

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 report¹.

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, 2021 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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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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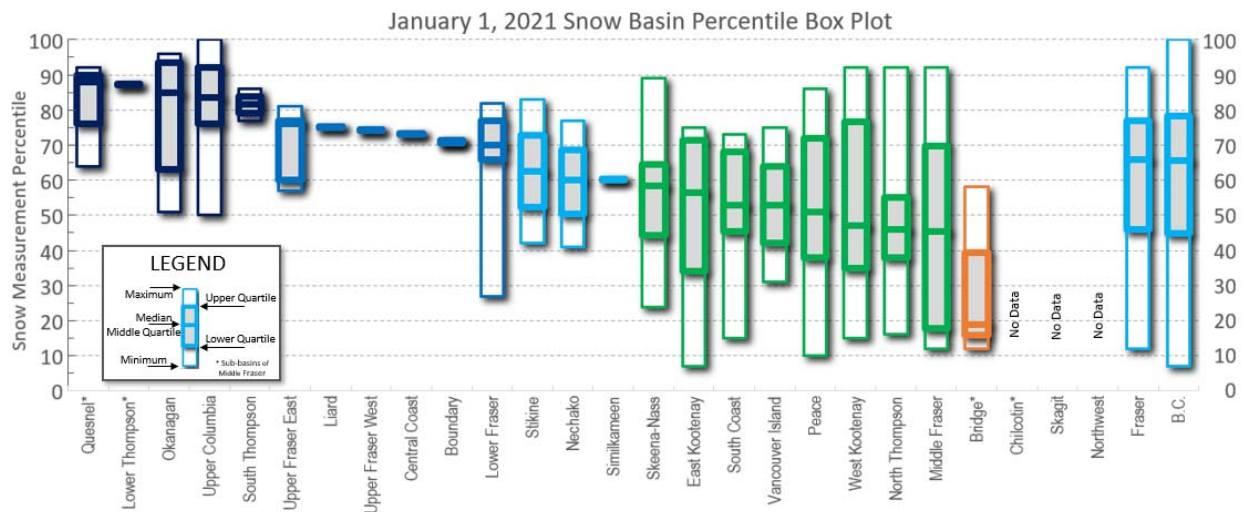
East Kootenay	94 (97)	Liard	121 (105)
Okanagan	132 (91)	Fraser	108 (74)
		British Columbia	108 (84)

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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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.

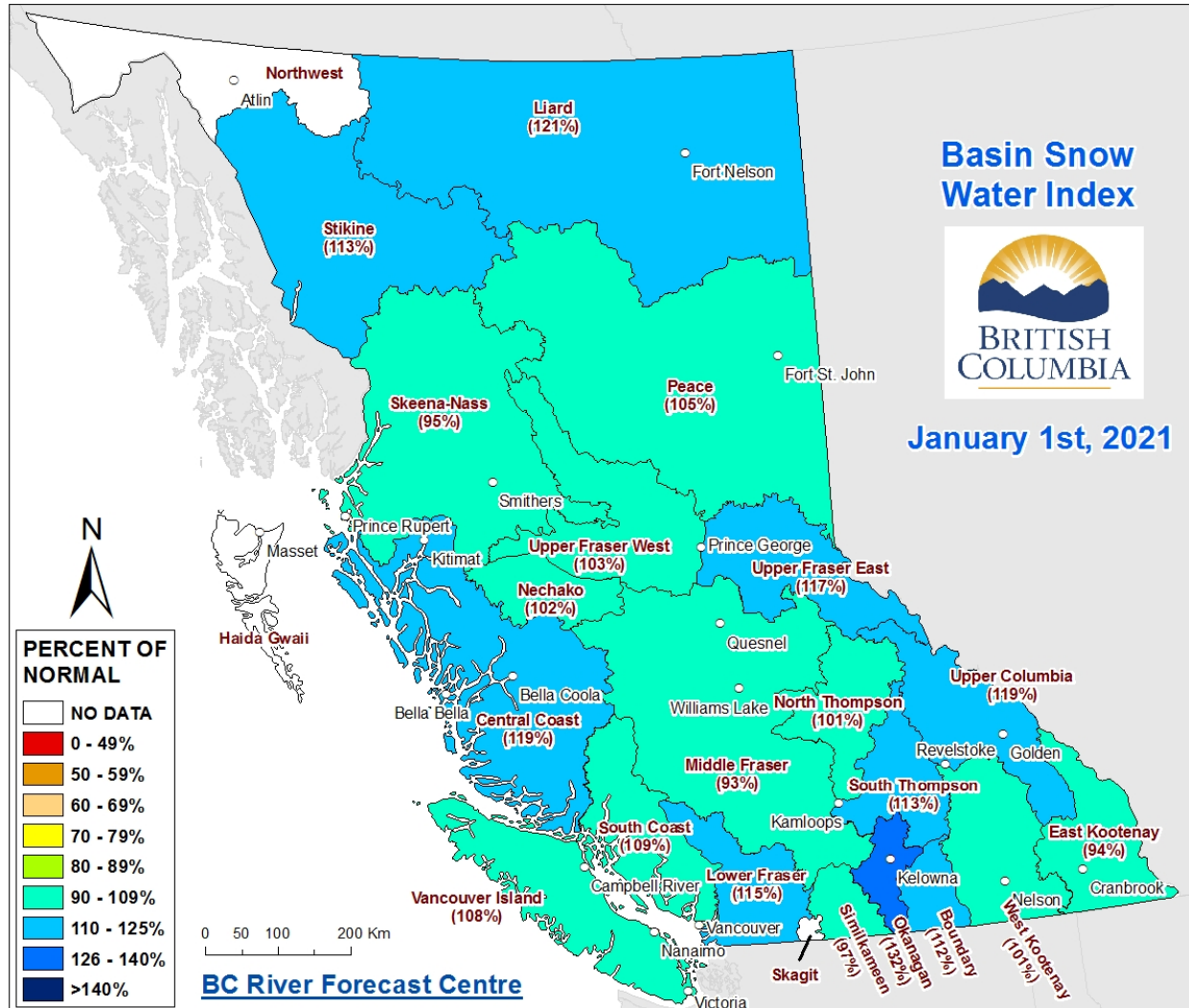
By early January, nearly half of the annual B.C. snow pack has typically accumulated. Snow pack throughout the province shows little variability with percent of normal ranging from 93 to 132%. Two strong storms have already affected the South Coast and Vancouver Island in early January, with snow accumulation 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

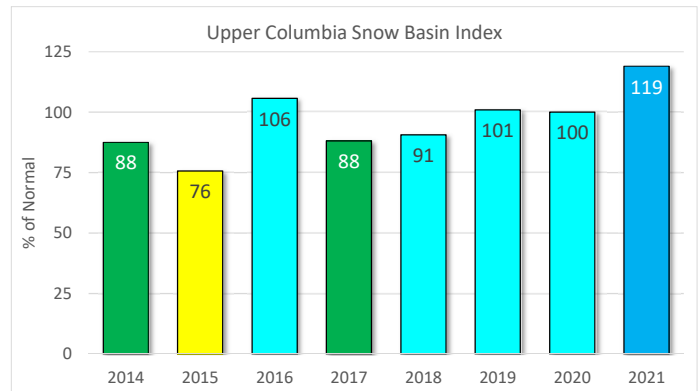
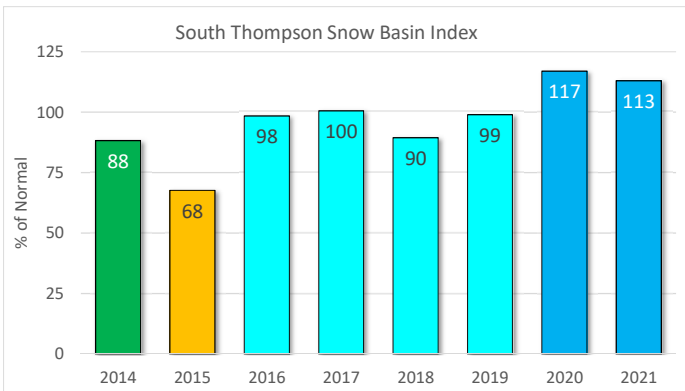
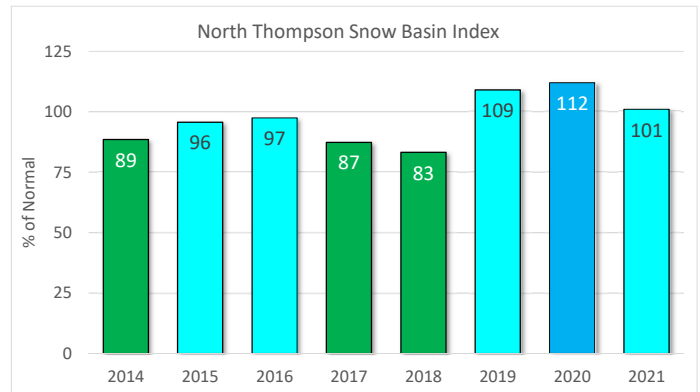
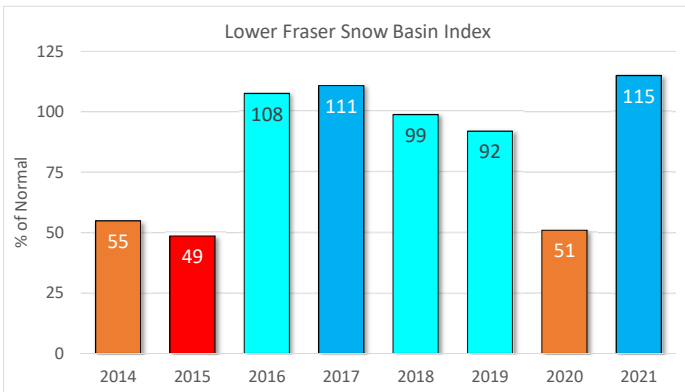
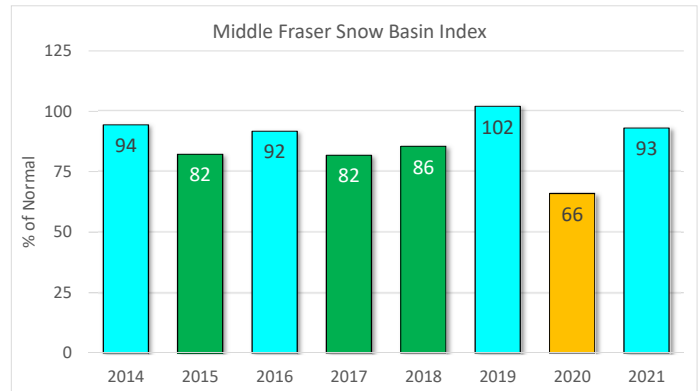
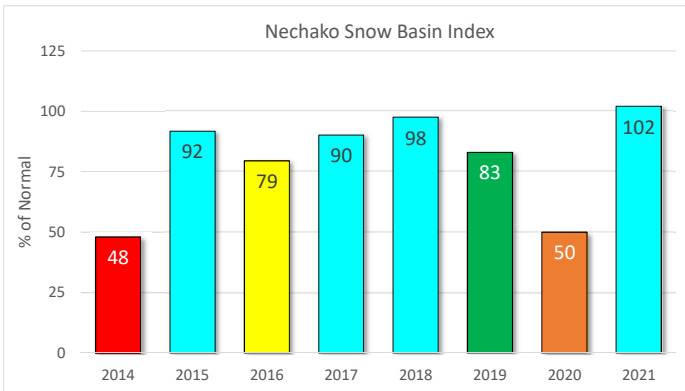
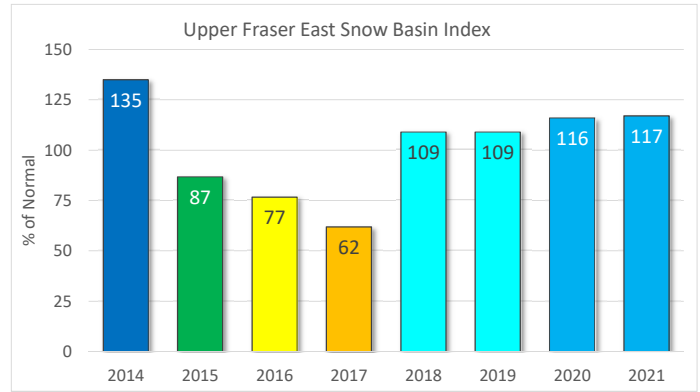
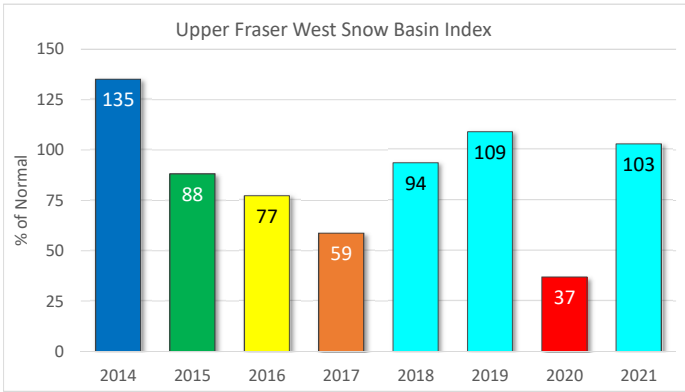
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Figure 2: Basin Snow Water Index – January 1st, 2021

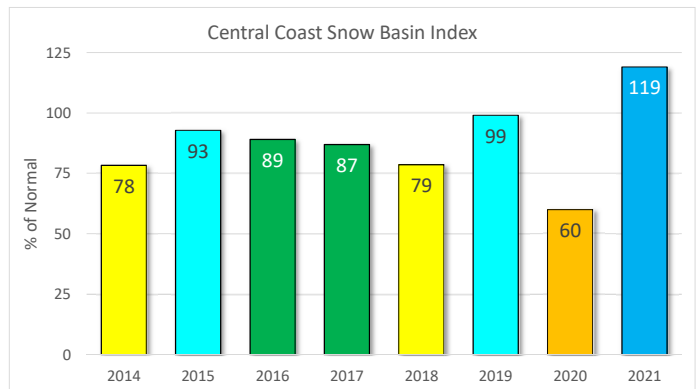
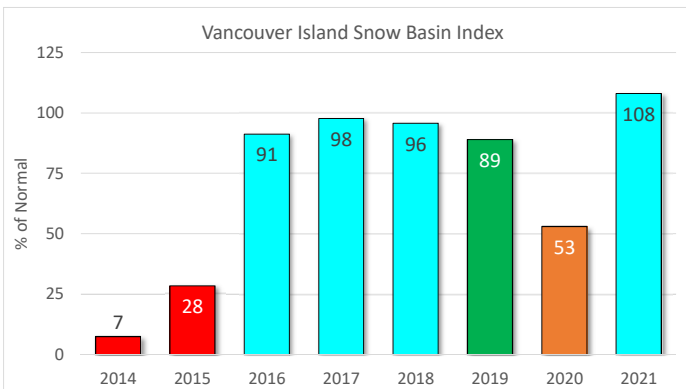
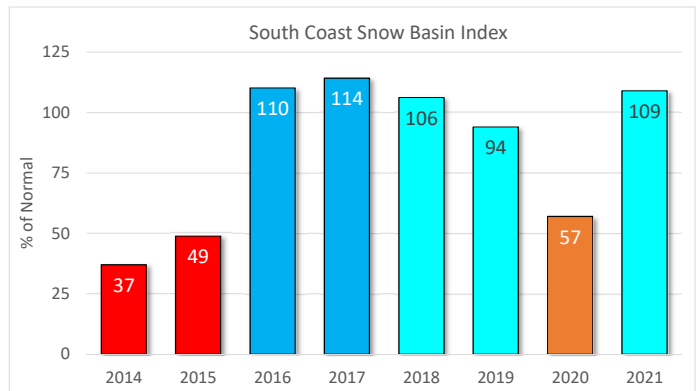
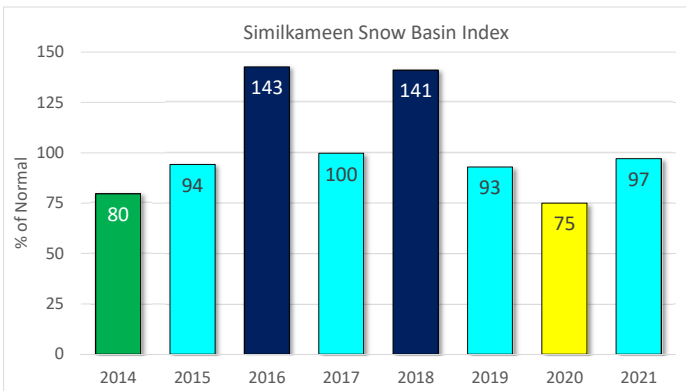
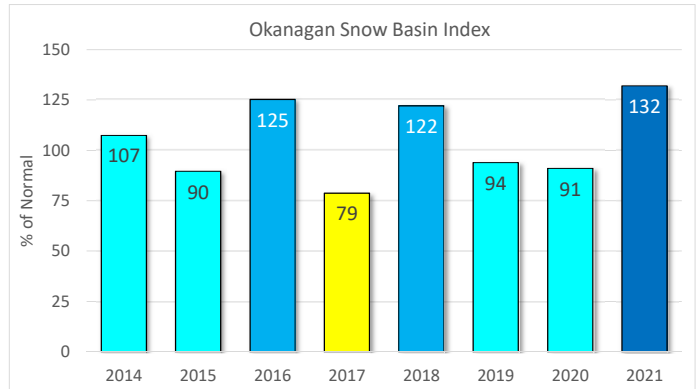
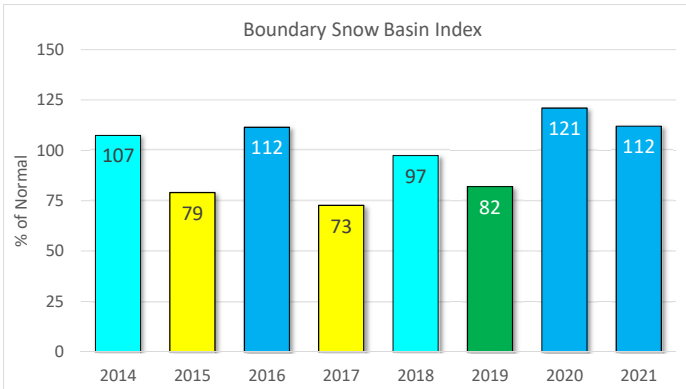
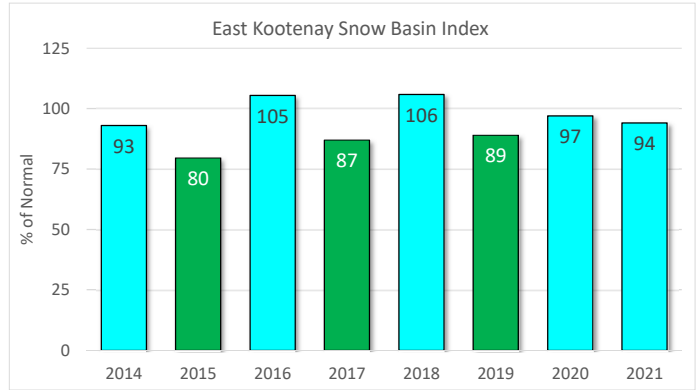
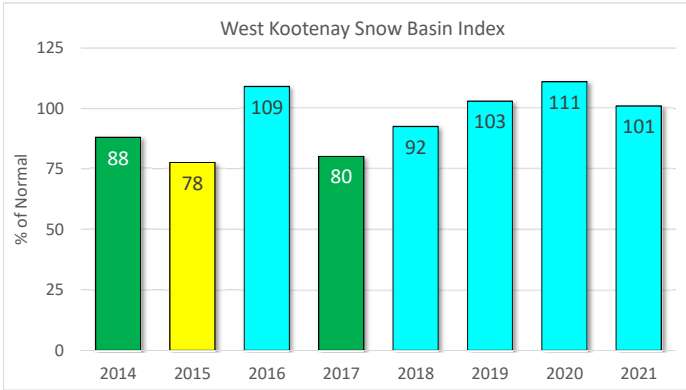


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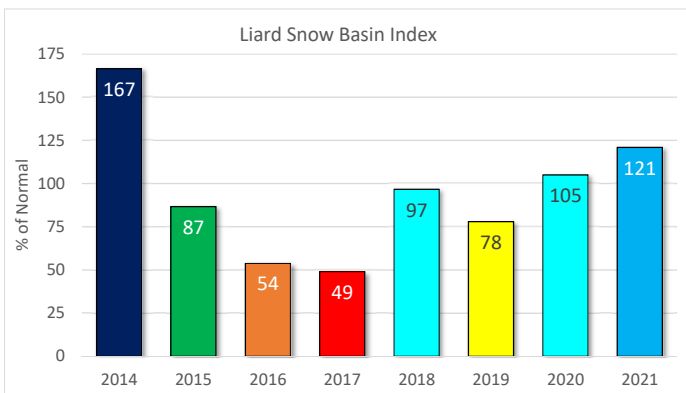
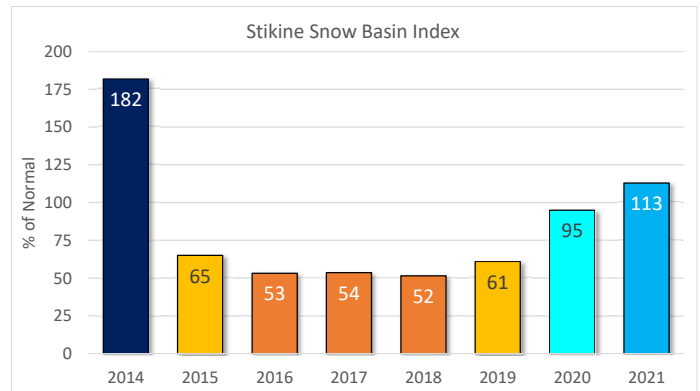
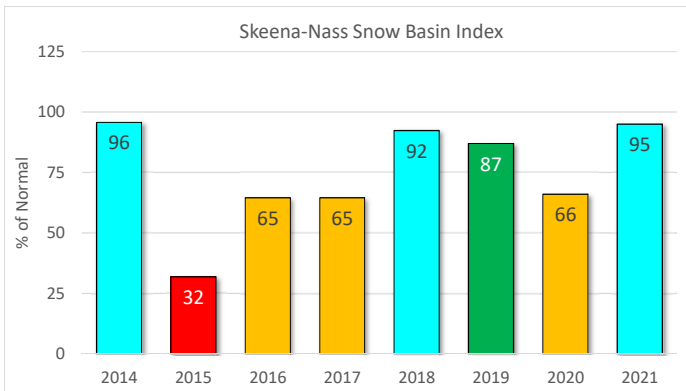
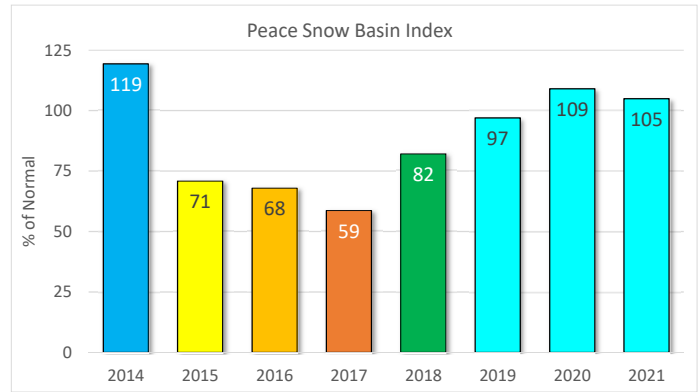
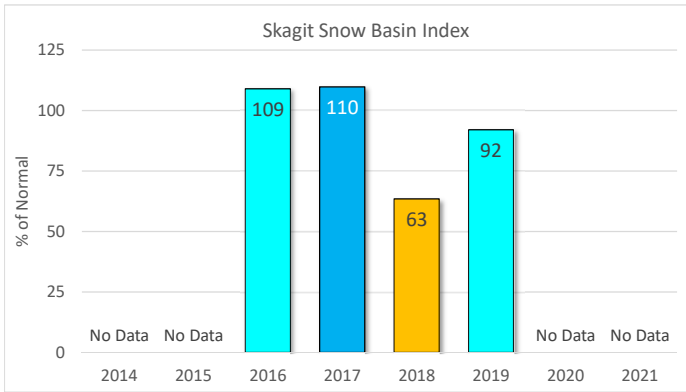
Snow Basin Index Graphs - January 1, 2021



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)	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record	
									SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)		
1A01P	Yellowhead Lake	1860	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	N/A	N/A	NS	NS				N/A	0	
1A10	PRINCE GEORGE A	689	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)	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record	
									SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)		
1A12	KAZA LAKE	1250	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	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)	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record	
									SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)		
1B01	MOUNT WELLS	1490	NS	NS	NS	NS	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	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/A	N/A	53	53	0	53	127	51	35	
1B06	MOUNT SWANNELL	1620	NS	NS	NS	NS	N/A	N/A	132	NS	132	144	247	N/A	4	
1B07	NUTLI LAKE	1490	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)	Snow			Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020		Years of Record
			SWE (mm)	SWE (mm)	SWE (mm)					SWE (mm)	SWE (mm)	Normal SWE (mm)					
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 Mountain	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)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020		Years of Record
			SWE (mm)	SWE (mm)	SWE (mm)					SWE (mm)	SWE (mm)	Normal SWE (mm)					
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)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020		Years of Record
			SWE (mm)	SWE (mm)	SWE (mm)					SWE (mm)	SWE (mm)	Normal SWE (mm)					
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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
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	TRPHY 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)	Snow		SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	
			Depth (cm)	YYYY-MM-DD						SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	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)	Snow		SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	
			Depth (cm)	YYYY-MM-DD						SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	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	Colpitt 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										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	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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
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)	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
														Normal SWE (mm)	SWE	
2F01A	TROUT CREEK (West)	1430	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	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	N/A	N/A	NS	NS				N/A	0	
2F08	GREYBACK RESERVOIR	1550	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	N/A	N/A	NS	NS	122	259	447	N/A	22	
2F10	Silver Star Mountain	1840	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 KOBAN	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	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				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	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	N/A	N/A	NS	NS	32	60	117	N/A	19	
2F21	BOULEAU LAKE	1400	NS	NS	NS	NS	N/A	N/A	NS	NS	160		351	N/A	2	
2F23	MACDONALD LAKE	1740	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	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)	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
														Normal SWE (mm)	SWE	
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	N/A	N/A	NS	NS	54	97	120	N/A	7	
2G05	MISSEZULA MOUNTAIN	1550	NS	NS	NS	NS	N/A	N/A	NS	NS	21	86	197	96	17	
2G06	HAMILTON HILL	1490	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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3B01	FORBIDDEN PLATEAU	1100	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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3C07	WEDEENE RIVER SOUTH	220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	242		242	N/A	1
3C08P	Burnt Bridge Creek	1330	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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3D01C	SUMALLO RIVER WEST	790	NS	NS	NS	NS	NS	N/A	N/A	NS	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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4A02P	Pine Pass	1400	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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)		
4B01	KIDPRICE LAKE	1370	NS	NS	NS	NS	NS	N/A	N/A	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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)		
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)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020	
			Depth (cm)	SWE (mm)											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)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020	
			Depth (cm)	SWE (mm)											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

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The February 1st snow survey is now complete. Data from 100 manual snow courses and 88 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 report¹.

