Snow Survey and Water Supply Bulletin – January 1st, 2021

The January 1st snow survey is now complete. Data from 58 manual snow courses and 86 automated snow weather stations around the province (collected by the Ministry of Environment Snow Survey Program, BC Hydro and partners), and climate data from Environment and Climate Change Canada and the provincial Climate Related Monitoring Program have been used to form the basis of the following report[1].

Weather

October began with relatively warm and dry conditions, but a major cold spell dominated the province in mid-October. Temperatures primarily ranged from -1.5 to +1.0˚C compared to normal. The cold spell also produced early season low elevation snowfall for the Interior. Following the snowfall, heavy rain from an atmospheric river affected the Central Coast and spilled into the Cariboo, resulting in prolonged flood conditions. Overall, most of the Interior received above normal precipitation for the month, whereas coastal regions were closer to normal.

In November, temperatures were steady at near normal to slightly above normal and primarily ranged from -0.5 to +1.5˚C through the province. The warmest temperatures relative to normal occurred in the Interior, while the coldest occurred in the Northwest. Precipitation was mostly below normal to near normal (35-105%) with the Northeast / Peace as the driest areas. A few locations, e.g. Prince Rupert and Williams Lake, were above 130% due to a strong storm event early in the month.

Temperatures in December were relatively warm across the province, ranging from +1.0 to +5.0˚C above normal. The warmer temperatures were primarily a result of limited influence of arctic air and continuation of low-pressure systems originating from the Pacific. For most regions, precipitation was near normal to slightly above normal for the month. A very strong storm in early December resulted in heavy snow accumulation in the Northwest / Stikine regions.

January has already experienced two strong storms for southern areas of the province. Temperatures were cool enough during these events to increase mid and high elevation snow, particularly for Vancouver Island the Lower Mainland. Current weather models forecast continued wet weather into the second week of January, indicating continued snow pack development.

Snowpack

Snow basin indices for January 1st, 2020 range from a low of 93% of normal in the Middle Fraser to a high of 132% in the Okanagan (Table 1 and Figure 2). Generally, the province has an above normal snow pack for January 1st, with the average of all snow measurements across the province at 108%. The provincial snow pack is evenly distributed throughout the

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Snow Survey and Water Supply Bulletin – January 1st, 2021

regions. The lowest snow packs are classified as near normal (90-110%) and include Upper Fraser West, Nechako, Middle Fraser, North Thompson, West Kootenay, East Kootenay, Similkameen, South Coast, Vancouver Island, Peace and Skeena-Nass. Slightly above normal snow pack (110-120%) exists in the Upper Fraser East, Lower Fraser, South Thompson, Upper Columbia, Boundary, Central Coast, and Stikine. The Okanagan and Liard snow basin indices are above normal (>120%). The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) is 108%.

As the Middle Fraser encompasses a large and geographically diverse area, it can be divided into sub-basins to display snow conditions and potential flood risks in localised areas. The Middle Fraser sub-basins display the highest and lowest indices, respectively. The Bridge region measures 79% of normal, the Quesnel area is 129%, the Lower Thompson is 152% and the Chilcotin sub-basin did not have any snow surveys scheduled for January 1st. It is important to remember that there are fewer manual snow surveys completed for January 1st compared to upcoming bulletins. In some cases, a regional snow basin index is calculated from only one snow measurement; therefore, it may not be indicative of conditions across the entire watershed. Please review the full summary data tables at the end of this report for further interpretation.

Beginning with this January 1, 2021 report, the “Normal” period of record has changed from 1981-2010 to 1991-2020.

Table 1 - BC Snow Basin Indices – January 1, 2021

Basin	% of Normal (2020 value)	Basin	% of Normal (2020 value)
Upper Fraser West	103 (37)	Boundary	112 (121)
Upper Fraser East	117 (116)	Similkameen	97 (75)
Nechako	102 (50)	South Coast	109 (57)
Middle Fraser	93 (66)	Vancouver Island	108 (53)
Lower Fraser	115 (51)	Central Coast	119 (60)
North Thompson	101 (112)	Skagit	NA (NA)
South Thompson	113 (117)	Peace	105 (109)
Upper Columbia	119 (100)	Skeena-Nass	95 (66)
West Kootenay	101 (111)	Stikine	113 (95)

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Snow Survey and Water Supply Bulletin – January 1st, 2021

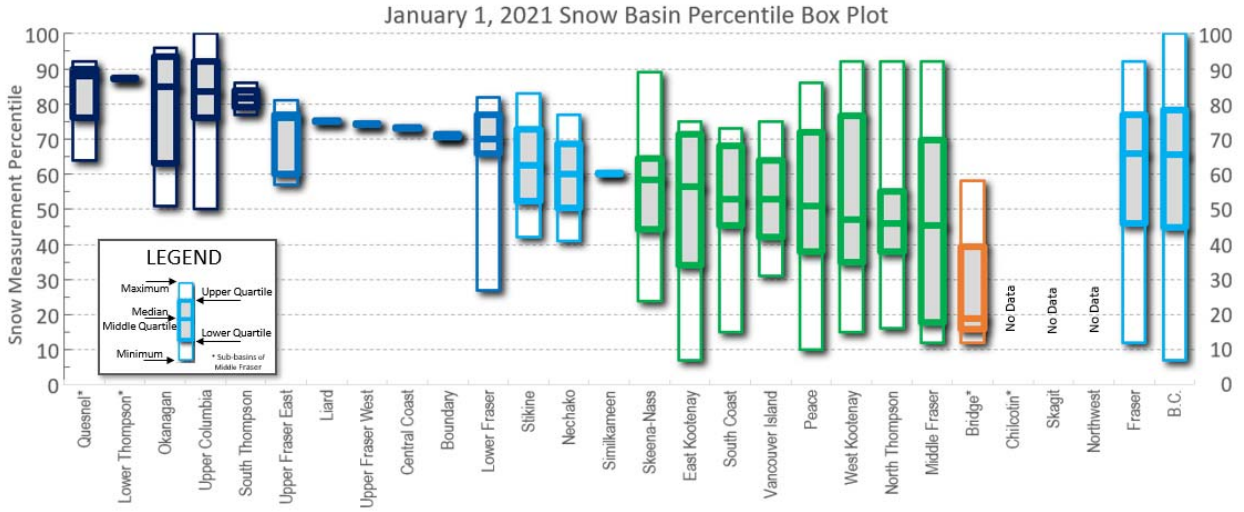
East Kootenay	94 (97)	Liard	121 (105)
Okanagan	132 (91)	Fraser	108 (74)
		British Columbia	108 (84)

Early season snow pack was quick to develop this year as a result of relatively cold and wet conditions in mid to late October. Accumulation continued at a normal pace through November. By December 1st, the average snow pack observed at automated snow weather stations across British Columbia was 145% of long-term median. During the final month of 2020, snow continued to accumulate at a seasonal level throughout the province.

In August 2020, new automated snow weather stations were built for Upper Gray Creek (2D10P) in the West Kootenay and Oyama Lake (2F19P) in the Okanagan. Two Manual Snow Surveys – Kimberly Upper (2C11) and Kimberly Middle (2C12) - are scheduled to return for sampling beginning in the March 1st bulletin.

In addition to using percent of normal to analyze snow pack, the River Forecast Centre began including percentiles into the final data summary table in the 2020 bulletins. Percentiles offer a more accurate interpretation of variance, especially in regions when the percent of normal can be extremely high or low. The regions with the highest average percentile are the South Thompson and Upper Columbia (82nd percentile); the region with lowest is the Middle Fraser (47th). A box plot displaying the percentile variance ordered from highest to lowest median, including sub-basins, is provided below in Figure 1.

Figure 1. Snow Basin Percentile Box Plot – January 1st, 2021



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Snow Survey and Water Supply Bulletin – January 1st, 2021

Outlook

Analysis by the Climate Prediction Center (CPC) shows El Niño Southern Oscillation (ENSO) switched from neutral to La Niña conditions in the fall of 2020. 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. Interestingly, December was a relatively warm month for the entire province.

