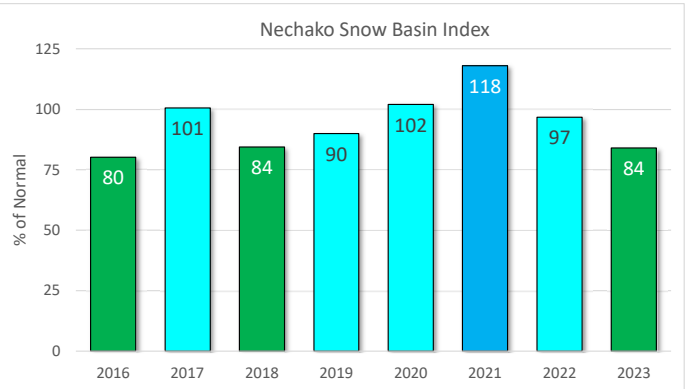
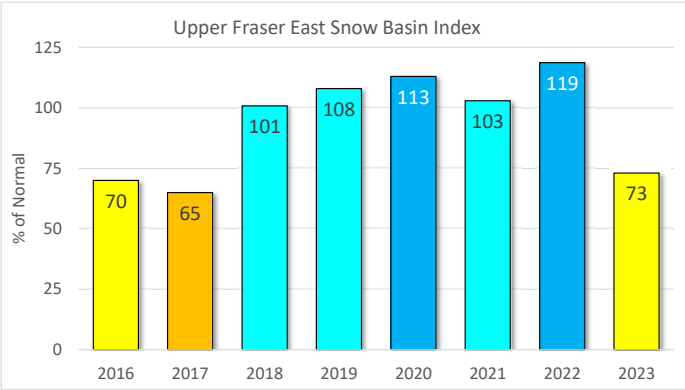
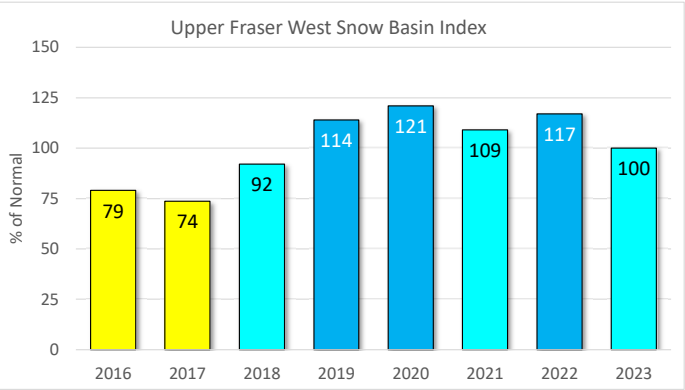
1. Every effort is made to ensure that data reported on these pages are accurate. However, in order to update the graphs and indices as quickly as possible, some data may have been estimated. Please note that data provided on these pages are preliminary and subject to revision upon review.