Weather

Weather conditions at the beginning and end of January were complete opposite with respect to snow pack development across British Columbia. The first half of the month was very stormy with several frontal systems affecting the province, particularly the South Coast, Vancouver Island and the southern Interior resulting in rapid mountain snow pack development. Conversely, the latter half of January experienced relatively cool and very dry conditions, with limited snow accumulation throughout the province.

Temperatures were slightly above normal to well above normal for January (+0.5 to +5.0°C above normal). Well above normal temperatures (>+3.5°C) arose primarily in the northern regions of the province, e.g. Prince George, Vanderhoof, Atlin, Kitimat, Chetwynd. The lowest temperatures relative to normal for this time of year occurred on Vancouver Island. Precipitation across the province ranged between 40% to 150% of normal depending upon the geographical impact of the storm systems during the start of the month. The wettest regions relative to normal were the South Coast, Vancouver Island and North Coast, while drier regions were centred in the middle of the province near Prince George and surrounding areas.

Several light to moderate storm systems rolled through the province during the first week of February, resulting in a return to snow pack accumulation. The upcoming week of weather is forecast to be very cold, with dry conditions throughout B.C.

Snowpack

Snow basin indices for February 1st, 2021 range from a low of 79% of normal in the Skagit to a high of 126% in the South Coast (Table 1 and Figure 2). Overall, the province has an above normal snow pack for February 1st, 2021, with the average of all snow measurements across B.C. increasing to 111% (January 1st: 108%). Snow basin indices across the province range from 100% to 126%; only the Skagit region (at 79% of normal) deviates from this normal to above normal trend. However, this region only has two manual snow survey measurements sampled for the bulletin, both of which occurred seven days before February 1st. It's important to review a region's data table in the final pages of this report to further understand the specific conditions for each area. Regions with normal snow pack (90-110%) include the Upper Fraser West, Upper Fraser East, Middle Fraser, North Thompson, South Thompson, West Kootenay, East Kootenay, Similkameen, Peace, Skeena-Nass, Stikine and

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

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Liard. Above normal snow pack (110-120%) exists in the Nechako, Upper Columbia, Boundary, Okanagan and Vancouver Island. Well above normal snow basin indices (>120%) occur in the Lower Fraser, South Coast and Central Coast. The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) is 111%.

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 regions. These Middle Fraser sub-basins display significant variability. The Lower Thompson region measures 87% of normal (based on one measurement), the Bridge Region is 99%, the Quesnel area is 105%, and the Chilcotin is 131%.

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

Basin	% of Normal (Jan 1st value)	Basin	% of Normal (Jan 1st value)
Upper Fraser West	109 (103)	Boundary	110 (112)
Upper Fraser East	103 (117)	Similkameen	101 (97)
Nechako	118 (102)	South Coast	126 (109)
Middle Fraser	102 (93)	Vancouver Island	115 (108)
Lower Fraser	124 (115)	Central Coast	121 (119)
North Thompson	100 (101)	Skagit	79 (NA)
South Thompson	105 (113)	Peace	101 (105)
Upper Columbia	113 (119)	Skeena-Nass	103 (95)
West Kootenay	107 (101)	Stikine	106 (113)
East Kootenay	101 (94)	Liard	103 (121)
Okanagan	111 (132)	Fraser	111 (108)
		British Columbia	111 (108)

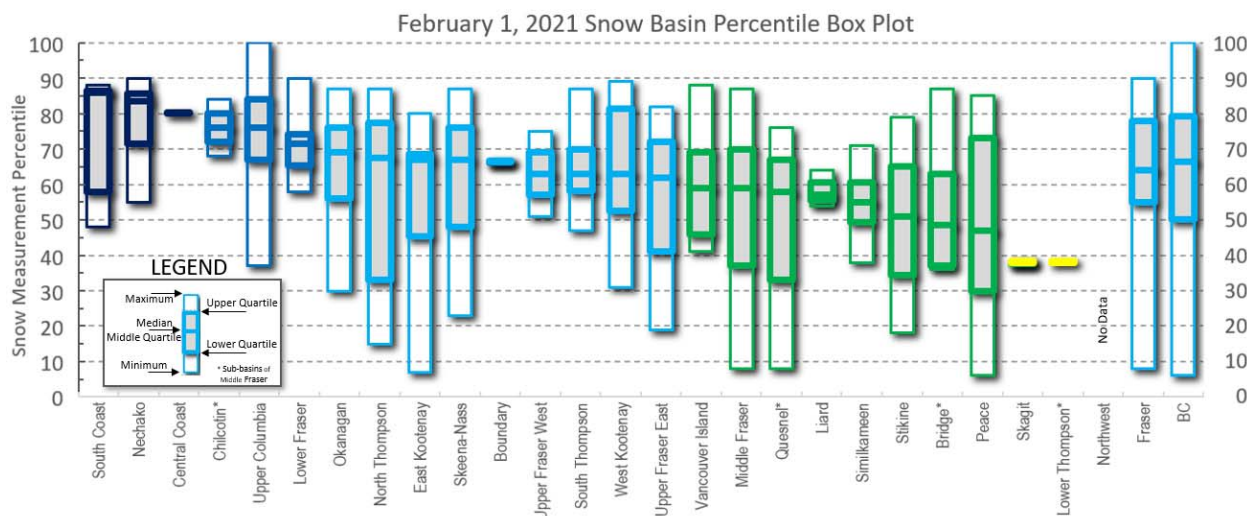
In addition to new provincial monitoring sites at Upper Gray Creek (2D10P) and Oyama Lake (2F19P), BC Hydro built two automated snow weather stations in 2020: Lamont Creek Upper (1D08P) located in the Lower Fraser near the manual snow survey Stave Lake

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(1D08), and Tsaydaychi Lake (4A12P) located in the Peace region within the Williston Lake Basin.

The River Forecast Centre began including percentiles in 2020 within the final data summary table. Percentiles offer a more accurate interpretation of variance, especially in regions where the percent of normal is extremely high or low. The region with the highest average percentile is the Central Coast (80th percentile). For interpretation, this means that historic February 1st snow survey measurements were below current values 80% of the time in the historic record, with snow pack higher than current observed snow pack 20% of the time. The region with the lowest percentile is the Skagit (38th percentile). A box plot displaying the percentile variance ordered from highest to lowest median, including sub-basins of the Middle Fraser, is provided below in Figure 1.

Figure 1. Snow Basin Percentile Box Plot – February 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 and January were relatively warm across the entire province relative to normal conditions. River flows in northern regions have been very high relative to normal due to the warmer temperatures this winter.

Forecasts from the CPC indicate 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 (55% likelihood) during spring 2021 (April-June).

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Historically, the April 1st snow pack is above normal when winter La Niña conditions exist in British Columbia, particularly for the South Coast and South Interior. Also, spring La Niña conditions can lead to late-season snow accumulation and delayed snowmelt, which increases the risk of freshet flooding.

Seasonal weather forecasts from January 31, 2021 by Environment and Climate Change Canada indicate an increased likelihood of colder than normal temperatures from February through April for the northern half of the province, and near normal temperatures for the southern portion of B.C. There is an increased likelihood of higher than normal precipitation for the entire province from February through April. These forecasts hint at continued snow accumulation into the start of spring, and thus the possibility of delayed snowmelt.

Seasonal volume runoff forecasts (see below) are near-normal (90-110%) for the Upper Fraser, Middle Fraser, Thompson, Skeena/Bulkley, Kalamalka-Wood Lake. Basins with higher than normal seasonal volume runoff forecasts (110-130%) include the Nicola River, Nicola Lake, Okanagan Lake and Similkameen. The snowmelt component of seasonal runoff on Vancouver Island, South Coast, and Lower Fraser is well above normal. Near normal snow packs in the North-west and Stikine are an early indicator for normal seasonal runoff.

The River Forecast Centre has recently developed updated seasonal volume forecast models for Okanagan Lake, Kalamalka-Wood Lake, Nicola Lake and Nicola River. These updated models include many significant upgrades. Models were calibrated with ten additional years of data, including several years in the 2010s with extremely high or low runoff. Other model improvements include the incorporation of newer representative hydrometric and snow measurement sites, the utilization of lake storage and lake inflow, the integration of temperature data and Environment and Climate Change Canada's seasonal weather forecasts. Finally, the upgraded models also encompass climate indices, including Multivariate ENSO Index Version II, Pacific Decadal Oscillation (PDO), Nino 3.4, Southern Oscillation Index (SOI), El Nino-Southern Oscillation (ENSO). These models are thus a substantial upgrade in comparison to previously used models, with calibration indicating significant improvement in model performance. Our new models forecast higher runoff (140-155%) for the Nicola River and Nicola Lake, whereas forecasts for Okanagan Lake and Kalamalka-Wood Lake are closer to the older version. Results from the new models are highlighted in blue in the seasonal volume runoff forecast table (below).

By early January, nearly two-thirds of the annual B.C. snow pack has typically accumulated. Snow pack throughout the province is consistently normal to above normal, with a percent of normal between 100 to 115% for most regions (and an absolute range from 79 to 126% across all regions of the province). Several light to moderate storm systems rolled through the province during the first week of February, resulting in a return to snow pack accumulation. Based on automated snow weather stations, regions that experienced the most significant accumulation during the first week of February include the Lower Fraser, West Kootenay, Boundary and Similkameen. The weather forecast for the upcoming week is



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for very cold and dry conditions throughout B.C., with little high elevation snowfall in the forecast.

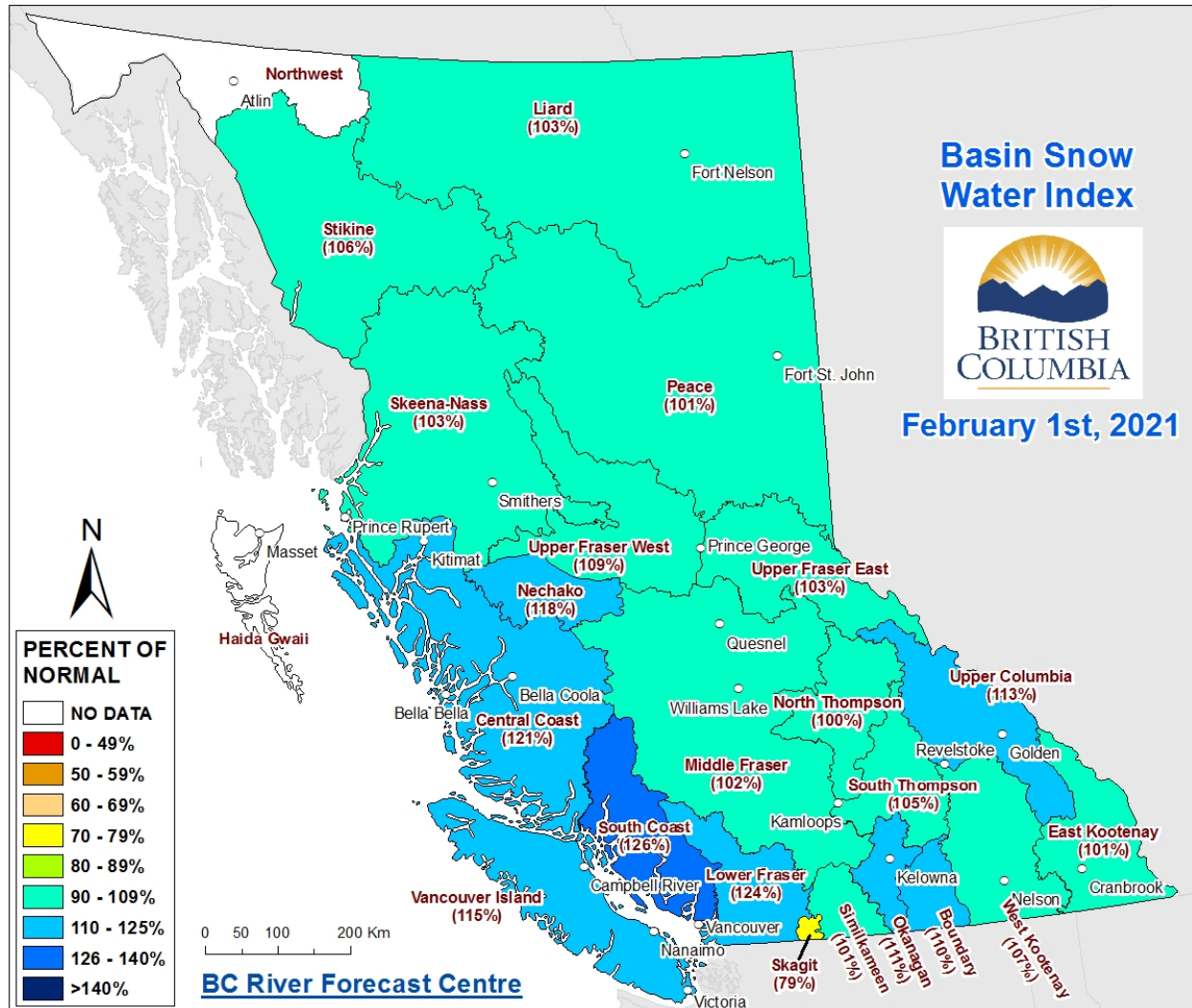
The combination of above normal February 1st snow pack throughout the province, persisting La Niña conditions through the spring, and seasonal weather forecasts predicting cooler and wetter conditions for the province means an elevated risk for freshet-related flooding. However, seasonal snow packs can change significantly, given that there are several months of snow accumulation left. Snow pack is also only one factor related to freshet flood risk. Weather conditions from April through June determine the timing and rate of snow melt, and heavy rainfall events can exacerbate the situation. Flooding is possible in years with normal, or even below-normal, snow pack. Conversely, high snow pack does not typically lead to flooding without significant contributing weather during the snow melt season.

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

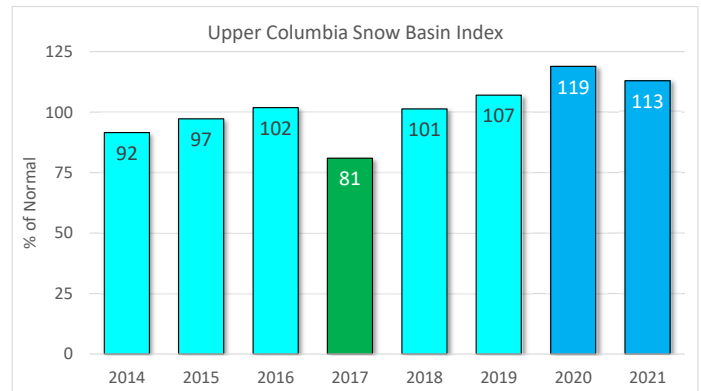
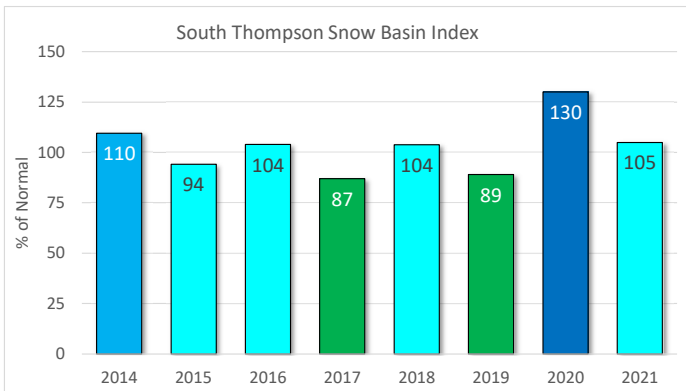
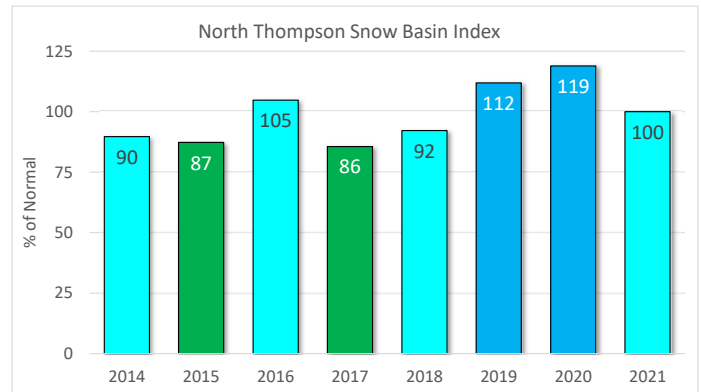
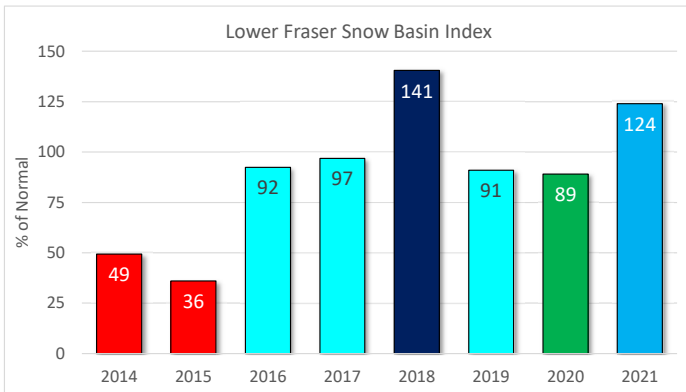
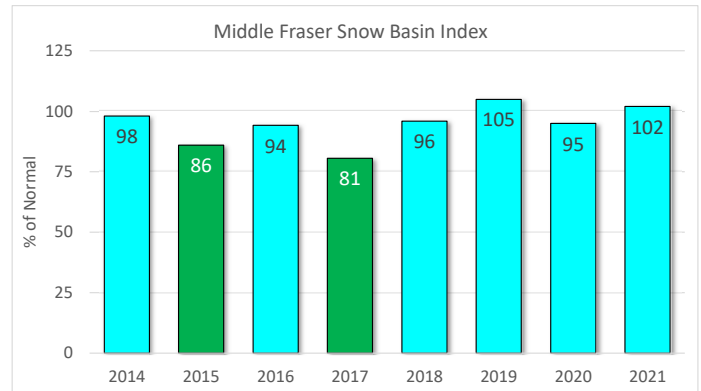
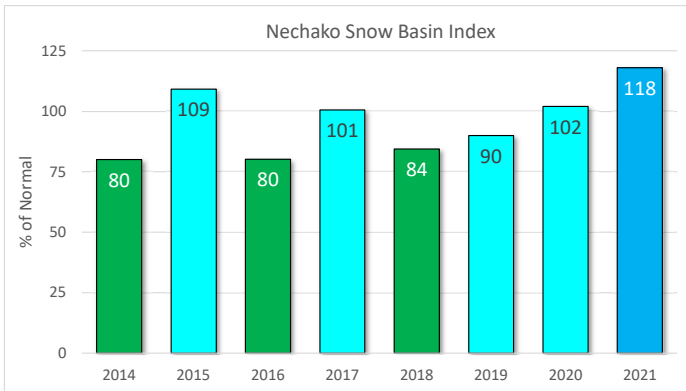
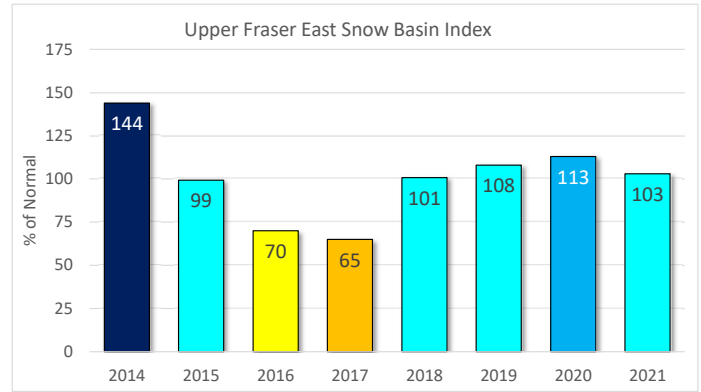
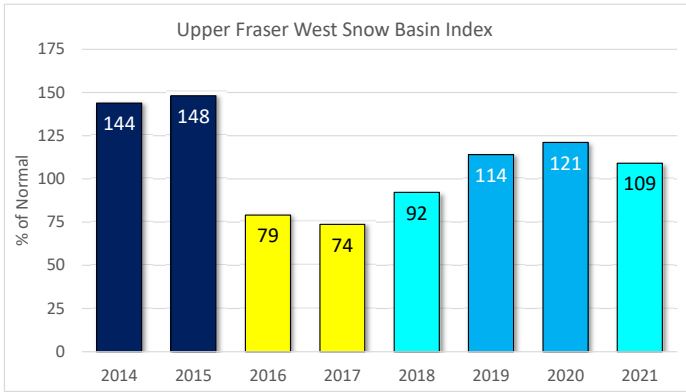
BC River Forecast Centre
February 9, 2021

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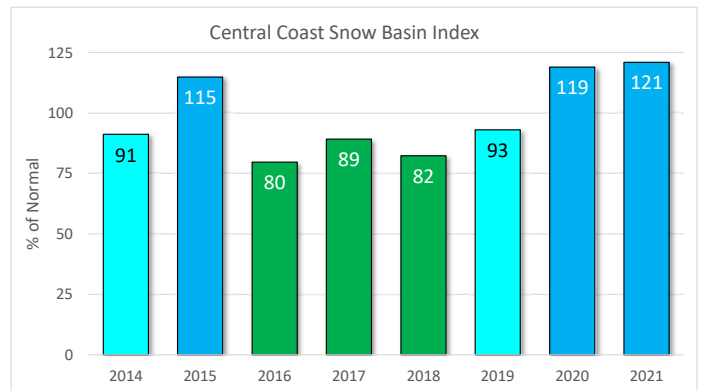
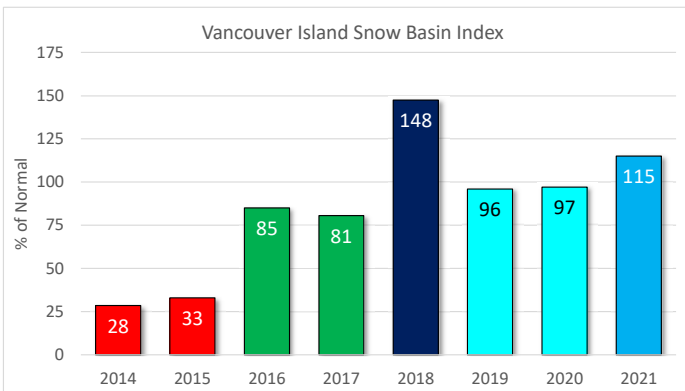
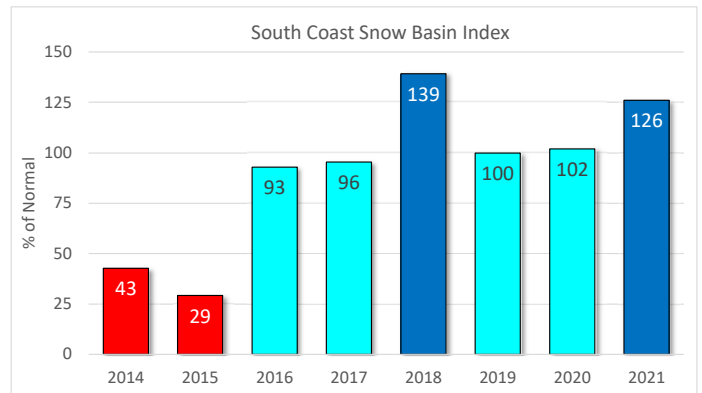
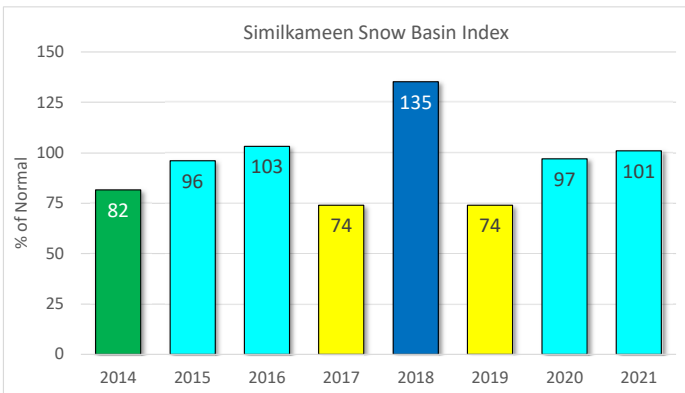
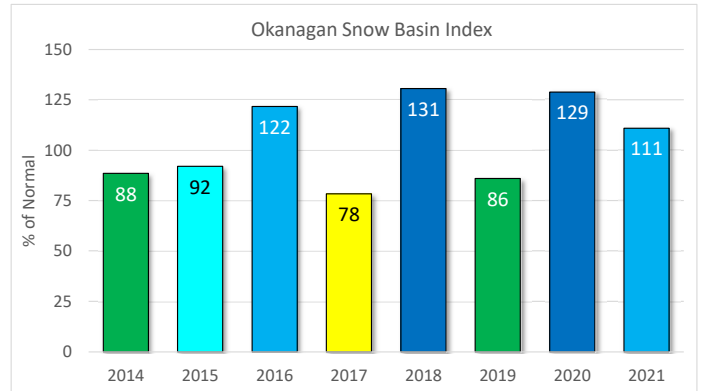
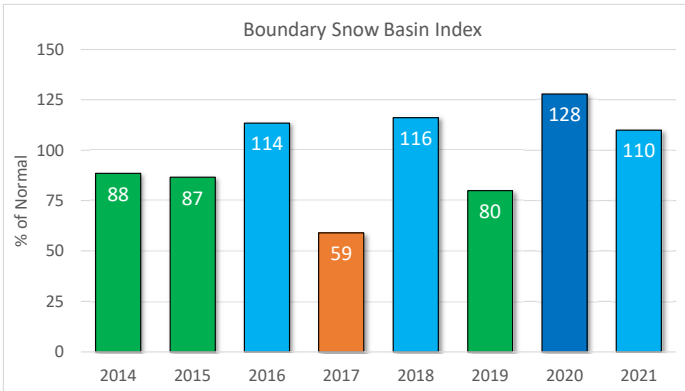
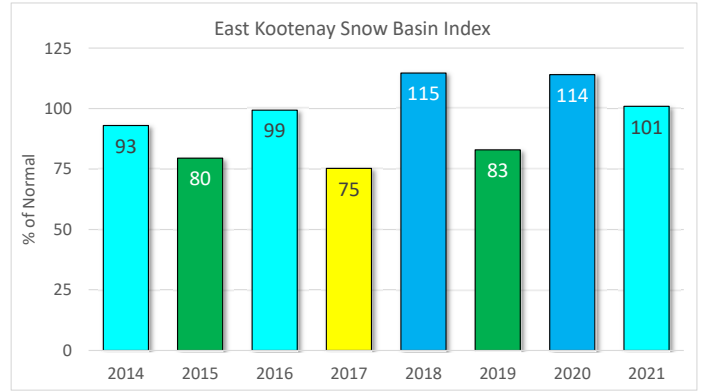
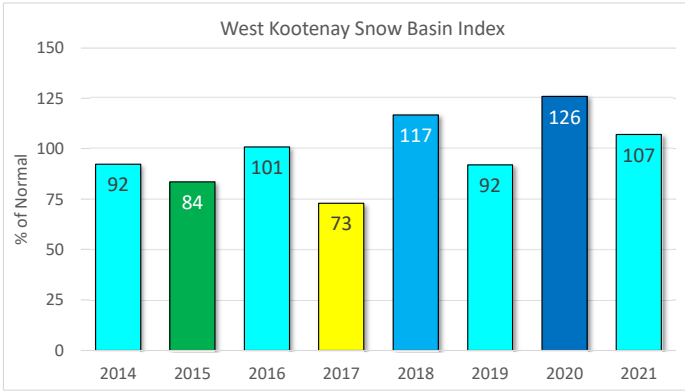
Figure 2: Basin Snow Water Index – February 1st, 2021