Forecasts from the CPC are indicating a high likelihood (95% chance) of continued La Niña conditions through the remainder of Winter 2020-21 (January-March), with a potential transition to neutral conditions (50% likelihood) during Spring 2021 (April-May). 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. Also, if La Niña conditions persist into the Spring, it can lead to late-season snow accumulation and delayed snowmelt, which increases the risk for freshet flooding.

Seasonal weather forecasts from late December by Environment and Climate Change Canada are indicating an increased likelihood of warmer than normal temperatures from January through March for the entire province, which is opposite to traditional La Niña conditions. There is an increased likelihood of higher than normal precipitation for the southern half of province for January through March. The northern portion of the province does not show any precipitation trend for the 3-month period.

By early January, nearly half of the annual B.C. snow pack has typically accumulated. Snow pack throughout the province shows little variability with percent of normal ranging from 93 to 132%. Two strong storms have already affected the South Coast and Vancouver Island in early January, with snow accumulation spilling over into the southern Interior. Another large storm system is expected to arrive on the coast for the second week of January. With three or more months left for snow accumulation, seasonal snow packs can still change significantly.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the February 1st, 2021 bulletin, which is scheduled for release on February 9th.

BC River Forecast Centre
January 8, 2021

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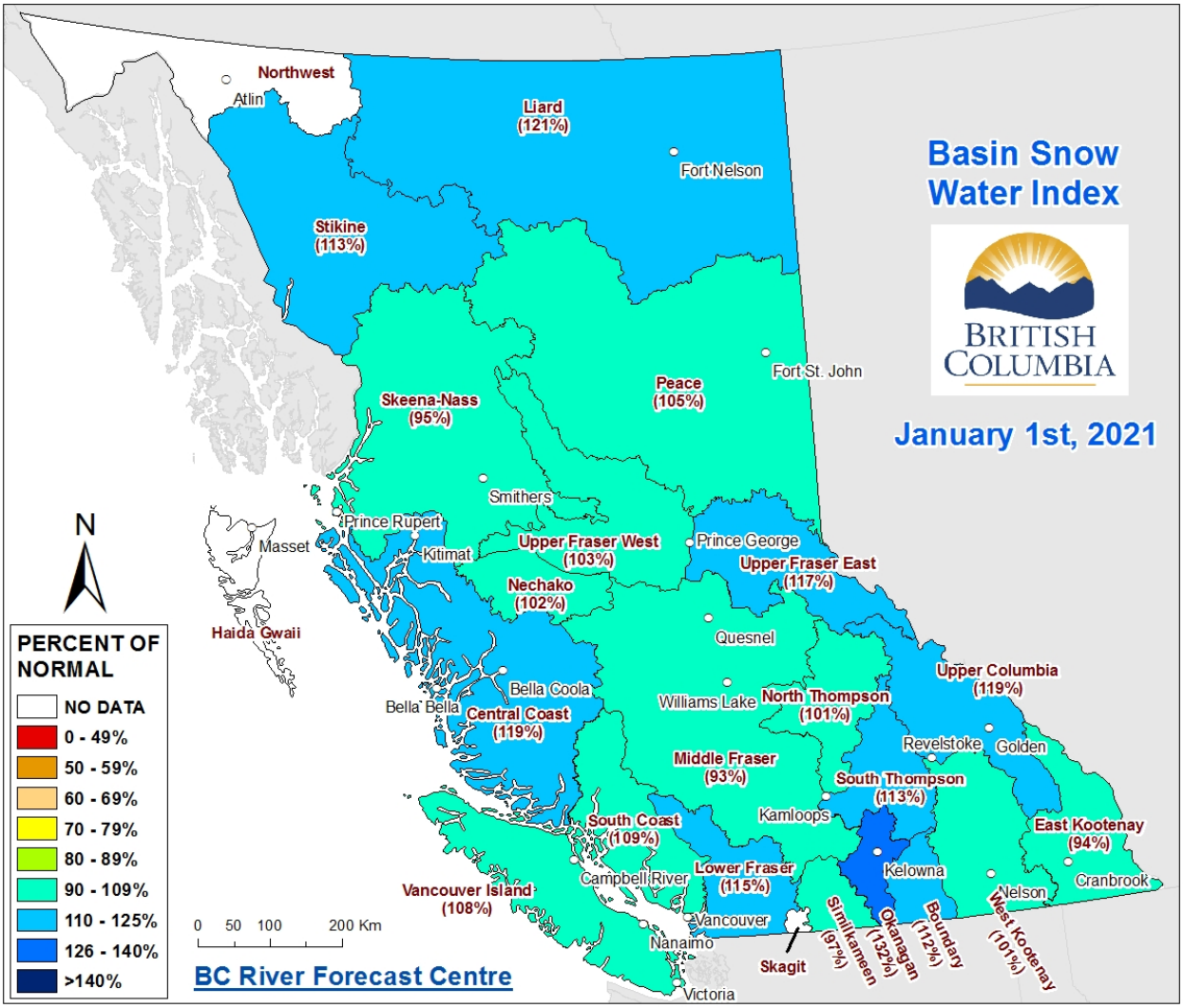
Snow Survey and Water Supply Bulletin – January 1st, 2021

Figure 2: Basin Snow Water Index – January 1st, 2021



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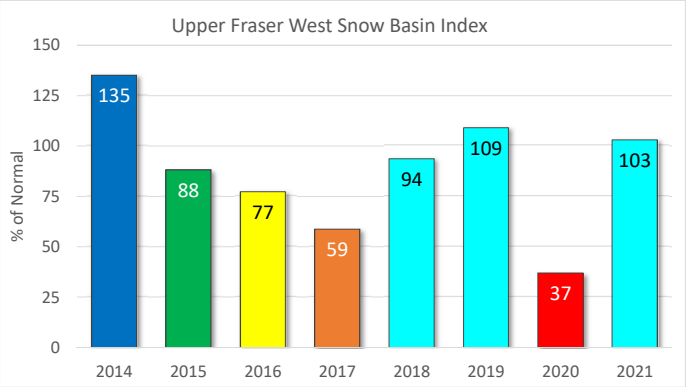
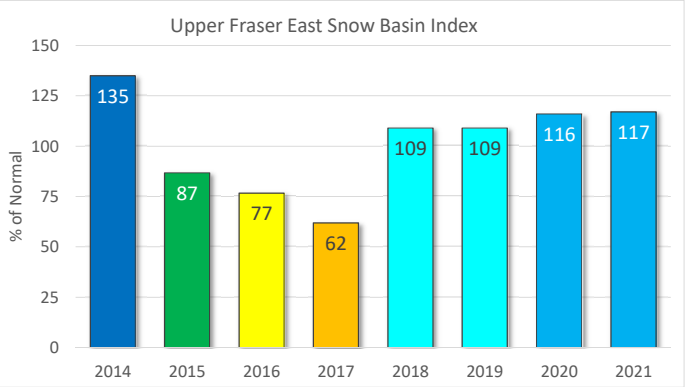
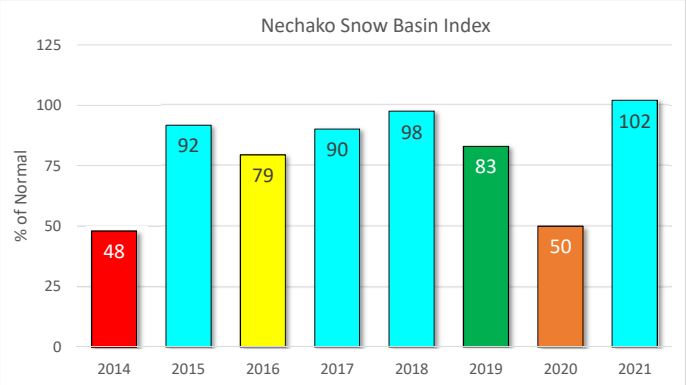
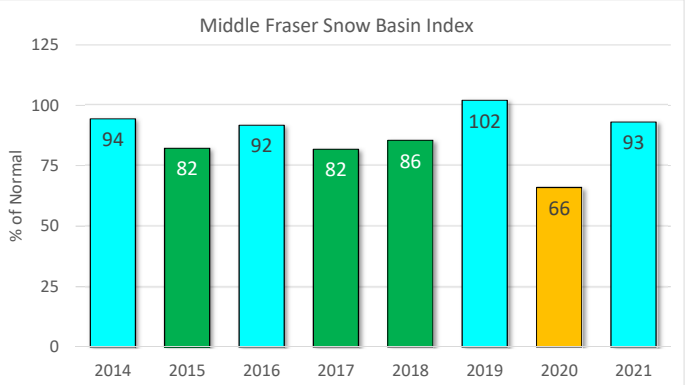
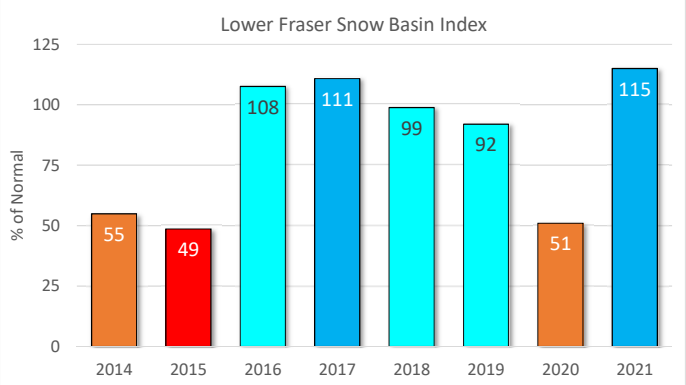
Snow Basin Index Graphs - January 1, 2021