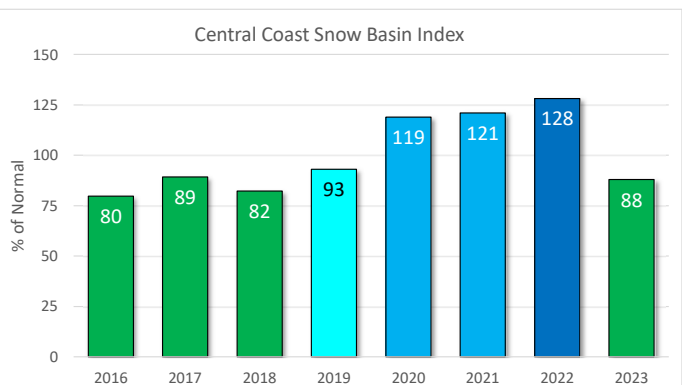
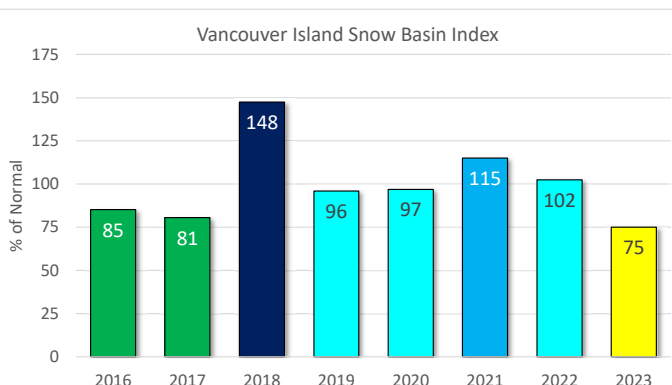
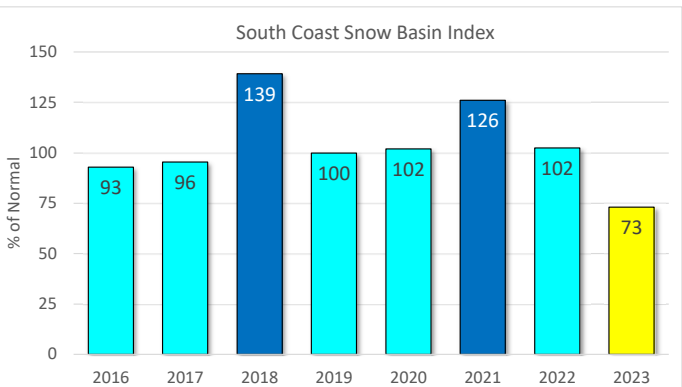
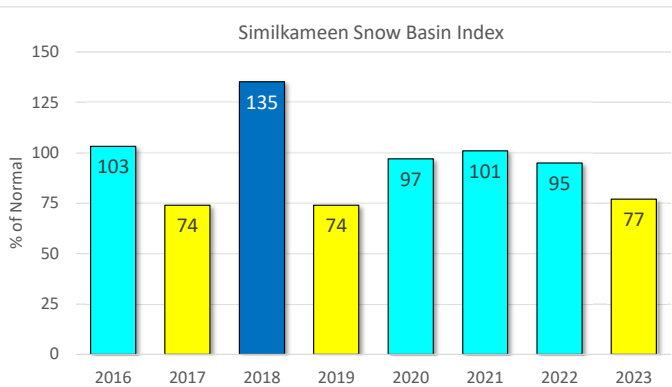
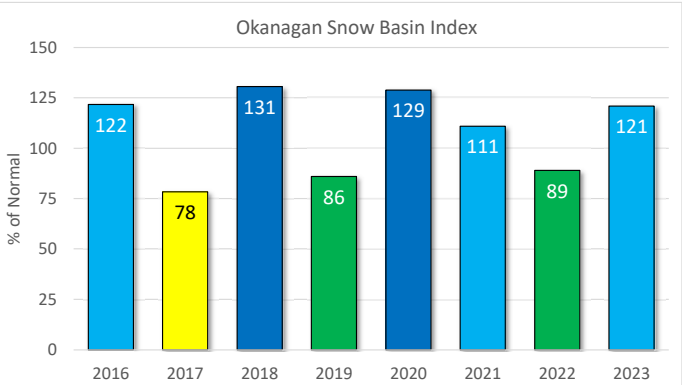
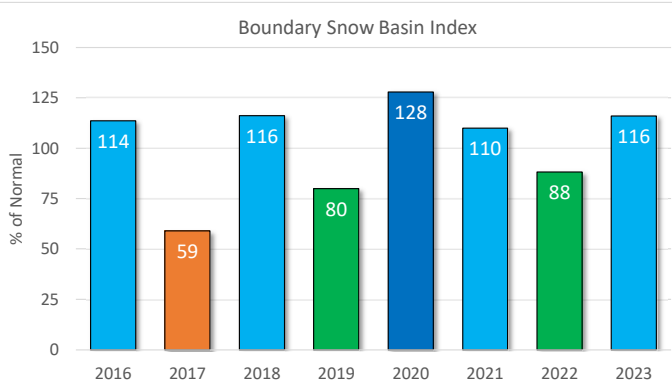
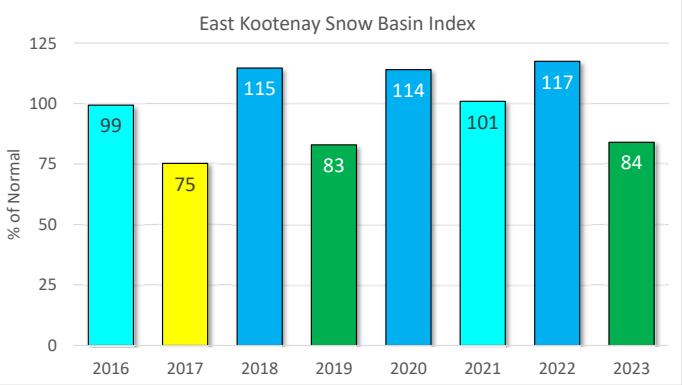
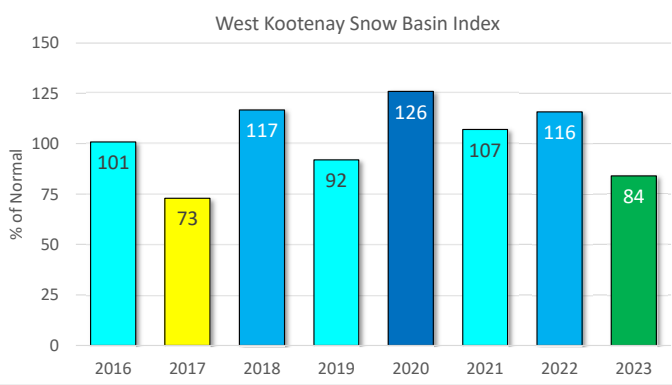
Snow Survey and Water Supply Bulletin – February 1st, 2023