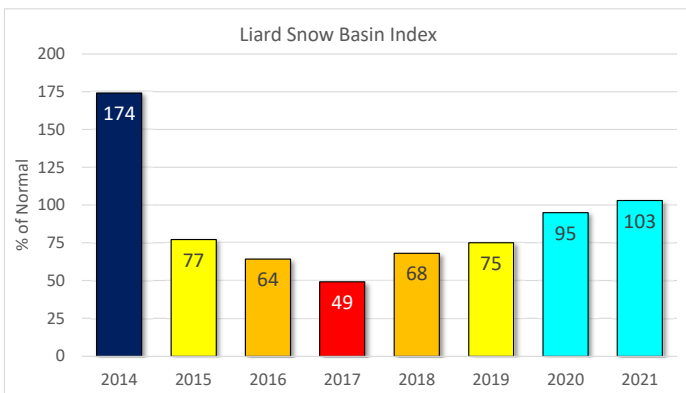
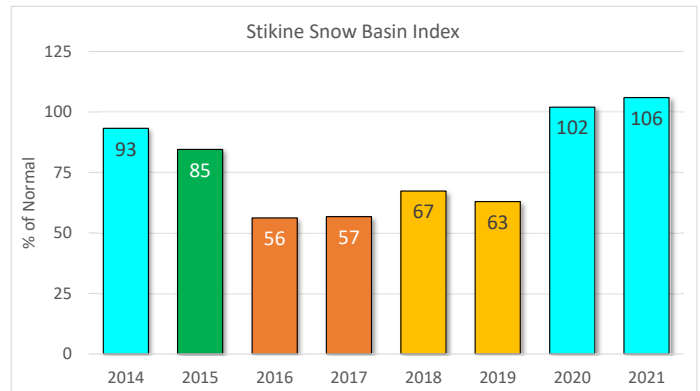
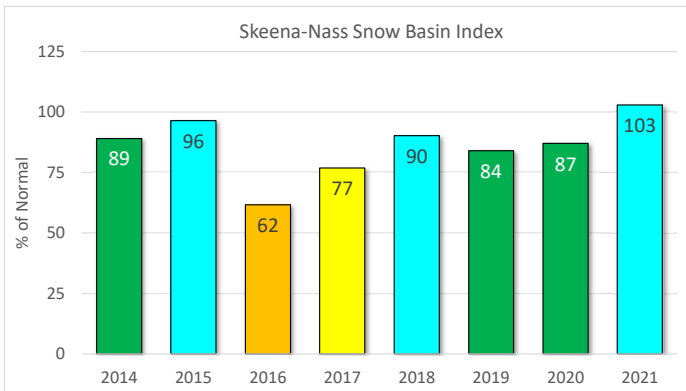
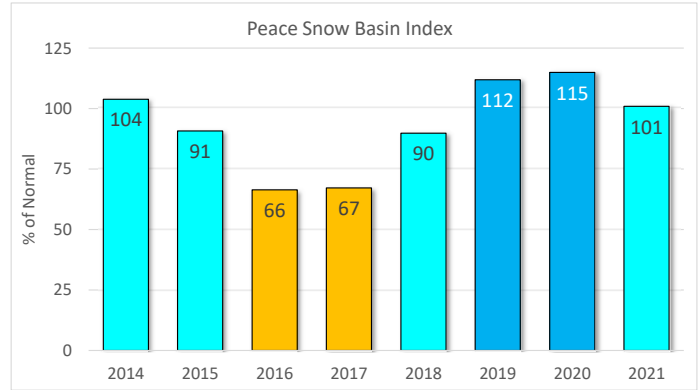
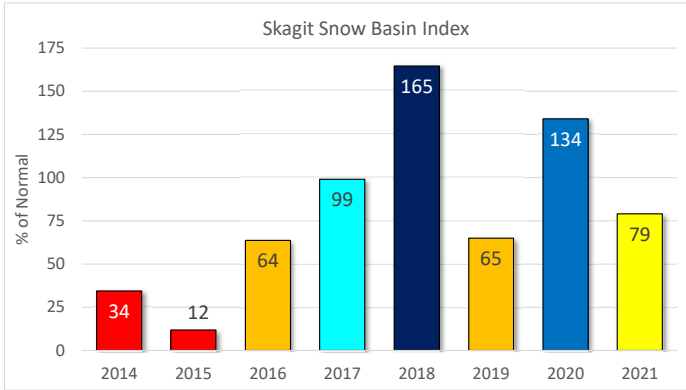
1. Every effort is made to ensure that data reported on these pages are accurate. However, in order to update the graphs and indices as quickly as possible, some data may have been estimated. Please note that data provided on these pages are preliminary and subject to revision upon review.



Snow Basin Index Graphs - February 1, 2021



Snow Basin Index Graphs - February 1, 2021



Ministry of Forests, Lands and Natural Resource Operations and Rural Development
River Forecast Centre
Volume Runoff Forecast February 2021

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					3998	3858	104	333	5583	5325	105	396
	McGregor at Lower Canyon					4633	4185	111	553	5764	5231	110	672
	Fraser at Shelley					17156	16786	102	1716	21318	20845	102	2033
Middle Fraser Basin	Quesnel River at Quesnel					5277	4930	107	551	6785	6261	108	661
Thompson Basin	N. Thompson at McLure					9589	9411	102	710	11315	11580	98	925
	S. Thompson at Chase					6405	6389	100	650	8039	7956	101	940
	Thompson at Spences Bridge					16137	16353	99	1381	19888	20333	98	1775
Bulkley and Skeena	Bulkley at Quick Skeena at Usk					2791	2784	100	1655	3418	3381	101	2173
						20633	19604	105	1553	25130	23948	105	2123
Nicola Lake		132	131	101	33	190	148	129	38				
*new model - Normal (1984-2019)		212	140	151	28	231	159	145	27	233	165	142	29
Nicola River at Spences Bridge		673	549	123	100	772	616	125	123				
*new model - Normal (1970-2019)		846	557	152	92	938	608	154	103	980	633	155	105
Okanagan Lake		594	488	122	99	635	515	123	120				
*new model - Normal (1970-2019)		597	513	117	92	602	536	112	96	572	518	110	103
Kalamalka-Wood Lake		30.0	33.1	91	12.8	31.0	34.5	90	15.1				
*new model - Normal (1975-2019)		34.4	31.1	111	NA	32.6	29.9	109	NA	38	34.7	110	NA
Similkameen River	at Nighthawk	1574	1391	113	166					1933	1701	114	196
	at Hedley	1162	1080	108	139					1366	1268	108	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

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

UPPER FRASER EAST			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A01P	Yellowhead Lake	1860	2021-02-01	147	414	26		107%	72	403	N/A	207	379	619	386	21
1A02P	McBride Upper	1611	2021-02-01	77	345	41		104%	72	400	337	203	315	522	332	29
1A03P	Barkerville	1520	2021-02-01	82	207	27		93%	41	287	287	116	222	368	223	43
1A05	LONGWORTH (UPPER)	1693	N	N	N	N	N	N/A	N/A	N	N	236	566	1042	593	44
1A05P	Longworth Upper	1740	2021-02-01	173	681	29		N/A	N/A	573	657	296	509	657	N/A	4
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	2021-02-02	32	70	33		73%	19	124	106	0	106	224	96	59
1A11	PACIFIC LAKE	755	2021-01-28	163	535	26		123%	82	420	446	179	424	679	435	53
1A14P	Hedrick Lake	1100	2021-02-01	184	433	29		79%	35	447	538	282	538	934	546	21
1A15	KNUDSEN LAKE	1602	2021-01-28	179	617	31		111%	62	N	N	284	558	899	557	48
1A15P	Knudsen Lake	1601	2021-02-01	170	704	24		N/A	N/A	432	394	298	405	432	N/A	4
1A17P	Revolution Creek	1690	2021-02-01	186	634	31		110%	58	758	594	296	576	1043	579	32
1A19P	Dome Mountain	1774	2021-02-01	157	530	30		103%	64	585	487	307	473	853	514	14
			Average	141	470	30		100%	56							

Basin Index Calculation	Average SWE	421
	Average Normal	407
Upper Fraser East Basin Index - February 1, 2021		103%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A10, 1A11, 1A14P, 1A15, 1A17P, 1A19P

UPPER FRASER WEST			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A12	KAZA LAKE	1250	2021-01-29	100	280	23		116%	75	279	264	125	225	440	241	49
1A12P	Kaza Lake	1257	2021-02-01	107	284	21		N/A	N/A	304	334	164	228	334	N/A	5
1A16	BURNS LAKE	800	2021-02-04	48	104	21		93%	51	144	92	44	103	232	112	50
1A23	BIRD CREEK	1180	NS	NS	NS	NS	NS	N/A	N/A	144	160	56	112	220	114	29
			Average	85	223	22		104%	63							

Basin Index Calculation	Average SWE	192
	Average Normal	177
Upper Fraser West Basin Index - February 1, 2021		109%

Stations used in Basin Index:
1A12, 1A16

NECHAKO			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1B01	MOUNT WELLS	1490	2021-02-07	162	469	22		126%	84	364	312	188	360	606	373	36
1B01P	Mount Wells	1490	2021-02-01		471			115%	75	442	351	216	393	658	410	27
1B02	TAHTSA LAKE	1300	2021-01-31	310	1006	26		118%	87	N	796	508	800	1442	854	65
1B02P	Tahtsa Lake	1300	2021-02-01		1022			115%	85	885	855	621	878	1533	886	24
1B05	SKINS LAKE	890	2021-02-03	40	86	21		99%	55	102	78	35	82	224	87	52
1B06	MOUNT SWANNELL	1620	2021-02-07	131	333	16		150%	90	260	205	88	211	382	222	31
1B07	NUTLI LAKE	1490	2021-02-07	153	460	24		122%	83	357	302	218	365	729	378	28
1B08P	Mt. Pondosy	1400	2021-02-01		618			108%	61	592	520	273	536	872	570	25
			Average	159	558	22		119%	78							

Basin Index Calculation	Average SWE	558
	Average Normal	472
Nechako Basin Index - February 1, 2021		118%

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

LOWER THOMPSON			February 1, 2021 Data					Feb 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % on Normal (1991-2020)	Percentile on Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
						%	Code								Normal SWE (mm)	Years of Record	
1C01	BROOKMERE	980	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	41	173	297	N/A	45	
1C06	PAVILION	1230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	53	130	N/A	31	
1C09A	HIGHLAND VALLEY	1510	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	20	81	188	N/A	25	
1C25	LAC LE JEUNE (UPPER)	1509	N	N	N	N	N	N/A	N/A	88	66	13	91	177	104	48	
1C29	SHOVELNOSE MOUNTAIN	1450	2021-01-29	64	149	26		87%	38	N	129	48	167	307	171	39	
1C29P	Shovelnose Mountain	1460	2021-02-01	85	194	18		N/A	N/A	165	143	143	154	165	N/A	2	
1C32	DEADMAN RIVER	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	50	75	130	N/A	7	
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
Average				75	172	22		87%	38								

Basin Index Calculation	Average SWE	149
	Average Normal	171
Lower Thompson Basin Index - February 1, 2021		87%

Stations used in Basin Index:
1C29

BRIDGE / LILLOOET			February 1, 2021 Data					Feb 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % on Normal (1991-2020)	Percentile on Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
						%	Code								Normal SWE (mm)	Years of Record	
1C05	MCGILLIVRAY PASS	1725	2021-02-03	142	360	28		90%	37	390	393	150	391	645	400	69	
1C05P	McGillivray Pass	1718	2021-02-01		360			N/A	N/A	333	425	333	425	484	N/A	3	
1C12P	Green Mountain	1780	2021-02-01		531			88%	37	405	651	238	651	985	606	27	
1C14	BRALORNE	1389	2021-02-03	64	137	20		111%	60	80	138	0	127	338	123	49	
1C14P	Bralorne	1382	2021-02-01	64	174	29		N/A	N/A	134	188	134	188	222	N/A	3	
1C18P	Mission Ridge	1850	2021-02-01		441			113%	64	430	334	185	382	794	391	44	
1C28	DUFFEY LAKE	1200	NS	NS	NS	NS	NS	N/A	N/A	371	NS	371		371	N/A	1	
1C37	BRALORNE(UPPER)	1981	N	N	N	N	N	N/A	N/A	N	486	178	473	724	450	22	
1C38	DOWNTON LAKE (UPPER)	1887	N	N	N	N	N	N/A	N/A	N	N	208	623	980	618	22	
1C38P	Downton Lake Upper	1829	2021-02-01		311			N/A	N/A	501	622	501	560	622	N/A	5	
1C39	BRIDGE GLACIER (LOWER)	1390	2021-02-03	152	400	28		95%	36	386	506	112	420	688	421	25	
1C40	TYAUGHTON CREEK (NORTH)	1947	2021-02-03	134	370	22		120%	87	260	328	128	294	654	310	20	
1C40P	North Tyaughton	1969	2021-02-01		355			N/A	N/A	187	275	187	220	355	N/A	5	
Average				111	344	25		103%	54								

Basin Index Calculation	Average SWE	373
	Average Normal	375
Bridge/Lillooet Basin Index - February 1, 2021		99%

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

CHILCOTIN			February 1, 2021 Data					Feb 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % on Normal (1991-2020)	Percentile on Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
						%	Code								Normal SWE (mm)	Years of Record	
1C08	NAZKO	1070	N	N	N	N	N	N/A	N/A	78	75	6	56	137	65	43	
1C21	BIG CREEK	1140	2021-02-03	26	55	15		121%	68	19	10	0	39	100	45	47	
1C22	PUNTZI MOUNTAIN	940	2021-01-28	44	76	12		139%	84	44	28	0	52	126	54	50	
Average				35	66	13		130%	76								

Basin Index Calculation	Average SWE	66
	Average Normal	50
Chilcotin Basin Index - February 1, 2021		131%

Stations used in Basin Index:
1C21, 1C22

QUESNEL			February 1, 2021 Data					Feb 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 % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1C13A	HORSEFLY MOUNTAIN	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	204	275	475	N/A	10
1C17	MOUNT TIMOTHY	1660	N	N	N	N	N	N/A	N/A	193	242	92	222	384	233	53
1C20P	Boss Mountain Mine	1460	2021-02-01	150	478	26		118%	76	386	488	143	396	611	405	27
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	663	663	663	N/A	2
1C33A	GRANITE MOUNTAIN	1150	2021-02-01	48	99	30		71%	8	142	150	79	142	175	140	15
1C41P	Yanks Peak East	1670	2021-02-01	141	606	40		105%	58	790	782	304	559	803	580	24
			Average	113	394	32		98%	47							

Basin Index Calculation	Average SWE	394
	Average Normal	375
Quesnel Basin Index - February 1, 2021		105%

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

MIDDLE FRASER

Basin Index Calculation	Average SWE	309
	Average Normal	304
Middle River Basin Index - February 1, 2021		102%

Stations used in Basin Index:
1C05, 1C12P, 1C14, 1C18P, 1C20P, 1C21, 1C22, 1C29, 1C33A, 1C39, 1C40, 1C41P

LOWER FRASER			February 1, 2021 Data					Feb 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 % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1D06P	Tenquille Lake	1680	2021-02-01	243	754	29		109%	63	702	814	344	712	1092	695	19
1D08	STAVE LAKE	1250	2021-01-26	282	1041	32		126%	70	857	869	163	907	1448	824	47
1D08P	Lamont Creek Upper	1217	2021-02-01		1228			N/A	N/A						N/A	0
1D09	WAHLEACH LAKE	1480	2021-01-26	142	460	26	A	135%	73	360	237	33	371	815	342	50
1D09P	Wahleach Lake Upper	1480	2021-02-01		715			119%	73	575	439	246	579	1061	602	27
1D10	NAHATLATCH RIVER	1550	N	N	N	N	N	N/A	N/A	N	948	262	903	1359	846	41
1D16	DICKSON LAKE	1160	2021-01-26	272	1070	30		127%	66	828	568	122	826	1538	840	25
1D17P	Chilliwack River	1600	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1050	999	371	1000	1586	998	28
1D18	DISAPPOINTMENT LAKE	1050	2021-02-03	357	1315	26		146%	90	892	934	164	913	1580	903	18
1D18P	Disappointment Lake	1050	2021-02-01	316	1124	36	E	111%	58	750	675	194	1039	1673	1014	12
1D19P	Spuzzum Creek	1180	2021-02-01	345	1229	28		125%	78	820	972	308	955	1902	982	22
			Average	280	993	30		125%	71							

Basin Index Calculation	Average SWE	963
	Average Normal	775
Lower Fraser Basin Index - February 1, 2021		124%

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

NORTH THOMPSON			February 1, 2021 Data					Feb 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 % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1E01B	BLUE RIVER	670	2021-01-28	71	188	33		77%	15	318	242	98	234	380	245	36
1E02P	Mount Cook	1550	2021-02-01	295	825	28	E	91%	72	1027	1055	642	884	1432	902	17
1E03A	TROPHY MOUNTAIN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1E07	ADAMS RIVER	1720	2021-01-29	164	538	28		112%	79	582	524	285	465	654	479	39
1E08P	Azure River	1652	2021-02-01	262	854	31		108%	63		732	525	801	1043	793	23
1E10P	Kostal Lake	1770	2021-02-01		512			85%	23	515	672	417	608	790	603	34
1E14P	Cook Creek	1280	2021-02-01	155	520	25		130%	87	563	N/A	248	393	589	399	11
			Average	189	573	29		101%	57							

Basin Index Calculation	Average SWE	573
	Average Normal	570

Stations used in Basin Index:
1E01B, 1E02P, 1E07, 1E08P, 1E10P, 1E14P

North Thompson Basin Index - February 1, 2021 100%

SOUTH THOMPSON			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1F01A	ABERDEEN LAKE	1310	2021-02-01	57	138	21		116%	64	180	91	48	117	193	119	63
1F02	ANGLEMONT	1190	2021-01-28	72	257	37		93%	47	437	229	130	264	483	276	61
1F03P	Park Mountain	1890	2021-02-01	175	605	33		102%	62	750	477	334	582	870	591	36
1F04P	Enderby	1950	2021-02-01	240	642	27		N/A	N/A	717	591	591	646	717	N/A	4
1F06P	Celista Mountain	1500	2021-02-01	203	670	31		110%	87	736	658	421	638	736	607	15
			Average	149	462	30		105%	65							

Basin Index Calculation	Average SWE	418
	Average Normal	398

South Thompson Basin Index - February 1, 2021 105%

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

FRASER RIVER

Basin Index Calculation	Average SWE	513
	Average Normal	462

Fraser River Basin Index - February 1, 2021 111%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A10, 1A11, 1A14P, 1A15, 1A17P, 1A19P, 1B01, 1B01P, 1B02, 1B02P, 1B05, 1B06, 1B07, 1B08P, 1C05, 1C12P, 1C14, 1C18P, 1C20P, 1C21, 1C22, 1C29, 1C33A, 1C39, 1C40, 1C41P, 1D06P, 1D08, 1D09, 1D09P, 1D16, 1D18, 1D18P, 1D19P, 1E01B, 1E02P, 1E07, 1E08P, 1E10P, 1E14P, 1F01A, 1F02, 1F03P, 1F06P

UPPER COLUMBIA			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2A02	GLACIER	1250	2021-01-28	147	524	32		109%	73	606	599	241	467	828	480	79
2A03A	FIELD	1285	2021-01-27	56	127	22		103%	56	157	121	46	121	233	123	81
2A06P	Mount Revelstoke	1850	2021-02-01		848			105%	70	960	827	464	810	1196	808	27
2A07	KICKING HORSE	1650	2021-01-28	87	234	28		106%	37	286	232	102	246	384	221	74
2A11	BEAVERFOOT	1890	2021-01-30	75	152	19		104%	61	170	148	78	144	249	146	50
2A14	MOUNT ABBOT	2010	2021-01-29	252	988	33		118%	80	902	950	396	822	1209	837	62
2A16	GOLDSTREAM	1920	2021-02-03	274	925	28		114%	81	963	824	460	773	1136	813	51
2A17	FIDELITY MOUNTAIN	1870	2021-01-29	262	1004	32		117%	81	1085	917	430	848	1376	861	57
2A18	KEYSTONE CREEK	1890	2021-02-03	243	718	22		129%	94	710	559	290	543	866	555	51
2A18P	Keystone Creek	1840	2021-02-01		696			N/A	N/A	679	643	608	643	679	N/A	5
2A19	VERMONT CREEK	1520	2021-01-30	116	313	26		109%	51	318	299	102	304	574	288	49
2A21P	Molson Creek	1935	2021-02-01		830			109%	76	806	832	417	750	1067	760	39
2A22	SUNBEAM LAKE	2010	2021-02-03	254	823	25		129%	87	745	634	348	627	886	636	51
2A23	BUSH RIVER	1920	2021-02-03	216	735	27		125%	84	684	619	292	580	902	588	47
2A25	KIRBYVILLE LAKE	1750	2021-02-03	270	892	31		107%	67	993	892	381	838	1160	836	44
2A27	DOWNIE SLIDE (LOWER)	980	2021-02-03	188	566	26		115%	84	692	494	256	480	740	494	38
2A29	DOWNIE SLIDE (UPPER)	1630	2021-02-03	298	1024	31		103%	67	1088	1040	466	910	1422	990	37
2A30P	Colpitti Creek	2131	2021-02-01		684			N/A	100	639	599	243	523	682	N/A	11
2A31P	Caribou Creek Upper	2201	2021-02-01		748			N/A	N/A	673	634	570	634	739	N/A	5
2A32P	Wildcat Creek	2122	2021-02-01		486			N/A	N/A	542	508	325	428	542	N/A	5
			Average	196	666	27		113%	73							

Basin Index Calculation	Average SWE	669
	Average Normal	590

Upper Columbia Basin Index - February 1, 2021 113%

Stations used in Basin Index:
2A02, 2A03A, 2A06P, 2A07, 2A11, 2A14, 2A16, 2A17, 2A18, 2A19, 2A21P, 2A22, 2A23, 2A25, 2A27, 2A29