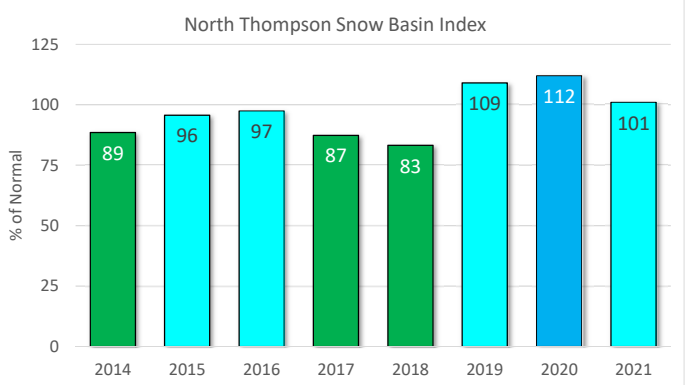


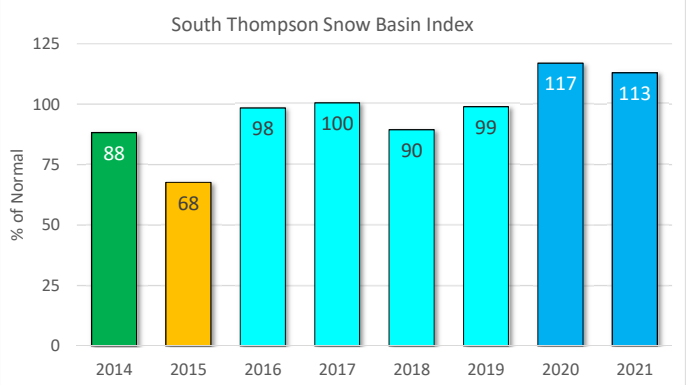


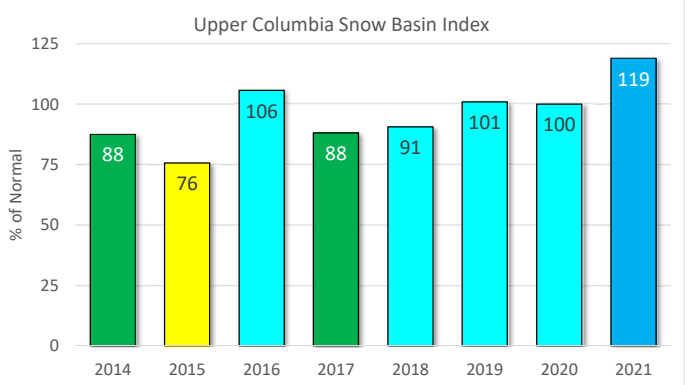




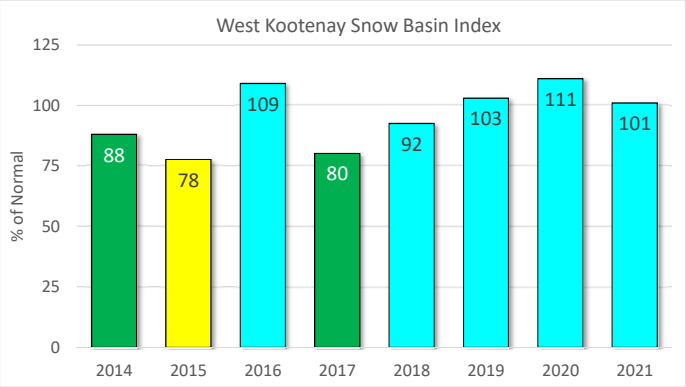


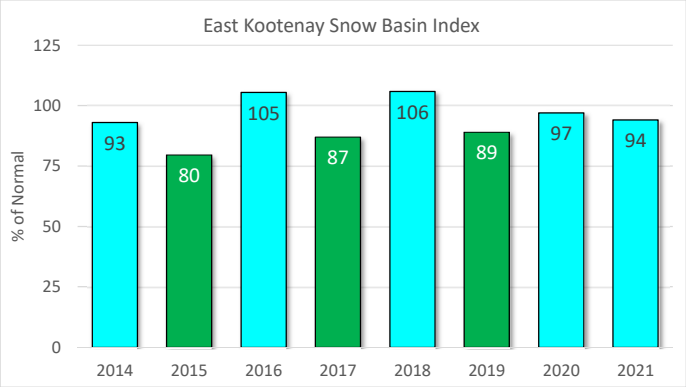


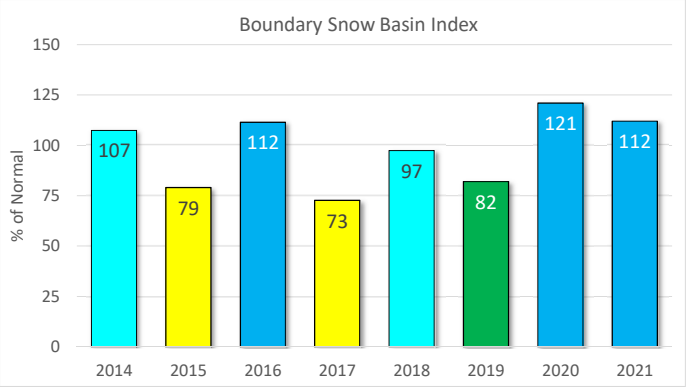


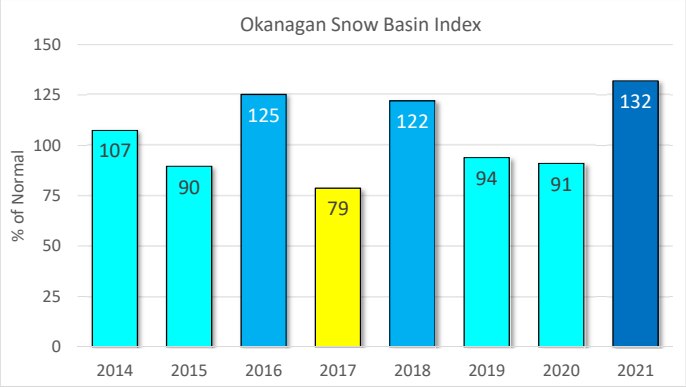


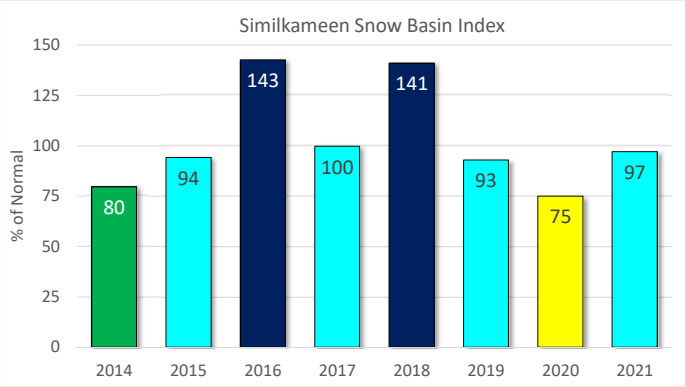
Snow Basin Index Graphs - January 1, 2021