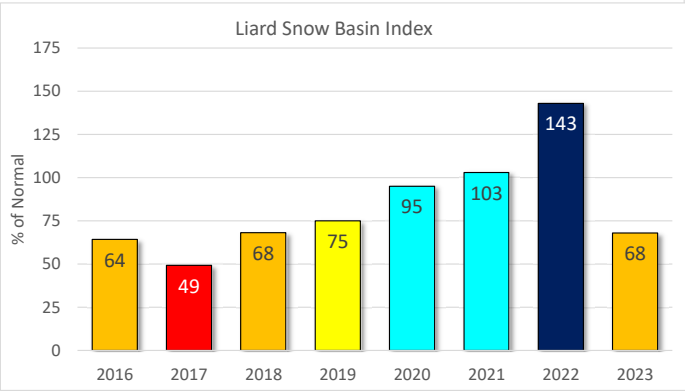
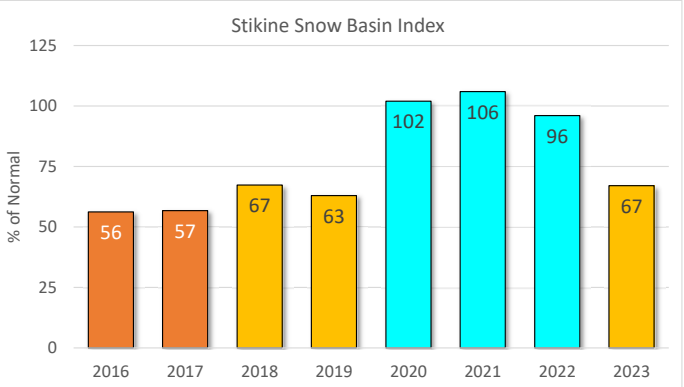
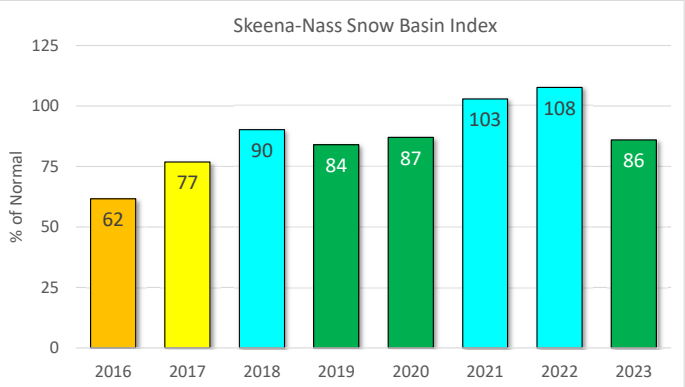
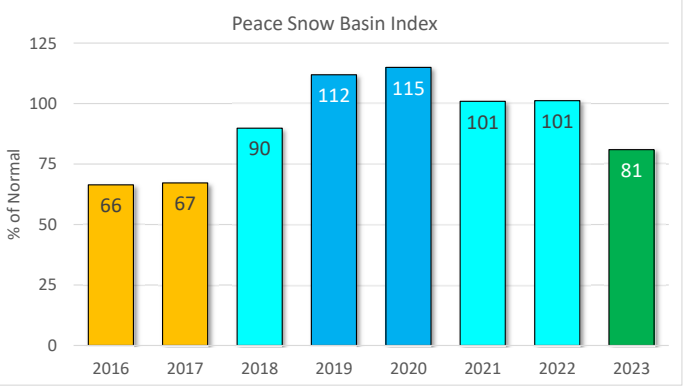
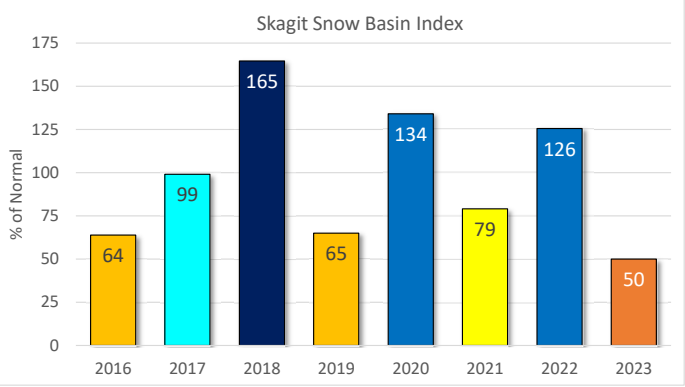
Figure 6: Basin Snow Water Index – February 1st, 2023 – Colour Friendly



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







Ministry of Forests, Lands and Natural Resource Operations and Rural Development
River Forecast Centre
Volume Runoff Forecast February 2023

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					3,801	3,858	99	333	5,308	5,325	100	396
	McGregor at Lower Canyon					4,030	4,185	96	553	5,102	5,231	98	672
	Fraser at Shelley					14,672	16,786	87	1,716	18,548	20,845	89	2,033
Middle Fraser Basin	Quesnel River at Quesnel					4,885	4,930	99	551	6,273	6,261	100	661
Thompson Basin	N. Thompson at McLure					7,141	9,411	76	710	8,580	11,580	74	925
	S. Thompson at Chase					6,047	6,389	95	650	7,578	7,956	95	940
	Thompson at Spences Bridge					13,538	16,353	83	1,381	16,704	20,333	82	1,775
Bulkley and Skeena	Bulkley at Quick					2,327	2,784	84	1,655	2,878	3,381	85	2,173
	Skeena at Usk					17,942	19,604	92	1,553	22,630	23,948	94	2,123
Nicola Lake		93	131	72	33	125	148	84	38				
*new model - Normal (1984-2019)		97	140	69	29	111	159	70	27	119	165	73	28
Nicola River at Spences Bridge		570	549	104	100	645	616	105	123				
*new model - Normal (1970-2019)		387	561	69	79	497	624	115	80	525	666	79	93
Okanagan Lake		490	488	100	99	517	515	100	120				
*new model - Normal (1970-2019)		733	513	143	91	780	537	145	95	758	520	146	102
Kalamalka-Wood Lake		25.2	33.1	76	12.8	25.4	34.5	74	15.1				
*new model - Normal (1975-2019)		46.6	28.6	163		46.6	27.5	169		46	25.2	182	
Similkameen River	at Nighthawk	1,234	1,391	89	166					1,476	1,701	87	196
	at Hedley	984	1,080	91	139					1,135	1,268	90	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 Principle Component Analysis of snow pack, climate and streamflow data.

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

Use at your own risk

UPPER FRASER EAST			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1A01P	Yellowhead Lake	1860	2023-02-01	97	243	25		63%	5	449	414	207	390	619	386	23
1A02P	McBride Upper	1611	2023-02-01	120	276	23		83%	37	413	345	203	319	522	332	31
1A03P	Barkerville	1520	2023-02-01	101	193	19		86%	30	263	207	116	222	368	223	45
1A05P	Longworth Upper	1740	2023-02-01					N/A	N/A	720	681	296	615	720	N/A	6
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	2023-02-06	46	112	24		116%	60	120	70	0	106	224	96	61
1A11	PACIFIC LAKE	755	N	N	N	N	N	N/A	N/A	480	535	179	425	679	435	55
1A14P	Hedrick Lake	1100	2023-02-01	175	396	23		73%	22	650	433	282	538	934	546	23
1A15P	Knudsen Lake	1601	2023-02-01	198	507	26		N/A	N/A	692	704	298	424	704	N/A	6
1A17P	Revolution Creek	1690	2023-02-01		422			73%	18	772	634	296	594	1043	579	34
1A19P	Dome Mountain	1774	2023-02-01	148	305	21		59%	0	537	530	307	503	853	514	16
			Average	126	307	23		79%	25							

Record Low

Basin Index Calculation	Average SWE	278
	Average Normal	382
Upper Fraser East Basin Index - February 1, 2023		73%

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

UPPER FRASER WEST			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1A12P	Kaza Lake	1257	2023-02-01	97	187	19		N/A	N/A		284	164	256	334	N/A	6
1A16	BURNS LAKE	800	2023-02-03	34	98	19		87%	39	104	104	44	104	232	112	52
1A23	BIRD CREEK	1180	2023-01-30	61	128	19		112%	71	150	NS	56	112	220	114	30
				Average	64	138	19	100%	55							