WEST KOOTENAY			February 1, 2021 Data				Feb 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Code	SWE % on Normal (1991-2020)	Percentile on Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
			Depth (cm)	SWE (mm)	Density %									Normal SWE (mm)	SWE (mm)	
2B02A	FARRON	1220	2021-02-03	102	277	21	128%	89	241	231	63	214	346	216	47	
2B05	WHATSHAN (UPPER)	1525	2021-02-05	192	496	23	104%	63	661	365	242	450	759	479	42	
2B06P	Barnes Creek	1620	2021-02-01		392		107%	72	518	348	149	356	566	367	28	
2B07	KOCH CREEK	1860	2021-02-05	208	590	25	111%	81	591	463	203	513	708	530	39	
2B08P	St. Leon Creek	1800	2021-02-01		760		105%	63	1053	699	322	715	1170	725	26	
2B09	RECORD MOUNTAIN	1890	2021-02-04	193	510	24	105%	60	544	396	117	457	802	485	45	
2D02	FERGUSON	880	2021-01-28	139	418	29	100%	55	501	390	237	410	616	417	48	
2D03	SANDON	1070	NS	NS	NS	NS	N/A	N/A	NS	NS	264		328	N/A	2	
2D04	NELSON	930	2021-01-28	106	248	25	99%	45	257	198	79	262	508	250	82	
2D05	GRAY CREEK (LOWER)	1550	2021-02-04	105	295	30	94%	40	358	265	127	314	511	313	68	
2D06	CHAR CREEK	1310	2021-01-30	124	314	29	86%	31	402	312	117	364	650	364	55	
2D07A	DUNCAN LAKE NO. 2	630	N	N	N	N	N/A	N/A	192	70	60	110	283	128	30	
2D07AP	Duncan Lake Dam 2	559	2021-02-01	4	19	0	N/A	N/A	165	N/A	165		165	N/A	1	
2D08P	East Creek	2030	2021-02-01		721		117%	82	787	719	281	607	1012	614	40	
2D09	MOUNT TEMPLEMAN	1860	N	N	N	N	N/A	N/A	N	717	409	705	1115	718	42	
2D10	GRAY CREEK (UPPER)	1940	N	N	N	N	N/A	N/A	574	382	268	506	792	492	45	
2D10P	GRAY CREEK (UPPER)	1930	2021-02-01	163	510	0	N/A	N/A						N/A	0	
2D14P	Redfish Creek	2104	2021-02-01	290	993	30	115%	84	1149	835	529	859	1149	864	19	
			Average	148	467	21	106%	64								

Basin Index Calculation	Average SWE	501
	Average Normal	469
West Kootenay Basin Index - February 1, 2021		107%

Stations used in Basin Index:

2B02A, 2B05, 2B06P, 2B07, 2B08P, 2B09, 2D02, 2D04, 2D05, 2D06, 2D08P, 2D14P

EAST KOOTENAY			February 1, 2021 Data				Feb 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Code	SWE % on Normal (1991-2020)	Percentile on Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
			Depth (cm)	SWE (mm)	Density %									Normal SWE (mm)	SWE (mm)	
2C01	SINCLAIR PASS	1370	NS	NS	NS	NS	N/A	N/A	NS	NS	33	102	208	N/A	44	
2C04	SULLIVAN MINE	1550	2021-01-31	82	275	26	146%	80	249	124	46	213	397	188	75	
2C09Q	Morrissey Ridge	1860	2021-02-01		295		66%	7	473	319	180	456	886	446	37	
2C10P	Moyie Mountain	1930	2021-02-01	77	255	35	88%	38	324	223	104	271	521	289	41	
2C11	KIMBERLY UPPER	2140	NS	NS	NS	NS	N/A	N/A	NS	NS	114	320	571	N/A	23	
2C12	KIMBERLY MIDDLE	1680	NS	NS	NS	NS	N/A	N/A	NS	NS	81	190	356	N/A	23	
2C14P	Floe Lake	2090	2021-02-01		541		113%	69	533	435	225	457	750	478	26	
2C15	MOUNT ASSINIBOINE	2230	2021-01-30	140	377	25	107%	67	409	353	140	348	592	352	44	
2C16	MOUNT JOFFRE	1750	N	N	N	N	N/A	N/A	302	194	96	235	439	241	46	
2C17	THUNDER CREEK	2010	2021-01-30	85	195	20	112%	67	187	135	69	173	335	174	44	
			Average	96	323	27	106%	55								

Basin Index Calculation	Average SWE	323
	Average Normal	321
East Kootenay Basin Index - February 1, 2021		101%

Stations used in Basin Index:

2C04, 2C09Q, 2C10P, 2C14P, 2C15, 2C17

BOUNDARY			February 1, 2021 Data				Feb 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Code	SWE % on Normal (1991-2020)	Percentile on Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
			Depth (cm)	SWE (mm)	Density %									Normal SWE (mm)	SWE (mm)	
2E01	MONASHEE PASS	1370	2021-02-05	106	260	22	110%	66	360	184	103	236	364	236	59	
2E02	CARMI	1250	NS	NS	NS	NS	N/A	N/A	NS	86	51	112	196	N/A	28	

2E03	BIG WHITE MOUNTAIN	1680	N	N	N	N	N	N/A	N/A	394	284	178	324	483	329	53
2E07P	Grano Creek	1860	2021-02-01	121	342	25		109%	67	381	234	157	306	476	313	22
Average				114	301	24		110%	67							

Basin Index Calculation	Average SWE	301
	Average Normal	275
Boundary Basin Index - February 1, 2021		110%

Stations used in Basin Index:
2E01, 2E07P

OKANAGAN			February 1, 2021 Data				Feb 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record	
									SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)		
2F01A	TROUT CREEK (West)	1430	2021-01-26	54	172	28		111%	69	174	90	84	153	212	155	11
2F01AP	Trout Creek West	1420	2021-02-01	80	181	23		N/A	N/A	182	114	114	182	189	N/A	3
2F02	SUMMERLAND RESERVOIR	1280	2021-01-28	87	211	20		130%	78	199	137	65	170	307	163	56
2F03	MCCULLOCH	1280	2021-01-29	61	157	20		124%	80	175	96	57	122	196	126	84
2F04	GRAYSTOKE LAKE	1840	2021-01-26	92	268	24		117%	75	330	200	128	220	330	229	21
2F05P	Mission Creek	1780	2021-02-01	110	371	28		112%	71	427	264	167	310	525	331	50
2F07	POSTILL LAKE	1370	N	N	N	N	N	N/A	N/A	200	96	73	143	243	145	70
2F08	GREYBACK RESERVOIR	1550	2021-02-02	63	172	26		100%	56	202	92	60	162	269	172	47
2F08P	Greyback Reservoir	1550	2021-02-01	50	133	31		N/A	N/A	190	111	111	155	222	N/A	4
2F09	WHITEROCKS MOUNTAIN	1830	N	N	N	N	N	N/A	N/A	N	392	135	364	693	379	47
2F10	Silver Star Mountain	1840	N	N	N	N	N	N/A	N/A	NS	NS	229	483	721	513	57
2F10P	Silver Star Mountain	1839	2021-02-01	173	589	29		N/A	N/A	692	508	359	508	692	N/A	5
2F11	ISINTOK LAKE	1680	2021-01-27	42	95	26		83%	30	176	66	26	109	307	115	55
2F12	MOUNT KOBAN	1810	2021-01-28	90	214			107%	56	181	135	43	200	400	201	54
2F13	ESPERON CR (UPPER)	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	156	229	457	N/A	4
2F14	ESPERON CR (MIDDLE)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	146	218	399	N/A	11
2F18P	Brenda Mine	1460	2021-02-01		282			118%	76	232	184	152	224	368	238	24
2F19	OYAMA LAKE	1340	2021-01-29	63	132	18		111%	59	190	78	31	115	193	119	52
2F19P	OYAMA LAKE	1360	2021-02-01	69	196	0		N/A	N/A							N/A
2F20	VASEUX CREEK	1400	2021-01-27	40	86	23		94%	44	84	70	44	90	208	91	33
2F21	BOULEAU LAKE	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	168	224	396	N/A	9
2F23	MACDONALD LAKE	1740	2021-01-27	137	372	21		N/A	87	N	290	132	287	411	N/A	20
2F24	ISLAHT LAKE	1480	2021-01-27	109	237	20		106%	66	298	222	119	213	364	223	38
2F25	POSTILL LAKE UPPER	1540	N	N	N	N	N	N/A	N/A	200	111	111	153	210	N/A	7
Average				83	228	22		109%	65							

Basin Index Calculation	Average SWE	200
	Average Normal	180
Okanagan Basin Index - February 1, 2021		111%

Stations used in Basin Index:
2F01A, 2F02, 2F03, 2F04, 2F05P, 2F08, 2F11, 2F12, 2F18P, 2F19, 2F20, 2F24

SIMILKAMEEN			February 1, 2021 Data				Feb 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record	
									SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)		
2G03P	Blackwall Peak	1940	2021-02-01	184	573	30		102%	57	549	460	159	549	1076	564	53
2G04	LOST HORSE MOUNTAIN	1920	2021-01-29	65	151	23		98%	53	154	114	70	150	335	154	58
2G05	MISSEZULA MOUNTAIN	1550	2021-01-30	71	173	19		123%	71	124	85	60	138	284	140	54
2G06	HAMILTON HILL	1490	2021-01-28	70	178	29		88%	38	176	119	91	205	411	203	57
Average				98	269	25		103%	55							

Basin Index Calculation	Average SWE	269
	Average Normal	265
Similkameen Basin Index - February 1, 2021		101%

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

SOUTH COAST			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3A01	GROUSE MOUNTAIN	1100	2021-02-01	292	1140	27		142%	85	928	668	50	787	1530	802	71
3A02	POWELL RIVER (UPPER)	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3A05	POWELL RIVER (LOWER)	910	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	437		620	N/A	2
3A09	PALISADE LAKE	880	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	318	564	914	N/A	3
3A09P	Palisade Lake	900	2021-02-01	241.6	1027	0		N/A	N/A	534	622	534		622	N/A	2
3A10	DOG MOUNTAIN	1080	2021-02-01	270	1030	28		142%	86	803	578	77	746	1243	727	37
3A19	ORCHID LAKE	1190	2021-02-03	390	1420	29		134%	87	1087	1054	273	1115	1855	1060	41
3A20	CALLAGHAN CREEK	1040	2021-02-02	228	686	25	NS	125%	86	628	672	50	570	1040	548	36
3A20P	Callaghan	1017	2021-02-01	231.8	607	0		N/A	86	634	759	634		759	N/A	2
3A22P	Nostetuko River	1500	2021-02-01	119	408	32		105%	58	385	380	30	386	782	390	30
3A24P	Mosley Creek Upper	1650	2021-02-01	80	222	27		95%	54	215	205	98	217	509	235	31
3A25P	Squamish River Upper	1340	2021-02-01	333	1082	33		102%	48	1097	1241	503	1093	1555	1064	30
3A26	CHAPMAN CREEK	1022	2021-01-26	290	1202	29		137%	88	850	780	540	850	1306	880	11
3A27	EDWARDS LAKE	1070	2021-02-03	243	818	24		N/A	N/A	560	540	410	578	944	N/A	9
3A28P	Tetrahedron	1420	2021-02-01	377	1122	0		N/A	N/A		857	857		995	N/A	2
			Average	258	897	21		123%	75							

Basin Index Calculation	Average SWE	899
	Average Normal	713
South Coast Basin Index - February 1, 2021		126%

Stations used in Basin Index:
3A01, 3A10, 3A19, 3A20, 3A22P, 3A24P, 3A25P, 3A26

VANCOUVER ISLAND			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3B01	FORBIDDEN PLATEAU	1100	2021-02-03	326	1142	31		123%	69	1060	980	42	995	1640	931	65
3B02A	MOUNT COKELY	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	234	552	1050	N/A	6
3B04	ELK RIVER	270	2021-02-03	0	0	N/A		0%	N/A	67	36	0	77	544	70	61
3B10	UPPER THELWOOD LAKE	990	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	28	843	1534	N/A	19
3B17P	Wolf River Upper	1490	2021-02-01		821			98%	41	704	879	171	877	1383	840	33
3B18	WOLF RIVER (MIDDLE)	990	2021-02-03	166	434	23		115%	59	358	340	0	386	742	378	48
3B19	WOLF RIVER (LOWER)	640	2021-02-03	86	244	29		99%	46	258	228	0	246	572	246	47
3B23P	Jump Creek	1160	2021-02-01	249	934	26		145%	88	543	516	0	653	1367	643	23
3B24P	Heather Mountain Upper	1190	2021-02-01	247	1045	35		N/A	N/A	793	593	593	859	1282	N/A	5
3B26P	Mount Arrowsmith	1465	2021-02-01	226	841	31		N/A	N/A	628	690	628	690	886	N/A	3
			Average	186	683	29		97%	61							

Basin Index Calculation	Average SWE	596
	Average Normal	518
Vancouver Island Basin Index - February 1, 2021		115%

Stations used in Basin Index:
3B01, 3B04, 3B17P, 3B18, 3B19, 3B23P

CENTRAL COAST			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on 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	105	340	497	N/A	13
3C08P	Burnt Bridge Creek	1330	2021-02-01	196	711	27		121%	80	684	536	240	536	1119	590	22
			Average	196	711	27		121%	80							

Basin Index Calculation	Average SWE	711
	Average Normal	590
Central Coast Basin Index - February 1, 2021		121%

Stations used in Basin Index:
3C08P

SKAGIT			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on 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	2021-01-26	35	102	47		65%	37	200	84	0	166	368	157	26
3D02	LIGHTNING LAKE	1220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	67	189	242	N/A	4
3D03A	KLESILKWA	1175	2021-01-26	53	150	37		94%	39	256	136	0	197	508	160	62
			Average	44	126	42		79%	38							

Basin Index Calculation	Average SWE	126
	Average Normal	159
Skagit Basin Index - February 1, 2021		79%

Stations used in Basin Index:
3D01C, 3D03A

PEACE			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on 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	2021-02-01	268	933	30		121%	82	932	822	469	809	1257	772	28
4A03	WARE (UPPER)	1575	2021-01-30	67	157	26		86%	29	187	189	108	174	289	182	50
4A03P	Ware Upper	1565	2021-02-01	67	138	27		N/A	N/A	175	182	130	179	182	N/A	4
4A04	WARE (LOWER)	970	2021-01-30	58	126	24		86%	39	163	N	63	137	286	147	50
4A04P	Ware Lower	971	2021-02-01	51	126	32		N/A	N/A	165	163	89	164	168	N/A	4
4A05	GERMANSEN (UPPER)	1480	N	N	N	N	N	N/A	N/A	308	329	140	227	371	242	52
4A06	TUTIZZI LAKE	1045	2021-01-29	89	225	20		117%	81	207	205	95	175	348	192	51
4A07	LADY LAURIER LAKE	1440	2021-01-31	141	454	23		123%	85	344	342	224	325	679	369	49
4A09	PULPIT LAKE	1335	2021-01-30	94	259	30		84%	23	344	320	190	282	530	308	49
4A09P	Pulpit Lake	1311	2021-02-01	78	212	41		68%	6	331	281	182	322	463	310	30
4A10	FREDRICKSON LAKE	1325	2021-01-29	67	163	24		93%	52	241	187	105	161	309	176	52
4A11	TRYGVE LAKE	1410	2021-01-30	90	234	26		91%	47	299	N	160	236	434	258	49
4A12	TSAYDAYCHI LAKE	1190	N	N	N	N	N	N/A	N/A	335	360	146	267	507	292	52
4A12P	Tsaydaychi Lake	1195	2021-02-01	132	371	0		N/A	N/A						N/A	0
4A13	PHILIP LAKE	1035	2021-01-29	88	235	22		112%	76	223	261	118	190	355	210	53
4A13P	Philip Lake	1028	2021-02-01		230			N/A	N/A	250	N/A	250		250	N/A	1
4A16	MORFEE MOUNTAIN	1430	2021-01-28	177	610	33		103%	55	710	723	323	580	952	592	52
4A18	MOUNT SHEBA	1490	2021-01-28	190	660	30		110%	69	770	783	299	567	932	602	51
4A18P	MOUNT SHEBA	1484	2021-02-01	214	724	0		N/A	N/A	814	732	732		814	N/A	2
4A20	MONKMAN CREEK	1570	2021-01-28	105	347	36		90%	38	391	377	163	378	775	385	41
4A20P	Monkman Creek	1570	2021-02-01		250			N/A	N/A	303	339	303		339	N/A	2
4A21	MOUNT STEARNS	1505	2021-01-31	41	79	24		79%	30	98	103	40	98	196	100	46
4A25	FORT ST. JOHN A	690	2021-02-02	23	51	31	E	62%	14	70	96	22	71	154	83	46
4A27P	Kwadacha North	1554	2021-02-01	91	207	24		91%	32	264	212	137	222	371	227	30
4A30P	Aiken Lake	1050	2021-02-01	79	195	23		104%	73	185	198	100	184	330	188	33
4A31P	Crying Girl Prairie	1358	2021-02-01		153			N/A	N/A	173	182	100	173	190	N/A	5
4A33P	Muskwa-Kechika	1196	2021-02-01		91			N/A	N/A	60	93	23	81	93	N/A	5
4A34P	Dowling Creek	1456	2021-02-01		N/A			N/A	N/A						N/A	

4A36P	Parsnip Upper	790	2021-02-01	101	266	0	N/A	N/A	272	305	272	305	N/A	2
4A37P	McQue Terrace	1200	2021-02-01		57		N/A	N/A	101		101	101	N/A	1
			Average	105	280	24	95%	49						

Basin Index Calculation	Average SWE	303
	Average Normal	300
Peace Basin Index - February 1, 2021		101%

Stations used in Basin Index:
4A02P, 4A03, 4A04, 4A06, 4A07, 4A09, 4A09P, 4A10, 4A11, 4A13, 4A16, 4A18, 4A20, 4A21, 4A25, 4A27P, 4A30P

SKEENA-NASS			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on 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	2021-02-07	232	792	26		117%	87	N	595	403	595	1220	678	60
4B02	JOHANSON LAKE	1420	2021-01-29	84	220	23		105%	67	267	229	115	191	355	209	50
4B03A	HUDSON BAY MTN.	1480	2021-01-27	140	408	24		111%	76	315	363	210	340	665	367	49
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	163	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
4B10	NINGUNSAW PASS	690	NS	NS	NS	NS	NS	N/A	N/A	NS	220	171	295	603	304	40
4B11A	BEAR PASS	460	2021-01-31	158	545	26		129%	76	N	220	192	412	821	422	31
4B13A	TERRACE AIRPORT	180	2021-01-27	25	66	52		53%	31	217	86	0	130	330	124	40
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	2021-02-01	84	226	25		110%	76	218	206	94	206	353	206	23
4B16P	Shedin Creek	1480	2021-02-01	154	459	37		83%	23	487	474	262	569	877	555	24
4B17P	Tsai Creek	1360	2021-02-01	228	741	34		94%	48	635	772	423	769	1482	790	23
4B18P	Cedar-Kiteen	885	2021-02-01	132	452	28		101%	67	322	395	233	369	847	446	18
			Average	137	434	30		100%	61							

Basin Index Calculation	Average SWE	434
	Average Normal	422
Skeena-Nass Basin Index - February 1, 2021		103%

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

LIARD			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on 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	2021-01-30	75	188	22		101%	64	177	160	81	168	325	185	51
4C01P	Sikanni Lake	1387	2021-02-01	84	190	23		N/A	N/A	202	182	94	192	237	N/A	4
4C02	SUMMIT LAKE	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	36	74	146	N/A	21
4C03	DEASE LAKE	820	2021-02-04	58	99	16		98%	57	127	68	36	92	218	101	52
4C05	FORT NELSON AIRPORT	380	2021-02-05	45	77	17		117%	54	47	51	35	76	128	66	53
			Average	66	120	20		105%	58							

Basin Index Calculation	Average SWE	121
	Average Normal	118
Liard Basin Index - February 1, 2021		103%

Stations used in Basin Index:
4C01, 4C03, 4C05

STIKINE			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4D02	ISKUT	1000	2021-02-04	35	55	22		70%	18	94	48	30	78	162	79	41
4D10P	Tumeka Creek	1220	2021-02-01		405			99%	51	426	306	212	402	744	408	23
4D11P	Kinaskan Lake	1020	2021-02-01	107	344	23		126%	79	318	182	113	244	516	273	23
			Average	71	268	23		98%	49							

Basin Index Calculation	Average SWE	268
	Average Normal	253
Stikine Basin Index - February 1, 2021		106%

Stations used in Basin Index:
4D02, 4D10P, 4D11P

NORTHWEST			February 1, 2021 Data				Feb 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 % on Normal (1991-2020)	Percentile on Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	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	50		50	N/A	1
			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, 2021		N/A

Stations used in Basin Index:
N/A

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	482
	Average Normal	435
British Columbia Basin Index - February 1, 2021		111%

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

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The March 1st snow survey is now complete. Data from 139 manual snow courses and 88 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 (ECCC) and the provincial Climate Related Monitoring Program have been used to form the basis of the following report¹.

Executive Summary

The March 1st, 2021 snow pack throughout British Columbia is above normal. The average of all snow measurements across B.C. increased to 114% (February 1st: 111%). The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) increased to 115%, from the February 1st index of 111%. Record high snow surveys were measured in the Northwest, and Deadman River in the Lower Thompson. By early March, approximately 80% of the annual B.C. snow pack has typically accumulated. La Niña conditions and seasonal forecasts from ECCC both indicate the likelihood of cooler conditions and possibly greater than normal precipitation over the next couple months. This could lead to continued snow accumulation, delayed snow melt, and thus an increased risk for freshet related flooding. The risk of spring flooding is elevated due to the above normal snowpack across the entire province. However, the timing, magnitude and location of potential flooding will depend upon spring weather conditions.

Weather

Several light to moderate precipitation events affected the province at the beginning of February. Arctic air spread across B.C. during the second week of the month, resulting in very cold and dry conditions. The latter half of February was punctuated by continual storm systems contributing additional mountain snow accumulation across all regions of the province.

After back-to-back months of above normal temperatures across B.C. in December and January, February finally displayed temperature anomalies more indicative of La Niña winter conditions. The province recorded below normal temperatures for February, with most weather stations measuring temperatures between -1.0°C to -4.0°C below normal. Areas in the Interior and North including Chetwynd, Barkerville, and Atlin, recorded temperatures <5.0°C below normal for the month. Precipitation relative to normal varied throughout the province. Regions with below normal precipitation for February include Vancouver Island, South Coast and East Kootenay. Wetter areas of the province relative to normal include the Cariboo, Nechako, Bulkley and Northwest.

The first week of March had a few storm systems affecting the province. The weather forecast for the second week of March shows relatively cool temperatures and a return to active storm systems, particularly for the North Coast.

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

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Snowpack

Snow basin indices (SBI) for March 1st, 2021 range from a low of 102% of normal on Vancouver Island to a high of 204% in the Northwest (Table 1 and Figure 2). Overall, the province has above normal snow pack for March 1st, 2021, with the average of all snow measurements across B.C. increasing to 114% (February 1st: 111%). Regions with normal to slightly above normal snow pack (100-110%) include the Upper Fraser East, Middle Fraser, South Thompson, East Kootenay, Vancouver Island, and Peace. Above normal snowpack (110-125%) is present in the Nechako, North Thompson, Upper Columbia, West Kootenay, Boundary, Okanagan, Nicola, Similkameen, South Coast, Skagit, Skeena-Nass, Stikine and Liard. Regions with well above normal (>125%) snow pack are the Upper Fraser West, Lower Fraser, Central Coast and Northwest. The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) increased to 115%, from the February 1st index of 111%. It's important to review the table showing snow amounts at individual sites used to calculate SBI values (in the final pages of this report) to understand the specific conditions for each area.

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

Basin	% of Normal (Feb 1st value)	Basin	% of Normal (Feb 1st value)
Upper Fraser West	127 (109)	Okanagan	120 (111)
Upper Fraser East	108 (103)	Nicola**	119 (NA)
Nechako	117 (118)	Boundary	114 (110)
Middle Fraser	107 (102)	Similkameen	124 (101)
Lower Thompson*	136 (87)	South Coast	116 (126)
Bridge*	95 (99)	Vancouver Island	102 (115)
Chilcotin*	132 (131)	Central Coast	141 (121)
Quesnel*	112 (105)	Skagit	125 (79)
Lower Fraser	129 (124)	Peace	107 (101)
North Thompson	111 (100)	Skeena-Nass	114 (103)
South Thompson	106 (105)	Stikine	111 (106)

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Upper Columbia	114 (113)	Liard	113 (103)
West Kootenay	110 (107)	Northwest	204 (NA)
East Kootenay	106 (101)	Fraser	115 (111)
		British Columbia	114 (111)

*sub-basin of Middle Fraser

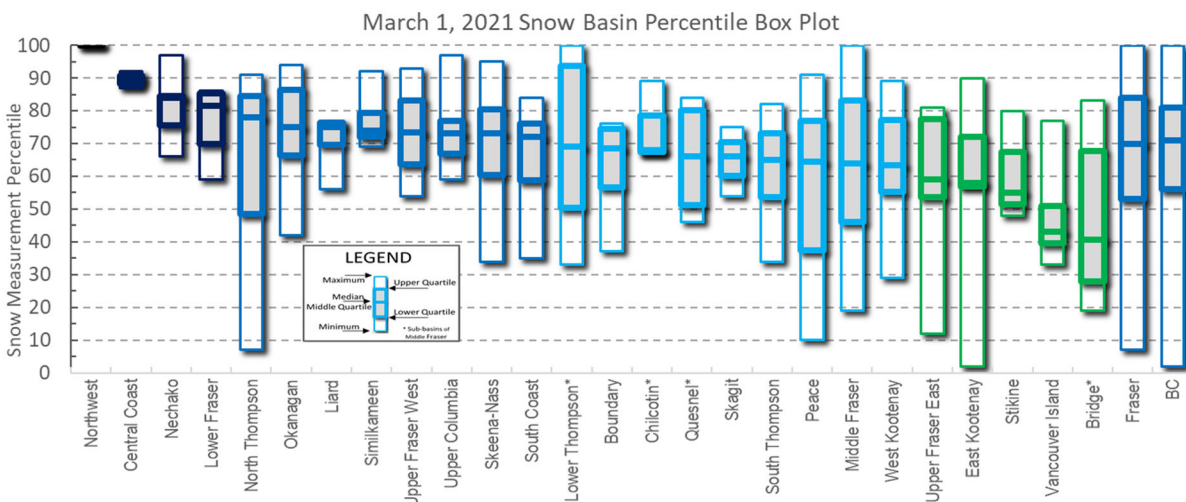
**sub-basin of Lower Thompson – includes representative stations within Okanagan

Three manual snow surveys recorded all-time record high values for March 1st, including:

- 1C32 Deadman River: 250 mm SWE (220% of normal) – period of record 36 years
- 4E01 Log Cabin: 700 mm SWE (198% of normal) – period of record 60 years
- 4E02B Atlin Lake: 207 mm SWE (224% of normal) – period of record 15 years

Percentiles offer a more accurate interpretation of snow pack variability, especially in regions where the percent of normal is extremely high or low. The Central Coast averages the 90th percentile for March 1st snow measurements. This means that historical March 1st values were below current values 90% of the time in the historic record, and snow pack was higher than current values 10% of the time. The region with the highest average percentile is the Northwest (100th percentile) indicating all stations measured record high values. The region with the lowest average percentile is Vancouver Island (48th percentile). A box plot displaying percentile ranges ordered from highest to lowest median, including sub-basins of the Middle Fraser, is provided below in Figure 1.