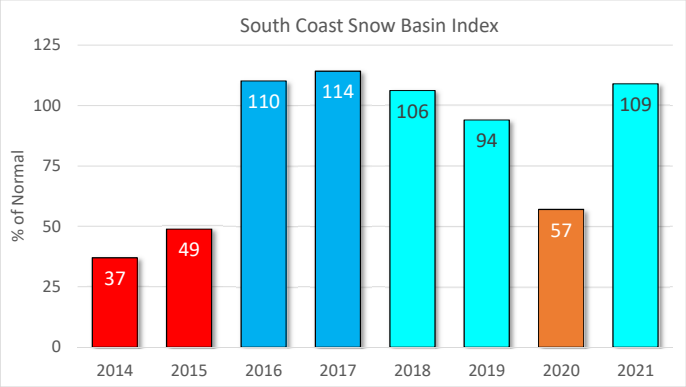


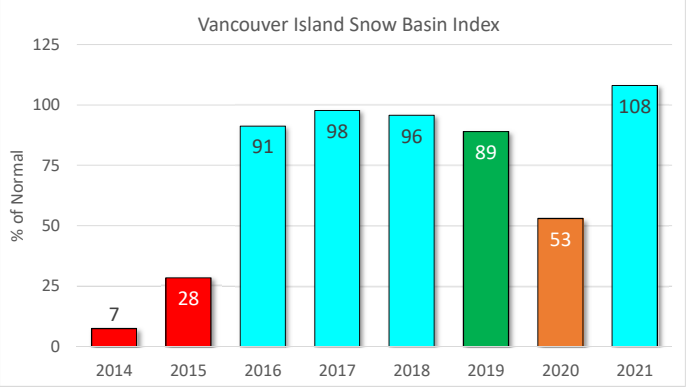


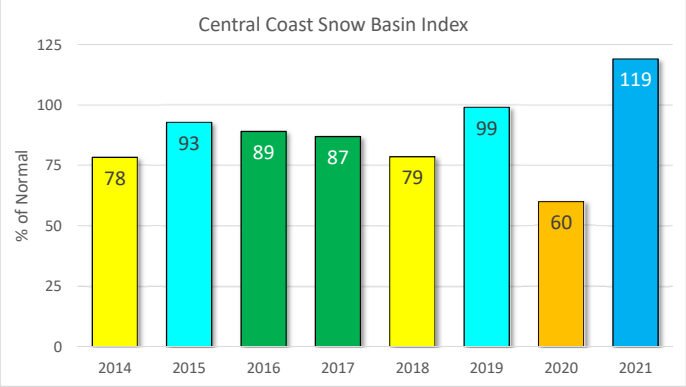




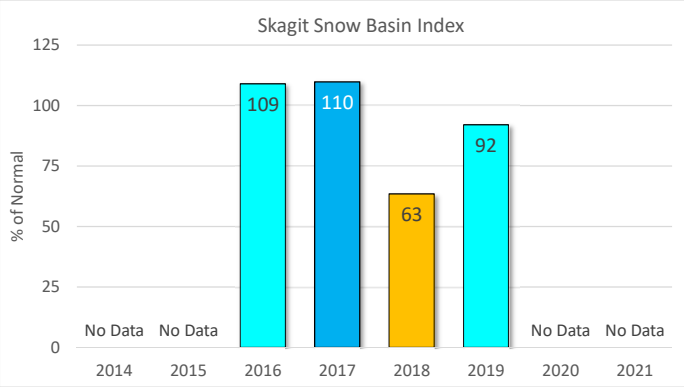


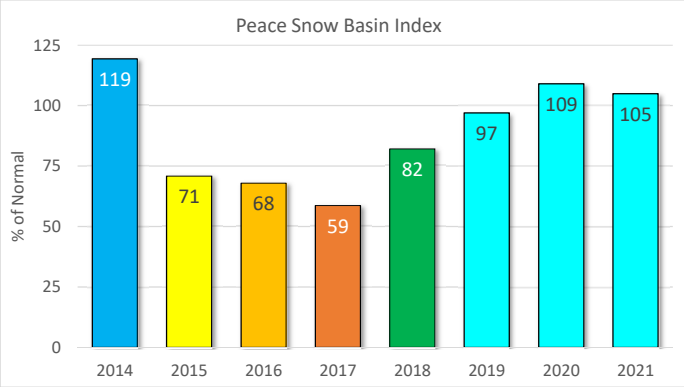


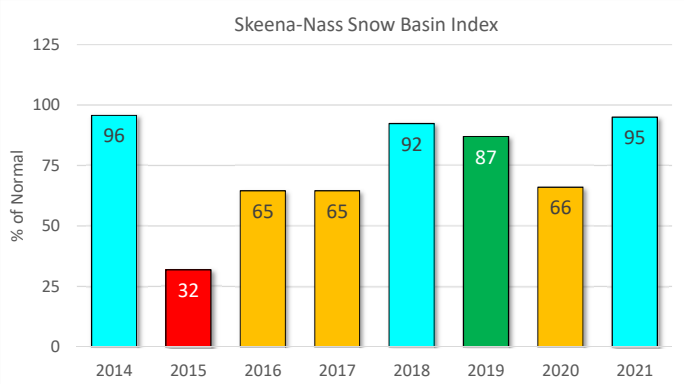


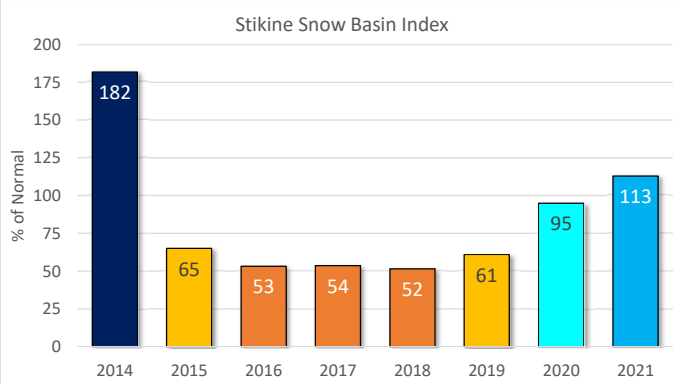


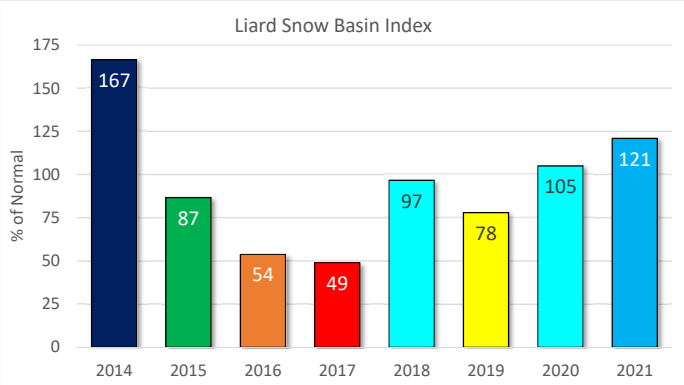
Snow Basin Index Graphs - January 1, 2021