Basin Index Calculation	Average SWE	113
	Average Normal	113
Upper Fraser West Basin Index - February 1, 2023		100%

Stations used in Basin Index:
1A16, 1A23

NECHAKO			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth	SWE	Density	Code	SWE %	Percentile	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
				(cm)	(mm)	%		of Normal (1991-2020)	of Historic Record	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1B01	MOUNT WELLS	1490	2023-01-30	119	334	19		90%	34	425	469	188	364	606	373	38
1B01P	Mount Wells	1490	2023-02-01		386			94%	39	467	471	216	396	658	410	29
1B02	TAHTSA LAKE	1300	2023-01-31	189	649	19		76%	23	740	1006	508	800	1442	854	67
1B02P	Tahtsa Lake	1300	2023-02-01		666			75%	16	785	1022	621	878	1533	886	26
1B05	SKINS LAKE	890	2023-01-31	29	73	19		84%	38	86	86	35	85	224	87	54
1B06	MOUNT SWANNELL	1620	2023-01-30	92	231	19		104%	65	209	333	88	211	382	222	33
1B07	NUTLI LAKE	1490	2023-01-30	118	383	19		101%	62	410	460	218	371	729	378	30
1B08P	Mt. Pondosy	1400	2023-02-01		465			82%	24	537	618	273	537	872	570	27
			Average	N/A	398	N/A		88%	38							

Basin Index Calculation	Average SWE	398
	Average Normal	472
Nechako Basin Index - February 1, 2023		84%

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

LOWER THOMPSON			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow					SWE % of Normal (1991-2020)	Percentile of Historic Record	2022						
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %	Code			SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1C06	PAVILION	1230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	53	130	N/A	31
1C09A	HIGHLAND VALLEY	1510	2023-02-02	56	143	26		N/A	96	76	NS	20	81	188	N/A	26
1C25	LAC LE JEUNE (UPPER)	1509	2023-01-30	60	147	25		141%	87	A	N	13	91	177	104	48
1C29	SHOVELNOSE MOUNTAIN	1450	2023-01-28	62	169	27		99%	55	146	149	48	163	307	171	41
1C29P	Shovelnose Mountain	1460	2023-02-01	85	167	20		N/A	N/A	148	194	143	157	194	N/A	4
1C32	DEADMAN RIVER	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	50	75	130	N/A	7
1C32P	Deadman River	1460	2023-02-01	73	153	21		N/A	N/A							
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
			Average	67	156	24		120%	79							

Basin Index Calculation	Average SWE	158
	Average Normal	137
Lower Thompson Basin Index - February 1, 2023		115%

Stations used in Basin Index:
1C25, 1C29

BRIDGE / LILLOOET			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow					SWE % of Normal (1991-2020)	Percentile of Historic Record	2022						
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %	Code			SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1C05	MCGILLIVRAY PASS	1725	2023-01-30	93	239	26	A	60%	8	360	390	150	391	645	400	70
1C05P	McGillivray Pass	1718	2023-02-01		243			N/A	N/A	460	360	333	425	484	N/A	5
1C12P	Green Mountain	1780	2023-02-01		354			58%	6	667	531	238	651	985	606	29
1C14P	Bralorne	1382	2023-02-01	45	97	22		N/A	N/A	180	175	134	180	222	N/A	5
1C18P	Mission Ridge	1850	2023-02-01		281			72%	20	564	441	185	405	794	391	46
1C28	DUFFEY LAKE	1200	2023-01-30	88	244	28		N/A	N/A	NS	NS	371		371	N/A	1
1C37	BRALORNE (UPPER)	1981	2023-01-30	111	294	26		65%	8	NS	NS	178	473	724	450	22
1C38	DOWNTON LAKE (UPPER)	1887	2023-01-30	129	360	28		58%	8	754	N	208	650	980	618	23
1C38P	Downton Lake Upper	1829	2023-02-01		403			N/A	N/A	803	646	501	599	803	N/A	7
1C39	BRIDGE GLACIER (LOWER)	1390	2023-01-30	111	292	26		69%	11	396	400	112	416	688	426	27
1C40	TYAUGHTON CREEK (NORTH)	1947	2023-01-30	105	236	22		76%	18	N	370	128	300	654	310	21
1C40P	North Tyaughton	1969	2023-02-01		211			N/A	N/A	369	355	187	275	369	N/A	7
1C43P	Bridge Glacier Proglacial Lake	1505	2023-02-01		496			N/A	N/A						N/A	0
			Average	97	288	25		65%	11							

Basin Index Calculation	Average SWE	294
	Average Normal	457
Bridge/Lillooet Basin Index - February 1, 2023		64%

Stations used in Basin Index:
1C05, 1C12P, 1C18P, 1C37, 1C38, 1C39, 1C40

CHILCOTIN			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow					SWE % of Normal (1991-2020)	Percentile of Historic Record	2022						
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %	Code			SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1C21	BIG CREEK	1140	2023-01-27	22	37	17		82%	45	74	55	0	42	100	45	49
1C22	PUNTZI MOUNTAIN	940	2023-01-29	33	61	18		112%	59	96	76	0	54	126	54	52
			Average	28	49	18		97%	52							

Basin Index Calculation	Average SWE	49
	Average Normal	50
Chilcotin Basin Index - February 1, 2023		98%

Stations used in Basin Index:
1C21, 1C22

QUESNEL			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow					SWE % of Normal (1991-2020)	Percentile of Historic Record	2022						
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %	Code			SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record

1C17	MOUNT TIMOTHY	1660	2023-02-07	84	258	31	111%	72	254	N	92	223	384	233	54
1C20P	Boss Mountain Mine	1460	2023-02-01	132	325	25	80%	15	436	478	143	398	611	405	29
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	N/A	N/A	NS	NS	663	663	663	N/A	2
1C23P	PENFOLD CREEK	1740	2023-02-01	176	566	32	N/A	N/A							0
1C33A	GRANITE MOUNTAIN	1150	2023-02-07	74	208	28	149%	100	N	99	79	142	175	140	16
1C41P	Yanks Peak East	1670	2023-02-01	155	447	29	77%	13	641	606	304	559	803	580	26
			Average	124	361	29	104%	50							