Figure 1: Snow Basin Percentile Box Plot – March 1st, 2021



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Outlook

La Niña conditions began fall 2020 and continue to present. 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 and early spring months. According to the Climate Prediction Center (CPC), there is a 60% chance of a transition from La Niña to neutral conditions during spring 2021 (April-June).

Due to cooler temperatures during spring months, La Niña conditions often result in continued snow accumulation and delayed snow melt. Analysis by the River Forecast Centre indicates that during historic La Niña years from the past 40 years, the snow pack increases an average of 9 percentage points between March 1st to May 1st across the province. This means that if a basin was at 100% of normal on March 1st, it could measure 109% (on average) by May 1st. Areas in the Southern Interior tend to increase by 10 to 17 percentage points on average. Recent La Niña years have resulted in significant flooding, including 2017, 2012 and 2011.

Seasonal weather forecasts from February 28, 2021 by Environment and Climate Change Canada indicate an increased likelihood of colder than normal temperatures from March through May for northern regions of the province, including the Peace, Liard, Stikine, Skeena-Nass, Nechako and Central Coast. Other areas of the province demonstrate a likelihood of having near normal temperatures. There is an increased likelihood of higher than normal precipitation for most of the province from March through May. These forecasts hint at continued snow accumulation into the start of spring, and the possibility of delayed snowmelt.

Seasonal volume runoff forecasts (see below) are near-normal (90-110%) for the Upper Fraser, Middle Fraser, Thompson, Skeena/Bulkley and Okanagan Lake. Basins with higher than normal seasonal volume runoff forecasts (110-135%) include the Nicola River, Nicola Lake, Kalamalka-Wood Lake, Similkameen and Cowichan Lake. The snowmelt component of seasonal runoff on the South Coast, Lower Fraser, Northwest and Stikine is above normal. Near normal snow pack on Vancouver Island indicates an average year of spring runoff for other watersheds on Vancouver Island.

Approximately 80% of the annual B.C. snow pack has typically accumulated by early March. Snow pack throughout the province is above normal. The combination of a high March 1st snow pack, La Niña conditions that will persist through spring, and seasonal weather forecasts that predict cooler and wetter conditions for the province means an elevated risk for freshet-related flooding. Snow pack is also only one factor related to freshet flood risk. Weather conditions from April through June determine the timing and rate of snow melt, and heavy rainfall events can exacerbate the situation. Flooding is possible in years with

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normal, or even below-normal, snow pack. Conversely, high snow pack does not typically lead to flooding without significant contributing weather during the snow melt season.

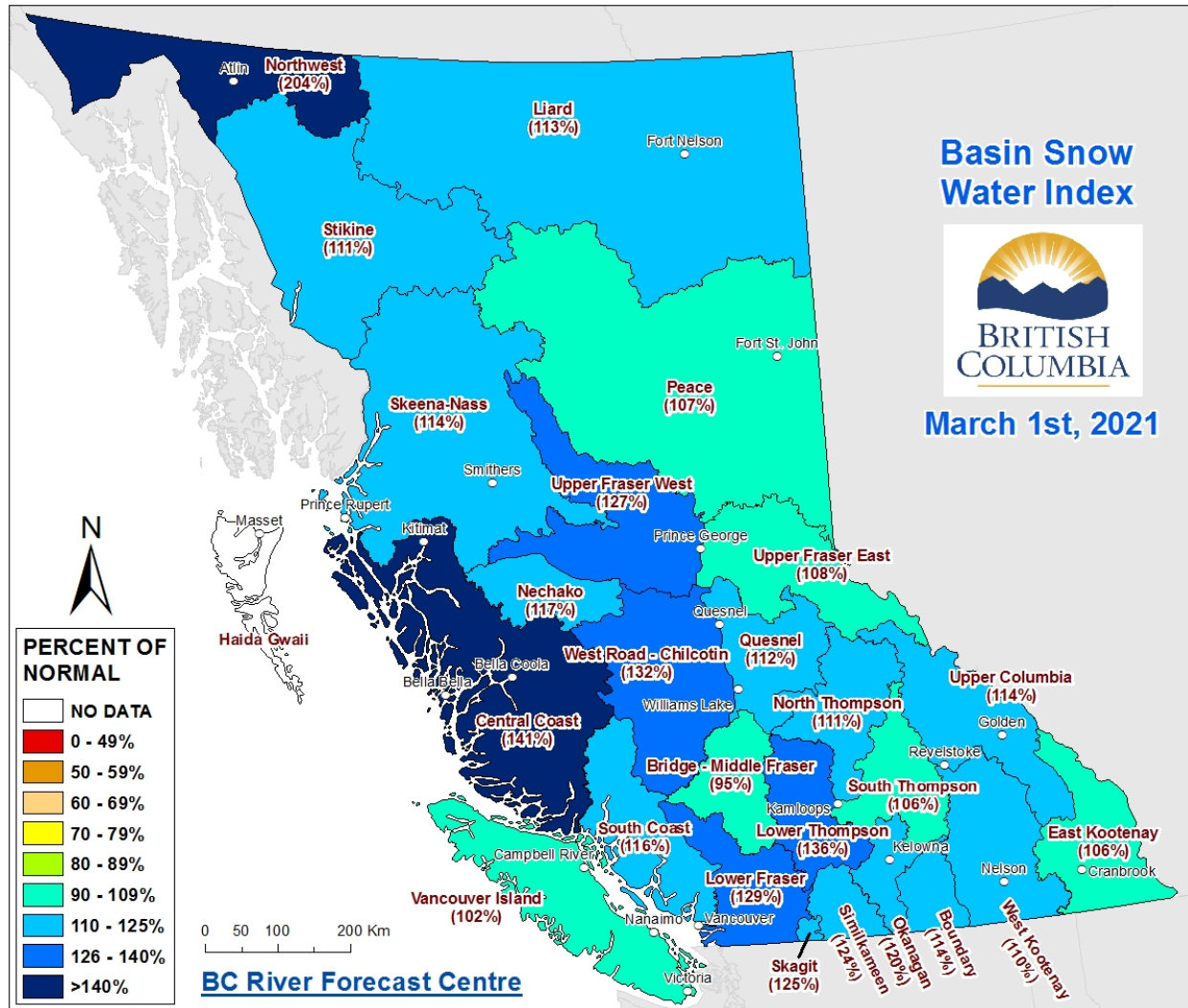
The first week of March had a few storm systems affecting the province. Regions that increased snow pack relative to normal, based on automated snow weather stations, include Vancouver Island, South Coast and Peace. The upcoming forecast for the second week of March shows relatively cool temperatures and a return to active storm systems, particularly for the North Coast.

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

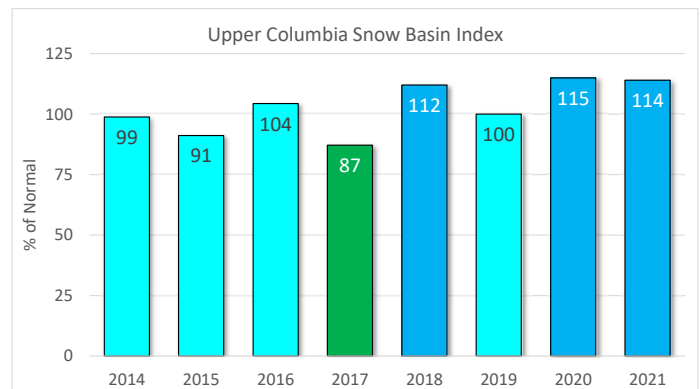
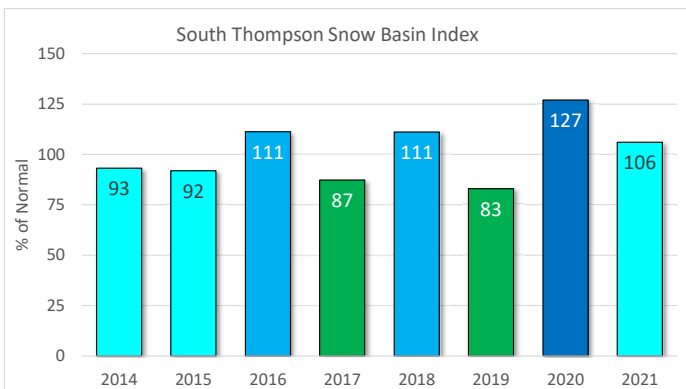
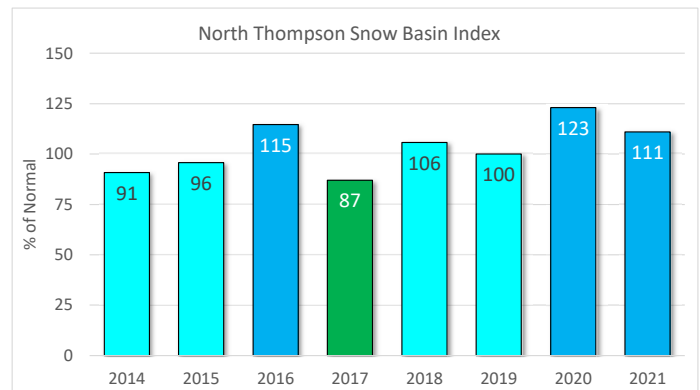
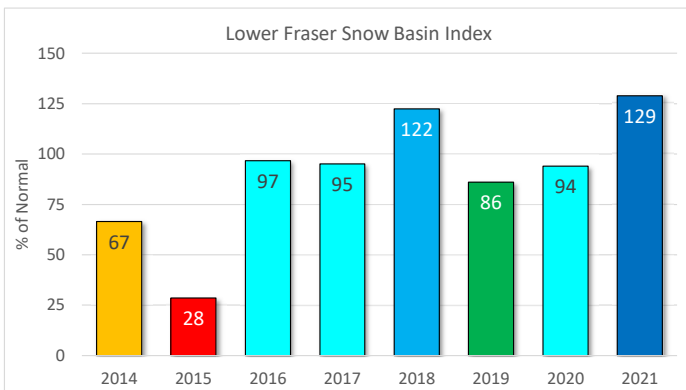
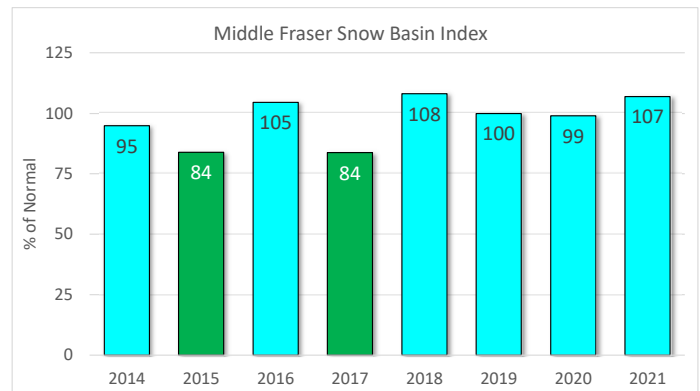
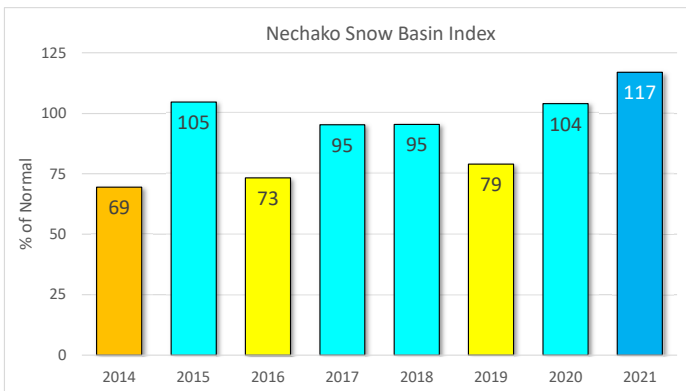
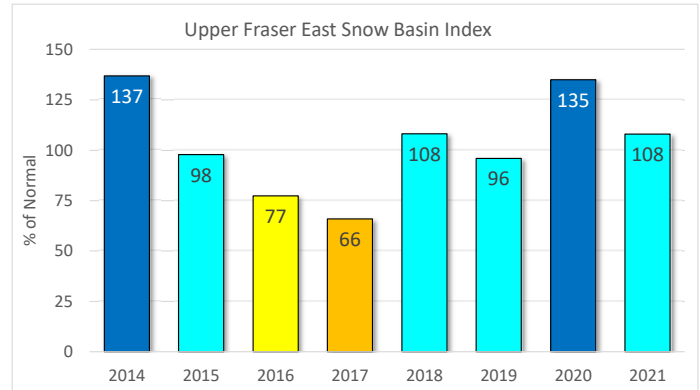
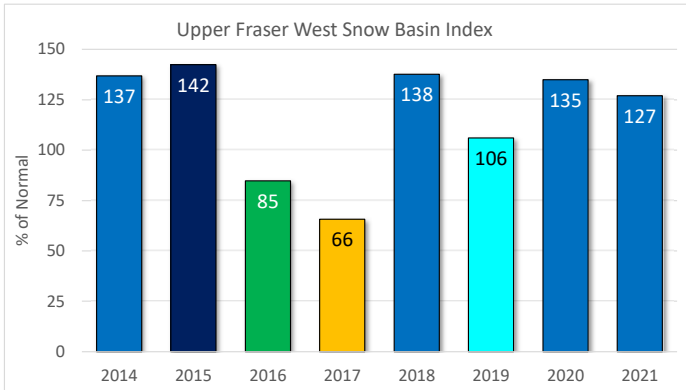
BC River Forecast Centre
March 9, 2021

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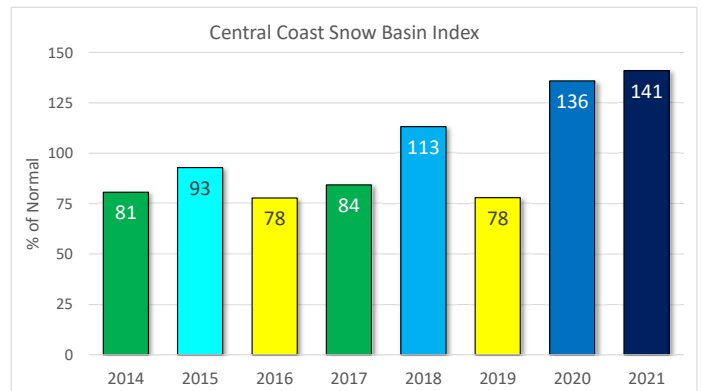
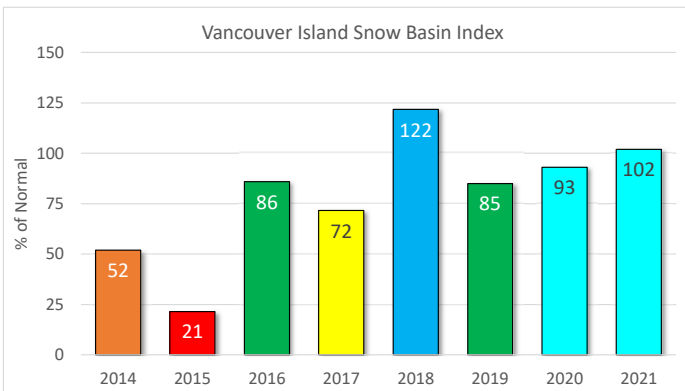
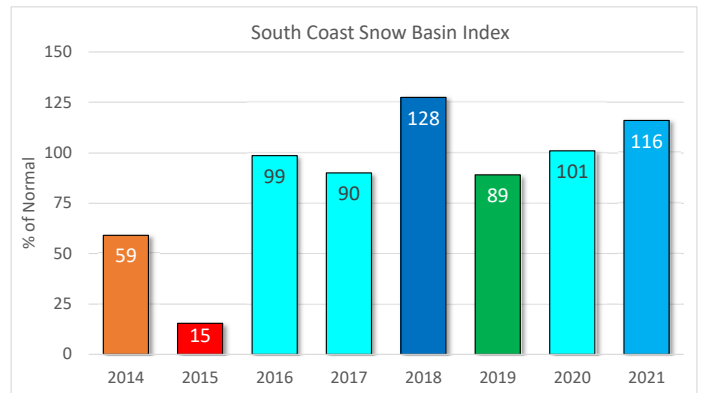
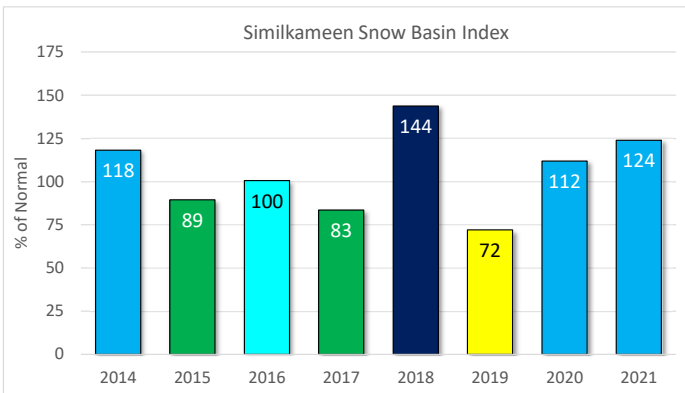
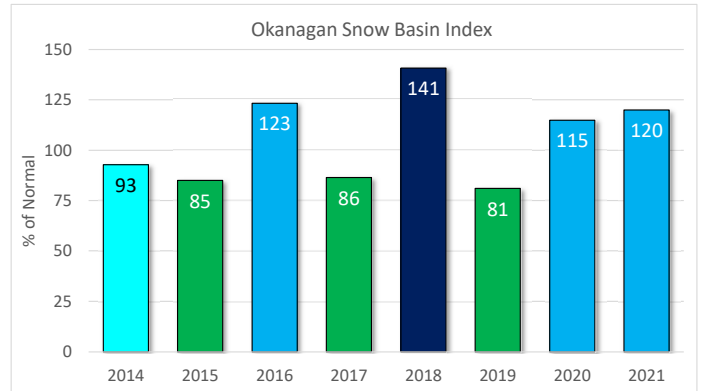
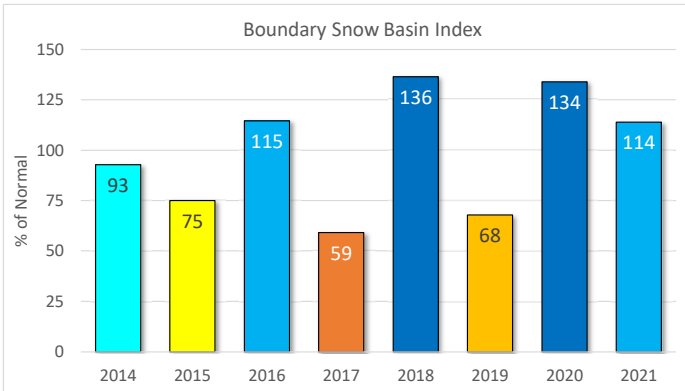
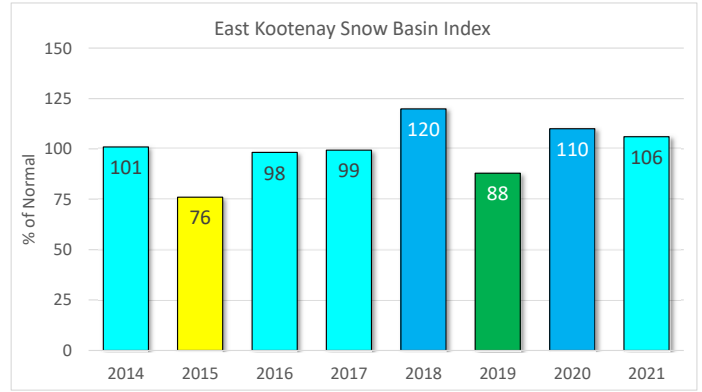
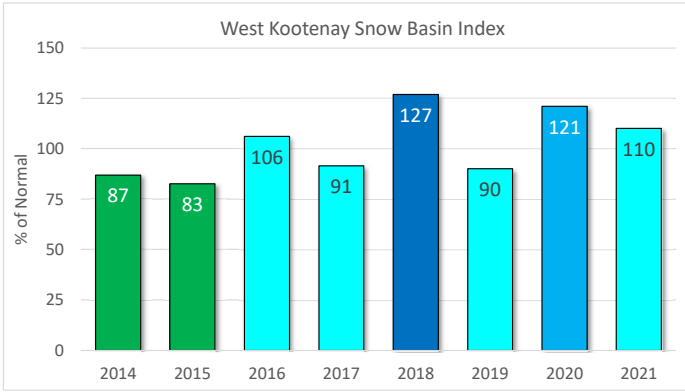
Figure 2: Basin Snow Water Index – March 1st, 2021



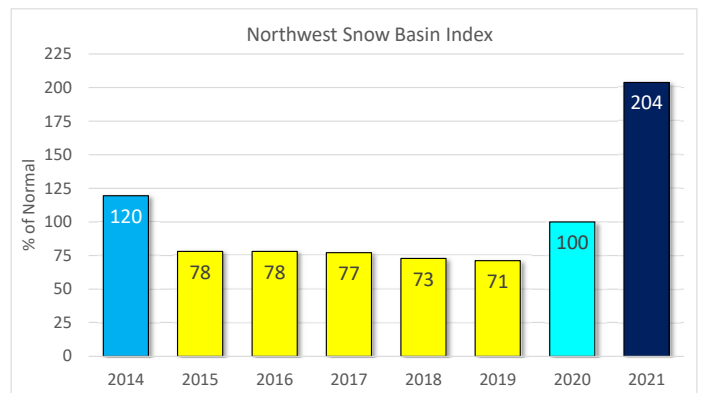
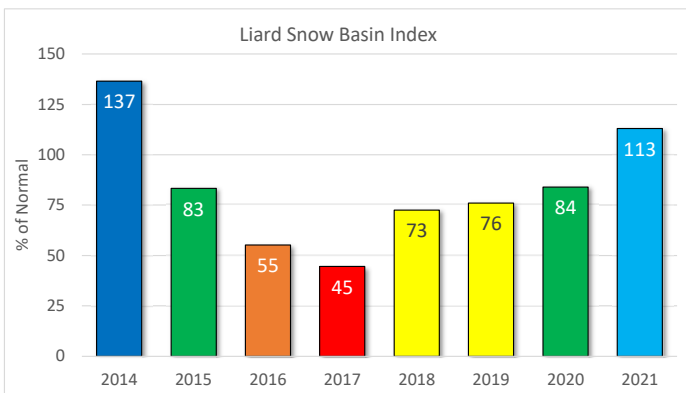
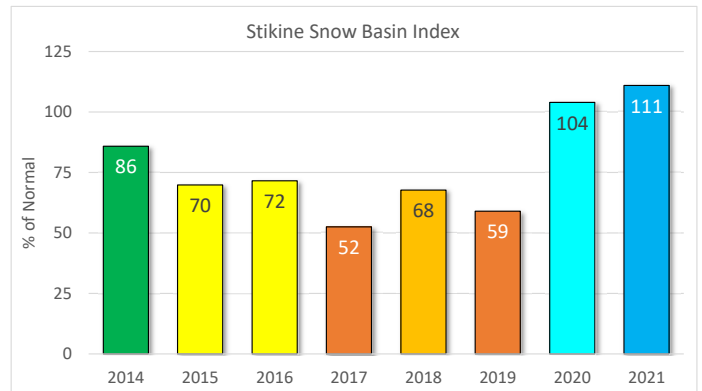
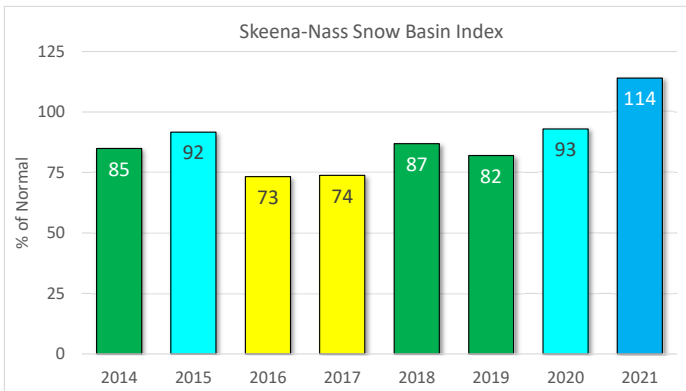
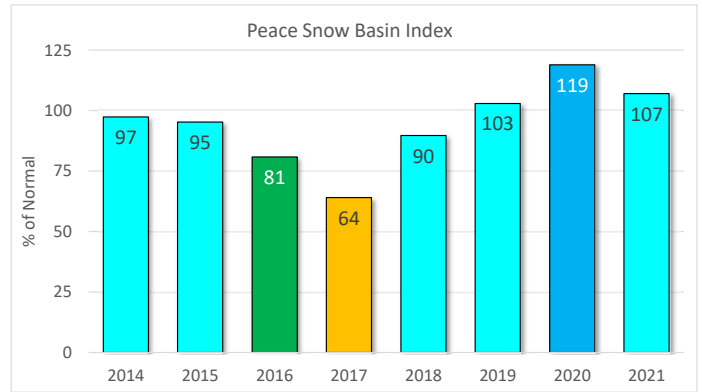
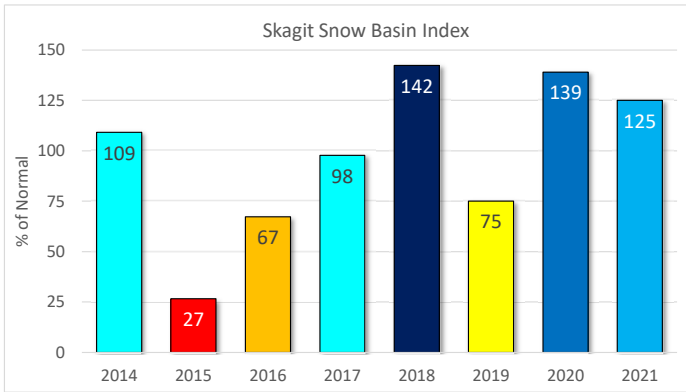
1. Every effort is made to ensure that data reported on these pages are accurate. However, in order to update the graphs and indices as quickly as possible, some data may have been estimated. Please note that data provided on these pages are preliminary and subject to revision upon review.