January 1, 2021 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1A01P	Yellowhead Lake	1860	2021-01-01	115	292	25		104%	60	234	N/A	153	259	420	280	22
1A02P	McBride Upper	1611	2021-01-01	90	263	29		113%	75	274	219	112	215	383	233	29
1A03P	Barkerville	1520	2021-01-01	70	163	23		116%	57	192	173	38	150	312	140	42
1A05	LONGWORTH (UPPER)	1693	2020-12-29	158	492	31		122%	76	NS	NS	114	406	700	402	25
1A05P	Longworth Upper	1740	2021-01-01	157	560	36		N/A	N/A	475	485	192	411	485	N/A	4
1A06A	HANSARD	608	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1A10	PRINCE GEORGE A	689	N	N	N	N	N	N/A	N/A	76	86	0	66	156	60	56
1A11	PACIFIC LAKE	755	2020-12-29	144	395	27		125%	80	299	N	56	287	721	316	35
1A14P	Hedrick Lake	1100	2021-01-01	157	383	24		108%	60	357	359	150	359	718	356	21
1A15	KNUDSEN LAKE	1602	2020-12-29	168	503	30		115%	77	NS	NS	125	393	898	439	23
1A15P	Knudsen Lake	1601	2021-01-01	162	584	36		N/A	N/A	349	270	209	310	363	N/A	4
1A17P	Revolution Creek	1690	2021-01-01	167	509	30		128%	81	568	399	183	403	814	397	32
1A19P	Dome Mountain	1774	2021-01-01	135	415	31		114%	76	435	337	215	345	575	366	13
			Average	**138**	**414**	**29**		**116%**	**71**							

Basin Index Calculation		
	Average SWE	379
	Average Normal	326
Upper Fraser East Basin Index - January 1, 2021		**117%**

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A05, 1A11, 1A14P, 1A15, 1A17P, 1A19P

UPPER FRASER WEST			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1A12	KAZA LAKE	1250	N	N	N	N	N	N/A	N/A	NS	NS	92	170	371	175	31
1A12P	Kaza Lake	1257	2021-01-01	87	197	23		N/A	N/A	226	209	116	174	226	N/A	4
1A16	BURNS LAKE	800	2021-01-04	46	82	18		103%	74	26	68	26	68	192	79	43
1A23	BIRD CREEK	1180	NS	NS	NS	NS	NS	N/A	N/A	68	NS	68	74	174	N/A	4
			Average	**67**	**140**	**20**		**103%**	**74**							

Basin Index Calculation		
	Average SWE	82
	Average Normal	79
Upper Fraser West Basin Index - January 1, 2021		**103%**

Stations used in Basin Index:
1A16

NECHAKO			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1B01	MOUNT WELLS	1490	NS	NS	NS	NS	NS	N/A	N/A	227	NS	220	242	465	N/A	4
1B01P	Mount Wells	1490	2021-01-01		366			121%	77	213	276	146	290	516	302	27
1B02	TAHTSA LAKE	1300	NS	NS	NS	NS	NS	N/A	N/A	295	NS	295	528	1084	N/A	4
1B02P	Tahtsa Lake	1300	2021-01-01		604			93%	41	311	572	258	643	1168	646	27
1B05	SKINS LAKE	890	N	N	N	N	N	N/A	N/A	53	53	0	53	127	51	35
1B06	MOUNT SWANNELL	1620	NS	NS	NS	NS	NS	N/A	N/A	132	NS	132	144	247	N/A	4
1B07	NUTLI LAKE	1490	NS	NS	NS	NS	NS	N/A	N/A	130	NS	130	190	527	N/A	4
1B08P	Mt. Pondosy	1400	2021-01-01		421			101%	60	184	355	184	399	687	415	25
			Average	**N/A**	**464**	**N/A**		**105%**	**59**							

Basin Index Calculation		
	Average SWE	464
	Average Normal	454
Nechako Basin Index - January 1, 2021		**102%**

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

LOWER THOMPSON			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1C01	BROOKMERE	980	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	2020-12-30	58	106	18		152%	87	52	54	10	60	146	70	48
1C29	SHOVELNOSE MOUNTAIN	1450	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C29P	Shovelnose Moutain	1460	2021-01-01	60	140	23		N/A	N/A	96	94	94	95	96	N/A	2
1C32	DEADMAN RIVER	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	0	0	55	141	N/A	8
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
			Average	**59**	**123**	**21**		**152%**	**87**							

Basin Index Calculation		
	Average SWE	106
	Average Normal	70
Lower Thompson Basin Index - January 1, 2021		**152%**

Stations used in Basin Index:
1C25

BRIDGE / LILLOOET			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1C05	MCGILLIVRAY PASS	1725	2020-12-28	87	204	23		77%	20	N	273	140	245	458	264	22
1C05P	McGillivray Pass	1718	2021-01-01		298			N/A	N/A	129	285	129	271	285	N/A	3
1C12P	Green Mountain	1780	2021-01-01		315			74%	17	90	492	90	401	756	426	27
1C14	BRALORNE	1389	2020-12-28	25	48	19		63%	13	18	72	18	78	158	77	24
1C14P	Bralorne	1382	2021-01-01	32	86	27		N/A	N/A	134	188	134	188	222	N/A	3
1C18P	Mission Ridge	1850	2021-01-01		266			102%	58	157	210	149	233	659	262	44
1C28	DUFFEY LAKE	1200	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C37	BRALORNE(UPPER)	1981	2020-12-28	94	254	27		82%	33	N	N	116	318	504	309	21
1C38	DOWNTON LAKE (UPPER)	1887	2020-12-28	123	344	28		73%	18	N	N	272	434	690	474	19
1C38P	Downton Lake Upper	1829	2021-01-01		224			N/A	N/A	182	487	182	419	487	N/A	5
1C39	BRIDGE GLACIER (LOWER)	1390	2020-12-28	78	174	22		61%	12	82	388	74	303	466	287	24
1C40	TYAUGHTON CREEK (NORTH)	1947	2020-12-28	89	242	27		105%	58	106	264	92	223	418	231	22
1C40P	North Tyaughton	1969	2021-01-01		238			N/A	N/A	62	224	62	184	240	N/A	5
			Average	**75**	**224**	**25**		**80%**	**29**							

Basin Index Calculation		
	Average SWE	231
	Average Normal	291
Bridge/Lillooet Basin Index - January 1, 2021		**79%**

Stations used in Basin Index:
1C05, 1C12P, 1C14, 1C18P, 1C37, 1C38, 1C39, 1C40

CHILCOTIN			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1C08	NAZKO	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	44	92	43	30
1C21	BIG CREEK	1140	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	10	30	68	30	29
1C22	PUNTZI MOUNTAIN	940	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	34	106	35	45
			Average	**N/A**	**N/A**	**N/A**		**N/A**	**N/A**							

Basin Index Calculation		
	Average SWE	N/A
	Average Normal	N/A
Chilcotin Basin Index - January 1, 2021		**N/A**

Stations used in Basin Index:
N/A

QUESNEL			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1C13A	HORSEFLY MOUNTAIN	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C17	MOUNT TIMOTHY	1660	N	N	N	N	N	N/A	N/A	126	68	38	145	350	163	22
1C20P	Boss Mountain Mine	1460	2021-01-01	128	383	30		135%	88	255	321	55	270	495	284	27
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	525		525	N/A	1
1C33A	GRANITE MOUNTAIN	1150	2021-01-07	47.2	102	22		113%	64	96	97	26	94	158	91	29
1C41P	Yanks Peak East	1670	2021-01-01	133	522	39		129%	92	598	508	206	420	598	406	24
			Average	**103**	**336**	**30**		**125%**	**81**							

Basin Index Calculation		
	Average SWE	336
	Average Normal	260
Quesnel Basin Index - January 1, 2021		**129%**

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

MIDDLE FRASER		
Basin Index Calculation	Average SWE	247
	Average Normal	265
Middle River Basin Index - January 1, 2021		**93%**

Stations used in Basin Index:
1C05, 1C12P, 1C14, 1C18P, 1C20P, 1C25, 1C33A, 1C37, 1C38, 1C39, 1C40, 1C41P