Record High

Basin Index Calculation	Average SWE	310
	Average Normal	339
Quesnel Basin Index - February 1, 2023		91%

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

MIDDLE FRASER

Basin Index Calculation	Average SWE	247
	Average Normal	329
Middle River Basin Index - February 1, 2023		75%

Stations used in Basin Index:
1C05, 1C12P, 1C17, 1C18P, 1C20P, 1C21, 1C22, 1C25, 1C29, 1C33A, 1C37, 1C38, 1C39, 1C40, 1C41P

LOWER FRASER			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow	SWE (mm)	Density	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
				Depth (cm)		%				SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1D06P	Tenquille Lake	1680	2023-02-01	164	529	32		76%	14	919	754	344	735	1092	695	21
1D08	STAVE LAKE	1250	2023-01-30	155	559	36		68%	16	909	1041	163	909	1448	824	49
1D08P	Lamont Creek Upper	1217	2023-02-01	153	543	35		N/A	N/A	1010	1228	1010		1228	N/A	2
1D09P	Wahleach Lake Upper	1480	2023-02-01		411			68%	19	513	715	246	579	1061	602	29
1D10	NAHATLATCH RIVER	1550	2023-01-30	170	498	29		59%	15	886	N	262	901	1359	846	42
1D16	DICKSON LAKE	1160	2023-01-30	175	690	39		82%	37	658	1070	122	826	1538	840	27
1D17P	Chilliwack River	1600	2023-02-01	160	849	53		85%	26	1029	N/A	371	1001	1586	998	29
1D19P	Spuzzum Creek	1180	2023-02-01	150	579	39		59%	15	829	1229	308	955	1902	982	24
			Average	161	582	38		71%	20							

Basin Index Calculation	Average SWE	588
	Average Normal	827
Lower Fraser Basin Index - February 1, 2023		71%

Stations used in Basin Index:
1D06P, 1D08, 1D09P, 1D10, 1D16, 1D17P, 1D19P

NORTH THOMPSON			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1E01B	BLUE RIVER	670	2023-02-02	92	175	19		71%	9	266	188	98	233	380	245	38
1E02P	Mount Cook	1550	2023-02-01					N/A	N/A	980		642	892	1432	902	18
1E03A	TROPHY MOUNTAIN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1E07	ADAMS RIVER	1720	2023-02-01	142	278	20		58%	0	554	538	285	468	654	479	41
1E08P	Azure River	1652	2023-02-01	202	581	29		73%	5	960	862	525	802	1043	793	25
1E10P	Kostal Lake	1770	2023-02-01	160	248	16		41%	0	631	512	417	608	790	603	36
1E14P	Cook Creek	1280	2023-02-01	120	303	25		76%	7	564	520	248	401	589	399	13
			Average	143	317	22		64%	4							

Record Low

Record Low

Basin Index Calculation	Average SWE	317
	Average Normal	504
North Thompson Basin Index - February 1, 2023		63%

Stations used in Basin Index:
1E01B, 1E07, 1E08P, 1E10P, 1E14P

SOUTH THOMPSON			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2022	2021	Minimum	Median	Maximum	1991-2020		
			Depth (cm)	SWE (mm)	Density %	Code			SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record	
1F01A	ABERDEEN LAKE	1310	2023-01-27	55	140	25		117%	64	107	138	48	117	193	119	65
1F02	ANGLEMONT	1190	2023-01-30	75	228	30		83%	28	277	257	130	264	483	276	63

1F03P	Park Mountain	1890	2023-02-01	538	91%	30	556	605	334	582	870	591	38
1F04P	Enderby	1950	2023-02-01	224 800 36	N/A	N/A	724	914	607	724	914	N/A	5
1F06P	Celista Mountain	1500	2023-02-01	189 466 25	77%	4	691	670	421	645	736	607	17
			Average	136 434 29	92%	32							

Basin Index Calculation	Average SWE	343
	Average Normal	398
South Thompson Basin Index - February 1, 2023		86%

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

FRASER RIVER

Basin Index Calculation	Average SWE	336
	Average Normal	448
Fraser River Basin Index - February 1, 2023		75%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A10, 1A14P, 1A16, 1A17P, 1A19P, 1A23, 1B01, 1B01P, 1B02, 1B02P, 1B05, 1B06, 1B07, 1B08P, 1C05, 1C12P, 1C17, 1C18P, 1C20P, 1C21, 1C22, 1C25, 1C29, 1C33A, 1C37, 1C38, 1C39, 1C40, 1C41P, 1D06P, 1D08, 1D09P, 1D10, 1D16, 1D17P, 1D19P, 1E01B, 1E07, 1E08P, 1E10P, 1E14P, 1F01A, 1F02, 1F03P, 1F06P