Snow Basin Index Graphs - March 1, 2021



Snow Basin Index Graphs - March 1, 2021



Ministry of Forests, Lands and Natural Resource Operations and Rural Development

River Forecast Centre

Volume Runoff Forecast March 2021

Location		Mar - Jun Runoff				Mar - Jul Runoff				Mar - 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					3,985	3,786	105	331	5,609	5,252	107	390
	McGregor at Lower Canyon					4,374	4,087	107	490	5,479	5,132	107	639
	Fraser at Shelley					15,214	16,310	93	1,494	18,941	20,369	93	1,832
Middle Fraser Basin	Quesnel River at Quesnel					4,961	4,747	105	510	6,393	6,078	105	670
Thompson Basin	N. Thompson at McLure					9,710	9,190	106	536	12,122	11,359	107	826
	S. Thompson at Chase					6,539	6,111	107	566	8,296	7,678	108	832
	Thompson at Spences Bridge					16,536	15,775	105	1,174	20,978	19,755	106	1,814
Bulkley and Skeena	Bulkley at Quick					2,945	2,709	109	1,361	3,570	3,306	108	1,939
	Skeena at Usk					20,251	19,187	106	1,335	24,669	23,531	105	1,809
Nicola Lake		161	126	128	31	185	143	129	35				
*new model ¹		165	134	123	NA	184	157	117	NA	217	161	134	NA
Nicola River at Spences Bridge		644	523	123	82	739	591	125	103				
*new model ²		583	539	108	51	715	589	122	NA	765	633	121	NA
Okanagan Lake		508	470	108	89	540	497	109	110				
*new model ²		543	498	109	101	578	525	110	116	580	503	115	122
Kalamalka-Wood Lake		37.2	31.1	120	12.3	39.5	32.5	122	14.9				
*new model ³		32.5	26.9	121	NA	32.2	26.8	120	NA	36.2	22.2	163	NA
Similkameen River	at Nighthawk	1,671	1,342	124	158					2,081	1,652	126	184
	at Hedley	1,399	1,045	134	134					1,662	1,233	135	151
Cowichan River	Cowichan Lake Inflows	494	423	117	70					549	467	118	74

¹ 1984-2019 Period of Record

² 1970-2019 Period of Record

³ 1975-2019 Period of Record

Note: 1 kdam³=1,000,000 m³

Note that missing values reflect that forecasts were not made for that time interval

Disclaimer: Seasonal forecasts were developed using a 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

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

UPPER FRASER EAST			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A01P	Yellowhead Lake	1860	2021-03-01	181	502	28		115%	79	499	N/A	270	428	720	438	23
1A02P	McBride Upper	1611	2021-03-01	162	439	27		110%	81	506	360	257	365	556	399	29
1A03P	Barkerville	1520	2021-03-01	128	299	23		107%	59	385	302	155	286	479	278	43
1A05	LONGWORTH (UPPER)	1693	2021-02-24	202	694	34		94%	57	1110	N	307	654	1234	739	57
1A05P	Longworth Upper	1740	2021-03-01	283	932	33		N/A	N/A	742	705	379	680	742	N/A	4
1A06A	HANSARD	608	2021-03-03	62	111	18		65%	12	200	148	44	166	396	170	47
1A10	PRINCE GEORGE A	689	2021-03-02	45	114	25		97%	39	154	144	0	130	296	117	58
1A11	PACIFIC LAKE	755	2021-02-24	195	648	33		115%	67	721	530	277	532	866	562	57
1A14P	Hedrick Lake	1100	2021-03-01	271	685	25		101%	56	620	550	366	627	1057	679	21
1A15	KNUDSEN LAKE	1602	2021-02-24	233	735	32		104%	51	1071	657	404	720	1098	706	50
1A15P	Knudsen Lake	1601	2021-03-01	243	890	37		N/A	N/A	591	444	401	493	591	N/A	4
1A17P	Revolution Creek	1690	2021-03-01	264	849	32		122%	81	1029	633	339	686	1135	694	32
1A19P	Dome Mountain	1774	2021-03-01	225	726	32		119%	76	780	531	190	634	908	608	15
			Average	203	626	30		105%	60							

Basin Index Calculation	Average SWE	527
	Average Normal	490

Stations used in Basin Index:

1A01P, 1A02P, 1A03P, 1A05, 1A06A, 1A10, 1A11, 1A14P, 1A15, 1A17P, 1A19P

Upper Fraser East Basin Index - March 1, 2021	108%
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UPPER FRASER WEST			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A12	KAZA LAKE	1250	N	N	N	N	N	N/A	N/A	N	300	162	295	478	297	54
1A12P	Kaza Lake	1257	2021-03-01	139	341	25		N/A	N/A	340	288	200	269	340	N/A	5
1A16	BURNS LAKE	800	2021-03-01	57	124	22		94%	54	160	116	0	119	250	132	50
1A23	BIRD CREEK	1180	2021-02-27	88	228	26		157%	93	192	174	72	148	296	145	31
			Average	95	231	24		126%	74							

Basin Index Calculation	Average SWE	176
	Average Normal	139

Stations used in Basin Index:

1A16, 1A23

Upper Fraser West Basin Index - March 1, 2021	127%
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NECHAKO			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1B01	MOUNT WELLS	1490	2021-03-08	161	551	34		120%	86	464	339	244	438	954	458	68
1B01P	Mount Wells	1490	2021-03-01		595			124%	84	544	409	246	475	735	481	27
1B02	TAHTSA LAKE	1300	2021-02-27	348	1120	32		109%	78	945	780	571	979	1777	1032	69
1B02P	Tahtsa Lake	1300	2021-03-01		1231			114%	84	1043	868	661	1052	1722	1076	26
1B05	SKINS LAKE	890	2021-02-27	51	117	23		113%	66	135	107	54	105	226	104	56
1B06	MOUNT SWANNELL	1620	2021-03-08	116	370	32		143%	97	345	245	132	252	446	260	32
1B07	NUTLI LAKE	1490	2021-02-27	175	567	32		125%	84	512	324	229	452	779	453	30
1B08P	Mt. Pondosy	1400	2021-03-01		755			112%	68	738	523	351	620	987	674	25
			Average	170	663	31		120%	81							

Basin Index Calculation	Average SWE	663
	Average Normal	567

Stations used in Basin Index:

1B01, 1B01P, 1B02, 1B02P, 1B05, 1B06, 1B07, 1B08P

Nechako Basin Index - March 1, 2021	117%
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LOWER THOMPSON			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1C01	BROOKMERE	980	2021-02-27	68	159	23		99%	33	92	116	53	185	351	161	75
1C06	PAVILION	1230	2021-03-01	31	65	21		111%	50	58	40	0	64	168	58	62
1C09A	HIGHLAND VALLEY	1510	2021-03-03	59	130	22		148%	87	110	90	25	87	229	88	54
1C25	LAC LE JEUNE (UPPER)	1509	2021-03-01	77	210	27		165%	96	156	91	13	116	213	128	48
1C29	SHOVELNOSE MOUNTAIN	1450	2021-02-27	88	226	26		106%	51	167	164	100	223	398	214	39
1C29P	Shovelnose Mountain	1460	2021-03-01	93	233	25		N/A	N/A	205	167	167		205	N/A	2
1C32	DEADMAN RIVER	1430	2021-03-01	71	250	35		220%	100	120	110	44	109	220	114	36
1C42	CAVERHILL LAKE NEW	1400	2021-03-01	99	276	28		136%	N/A	329	210	60	207	329	203	16
			Average	73	194	26		141%	70							

*record high

Basin Index Calculation	Average SWE	188
	Average Normal	138
Lower Thompson Basin Index - March 1, 2021		136%

Stations used in Basin Index:
1C01, 1C06, 1C09A, 1C25, 1C29, 1C32, 1C42

BRIDGE / LILLOOET			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1C05	MCGILLIVRAY PASS	1725	2021-02-24	146	432	30		89%	25	484	445	222	499	1016	487	66
1C05P	McGillivray Pass	1718	2021-03-01		447			N/A	N/A	383	464	383	464	549	N/A	3
1C12P	Green Mountain	1780	2021-03-01		582			82%	29	484	684	311	719	1265	710	27
1C14	BRALORNE	1389	2021-02-24	60	157	26		111%	48	103	149	0	158	363	141	57
1C14P	Bralorne	1382	2021-03-01	80	211	26		N/A	N/A	170	210	170	210	245	N/A	3
1C18P	Mission Ridge	1850	2021-03-01		565			121%	79	502	392	160	443	866	468	44
1C28	DUFFEY LAKE	1200	2021-02-26	145	447	31		101%	64	452	423	194	424	762	442	42
1C37	BRALORNE(UPPER)	1981	N	N	N	N	N	N/A	N/A	N	526	268	550	944	539	21
1C38	DOWNTON LAKE (UPPER)	1887	2021-02-24	189	658	35		89%	33	642	768	302	709	1250	736	24
1C38P	Downton Lake Upper	1829	2021-03-01		488			N/A	N/A	558	672	558	667	686	N/A	5
1C39	BRIDGE GLACIER (LOWER)	1390	2021-02-24	138	404	29		79%	19	420	556	146	520	954	512	25
1C40	TYAUGHTON CREEK (NORTH)	1947	2021-02-24	145	454	31		120%	83	316	392	138	366	916	380	25
1C40P	North Tyaughton	1969	2021-03-01		429			N/A	N/A	241	316	241	297	422	N/A	5
			Average	129	440	30		99%	48							

Basin Index Calculation	Average SWE	462
	Average Normal	484
Bridge/Lillooet Basin Index - March 1, 2021		95%

Stations used in Basin Index:
1C05, 1C12P, 1C14, 1C18P, 1C28, 1C38, 1C39, 1C40

CHILCOTIN			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1C08	NAZKO	1070	2021-03-04	41	91	22		121%	68	94	81	0	70	155	75	44
1C21	BIG CREEK	1140	2021-02-28	37	89	24		169%	89	36	31	0	48	112	53	48
1C22	PUNTZI MOUNTAIN	940	2021-02-28	46	68	15		113%	67	52	44	0	52	128	60	50
			Average	41	83	20		134%	75							

Basin Index Calculation	Average SWE	83
	Average Normal	63
Chilcotin Basin Index - March 1, 2021		132%

Stations used in Basin Index:
1C08, 1C21, 1C22

QUESNEL			March 1, 2021 Data					Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C13A	HORSEFLY MOUNTAIN	1550	N	N	N	N	N	N/A	N/A	553	552	238	428	624	440	47
1C17	MOUNT TIMOTHY	1660	2021-03-02	112	268	24		96%	46	229	280	141	284	468	280	58
1C20P	Boss Mountain Mine	1460	2021-03-01	196	595	30		122%	84	507	500	221	480	739	488	27
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	453	784	1132	814	40
1C33A	GRANITE MOUNTAIN	1150	2021-03-03	78	185	24		106%	53	182	198	112	183	211	174	15
1C41P	Yanks Peak East	1670	2021-03-01	226	787	35		113%	79	993	834	409	708	993	697	24
			Average	153	459	28		109%	66							

Basin Index Calculation	Average SWE	459
	Average Normal	410
Quesnel Basin Index - March 1, 2021		112%

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

MIDDLE FRASER

Basin Index Calculation	Average SWE	317
	Average Normal	296
Middle River Basin Index - March 1, 2021		107%

Stations used in Basin Index:
1C01, 1C06, 1C09A, 1C25, 1C29, 1C32, 1C42, 1C05, 1C12P, 1C14, 1C18P, 1C28, 1C38, 1C39, 1C40, 1C08, 1C21, 1C22, 1C17, 1C20P, 1C33A, 1C41P

LOWER FRASER			March 1, 2021 Data					Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1D06P	Tenquille Lake	1680	2021-03-01	244	883	36		107%	59	804	853	488	853	1219	823	19
1D08	STAVE LAKE	1250	2021-02-24	355	1380	39		121%	69	N	1091	120	1230	2500	1136	51
1D08P	Lamont Creek Upper	1217	2021-03-01		1471			N/A	N/A						N/A	0
1D09	WAHLEACH LAKE	1480	2021-02-24	199	715	36		158%	86	512	421	37	488	1072	452	53
1D09P	Wahleach Lake Upper	1480	2021-03-01		982			129%	79	743	562	251	733	1320	759	27
1D10	NAHATLATCH RIVER	1550	N	N	N	N	N	N/A	N/A	N	1071	400	1114	2380	1078	47
1D16	DICKSON LAKE	1160	2021-02-24	382	1538	40		140%	84	N	728	22	1102	1814	1101	25
1D17P	Chilliwack River	1600						N/A	N/A	1406	1148	514	1272	2360	1254	28
1D18	DISAPPOINTMENT LAKE	1050	2021-02-26	390	1550	40		130%	86	1192	1056	300	1352	1732	1191	19
1D18P	Disappointment Lake	1050	2021-03-01	367	1468	40	E	125%	70	998	780	259	1239	1996	1174	13
1D19P	Spuzzum Creek	1180	2021-03-01	362	1603	44		130%	85	1022	1083	265	1182	2625	1235	22
			Average	328	1288	39		130%	77							

Basin Index Calculation	Average SWE	1265
	Average Normal	984
Lower Fraser Basin Index - March 1, 2021		129%

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

NORTH THOMPSON			March 1, 2021 Data					Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1E01B	BLUE RIVER	670	2021-02-22	81	218	27		76%	7	359	276	179	278	411	289	37
1E02P	Mount Cook	1550	2021-03-01	362	1303	36	E	121%	91	1229	1090	787	1046	1615	1073	17
1E03A	TROPHY MOUNTAIN	1860	2021-03-01	162	532	33		116%	80	602	430	216	440	778	460	46
1E07	ADAMS RIVER	1720	2021-02-23	191	652	34		112%	78	730	524	262	558	892	584	50
1E08P	Azure River	1652	2021-03-01	290	1000	34		108%	70		749	563	968	1339	926	21
1E10P	Kostal Lake	1770	2021-03-01	232	655	28		92%	27	617	724	481	715	1023	711	35
1E14P	Cook Creek	1280	2021-03-01	185	665	36		135%	89	680	N/A	308	491	686	491	11
			Average	215	718	33		109%	63							

Basin Index Calculation	Average SWE	718
	Average Normal	648
North Thompson Basin Index - March 1, 2021		111%

Stations used in Basin Index:
1E01B, 1E02P, 1E03A, 1E07, 1E08P, 1E10P, 1E14P

SOUTH THOMPSON			March 1, 2021 Data				Mar 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	
									SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1F01A	ABERDEEN LAKE	1310	2021-03-03	62.8	151	24	104%	60	207	114	51	140	250	146	64
1F02	ANGLEMONT	1190	2021-03-01	98	297	30	91%	34	469	275	160	328	635	326	63
1F03P	Park Mountain	1890	2021-03-01	210	769	37	108%	70	879	554	393	694	1038	715	36
1F04P	Enderby	1950	2021-03-01	279	740	27	N/A	N/A	827	648	648	770	854	N/A	4
1F04P2	Enderby Tower 2	1950	2021-03-01		996		N/A	N/A	1056	695	695	876	1056	N/A	2
1F06P	Celista Mountain	1500	2021-03-01	241	816	34	112%	82	863	702	545	732	908	731	15
Average				178	628	30	103%	62							

Basin Index Calculation	Average SWE	508
	Average Normal	480
South Thompson Basin Index - March 1, 2021		106%

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

FRASER RIVER

Basin Index Calculation	Average SWE	576
	Average Normal	503
Fraser River Basin Index - March 1, 2021		115%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A05, 1A06A, 1A10, 1A11, 1A14P, 1A15, 1A17P, 1A19P, 1A16, 1A23, 1C01, 1C06, 1C09A, 1C25, 1C29, 1C32, 1C42, 1C05, 1C12P, 1C14, 1C18P, 1C28, 1C38, 1C39, 1C40, 1C08, 1C21, 1C22, 1C17, 1C20P, 1C33A, 1C41P, 1D06P, 1D08, 1D09, 1D09P, 1D16, 1D18, 1D18P, 1D19P, 1E01B, 1E02P, 1E03A, 1E07, 1E08P, 1E10P, 1E14P, 1F01A, 1F02, 1F03P, 1F06P

UPPER COLUMBIA			March 1, 2021 Data				Mar 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	
									SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2A02	GLACIER	1250	2021-02-24	186	663	36	112%	70	708	612	251	586	952	591	81
2A03A	FIELD	1285	2021-02-24	66	163	25	110%	63	184	163	53	155	248	148	81
2A06P	Mount Revelstoke	1850	2021-03-01		1064		110%	67	1161	898	537	957	1494	971	26
2A07	KICKING HORSE	1650	2021-02-24	112	315	28	113%	59	340	292	140	305	462	278	74
2A11	BEAVERFOOT	1890	2021-02-24	89	206	23	120%	74	208	172	80	185	333	171	59
2A14	MOUNT ABBOT	2010	2021-02-25	324	1225	38	122%	84	1094	1098	508	992	1448	1001	61
2A16	GOLDSTREAM	1920	2021-02-27	304	1075	35	110%	73	1154	953	553	943	1351	979	57
2A17	FIDELITY MOUNTAIN	1870	2021-02-26	377	1338	35	126%	86	1405	995	534	991	1703	1058	58
2A18	KEYSTONE CREEK	1890	2021-02-27	216	753	35	112%	69	695	626	357	663	1277	673	51
2A18P	Keystone Creek	1840					N/A	N/A	808	733	733	779	821	N/A	5
2A19	VERMONT CREEK	1520	2021-02-24	143	432	30	120%	65	345	355	152	362	643	360	54
2A21P	Molson Creek	1935	2021-03-01		982		112%	77	887	880	437	880	1215	875	39
2A22	SUNBEAM LAKE	2010	2021-02-27	262	951	36	125%	85	900	728	389	770	1117	761	49
2A23	BUSH RIVER	1920	2021-02-27	242	842	35	119%	77	813	699	281	686	1078	707	49
2A25	KIRBYVILLE LAKE	1750	2021-02-27	304	1049	35	104%	63	1116	1031	526	969	1476	1006	47
2A27	DOWNIE SLIDE (LOWER)	980	2021-02-27	217	674	31	107%	75	856	590	378	590	1018	629	37
2A29	DOWNIE SLIDE (UPPER)	1630	2021-02-27	341	1236	36	107%	71	1188	1168	614	1078	2120	1150	40
2A30P	Colpitti Creek	2131	2021-03-01		821		N/A	97	785	641	423	650	836	N/A	11
2A31P	Caribou Creek Upper	2201	2021-03-01		952		N/A	N/A	832	717	717	779	890	N/A	5
2A32P	Wildcat Creek	2122	2021-03-01		595		N/A	N/A	664	542	434	526	664	N/A	5
Average				N/A	807	N/A	114%	74							

Basin Index Calculation	Average SWE	811
	Average Normal	710
Upper Columbia Basin Index - March 1, 2021		114%

Stations used in Basin Index:
2A02, 2A03A, 2A06P, 2A07, 2A11, 2A14, 2A16, 2A17, 2A18, 2A19, 2A21P, 2A22, 2A23, 2A25, 2A27, 2A29

WEST KOOTENAY			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2B02A	FARRON	1220	2021-02-24	104	300	29		109%	66	279	292	79	278	450	274	46
2B05	WHATSHAN (UPPER)	1525	2021-02-26	200	593	30		106%	61	767	412	285	561	918	560	58
2B06P	Barnes Creek	1620	2021-03-01		547			121%	83	642	410	227	439	690	451	28
2B07	KOCH CREEK	1860	2021-02-26	202	645	32		106%	54	712	N	269	602	996	609	54
2B08P	St. Leon Creek	1800	2021-03-01		1041			117%	89	1246	845	423	878	1392	888	27
2B09	RECORD MOUNTAIN	1890	2021-03-03	190	602	32		101%	60	580	490	147	577	1136	594	44
2D02	FERGUSON	880	2021-03-02	179	610	34		120%	79	381	N	283	512	796	507	65
2D03	SANDON	1070	2021-03-01	113	368	33		114%	72	435	285	196	304	475	324	41
2D04	NELSON	930	2021-03-01	101	309	31		103%	36	313	185	118	336	558	301	81
2D05	GRAY CREEK (LOWER)	1550	2021-03-03	126	381	30		99%	45	471	304	201	386	663	385	69
2D06	CHAR CREEK	1310	2021-03-01	135	397	29		89%	29	443	400	231	446	754	447	53
2D07A	DUNCAN LAKE NO. 2	630	N	N	N	N	N	N/A	N/A	215	91	52	140	322	149	28
2D07AP	Duncan Lake Dam 2	559	2021-03-01		6			N/A	N/A	201	N/A	201		201	N/A	1
2D08P	East Creek	2030	2021-03-01		848			117%	80	893	806	312	716	1167	722	39
2D09	MOUNT TEMPLEMAN	1860	N	N	N	N	N	N/A	N/A	N	843	490	864	1534	872	42
2D10	GRAY CREEK (UPPER)	1940	2021-03-03	192	628	33		102%	59	711	487	343	608	955	615	48
2D10P	GRAY CREEK (UPPER)	1930	2021-03-01	198	632	32		N/A	N/A	N/A	N/A				N/A	0
2D14P	Redfish Creek	2104	2021-03-01	326	1191	37		114%	72	1316	968	615	1069	1316	1047	19
			Average	172	569	32		109%	63							

Basin Index Calculation	Average SWE	604
	Average Normal	552
West Kootenay Basin Index - March 1, 2021		110%

Stations used in Basin Index:
2B02A, 2B05, 2B06P, 2B07, 2B08P, 2B09, 2D02, 2D03, 2D04, 2D05, 2D06, 2D08P, 2D10, 2D14P

EAST KOOTENAY			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2C01	SINCLAIR PASS	1370	2021-02-27	54	124	23		115%	58	159	123	44	117	262	108	73
2C04	SULLIVAN MINE	1550	2021-03-01	94	284	30		122%	57	205	210	53	264	465	234	75
2C09Q	Morrissey Ridge	1860	2021-03-01		358			65%	2	548	405	240	548	1074	551	37
2C10P	Moyie Mountain	1930	2021-03-01	99	326	33		91%	47	401	298	149	331	653	358	40
2C11	KIMBERLY UPPER	2140	2021-03-03	129	412	32		123%	71	NS	NS	152	356	696	335	42
2C12	KIMBERLY MIDDLE	1680	2021-03-03	76	225	30		112%	58	NS	NS	97	216	386	202	41
2C14P	Floe Lake	2090	2021-03-01		690			121%	90	642	510	254	590	893	572	25
2C15	MOUNT ASSINIBOINE	2230	2021-02-24	160	499	31		116%	73	487	448	185	425	680	430	47
2C16	MOUNT JOFFRE	1750	N	N	N	N	N	N/A	N/A	353	242	122	289	551	293	49
2C17	THUNDER CREEK	2010	2021-02-24	94	264	28		118%	72	239	192	91	236	378	223	49
			Average	101	354	30		109%	59							

Basin Index Calculation	Average SWE	354
	Average Normal	335
East Kootenay Basin Index - March 1, 2021		106%

Stations used in Basin Index:
2C01, 2C04, 2C09Q, 2C10P, 2C11, 2C12, 2C14P, 2C15, 2C17

BOUNDARY			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2E01	MONASHEE PASS	1370	2021-02-26	121	337	28		118%	74	411	221	149	292	442	286	61
2E02	CARMI	1250	2021-03-02	51	118	23		94%	37	N	76	47	133	274	126	57

2E03	BIG WHITE MOUNTAIN	1680	2021-02-24	148	421	28	106%	63	N	272	208	381	676	397	54
2E07P	Grano Creek	1860	2021-03-01	154	501		126%	76	518	263	198	387	634	398	22
Average				119	344	26	111%	63							

Basin Index Calculation	Average SWE	344
	Average Normal	302
Boundary Basin Index - March 1, 2021		114%