LOWER FRASER			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1D06P	Tenquille Lake	1680	2021-01-01	165	469	28		101%	50	268	552	221	469	795	466	20
1D08	STAVE LAKE	1250	2020-12-28	219	640	29		114%	68	278	600	112	600	976	561	27
1D09	WAHLEACH LAKE	1480	2020-12-28	115	327	28		131%	79	N	180	46	225	417	249	30
1D09P	Wahleach Lake Upper	1480	2021-01-01		478			124%	74	246	314	164	353	640	386	27
1D10	NAHATLATCH RIVER	1550	2020-12-28	171	493	29		80%	27	N	N	219	568	975	617	21
1D16	DICKSON LAKE	1160	2020-12-28	230	780	34		118%	66	N	430	210	640	1196	663	22
1D17P	Chilliwack River	1600	N/A	N/A	N/A	N/A	N/A	N/A	N/A	456	691	353	638	1161	654	28
1D18	DISAPPOINTMENT LAKE	1050	2020-12-28	218	790	36		119%	70	340	N	112	760	1196	666	17
1D18P	Disappointment Lake	1050	2021-01-01	244	853	35	E	129%	82	275	501	275	592	1304	661	12
1D19P	Spuzzum Creek	1180	2021-01-01	226	748	33		125%	77	261	598	198	598	1270	599	22
			Average	**198**	**620**	**32**		**116%**	**66**							

Basin Index Calculation		
	Average SWE	620
	Average Normal	541
Lower Fraser Basin Index - January 1, 2021		**115%**

Stations used in Basin Index:
1D06P, 1D08, 1D09, 1D09P, 1D10, 1D16, 1D18, 1D18P, 1D19P

NORTH THOMPSON			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1E01B	BLUE RIVER	670	2021-01-02	59.4	140	24		94%	38	168	135	50	153	263	149	32
1E02P	Mount Cook	1550	2021-01-01	225	635	28	E	99%	46	683	723	439	675	1075	643	17
1E03A	TROPHY MOUNTAIN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				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	2021-01-01	196	593	30		103%	55	N	N	383	577	769	575	20
1E10P	Kostal Lake	1770	2021-01-01	138	348	25		81%	16	360	472	281	432	615	429	34
1E14P	Cook Creek	1280	2021-01-01	117	340	29		138%	92	326		120	244	364	247	11
			Average	**147**	**411**	**27**		**103%**	**49**							

Basin Index Calculation		
	Average SWE	411
	Average Normal	409
North Thompson Basin Index - January 1, 2021		**101%**

Stations used in Basin Index:
1E01B, 1E02P, 1E08P, 1E10P, 1E14P

SOUTH THOMPSON			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
1F01A	ABERDEEN LAKE	1310	NS	NS	NS	NS		N/A	N/A	138	38	38	84	138	N/A	8
1F02	ANGLEMONT	1190	NS	NS	NS	NS		N/A	N/A	NS	NS	164		164	N/A	1
1F03P	Park Mountain	1890	2021-01-01	154	460	30		112%	77	519	389	256	392	632	410	36
1F04P	Enderby	1950	2021-01-01	202	518	26		N/A	N/A	499	500	420	500	552	N/A	4
1F06P	Celista Mountain	1500	2021-01-01	167	482	29		114%	86	461	482	305	443	506	422	15
			Average	**174**	**487**	**28**		**113%**	**82**							

Basin Index Calculation		
	Average SWE	471
	Average Normal	416
South Thompson Basin Index - January 1, 2021		**113%**

Stations used in Basin Index:
1F03P, 1F06P

FRASER RIVER

Basin Index Calculation		
	Average SWE	403
	Average Normal	372
Fraser River Basin Index - January 1, 2021		**108%**

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A05, 1A11, 1A12, 1A14P, 1A15, 1A17P, 1A19P, 1B01P, 1B02P, 1B08P, 1C05, 1C12P, 1C14, 1C18P, 1C20P, 1C25, 1C33A, 1C37, 1C38, 1C39, 1C40, 1C41P, 1D06P, 1D08, 1D09, 1D09P, 1D10, 1D16, 1D18, 1D18P, 1D19P, 1E01B, 1E02P, 1E08P, 1E10P, 1E14P, 1F03P, 1F06P

UPPER COLUMBIA			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
2A02	GLACIER	1250	2020-12-29	136	416	31		134%	92	407	330	147	310	519	310	50
2A03A	FIELD	1285	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	38	91	127	83	12
2A06P	Mount Revelstoke	1850	2021-01-01		633			112%	78	623	616	293	568	861	568	27
2A07	KICKING HORSE	1650	2020-12-30	74.9	156	21	A	107%	50	186	159	66	157	257	145	41
2A11	BEAVERFOOT	1890	N	N	N	N	N	N/A	N/A	100	70	52	100	215	105	35
2A14	MOUNT ABBOT	2010	2020-12-27	238	631	27		105%	64	597	710	298	589	1065	601	36
2A16	GOLDSTREAM	1920	2021-01-05	236	714	30	A	124%	92	559	546	355	560	906	578	33
2A17	FIDELITY MOUNTAIN	1870	2020-12-26	235	736	31		122%	83	656	625	331	590	1228	603	46
2A18	KEYSTONE CREEK	1890	N	N	N	N	N	N/A	N/A	333	366	217	385	577	398	33
2A18P	Keystone Creek	1840	2021-01-01		474			N/A	N/A	402	500	402	475	518	N/A	5
2A19	VERMONT CREEK	1520	N	N	N	N	N	N/A	N/A	166	184	91	202	328	209	34
2A21P	Molson Creek	1935	2021-01-01		635			111%	70	538	602	285	539	1072	573	40
2A22	SUNBEAM LAKE	2010	2021-01-05	210	637	30		133%	95	449	435	243	469	767	478	33
2A23	BUSH RIVER	1920	2021-01-05	174	523	30		117%	84	N	393	216	450	722	448	33
2A25	KIRBYVILLE LAKE	1750	N	N	N	N	N	N/A	N/A	509	607	351	599	830	609	33
2A27	DOWNIE SLIDE (LOWER)	980	2021-01-05	164	436	27		139%	92	332	308	166	301	504	314	30
2A29	DOWNIE SLIDE (UPPER)	1630	2021-01-05	268	804	30		117%	80	N	734	335	642	1022	688	29
2A30P	Colpitti Creek	2131	2021-01-01		499			N/A	100	399	438	204	403	491	N/A	11
2A31P	Caribou Creek Upper	2201	2021-01-01		514			N/A	N/A	408	446	408	465	511	N/A	5
2A32P	Wildcat Creek	2122	2021-01-01		371			N/A	N/A	358	370	258	295	370	N/A	5
			Average	**N/A**	**545**	**N/A**		**120%**	**82**							

Basin Index Calculation		
	Average SWE	561
	Average Normal	473
Upper Columbia Basin Index - January 1, 2021		**119%**

Stations used in Basin Index:
2A02, 2A06P, 2A07, 2A14, 2A16, 2A17, 2A21P, 2A22, 2A23, 2A27, 2A29

WEST KOOTENAY			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
2B02A	FARRON	1220	2021-01-07	85	184	22		128%	92	108	142	40	143	330	144	36
2B05	WHATSHAN (UPPER)	1525	2020-12-29	121	259	21		84%	32	418	255	169	289	543	307	27
2B06P	Barnes Creek	1620	2021-01-01		306			119%	83	385	289	130	249	405	258	28
2B07	KOCH CREEK	1860	2020-12-29	112	287	26	A	80%	25	337	348	170	336	473	357	23
2B08P	St. Leon Creek	1800	2021-01-01		559			114%	79	682	548	221	486	855	489	26
2B09	RECORD MOUNTAIN	1890	2021-01-04	133	318	24		95%	45	293	338	134	319	575	335	32
2D02	FERGUSON	880	2020-12-31	104	270	26		107%	60	270	300	93	254	409	253	41
2D03	SANDON	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	157		157	N/A	1
2D04	NELSON	930	2020-12-29	56	139	25		88%	38	98	144	66	152	366	157	60
2D05	GRAY CREEK (LOWER)	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	69	182	372	N/A	21
2D06	CHAR CREEK	1310	2020-12-31	71	155	22		67%	15	117	221	110	224	480	233	37
2D07A	DUNCAN LAKE NO. 2	630	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2D07AP	Duncan Lake Dam 2	559	2021-01-01	16	41	26		N/A	N/A	105		105		105	N/A	1
2D08P	East Creek	2030	2021-01-01		499			114%	74	485	503	206	418	858	438	40
2D09	MOUNT TEMPLEMAN	1860	N	N	N	N	N	N/A	N/A	N	N	277	520	902	536	21
2D10	GRAY CREEK (UPPER)	1940	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	222	353	634	N/A	13
2D10P	GRAY CREEK (UPPER)	1930	2021-01-01	130	376	29		N/A	N/A						N/A	0
2D14P	Redfish Creek	2104	2021-01-01	182	618	34		104%	47	689	624	364	624	751	597	19
			Average	**101**	**309**	**25**		**100%**	**54**							