UPPER COLUMBIA			February 1, 2023 Data				Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density % Code			SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2A02	GLACIER	1250	2023-01-31	134	341	25	71%	11	656	524	241	468	828	480	81
2A03A	FIELD	1285	2023-02-01	44	86	20	70%	17	188	127	46	122	233	123	83
2A06P	Mount Revelstoke	1850	2023-02-01		620		77%	7	962	848	464	818	1196	808	29
2A07	KICKING HORSE	1650	2023-02-03	62	126	20	57%	1	333	234	102	246	384	221	76
2A11	BEAVERFOOT	1890	2023-01-29	43	92	21	63%	10	210	152	78	147	249	146	52
2A14	MOUNT ABBOT	2010	2023-02-01	191	599	31	72%	7	1212	988	396	824	1212	837	64
2A16	GOLDSTREAM	1920	2023-01-28	170	520	31	64%	4	1057	925	460	781	1136	813	53
2A17	FIDELITY MOUNTAIN	1870	2023-01-26	179	474	26	55%	2	1200	1004	430	853	1376	861	59
2A18P	Keystone Creek	1840	2023-02-01		412		N/A	N/A	684	696	608	652	696	N/A	7
2A19	VERMONT CREEK	1520	2023-01-29	82	237	29	82%	24	398	313	102	313	574	288	51
2A21P	Molson Creek	1935	2023-02-01		746		98%	48	927	830	417	756	1067	760	40
2A25	KIRBYVILLE LAKE	1750	2023-01-28	214	708	33	85%	23	945	892	381	843	1160	836	46
2A27	DOWNIE SLIDE (LOWER)	980	2023-01-28	116	338	29	68%	11	584	566	256	480	740	494	39
2A29	DOWNIE SLIDE (UPPER)	1630	2023-01-28	191	652	34	66%	8	N	1024	466	911	1422	990	38
2A30P	Colpitti Creek	2131	2023-02-01		340		N/A	12	785	684	243	526	785	N/A	13
2A31P	Caribou Creek Upper	2201	2023-02-01		405		N/A	N/A	858	748	570	673	858	N/A	7
2A32P	Wildcat Creek	2122	2023-02-01		260		N/A	N/A	618	486	325	486	618	N/A	7
2A34P	Glacier NP Rogers Pass Lower	1182	2023-02-01	120	285	24	N/A	N/A	659		659		659	N/A	1
2A35P	Fred Laing Lower	577	2023-02-01	97	295	30	N/A	N/A						N/A	0
			Average	126	397	27	71%	13							

Basin Index Calculation	Average SWE	426
	Average Normal	589
Upper Columbia Basin Index - February 1, 2023		72%

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

WEST KOOTENAY			February 1, 2023 Data				Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density % Code			SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2B02A	FARRON	1220	2023-01-26	87	222	26	103%	53	223	277	63	215	346	216	49
2B05	WHATSHAN (UPPER)	1525	2023-01-30	111	354	32	74%	16	394	496	242	450	759	479	44
2B06P	Barnes Creek	1620	2023-02-01		333		91%	31	367	392	149	356	566	367	30
2B07	KOCH CREEK	1860	2023-01-30	170	562	33	108%	65	441	590	203	493	708	519	42
2B08P	St. Leon Creek	1800	2023-02-01		481		66%	3	998	760	322	733	1170	725	28
2B09	RECORD MOUNTAIN	1890	2023-02-02	164	512	31	105%	62	384	510	117	457	802	485	47
2D02	FERGUSON	880	2023-01-29	114	330	29	79%	20	556	418	237	411	616	417	50

2D03	SANDON	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	264		328	N/A	2
2D04	NELSON	930	2023-02-01	67	211	31		85%	25	300	248	79	262	508	250	84
2D05	GRAY CREEK (LOWER)	1550	NS	NS	NS	NS	NS	N/A	N/A	N	295	127	312	511	313	69
2D06	CHAR CREEK	1310	2023-02-01	95	298	31		82%	23	388	314	117	364	650	364	57
2D07A	DUNCAN LAKE NO. 2	630	2023-02-02	50	102	20		80%	37	190	N	60	110	283	128	31
2D07AP	Duncan Lake Dam 2	559	2023-02-01					N/A	N/A	192	19	19	165	192	N/A	3
2D08P	East Creek	2030	2023-02-01		438			71%	11	937	721	281	614	1012	614	42
2D09	MOUNT TEMPLEMAN	1860	2023-01-29	161	512	32		71%	8	885	N	409	709	1115	718	43
2D10	GRAY CREEK (UPPER)	1940	NS	NS	NS	NS	NS	N/A	N/A	N	N	268	509	792	498	46
2D10P	GRAY CREEK (UPPER)	1930	2023-02-01	149	462	31		N/A	N/A	548	510	510		548	N/A	2
2D14P	Redfish Creek	2104	2023-02-01	205	814	40		94%	28	1075	993	529	870	1149	864	21
2D17	Lost Ledge	2050	2023-02-02	161	430	27		N/A	N/A	822	NS	822		822	N/A	1
2D18	Purcell	2060	2023-01-27	147	442	30		N/A	N/A	760	NS	760		760	N/A	1
			Average	129	406	30		85%	29							

Basin Index Calculation	Average SWE	398
	Average Normal	473
West Kootenay Basin Index - February 1, 2023		84%

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

EAST KOOTENAY			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record	
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)		Normal SWE (mm)
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	2023-02-01	84	214	25		114%	51	N	275	46	213	397	188	76
2C09Q	Morrissey Ridge	1860	2023-02-01		318			71%	10	376	295	180	440	886	446	39
2C10P	Moyie Mountain	1930	2023-02-01	90	255	28		88%	38	236	255	104	271	521	289	43
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	2023-02-01		311			65%	6	691	541	225	471	750	478	28
2C15	MOUNT ASSINIBOINE	2230	2023-01-29	99	271	27		77%	11	508	377	140	352	592	352	46
2C17	THUNDER CREEK	2010	2023-01-29	91	244	27		141%	92	232	195	69	176	335	174	46
			Average	91	269	27		93%	35							

Basin Index Calculation	Average SWE	269
	Average Normal	321
East Kootenay Basin Index - February 1, 2023		84%

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

BOUNDARY			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
2E01	MONASHEE PASS	1370	2023-01-30	79	220	28		93%	36	207	260	103	236	364	236	61
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	2023-02-01	134	354	26		108%	60	246	N	178	322	483	329	54
2E07P	Grano Creek	1860	2023-02-01	141	441	31		141%	97	321	342	157	311	476	313	24
			Average	118	338	29		114%	64							

Basin Index Calculation	Average SWE	338
	Average Normal	293
Boundary Basin Index - February 1, 2023		116%

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

OKANAGAN			February 1, 2023 Data				Feb 1, 2023 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	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
			YYYY-MM-DD	Depth (cm)						SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2F01A	TROUT CREEK (West)	1430	2023-01-30	67	228	34		147%	100	156	172	84	156	212	155	13