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

OKANAGAN			March 1, 2021 Data				Mar 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 (1991-2020)	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	2021-02-25	77	228	30		125%	88	217	109	109	186	271	182	10
2F01AP	Trout Creek West	1420	2021-03-01	110	266	24		N/A	N/A	241	156	156		241	N/A	2
2F02	SUMMERLAND RESERVOIR	1280	2021-02-25	97	269	28		133%	88	256	171	97	211	381	202	60
2F03	MCCULLOCH	1280	2021-03-01	75	204	27		129%	86	229	112	71	158	249	158	80
2F04	GRAYSTOKE LAKE	1840	2021-02-23	136	394	29		133%	82	348	270	128	302	605	296	35
2F05P	Mission Creek	1780	2021-03-01	164	492	30		120%	83	566	312	203	386	634	409	50
2F07	POSTILL LAKE	1370	2021-02-25	74	183	25		101%	50	250	132	98	183	274	181	71
2F08	GREYBACK RESERVOIR	1550	2021-03-02	84	177	21		88%	42	N	160	91	186	312	202	51
2F08P	Greyback Reservoir	1550	2021-03-01	78	190	24		N/A	N/A	265	158	158	212	298	N/A	4
2F09	WHITEROCKS MOUNTAIN	1830	2021-02-25	177	614	35		135%	87	N	428	180	448	809	455	63
2F10	Silver Star Mountain	1840	2021-02-26	211	673	32		109%	68	N	573	347	598	912	619	58
2F10P	Silver Star Mountain	1839	2021-03-01	195	690	35		N/A	N/A	773	569	445	622	773	N/A	5
2F11	ISINTOK LAKE	1680	2021-02-23	70	152	22		106%	61	186	92	53	143	358	143	56
2F12	MOUNT KOBAN	1810	2021-02-24	119	352	30		134%	90	247	172	61	257	488	262	54
2F13	ESPERON CR (UPPER)	1650	2021-02-25	126	390	31		121%	73	N	248	157	332	635	321	51
2F14	ESPERON CR (MIDDLE)	1430	2021-02-25	112	352	31		129%	77	N	234	132	286	513	273	27
2F18P	Brenda Mine	1460	2021-03-01		324			110%	69	281	214	186	284	435	296	25
2F19	OYAMA LAKE	1340	2021-03-01	71	176	25		120%	73	198	114	73	145	241	146	51
2F19P	OYAMA LAKE	1360	2021-03-01	79	230	29		N/A	N/A	N/A	N/A				N/A	0
2F20	VASEUX CREEK	1400	2021-02-26	57	124	22		110%	56	140	114	52	116	284	112	49
2F21	BOULEAU LAKE	1400	2021-02-27	108	336	31		135%	81	256	176	165	254	432	250	50
2F23	MACDONALD LAKE	1740	2021-03-04	112	486	44		131%	94	343	322	170	348	583	370	44
2F24	ISLAHT LAKE	1480	2021-03-01	128	272	21		101%	53	218	214	161	269	497	270	39
2F25	POSTILL LAKE UPPER	1540	2021-02-25	89	222	25		117%	69	248	138	112	206	274	190	10
Average				111	325	28		119%	74							

Basin Index Calculation	Average SWE	321
	Average Normal	267
Okanagan Basin Index - March 1, 2021		120%

Stations used in Basin Index:
2F01A, 2F02, 2F03, 2F04, 2F05P, 2F07, 2F08, 2F09, 2F10, 2F11, 2F12, 2F13, 2F14, 2F18P, 2F19, 2F20, 2F21, 2F23, 2F24, 2F25

SIMILKAMEEN			March 1, 2021 Data				Mar 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 (1991-2020)	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	2021-03-01	247	790	32		116%	75	711	532	229	650	1323	681	53
2G04	LOST HORSE MOUNTAIN	1920	2021-03-03	105	270	26		140%	92	288	135	92	185	508	194	58
2G05	MISSEZULA MOUNTAIN	1550	2021-03-03	88	238	27		132%	73	182	119	76	190	363	180	57
2G06	HAMILTON HILL	1490	2021-03-02	115	328	29		129%	69	260	142	102	280	676	254	58
Average				139	407	28		129%	77							

Basin Index Calculation	Average SWE	407
	Average Normal	327
Similkameen Basin Index - March 1, 2021		124%

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

SOUTH COAST			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3A01	GROUSE MOUNTAIN	1100	2021-02-25	329	1230	37		123%	76	1078	840	0	981	2320	999	70
3A02	POWELL RIVER (UPPER)	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	868		868	868	1
3A05	POWELL RIVER (LOWER)	910	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	588		588	588	1
3A09	PALISADE LAKE	880	2021-02-26	329	1392	42		129%	76	962	910	0	1120	3150	1083	65
3A09P	Palisade Lake	900	2021-03-01	287	1277	45		N/A	N/A	682	585	585		682	N/A	2
3A10	DOG MOUNTAIN	1080	2021-02-24	314	1210	39		130%	84	980	672	0	980	2146	931	37
3A19	ORCHID LAKE	1190	2021-02-26	412	1575	38		112%	84	1320	1364	190	1457	2960	1408	44
3A20	CALLAGHAN CREEK	1040	2021-03-02	219	784	36		113%	71	686	738	40	722	1260	693	43
3A20P	Callaghan	1017	2021-03-01	251	678	27		N/A	N/A	710	839	710		839	N/A	2
3A22P	Nostetuko River	1500	2021-03-01	129	506	39		106%	56	448	403	86	458	878	479	31
3A24P	Mosley Creek Upper	1650	2021-03-01	89	260	29		101%	57	230	218	98	238	555	256	32
3A25P	Squamish River Upper	1340	2021-03-01	352	1267	36		96%	35	1427	1335	558	1343	2312	1322	29
3A26	CHAPMAN CREEK	1022	2021-02-23	326	1222	37		115%	64	1180	940	662	1023	1412	1064	11
3A27	EDWARDS LAKE	1070	2021-02-23	255	914	36		129%	73	770	540	380	656	964	709	9
3A28P	Tetrahedron	1420	2021-03-01	408	1466	36		N/A	N/A	1155	953	953	1155	1186	N/A	3
			Average	285	1060	37		115%	68							

Basin Index Calculation	Average SWE	1036
	Average Normal	894
South Coast Basin Index - March 1, 2021		116%

Stations used in Basin Index:
3A01, 3A09, 3A10, 3A19, 3A20, 3A22P, 3A24P, 3A25P, 3A26, 3A28P

VANCOUVER ISLAND			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3B01	FORBIDDEN PLATEAU	1100	2021-02-24	314	1238	39		105%	50	1214	1169	101	1214	2730	1177	65
3B02A	MOUNT COKELY	1190	NS	NS	NS	NS	NS	N/A	N/A	N	N	14	664	1034	596	31
3B04	ELK RIVER	270	2021-02-24	1	5	50	T	8%	43	92	39	0	53	546	61	60
3B10	UPPER THELWOOD LAKE	990	2021-02-24	302	1112	37		103%	52	1014	820	0	1064	2440	1079	59
3B17P	Wolf River Upper	1490	2021-03-01		934			89%	33	920	959	204	1033	2085	1052	33
3B18	WOLF RIVER (MIDDLE)	990	2021-02-24	155	436	28		91%	42	462	240	0	474	1344	479	50
3B19	WOLF RIVER (LOWER)	640	2021-02-24	82	252	31		80%	37	352	390	0	332	1064	314	49
3B23P	Jump Creek	1160	2021-03-01	286	1206	42		134%	77	701	741	20	861	2206	897	25
3B24P	Heather Mountain Upper	1190	2021-03-01	277	1294	47		N/A	N/A	962	651	651	1070	1557	N/A	5
3B26P	Mount Arrowsmith	1465	2021-03-01	230	923	40		N/A	N/A	743	780	743	780	1123	N/A	3
			Average	206	822	39		87%	48							

Basin Index Calculation	Average SWE	740
	Average Normal	723
Vancouver Island Basin Index - March 1, 2021		102%

Stations used in Basin Index:
3B01, 3B04, 3B10, 3B17P, 3B18, 3B19, 3B23P

CENTRAL COAST			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3C07	WEDEENE RIVER SOUTH	220	2021-03-04	190	624	33		143%	87	626	318	119	381	945	435	32
3C08P	Burnt Bridge Creek	1330	2021-03-01	287	980	34		139%	92	880	546	285	663	1229	703	22
			Average	239	802	33		141%	90							

Basin Index Calculation	Average SWE	802
	Average Normal	569
Central Coast Basin Index - March 1, 2021		141%

Stations used in Basin Index:
3C07, 3C08P

SKAGIT			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3D01C	SUMALLO RIVER WEST	790	2021-02-24	87	224	26		108%	54	308	141	0	210	442	208	29
3D02	LIGHTNING LAKE	1220	2021-02-28	115	311	27		120%	75	326	186	36	250	497	260	47
3D03A	KLESILKWA	1175	2021-02-24	104	312	30		147%	66	336	192	0	238	759	212	67
			Average	102	282	28		125%	65							

Basin Index Calculation	Average SWE	282
	Average Normal	227
Skagit Basin Index - March 1, 2021		125%

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

PEACE			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4A02P	Pine Pass	1400	2021-03-01	348	1123	32		122%	83	1162	890	606	909	1485	923	28
4A03	WARE (UPPER)	1575	2021-03-01	93	204	22		95%	50	223	216	114	204	360	215	60
4A03P	Ware Upper	1565	2021-03-01	92	176	19		N/A	N/A	196	204	145	200	223	N/A	4
4A04	WARE (LOWER)	970	2021-03-01	82	177	22		105%	63	199	184	66	152	246	168	55
4A04P	Ware Lower	971	2021-03-01	75	166	22		N/A	N/A	182	185	91	185	196	N/A	4
4A05	GERMANSEN (UPPER)	1480	2021-03-02	113	334	30		111%	71	401	363	174	288	520	301	60
4A06	TUTIZZI LAKE	1045	2021-03-02	103	278	27		119%	82	268	240	102	231	386	234	57
4A07	LADY LAURIER LAKE	1440	2021-02-23	159	501	32		113%	79	428	390	255	417	662	443	53
4A09	PULPIT LAKE	1335	N	N	N	N	N	N/A	N/A	436	361	233	352	531	370	56
4A09P	Pulpit Lake	1311	2021-03-01	111	283	25		78%	10	383	305	200	377	515	365	30
4A10	FREDRICKSON LAKE	1325	2021-03-01	102	217	21		102%	59	306	235	86	201	315	213	56
4A11	TRYGVGE LAKE	1410	2021-03-01	122	316	26		101%	66	382	296	186	295	453	312	56
4A12	TSAYDAYCHI LAKE	1190	2021-03-02	154	463	30		131%	91	430	395	166	325	540	355	57
4A12P	Tsaydaychi Lake	1195	2021-03-01	157	419	27		N/A	N/A	N/A	N/A				N/A	0
4A13	PHILIP LAKE	1035	2021-03-02	112	309	28		124%	80	284	292	118	237	400	249	56
4A13P	Philip Lake	1028	2021-03-01		269			N/A	N/A	276	N/A	276		276	N/A	1
4A16	MORFEE MOUNTAIN	1430	2021-03-02	236	819	35		113%	71	878	816	312	696	1166	726	53
4A18	MOUNT SHEBA	1490	2021-02-24	222	808	36		107%	66	1008	808	394	717	1123	754	48
4A18P	MOUNT SHEBA	1484	2021-03-01	288	901	31		N/A	N/A	991	802	802		991	N/A	2
4A20	MONKMAN CREEK	1570	2021-02-24	146	434	30		90%	33	580	468	211	472	925	484	36
4A20P	Monkman Creek	1570	2021-03-01		310			N/A	N/A	371	390	371		390	N/A	2
4A21	MOUNT STEARNS	1505	2021-02-23	44	89	20		73%	23	124	150	40	123	227	123	46
4A25	FORT ST. JOHN A	690	2021-03-05	24	63	26		62%	13	90	124	38	93	191	102	46
4A27P	Kwadacha North	1554	2021-03-01	119	248	21		92%	30	312	234	158	268	405	269	30
4A30P	Aiken Lake	1050	2021-03-01	100	226	23		101%	57	167	211	117	220	363	224	33
4A31P	Crying Girl Prairie	1358	2021-03-01		188			N/A	N/A	192	209	124	206	220	N/A	5
4A33P	Muskwa-Kechika	1196	2021-03-01		102			N/A	N/A	62	92	33	74	96	N/A	5
4A34P	Dowling Creek	1456	2021-03-01		1026			N/A	N/A	1072	1288	1072	1199	1288	N/A	3
4A36P	Parsnip Upper	790	2021-03-01	155	362			N/A	N/A	345	336	336		345	N/A	2
4A37P	McQue Terrace	1200						N/A	N/A	113	N/A	113		113	N/A	1
			Average	137	386	27		102%	57							

Basin Index Calculation	Average SWE	383
	Average Normal	359
Peace Basin Index - March 1, 2021		107%

Stations used in Basin Index:

4A02P, 4A03, 4A04, 4A05, 4A06, 4A07, 4A09P, 4A10, 4A11, 4A12, 4A13, 4A16, 4A18, 4A20, 4A21, 4A25, 4A27P, 4A30P

SKEENA-NASS			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4B01	KIDPRICE LAKE	1370	2021-03-08	285	1033	36		131%	92	701	645	429	744	1320	791	69
4B02	JOHANSON LAKE	1420	2021-03-02	105	266	25		106%	66	331	N	148	238	368	252	56
4B03A	HUDSON BAY MTN.	1480	2021-02-26	178	534	30		120%	81	406	419	287	419	719	444	49
4B04	CHAPMAN LAKE	1460	2021-03-01	152	455	30		110%	73	370	421	266	377	691	415	55
4B06	TACHEK CREEK	1140	2021-03-02	90	238	26		119%	82	174	196	117	186	332	199	52
4B07	MCKENDRICK CREEK	1050	2021-03-01	100	260	26		104%	54	223	242	155	249	391	250	51
4B08	MOUNT CRONIN	1480	2021-03-01	154	446	29		91%	34	425	486	345	475	869	492	51
4B10	NINGUNSAW PASS	690	N	N	N	N	N	N/A	N/A	N	296	210	371	629	365	44
4B11A	BEAR PASS	460	2021-03-02	254	782	31		155%	95	N	290	87	534	824	503	33
4B13A	TERRACE AIRPORT	180	2021-03-04	45	161	36		119%	57	230	88	0	125	407	135	38
4B14	EQUITY MINE	1420	2021-02-26	127	368	29		106%	74	352	N	190	323	546	348	42
4B15	LU LAKE	1300	2021-02-26	96	268	28		106%	64	216	N	122	242	412	254	41
4B15P	Lu Lake	1300	2021-03-01	112	299	27		122%	80	253	236	120	236	402	246	23
4B16P	Shedin Creek	1480	2021-03-01	221	616	28		93%	35	622	502	393	679	957	665	24
4B17P	Tsai Creek	1360	2021-03-01	272	950	35		102%	66	840	821	587	859	1600	932	23
4B18P	Cedar-Kiteen	885	2021-03-01	234	698	30		124%	78	502	420	281	490	953	561	18
Average				162	492	30		114%	69							

Basin Index Calculation	Average SWE	492
	Average Normal	433
Skeena-Nass Basin Index - March 1, 2021		114%

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

LIARD			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4C01	SIKANNI LAKE	1385	2021-02-23	94	219	23		96%	56	238	200	106	212	335	227	55
4C01P	Sikanni Lake	1387	2021-03-01	108	226	21		N/A	N/A	255	114	114	224	283	N/A	4
4C02	SUMMIT LAKE	1280	2021-03-02	55	128	23		121%	76	73	114	0	97	190	106	50
4C03	DEASE LAKE	820	2021-03-03	81	144	18		124%	74	102	90	45	107	229	116	55
4C05	FORT NELSON AIRPORT	380	2021-03-01	52	112	22		134%	77	59	70	40	92	177	84	53
Average				78	166	21		119%	71							

Basin Index Calculation	Average SWE	151
	Average Normal	133
Liard Basin Index - March 1, 2021		113%

Stations used in Basin Index:
4C01, 4C02, 4C03, 4C05

STIKINE			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4D02	ISKUT	1000	2021-03-03	46	90	20		97%	48	134	60	33	98	176	93	45
4D10P	Tumeka Creek	1220	2021-03-01		493			103%	55	519	314	262	485	789	479	23
4D11P	Kinaskan Lake	1020	2021-03-01	137	405	30		126%	80	367	201	148	280	557	321	25
Average				N/A	329	N/A		109%	61							

Basin Index Calculation	Average SWE	329
	Average Normal	298
Stikine Basin Index - March 1, 2021		111%

Stations used in Basin Index:
4D02, 4D10P, 4D11P

NORTHWEST			March 1, 2021 Data				Mar 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4E01	LOG CABIN	900	2021-02-23	216	700	32		198%	100	405	232	124	324	529	353	60
4E02B	ATLIN LAKE	730	2021-03-01	90	207	23		224%	100	54	66	54	87	166	93	15
			Average	153	454	28		211%	100							

*record high

*record high

Basin Index Calculation	Average SWE	454
	Average Normal	223
Northwest Basin Index - March 1, 2021		204%

Stations used in Basin Index:

4E01, 4E02B

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	542
	Average Normal	476
British Columbia Basin Index - March 1, 2021		114%

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

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The April 1st snow survey is now complete. Data from 136 manual snow courses and 92 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 (ECCC) and the provincial Climate Related Monitoring Program have been used to form the basis of the following report.¹

Executive Summary

The April 1st, 2021 snowpack throughout British Columbia is above normal. The average of all snow measurements across B.C. decreased slightly to 113% (March 1st: 114%). The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) increased slightly to 116% from the March 1st index of 115%. By early April, approximately 95% of the annual B.C. snowpack has typically accumulated. The risk of spring flooding is elevated due to the above normal snowpack across the entire province. While snowpack is one risk factor for freshet flooding, snowpack alone cannot predict whether flooding will occur or not. Spring weather is also a critical flood risk factor, where the timing and severity of temperature and rainfall patterns are important drivers of flooding irrespective of snowpack levels.

Weather

March weather was relatively active for Coastal and Northern regions of British Columbia, resulting in continued snow accumulation at higher elevations. The South Interior remained very mild through March with limited precipitation.

Temperatures throughout the province were near normal (between -2 and +2.0°C) for the month. Warmer than normal temperatures were measured in the East Kootenay region (+2 to +4°C) and a very warm temperature anomaly (>4.0°C) was observed in the Fraser Canyon near Lytton. Precipitation ranged from exceptionally high to exceptionally low in March. Wetter than normal conditions were measured for the Central Coast, North Coast, Nechako, and Skeena/Nass. Very dry conditions occurred in the South Interior (<40% of normal precipitation), encompassing the North Thompson, South Thompson, Okanagan, Boundary, East Kootenay, West Kootenay, Upper Columbia, and Similkameen. Precipitation was slightly below normal for other regions of the province.

The first week of April was relatively cool with a couple of minor storm systems moving through the province. The second weekend of the month is forecast to remain cool with another low-pressure system affecting many parts of the province. A major change in weather pattern is forecasted next week (starting April 12th), in which a high-pressure ridge will likely result in very warm temperatures for the province.

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

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Snowpack

Snow basin indices (SBI) for April 1st, 2021 range from a low of 93% of normal in the East Kootenay to a high of 200% in the Northwest (Table 1 and Figure 2). Overall, the province has above normal snowpack for April 1st, 2021, with the average of all snow measurements across B.C. decreasing slightly to 113% (March 1st: 114%). The East Kootenay is the only region below 100% of normal. Regions with normal to slightly above normal snowpack (100-110%) include the Middle Fraser, North Thompson, South Thompson, Upper Columbia, West Kootenay, Okanagan, Nicola and Boundary. Above normal snowpack (110-125%) is present in the Upper Fraser East, Nechako, Lower Fraser, Similkameen, South Coast, Vancouver Island, Skagit, Peace, Skeena-Nass and Liard. Regions with well above normal (>125%) snowpack are the Upper Fraser West, Central Coast, Stikine and Northwest. The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) increased slightly to 116% from the March 1st index of 115%. A table of SWE amounts for the individual sites used to calculate SBI values is included in the final pages of this report and best describes specific conditions for each area.

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

Basin	% of Normal (Mar 1st value)	Basin	% of Normal (Mar 1st value)
Upper Fraser West	132 (127)	Okanagan	109 (120)
Upper Fraser East	122 (108)	Nicola**	108 (119)
Nechako	119 (117)	Boundary	103 (114)
Middle Fraser	108 (107)	Similkameen	112 (124)
Lower Thompson*	122 (136)	South Coast	118 (116)
Bridge*	103 (95)	Vancouver Island	110 (102)
Chilcotin*	125 (132)	Central Coast	146 (141)
Quesnel*	109 (112)	Skagit	116 (125)
Lower Fraser	123 (129)	Peace	112 (107)
North Thompson	103 (111)	Skeena-Nass	115 (114)
South Thompson	100 (106)	Stikine	135 (111)

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Upper Columbia	108 (114)	Liard	133 (113)
West Kootenay	100 (110)	Northwest	200 (204)
East Kootenay	93 (106)	Fraser	116 (115)
		British Columbia	113 (114)

*sub-basin of Middle Fraser

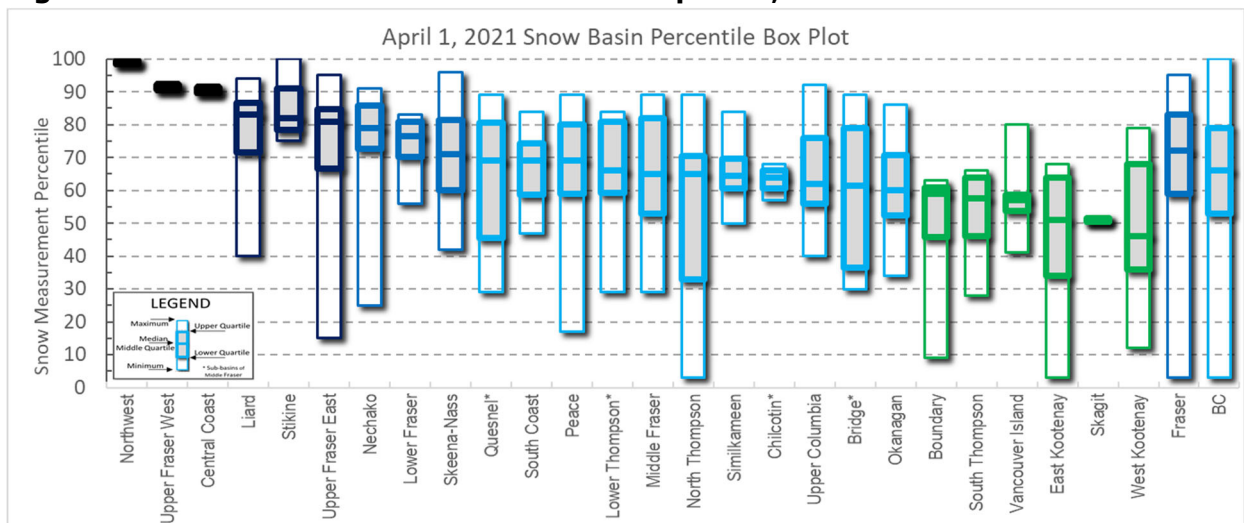
**sub-basin of Lower Thompson – includes representative stations within Okanagan

Two manual snow surveys recorded all-time record high values for April 1st, including:

- 4D02 Iskut: 199 mm SWE (222% of normal) – period of record 45 years
- 4E01 Log Cabin: 786 mm SWE (191% of normal) – period of record 61 years

Percentiles calculated for each site within a basin offer a more accurate interpretation of snowpack variability, especially in regions where the percent of normal is extremely high or low. For example, the average April 1st percentile for all sites within the Central Coast region is the 91st percentile. This means that historical April 1st values for these sites in aggregate were below current values 91% of the time in the historic record, and snowpack was higher than current values 9% of the time. The region with the highest average percentile is the Northwest (99th percentile). The region with the lowest average percentile is the East Kootenay (45th percentile). A box plot displaying percentile ranges ordered from highest to lowest median, including sub-basins of the Middle Fraser, is provided below in Figure 1. It is useful to compare the following box plot with a region's calculated SBI. For example, the SBI of the North Thompson is 103% of normal, whereas the median percentile for snow measurement sites is above normal at the 65th percentile, demonstrating how one or two very low measurements can skew the SBI.

Figure 1: Snow Basin Percentile Box Plot – April 1st, 2021



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Outlook

La Niña conditions began in fall 2020 and are beginning to ease. According to the Climate Prediction Center (CPC), there is an 80% chance of transitioning from La Niña to ENSO-neutral conditions during May-July 2021. 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 and early spring months. Recent La Niña years (2017, 2012, and 2011) have seen significant flooding.

During the spring snowmelt period (freshet), short and mid-range weather forecasts are more critical compared to seasonal weather predictions. Since mid-March, temperatures have remained seasonable to slightly below normal through province, resulting in a slight delay in snow melt. An upcoming warm spell beginning the week of April 12th will kick start snow melt at low and mid elevations throughout the province. The warm weather may create challenges for smaller creeks and lower elevation areas; however, the upcoming warm weather may be considered a positive for larger, higher elevation watersheds.

Seasonal volume runoff forecasts (see below) are slightly above normal (105-120%) for the Upper Fraser, Skeena/Bulkley, Similkameen, Nicola River and Cowichan River. Near normal (95-105%) runoff forecasts are predicted for the Middle Fraser, Thompson, and Okanagan Lake. Nicola Lake is forecast to be well above normal (>125%), whereas Kalamalka-Wood Lake is expecting slightly below normal runoff (<95%). Above normal snowpack on Vancouver Island and the South Coast indicates the potential for higher than normal runoff for watersheds with a significant proportion of their area at higher elevations.