Basin Index Calculation		
	Average SWE	327
	Average Normal	324
West Kootenay Basin Index - January 1, 2021		**101%**

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

EAST KOOTENAY			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 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	2020-12-29	62	146	24		118%	75	68	182	29	114	226	123	34
2C09Q	Morrissey Ridge	1860	2021-01-01		179			62%	7	240	215	123	262	706	291	36
2C10P	Moyie Mountain	1930	2021-01-01	55	168	31		92%	43	197	153	76	176	354	183	41
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	2021-01-01		392			113%	70	380	327	172	334	510	346	26
2C15	MOUNT ASSINIBOINE	2230	N	N	N	N	N	N/A	N/A	255	251	111	270	567	273	34
2C16	MOUNT JOFFRE	1750	N	N	N	N	N	N/A	N/A	195	107	73	161	364	176	31
2C17	THUNDER CREEK	2010	N	N	N	N	N	N/A	N/A	132	99	61	122	276	133	33
			Average	**59**	**221**	**N/A**		**96%**	**49**							

Basin Index Calculation		
	Average SWE	221
	Average Normal	236
East Kootenay Basin Index - January 1, 2021		**94%**

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

BOUNDARY			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
2E01	MONASHEE PASS	1370	2020-12-29	72	179	25		113%	70	245	140	84	159	245	158	36
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	2021-01-01	85	228	27		110%	72	223	177	93	199	319	207	23
			Average	**79**	**204**	**26**		**112%**	**71**							

Basin Index Calculation	Average SWE	204
	Average Normal	182
Boundary Basin Index - January 1, 2021		**112%**

Stations used in Basin Index:
2E01, 2E07P

OKANAGAN			**January 1, 2021 Data**					**Jan 1, 2021 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 (1981-2010)**	**Percentile of Historic Record**	**2020 SWE (mm)**	**2019 SWE (mm)**	**Minimum SWE (mm)**	**Median SWE (mm)**	**Maximum SWE (mm)**	**1991-2020 Normal SWE (mm)**	**Years of Record**
2F01A	TROUT CREEK (West)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	68		140	N/A	3
2F01AP	Trout Creek West	1420	2021-01-01	78	151	19		N/A	N/A	110	83	83	110	136	N/A	3
2F02	SUMMERLAND RESERVOIR	1280	2021-01-05	76.5	163	21		151%	89	110	102	42	106	198	108	56
2F03	MCCULLOCH	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	28	86	144	N/A	31
2F04	GRAYSTOKE LAKE	1840	2021-01-06	86.6	232	27		151%	96	N	162	96	144	278	154	15
2F05P	Mission Creek	1780	2021-01-01	103	335	33		146%	95	273	219	104	219	364	229	51
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	2021-01-01	49	110	22		N/A	N/A	121	81	81	112	137	N/A	4
2F09	WHITEROCKS MOUNTAIN	1830	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	122	259	447	N/A	22
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	2021-01-01	156	476	31		N/A	N/A	483	418	314	359	483	N/A	5
2F11	ISINTOK LAKE	1680	2021-01-06	43	83	19		109%	57	60	58	16	77	196	76	54
2F12	MOUNT KOBAU	1810	2020-12-29	50.5	113	22		87%	51	88	87	28	113	261	129	42
2F13	ESPERON CR (UPPER)	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	156	229	457	N/A	4
2F14	ESPERON CR (MIDDLE)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F18P	Brenda Mine	1460	2021-01-01		213			128%	81	126	130	112	151	302	166	25
2F19	OYAMA LAKE	1340	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F19P	OYAMA LAKE		2021-01-01	66	148	22		N/A	N/A							
2F20	VASEUX CREEK	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	32	60	117	N/A	19
2F21	BOULEAU LAKE	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	160		351	N/A	2
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	2021-01-05	100	224			N/A	N/A	NS	NS				N/A	0
2F25	POSTILL LAKE UPPER	1540	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
			Average	**81**	**204**	**24**		**129%**	**78**							

Basin Index Calculation	Average SWE	190
	Average Normal	144
Okanagan Basin Index - January 1, 2021		**132%**

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

SIMILKAMEEN			**January 1, 2021 Data**					**Jan 1, 2021 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 (1981-2010)**	**Percentile of Historic Record**	**2020 SWE (mm)**	**2019 SWE (mm)**	**Minimum SWE (mm)**	**Median SWE (mm)**	**Maximum SWE (mm)**	**1991-2020 Normal SWE (mm)**	**Years of Record**
2G03P	Blackwall Peak	1940	2021-01-01	136	384	28		97%	60	286	353	108	354	923	398	53
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	**136**	**384**	**28**		**97%**	**60**							

Basin Index Calculation	Average SWE	384
	Average Normal	398
Similkameen Basin Index - January 1, 2021		**97%**

Stations used in Basin Index:
2G03P

SOUTH COAST			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
3A01	GROUSE MOUNTAIN	1100	2020-12-29	201	685	34		132%	73	314	476	24	470	878	521	40
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
3A09	PALISADE LAKE	880	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	86		334	N/A	2
3A09P	Palisade Lake	900	2021-01-01	189.9	636	33		N/A	N/A	206	475	206		475	N/A	2
3A10	DOG MOUNTAIN	1080	2020-12-28	183	650	36		131%	71	208	414	78	518	897	497	34
3A19	ORCHID LAKE	1190	2020-12-28	246	790	32		112%	59	440	660	180	677	1360	708	34
3A20	CALLAGHAN CREEK	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	100	297	638	N/A	12
3A20P	Callaghan	1017	2021-01-01	172.6	404	23		N/A	N/A	244	481	244		481	N/A	2
3A22P	Nostetuko River	1500	2021-01-01	68	224	33		87%	45	108	221	32	242	540	257	28
3A24P	Mosley Creek Upper	1650	2021-01-01	52	132	25		70%	15	123	178	85	178	491	188	31
3A25P	Squamish River Upper	1340	2021-01-01	237	643	27		92%	47	457	789	289	662	1160	697	30
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	2021-01-01	275	739	27		N/A	N/A		601	601		744	N/A	2
			Average	**181**	**545**	**30**		**104%**	**52**							

Basin Index Calculation		
	Average SWE	521
	Average Normal	478
South Coast Basin Index - January 1, 2021		**109%**

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

VANCOUVER ISLAND			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
3B01	FORBIDDEN PLATEAU	1100	N	N	N	N	N	N/A	N/A	452	640	0	601	1287	618	37
3B02A	MOUNT COKELY	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3B04	ELK RIVER	270	N	N	N	N	N	N/A	N/A	18	18	0	29	264	46	34
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	2021-01-01		432			78%	31	212	540	141	561	1057	550	33
3B18	WOLF RIVER (MIDDLE)	990	N	N	N	N	N	N/A	N/A	325	224	0	224	590	264	31
3B19	WOLF RIVER (LOWER)	640	N	N	N	N	N	N/A	N/A	116	134	0	144	388	168	28
3B23P	Jump Creek	1160	2021-01-01	190	606	32		148%	75	134	325	6	356	1054	409	23
3B24P	Heather Mountain Upper	1190	2021-01-01	201	691	34		N/A	N/A	283	434	283	558	661	N/A	5
3B26P	Mount Arrowsmith	1465	2021-01-01	182	493	27		N/A	N/A	170	402	170	376	402	N/A	3
			Average	**191**	**556**	**31**		**113%**	**53**							

Basin Index Calculation		
	Average SWE	519
	Average Normal	480
Vancouver Island Basin Index - January 1, 2021		**108%**