Record High

2F01AP	Trout Creek West	1420	2023-02-01	71	217	31	N/A	N/A	214	181	114	182	214	N/A	5
2F02	SUMMERLAND RESERVOIR	1280	2023-01-27	95	246	26	151%	96	128	211	65	170	307	163	58
2F03	MCCULLOCH	1280	2023-01-30	67	152	23	120%	75	162	157	57	123	196	126	86
2F04	GRAYSTOKE LAKE	1840	2023-01-27	107	254	24	111%	64	206	268	128	220	330	229	23
2F05P	Mission Creek	1780	2023-02-01	127	320	25	97%	55	261	341	167	311	525	331	52
2F07	POSTILL LAKE	1370	2023-01-31	62	138	22	95%	46	120	146	73	143	243	145	72
2F08	GREYBACK RESERVOIR	1550							N	172	60	163	269	172	48
2F08P	Greyback Reservoir	1550	2023-02-01	72	187	26	N/A	N/A	166	133	111	150	222	N/A	6
2F09	WHITEROCKS MOUNTAIN	1830	NS	NS	NS	NS	N/A	N/A	NS	N	135	364	693	379	47
2F09P	Whiterocks Mountain	1800	2023-02-01				N/A	N/A							0
2F10	Silver Star Mountain	1840	N	N	N	N	N/A	N/A	434	N	229	482	721	513	58
2F10P	Silver Star Mountain	1839	2023-02-01	181	578	32	N/A	N/A	513	577	359	513	692	N/A	7
2F11	ISINTOK LAKE	1680	2023-01-26	57	126	22	109%	64	92	95	26	109	307	115	57
2F12	MOUNT KOBAL	1810	2023-01-28	114	365	32	182%	98	210	214	43	207	400	201	56
2F13	ESPERON CR (UPPER)	1650	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	N/A	N/A	NS	NS	146	218	399	N/A	11
2F18P	Brenda Mine	1460	2023-02-01	89	263	30	111%	73	206	282	152	224	368	238	26
2F19	OYAMA LAKE	1340	2023-01-31	59	95	16	80%	31	52	132	31	115	193	119	54
2F19P	OYAMA LAKE	1360	2023-02-01	52	141	27	N/A	N/A	123	196	123		196	N/A	2
2F20	VASEUX CREEK	1400	2023-01-29	56	120	21	132%	79	92	86	44	90	208	91	35
2F23	MACDONALD LAKE	1740	2023-02-02	114	414	36	N/A	100	285	372	132	287	411	N/A	22
2F24	ISLAHT LAKE	1480	2023-01-31	110	268	24	120%	74	199	237	119	213	364	223	40
			Average	88	242	27	121%	73							

Record High

Basin Index Calculation	Average SWE	215
	Average Normal	178
Okanagan Basin Index - February 1, 2023		121%

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

SIMILKAMEEN			February 1, 2023 Data				Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
2G03P	Blackwall Peak	1940	2023-02-01	124	358	29		64%	10	558	573	159	551	1076	564	55
2G04	LOST HORSE MOUNTAIN	1920	2023-01-28	78	171	22		111%	64	190	151	70	150	335	154	60
2G05	MISSEZULA MOUNTAIN	1550	2023-01-28	66	143	22		102%	53	84	173	60	138	284	140	56
2G06	HAMILTON HILL	1490	2023-01-27	58	149	26		73%	19	180	178	91	201	411	203	59
			Average	82	205	25		88%	36							

Basin Index Calculation	Average SWE	205
	Average Normal	265
Similkameen Basin Index - February 1, 2023		77%

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

SOUTH COAST			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1991-2020)	Percentile of Historic Record	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record	
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %										Code
3A01	GROUSE MOUNTAIN	1100	2023-01-26	184	658	36		82%	37	805	1140	50	805	1530	802	73
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
3A09P	Palisade Lake	900	2023-02-01	133	568	43		N/A	N/A	829	1027	534	726	1027	N/A	4
3A10	DOG MOUNTAIN	1080	2023-01-26	163	589	36		81%	30	735	1030	77	746	1243	727	39
3A20	CALLAGHAN CREEK	1040	2023-02-01	102	320	31		58%	15	598	686	50	584	1040	548	38
3A20P	Callaghan	1017	2023-02-01	114	324	28		N/A	N/A	576	641	576	637	759	N/A	4
3A22P	Nostetuko River	1500	2023-02-01	73	255	35		65%	19		408	30	386	782	390	31
3A24P	Mosley Creek Upper	1650	2023-02-01	76	173	23		74%	17	280	222	98	221	509	235	33
3A25P	Squamish River Upper	1340	2023-02-01	222	750	34		70%	13	1011	1082	503	1085	1555	1064	32
3A26	CHAPMAN CREEK	1022	2023-01-30	212	653	31		74%	13	870	1202	540	862	1306	880	13