Stations used in Basin Index:
3B17P, 3B23P

458.5
113%

CENTRAL COAST			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
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	2021-01-01	148	483	33		119%	73	258	427	146	390	696	404	22
			Average	**148**	**483**	**33**		**119%**	**73**							

Basin Index Calculation		
	Average SWE	483
	Average Normal	404
Central Coast Basin Index - January 1, 2021		**119%**

Stations used in Basin Index:
3C08P

SKAGIT			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
3D01C	SUMALLO RIVER WEST	790	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	47		82	N/A	2
3D02	LIGHTNING LAKE	1220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3D03A	KLESILKWA	1175	N	N	N	N	N	N/A	N/A	N	113	0	113	386	121	28
			Average	**N/A**	**N/A**	**N/A**		**N/A**	**N/A**							

Basin Index Calculation		
	Average SWE	N/A
	Average Normal	N/A
Skagit Basin Index - January 1, 2021		**N/A**

Stations used in Basin Index:
N/A

PEACE			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
4A02P	Pine Pass	1400	2021-01-01	233	721	31		134%	82	598	540	259	549	1016	540	30
4A03	WARE (UPPER)	1575	2021-01-05	59	125	21		87%	35	161	128	64	136	248	144	31
4A03P	Ware Upper	1565	2021-01-01	53	112	21		N/A	N/A	138	127	101	133	139	N/A	4
4A04	WARE (LOWER)	970	2021-01-05	50	95	19		90%	44	124	100	46	105	240	106	29
4A04P	Ware Lower	971	2021-01-01	38	88	23		N/A	N/A	105	116	68	111	117	N/A	4
4A05	GERMANSEN (UPPER)	1480	2021-01-03	89	214	24		110%	74	239	231	93	174	364	195	37
4A06	TUTIZZI LAKE	1045	2021-01-03	74	146	20		109%	68	153	140	69	134	223	133	30
4A07	LADY LAURIER LAKE	1440	N	N	N	N	N	N/A	N/A	230	223	140	245	472	280	36
4A09	PULPIT LAKE	1335	2021-01-05	86	200	23		87%	38	280	N	130	221	398	231	31
4A09P	Pulpit Lake	1311	2021-01-01	57	151	26		65%	10	250	187	129	232	366	231	30
4A10	FREDRICKSON LAKE	1325	2020-01-04	61	130	21		100%	59	205	146	54	120	250	130	30
4A11	TRYGVE LAKE	1410	2021-01-05	75	154	21		84%	32	246	177	119	173	299	183	29
4A12	TSAYDAYCHI LAKE	1190	2021-01-03	119	299	25		129%	86	253	256	128	206	393	232	37
4A13	PHILIP LAKE	1035	2021-01-03	87	175	20		109%	72	141	209	48	137	288	161	37
4A13P	Philip Lake	1028	2021-01-01		165			N/A	N/A	117		117		117	N/A	1
4A16	MORFEE MOUNTAIN	1430	2021-01-03	169	498	29		116%	73	508	434	199	440	710	429	24
4A18	MOUNT SHEBA	1490	N	N	N	N	N	N/A	N/A	494	N	106	447	793	446	31
4A18P	MOUNT SHEBA	1484	2021-01-01	186	547	29		N/A	N/A	565	505	505		565	N/A	2
4A20	MONKMAN CREEK	1570	2020-12-29	92	282	31		102%	59	220	218	107	236	546	277	24
4A20P	Monkman Creek	1570	2021-01-01		210			N/A	N/A	190	240	190		240	N/A	2
4A21	MOUNT STEARNS	1505	2020-01-06	36	64	18		79%	24	64	79	14	76	151	81	30
4A25	FORT ST. JOHN A	690	2021-01-06	18.3	48	26		86%	51	48	84	0	46	134	56	40
4A27P	Kwadacha North	1554	2021-01-01	68	154	23		94%	45	210	146	82	160	307	163	31
4A30P	Aiken Lake	1050	2021-01-01		125			94%	50	140	129	71	125	262	133	33
4A31P	Crying Girl Prairie	1358	2021-01-01		112			N/A	N/A	68	133	68	117	133	N/A	5
4A33P	Muskwa-Kechika	1196	2021-01-01		70			N/A	N/A	17	69	17	69	75	N/A	5
4A34P	Dowling Creek	1456	2021-01-01		775			N/A	N/A	113	210	113	256	463	N/A	4
4A36P	Parsnip Upper	790	2021-01-01		202			N/A	N/A	118	197	118		197	N/A	2
4A37P	McQue Terrace	1200	2021-01-01		50			N/A	N/A	56		56		56	N/A	1
			Average	**87**	**219**	**24**		**99%**	**53**							

Basin Index Calculation		
	Average SWE	211
	Average Normal	201
Peace Basin Index - January 1, 2021		**105%**

Stations used in Basin Index:
4A02P, 4A03, 4A04, 4A05, 4A06, 4A09, 4A09P, 4A10, 4A11, 4A12, 4A13, 4A16, 4A20, 4A21, 4A25, 4A27P, 4A30P

SKEENA-NASS			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
4B01	KIDPRICE LAKE	1370	NS	NS	NS	NS	NS	N/A	N/A	298	NS	369	415	894	N/A	4
4B02	JOHANSON LAKE	1420	2021-01-04	76	160	21		99%	54	225	164	84	154	282	162	36
4B03A	HUDSON BAY MTN.	1480	2020-12-31	107	278	26		102%	63	190	274	135	261	470	271	45
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
4B10	NINGUNSAW PASS	690	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	277		277	N/A	1
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	NS	0	62	264	81	34
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	11
4B15P	Lu Lake	1300	2021-01-01	74	189	26		131%	89	106	153	49	144	293	144	22
4B16P	Shedin Creek	1480	2021-01-01	126	300	24		80%	41	293	317	195	376	596	377	24
4B17P	Tsai Creek	1360	2021-01-01	173	475	27		86%	24	288	532	288	516	970	552	23
4B18P	Cedar-Kiteen	885	2021-01-01	98	302	31		107%	65	154	218	90	218	563	282	19
			Average	**109**	**284**	**26**		**101%**	**56**							

Basin Index Calculation		
	Average SWE	309
	Average Normal	325
Skeena-Nass Basin Index - January 1, 2021		**95%**

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

LIARD			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
4C01	SIKANNI LAKE	1385	2021-01-05	74	164	22		121%	75	152	113	44	132	257	136	35
4C01P	Sikanni Lake	1387	2021-01-01	65	147	23		N/A	N/A	154	119	72	137	161	N/A	4
4C02	SUMMIT LAKE	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	6	45	83	N/A	4
4C03	DEASE LAKE	820	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	20	60	168	71	47
4C05	FORT NELSON AIRPORT	380	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	4	49	112	49	49
			Average	**70**	**156**	**22**		**121%**	**75**							

Basin Index Calculation		
	Average SWE	164
	Average Normal	136
Liard Basin Index - January 1, 2021		**121%**

Stations used in Basin Index:
4C01

STIKINE			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
4D02	ISKUT	1000	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	76		76	N/A	1
4D10P	Tumeka Creek	1220	2021-01-01		290			98%	42	301	193	167	315	591	296	22
4D11P	Kinaskan Lake	1020	2021-01-01		256			136%	83	216	123	95	178	378	188	22
			Average	**N/A**	**273**	**N/A**		**117%**	**63**							

Basin Index Calculation		
	Average SWE	273
	Average Normal	242
Stikine Basin Index - January 1, 2021		**113%**

Stations used in Basin Index:
4D10P, 4D11P

NORTHWEST			January 1, 2021 Data					Jan 1, 2021 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 (1981-2010)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020 Normal SWE (mm)	Years of Record
4E01	LOG CABIN	900	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4E02B	ATLIN LAKE	730	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
			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 - January 1, 2021		**N/A**

Stations used in Basin Index:
N/A

BRITISH COLUMBIA

Basin Index Calculation		
	Average SWE	359
	Average Normal	331
British Columbia Basin Index - January 1, 2021		**108%**

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