4A02P	Pine Pass	1400	2023-02-01	224	646	29	84%	21	806	933	469	814	1257	772	30
4A03P	Ware Upper	1565	2023-02-01	69	145	21	N/A	N/A	152	138	130	164	182	N/A	6
4A04P	Ware Lower	971	2023-02-01	62	145	23	N/A	N/A	145	126	89	154	168	N/A	6
4A05	GERMANSEN (UPPER)	1480	2023-01-29	70	178	25	73%	10	223	N	140	223	371	242	53
4A07	LADY LAURIER LAKE	1440	N	N	N	N	N/A	N/A	412	454	224	342	679	369	51
4A09P	Pulpit Lake	1311	2023-02-01	102	226	22	73%	12	319	212	182	320	463	310	32
4A10	FREDRICKSON LAKE	1325	2023-01-28	68	143	21	81%	27	156	163	105	161	309	176	54
4A11	TRYGVE LAKE	1410	2023-01-28	77	187	24	73%	5	263	234	160	236	434	258	51
4A12	TSAYDAYCHI LAKE	1190	2023-01-29	97	266	27	91%	50	N	N	146	267	507	292	52
4A12P	Tsaydaychi Lake	1195	2023-02-01	103	250	24	N/A	N/A	257	371	257		371	N/A	2
4A13	PHILIP LAKE	1035	2023-01-29	66	171	26	81%	29	203	235	118	192	355	210	55
4A13P	Philip Lake	1028	2023-02-01		170		N/A	N/A	199	230	199	230	250	N/A	3
4A16	MORFEE MOUNTAIN	1430	2023-01-29	135	411	30	69%	13	510	610	323	580	952	592	54
4A18	MOUNT SHEBA	1490	N	N	N	N	N/A	N/A	634	660	299	569	932	602	53
4A18P	MOUNT SHEBA	1484	2023-02-01	191			N/A	N/A	683	724	683	728	814	N/A	4
4A20P	Monkman Creek	1570	2023-02-01		223		N/A	N/A	397	250	250	321	397	N/A	4
4A21	MOUNT STEARNS	1505	2023-01-28	50	107	21	107%	66	137	79	40	98	196	100	48
4A25	FORT ST. JOHN A	690	2023-02-01	45	80	18	97%	62	84	51	22	71	154	83	48
4A27P	Kwadacha North	1554	2023-02-01	98	197	20	87%	21	243	207	137	222	371	227	32
4A30P	Aiken Lake	1050	2023-02-01	75	167	22	89%	31	189	195	100	185	330	188	35
4A31P	Crying Girl Prairie	1358	2023-02-01		195		N/A	N/A	153	153	100	165	190	N/A	7
4A33P	Muskwa-Kechika	1196	2023-02-01		125		N/A	N/A	110	91	23	84	110	N/A	7
4A34P	Dowling Creek	1456	2023-02-01		1023		N/A	N/A	N/A	N/A				N/A	
4A36P	Parsnip Upper	790	2023-02-01	90	146	16	N/A	N/A	248	266	266	272	305	N/A	4
4A37P	McQue Terrace	1200	2023-02-01		111		N/A	N/A	97	57	57	97	101	N/A	3
4A38P	Horn Creek	1450	2023-02-01	85	235	28	N/A	N/A							0
			Average	95	241	23	84%	29							

Basin Index Calculation	Average SWE	232
	Average Normal	288
Peace Basin Index - February 1, 2023		81%

Stations used in Basin Index:

4A02P, 4A05, 4A09P, 4A10, 4A11, 4A12, 4A13, 4A16,4A21, 4A25, 4A27P, 4A30P

SKEENA-NASS			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth	SWE	Density	Code	SWE % of Normal	Percentile of Historic	2022 SWE	2021 SWE	Minimum SWE	Median SWE	Maximum SWE	1991-2020 Normal SWE	Years of Record
				(cm)	(mm)	%		(1991-2020)	Record	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	Record
4B01	KIDPRICE LAKE	1370	2023-01-31	153	551	36		81%	35	670	816	403	600	1220	678	62
4B02	JOHANSON LAKE	1420	2023-01-29	78	185	24		88%	38	215	220	115	192	355	209	52
4B02P	Johanson Lake	1467	2023-02-01	92	203	22		N/A	N/A							
4B03A	HUDSON BAY MTN.	1480	2023-01-30	110	322	29		88%	41	392	408	210	342	665	367	51
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	2023-01-30	125	430	34		102%	63	N	545	192	415	821	422	32
4B13A	TERRACE AIRPORT	180	2023-01-30	15	57	38		46%	26	157	66	0	130	330	124	42
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	2023-02-01	84	222	26		108%	73	206	226	94	206	353	206	25
4B16P	Shedin Creek	1480	2023-02-01	159	455	29		82%	22	580	459	262	569	877	555	26
4B17P	Tsai Creek	1360	2023-02-01	171	586	34		74%	6	781	741	423	769	1482	790	25
4B18P	Cedar-Kiteen	885	2023-02-01	147	462	31		104%	64	632	452	233	398	847	446	20
			Average	113	347	30		86%	41							

Basin Index Calculation	Average SWE	363
	Average Normal	422
Skeena-Nass Basin Index - February 1, 2023		86%

Stations used in Basin Index:

4B01, 4B02, 4B03A, 4B11A, 4B13A, 4B15P, B16P, 4B17P, 4B18P

LIARD			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
4C01P	Sikanni Lake	1387	2023-02-01	92	165	18		N/A	N/A	189	190	94	190	237	N/A	6
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	2023-02-01	42	45	11		68%	6	120	77	35	76	128	66	55
			Average	N/A	N/A	N/A		N/A	N/A							

Basin Index Calculation	Average SWE	45
	Average Normal	66
Liard Basin Index - February 1, 2023		68%

Stations used in Basin Index:
4C05

STIKINE			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2022 SWE (mm)	2021 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
4D10P	Tumeka Creek	1220	2023-02-01		266			65%	11	361	405	212	402	744	408	25
4D11P	Kinaskan Lake	1020	2023-02-01		190			70%	18	281	344	113	262	516	273	25
			Average		228			67%	15							

Basin Index Calculation	Average SWE	228
	Average Normal	341
Stikine Basin Index - February 1, 2023		67%

Stations used in Basin Index:
4D10P, 4D11P

NORTHWEST			February 1, 2023 Data					Feb 1, 2023 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow	SWE	Density	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2022	2021	Minimum	Median	Maximum	1991-2020	Years of Record
				Depth (cm)						(mm)	%	(mm)	(mm)	(mm)	(mm)	
4E01	LOG CABIN	900	NS	NS	NS	NS	NS	N/A	N/A	277	NS	277		277	N/A	1
4E02B	ATLIN LAKE	730	NS	NS	NS	NS	NS	N/A	N/A	104	NS	50		104	N/A	2
			Average	N/A	N/A	N/A		N/A	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Northwest Basin Index - February 1, 2023		N/A

Stations used in Basin Index:
N/A

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	332
	Average Normal	422
British Columbia Basin Index - February 1, 2023		79%

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