The Fraser River SBI is above normal at 116% and equal to the April 1st values in 2020. The distribution of the snowpack is slightly different this year with more snow in the Upper Fraser West, Nechako, Middle Fraser and Lower Fraser, whereas there is less snow in the Upper Fraser East, North Thompson, and South Thompson watersheds. The seasonal flood risk for the entire Fraser River is elevated. The modelled peak flow forecast for the Fraser River at Hope is approximately 9,500 m³/s, with a likely range of 8,000-11,500 m³/s. However, these are estimates only and higher flows are possible, particularly if adverse weather patterns, such as extreme rainfall or heat, materialize in spring.

By early April, nearly 95% of the annual BC snowpack has typically accumulated. Peak provincial snowpack usually occurs in mid-April. Warmer temperatures beginning the week of April 12th are expected to initiate the freshet season with low elevation snow melt and corresponding rises in streamflow, particularly in smaller creeks and low elevation areas.

While snowpack is one risk factor for freshet flooding, snowpack alone cannot predict

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

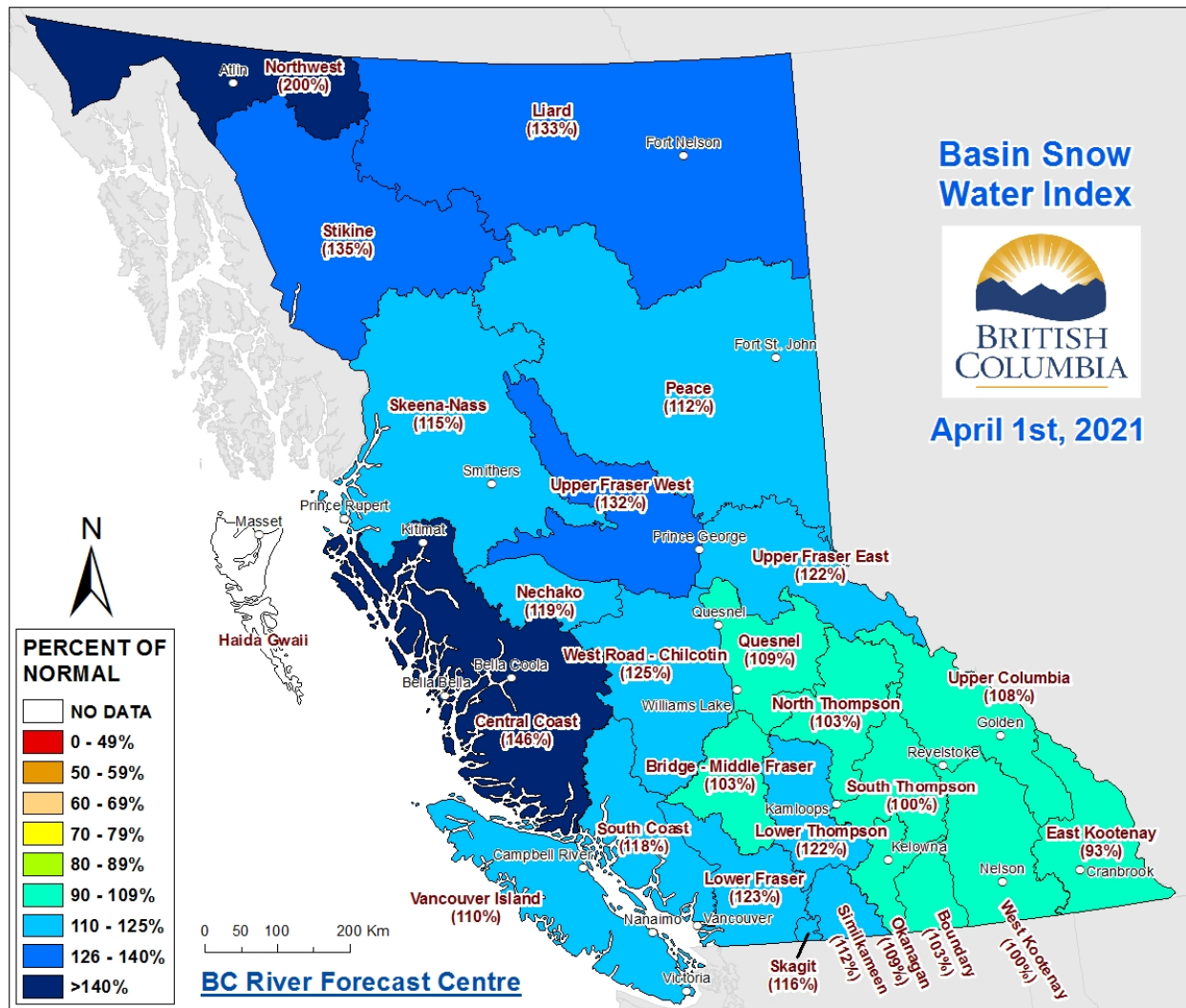
whether flooding will occur or not. Spring weather is also critical, where the timing and severity of temperature and rainfall patterns are important drivers of flooding irrespective of snowpack. Spring freshet poses a seasonal risk across the BC Interior. Scenarios that could exacerbate flood risk this year include prolonged cool weather followed by a rapid shift to persistent hot weather (particularly in May), or persistent wet weather or extreme short-term rainfall. Favourable scenarios would include continued dry weather and seasonal temperatures.

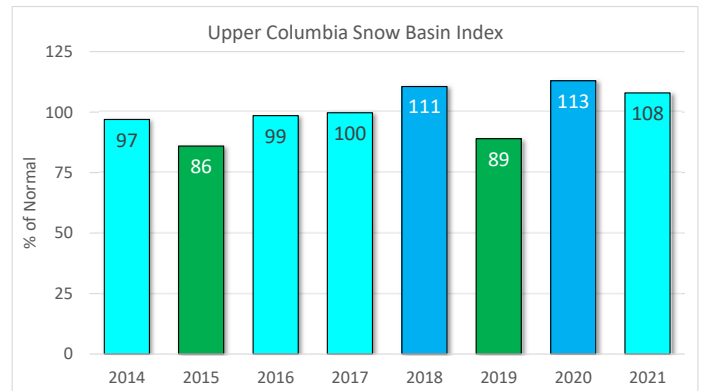
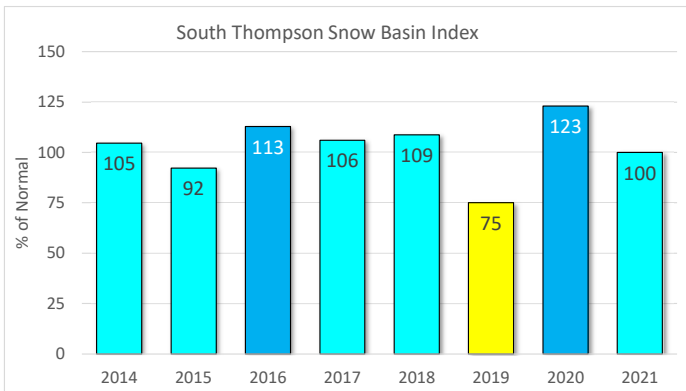
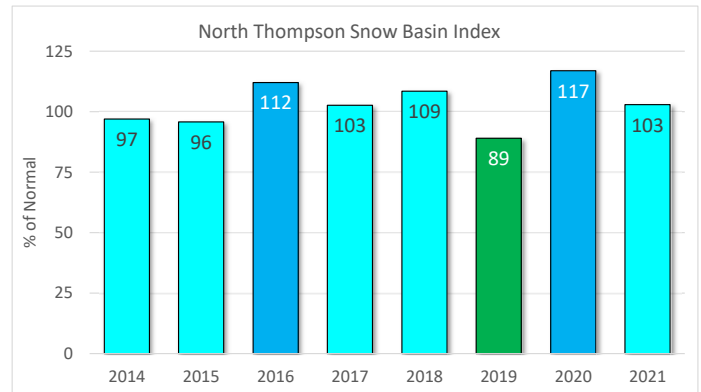
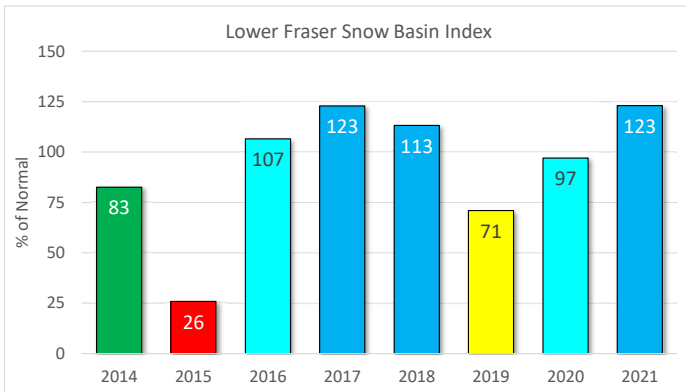
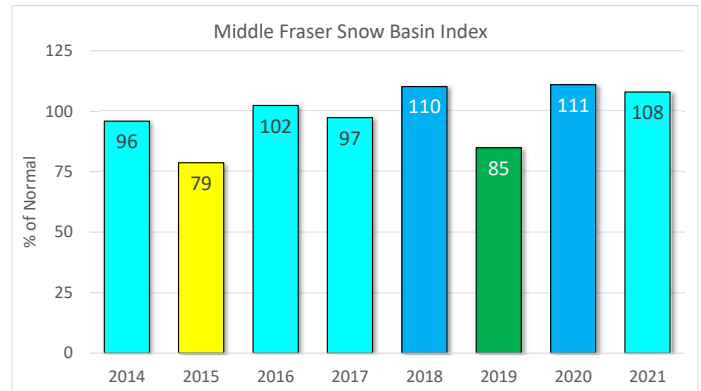
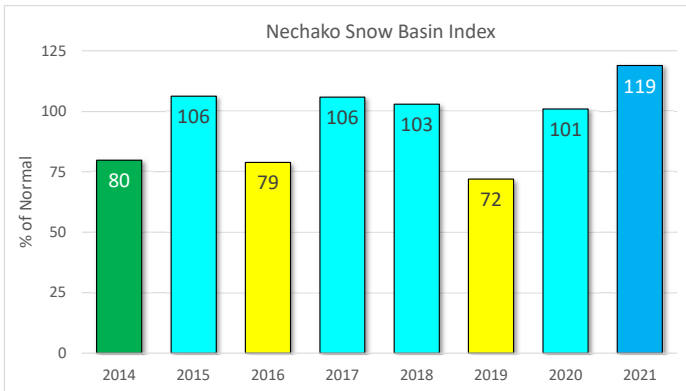
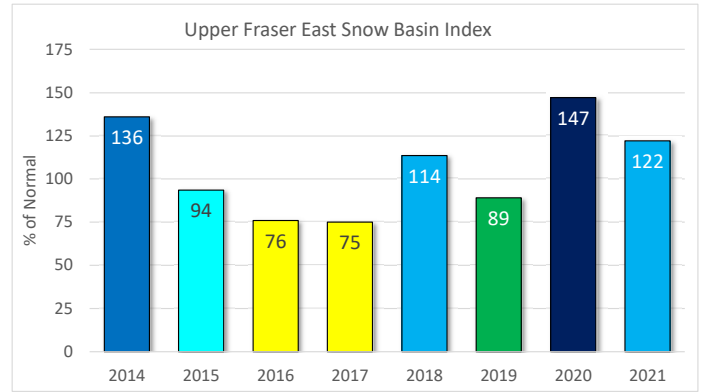
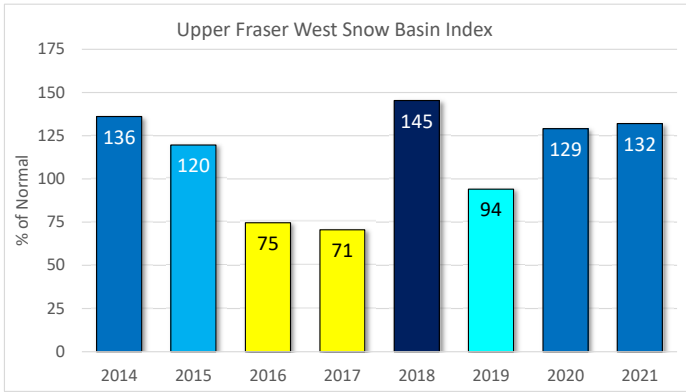
The River Forecast Centre will continue to monitor snowpack conditions and will provide an updated seasonal flood risk forecast in the May 1st 2021 bulletin, which is scheduled for release on Friday, May 7th.

BC River Forecast Centre
April 9, 2021

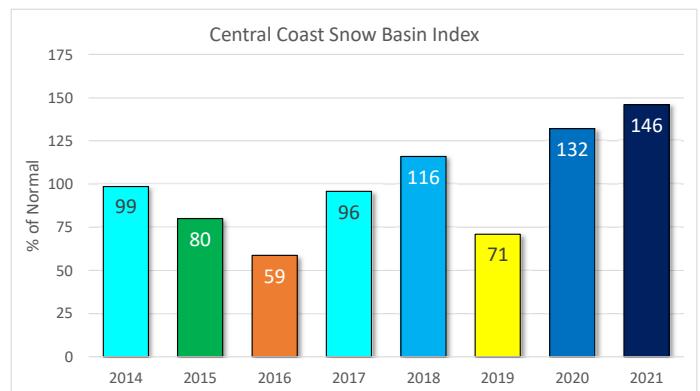
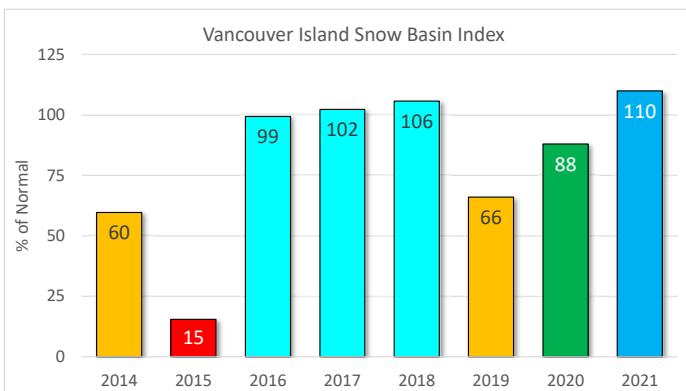
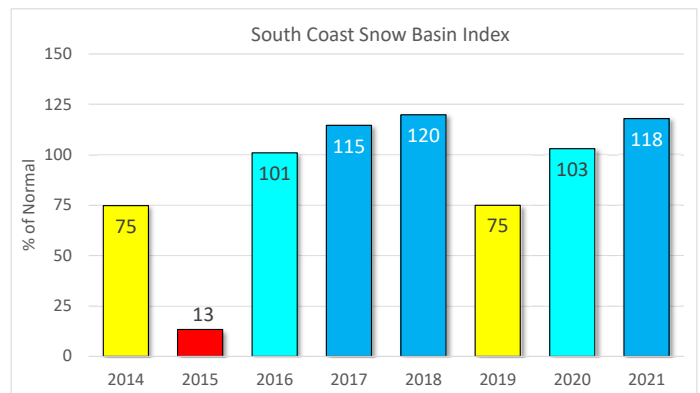
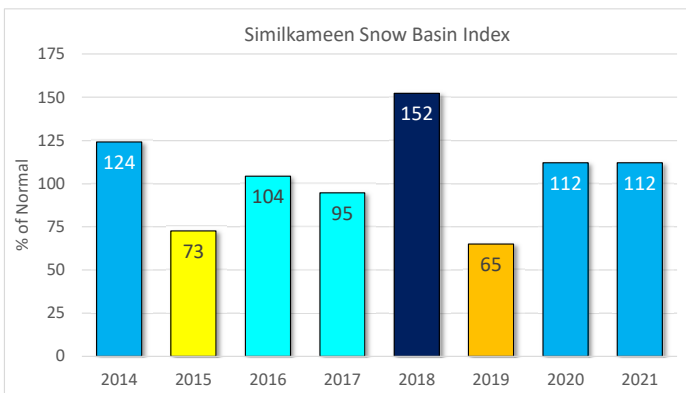
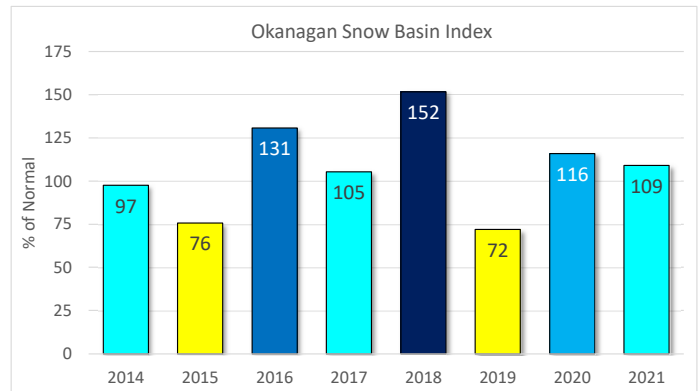
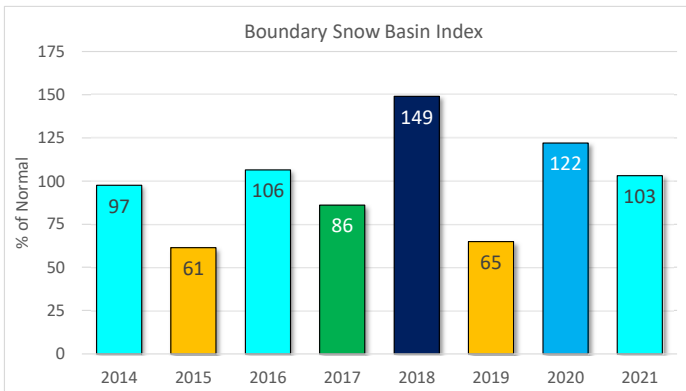
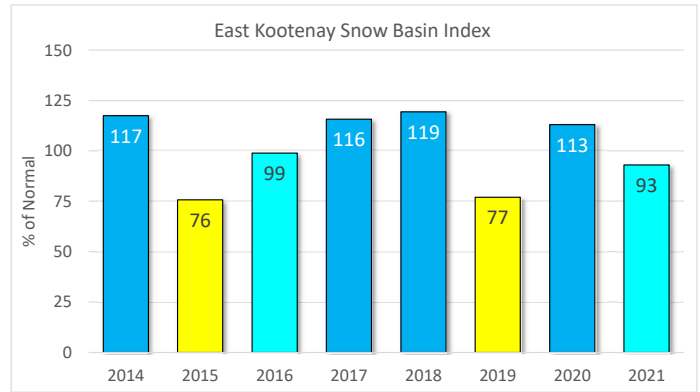
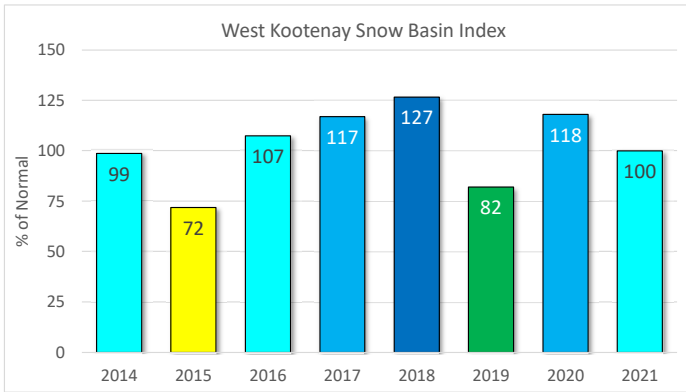
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Figure 2: Basin Snow Water Index – April 1st, 2021

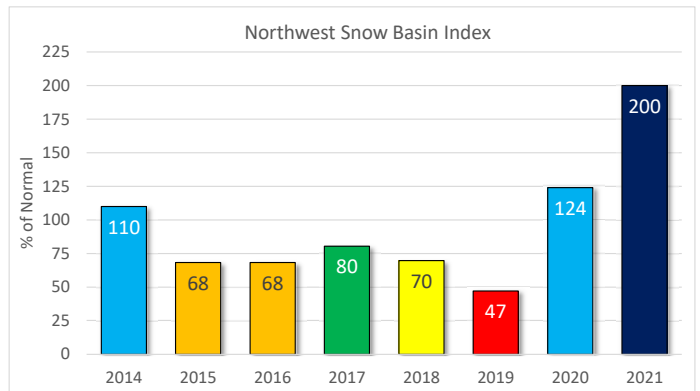
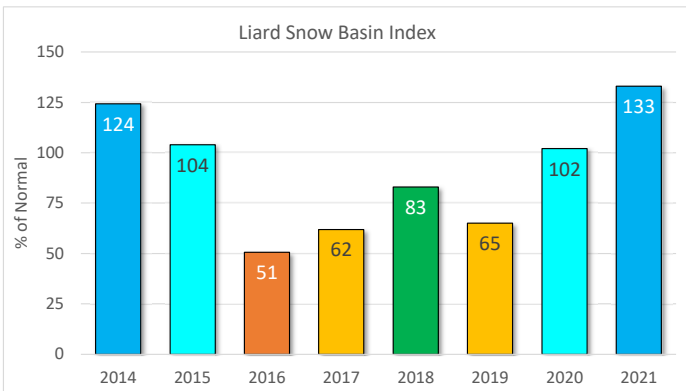
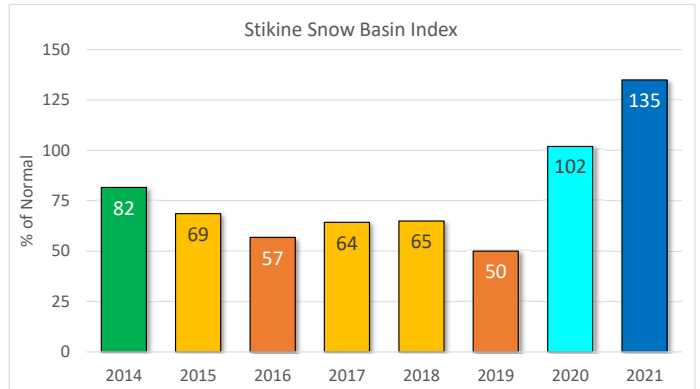
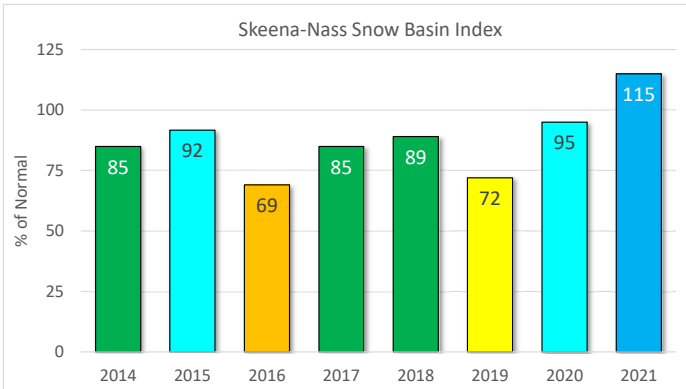
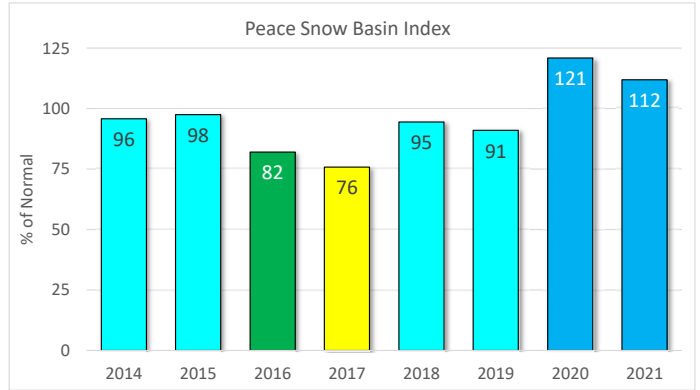
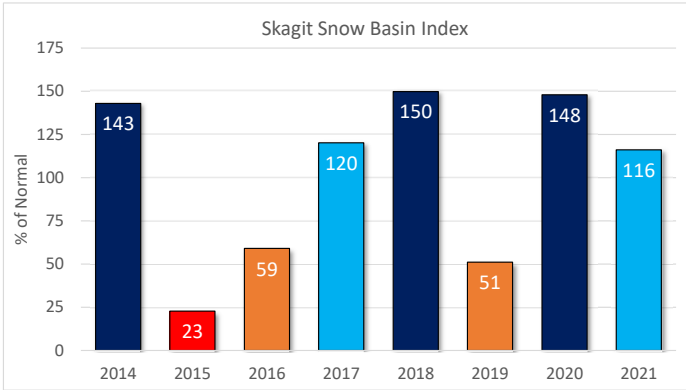




Snow Basin Index Graphs - April 1, 2021



Snow Basin Index Graphs - April 1, 2021



Ministry of Forests, Lands and Natural Resource Operations and Rural Development
River Forecast Centre
Volume Runoff Forecast April 2021

Location		Apr - Jun Runoff				Apr - Jul Runoff				Apr - 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					3,889	3,699	105%	307	5,457	5,166	106%	381
	McGregor at Lower Canyon					4,709	3,964	119%	428	5,865	5,010	117%	564
	Fraser at Shelley					17,753	15,670	113%	1,179	22,137	19,730	112%	1,562
Middle Fraser Basin	Quesnel River at Quesnel					4,679	4,541	103%	418	6,085	5,872	104%	568
Thompson Basin	N. Thompson at McLure					8,998	8,916	101%	481	11,304	11,085	102%	753
	S. Thompson at Chase					5,942	5,792	103%	448	7,600	7,359	103%	686
	Thompson at Spences Bridge					15,371	15,114	102%	973	19,658	19,094	103%	1,560
Bulkley and Skeena	Bulkley at Quick					3,021	2,625	115%	236	3,667	3,222	114%	272
	Skeena at Usk					20,572	18,673	110%	1,173	25,097	23,017	109%	1,698
Nicola Lake		156	121	129%	30	177	138	129%	35				
*new model ¹		189	130	146%	23	201	152	133%	26	190	153	124%	31
Nicola River at Spences Bridge		536	486	110%	82	615	554	111%	101				
*new model ²		799	509	157%	77	932	557	167%	81	974	596	163%	87
Okanagan Lake		427	440	97%	88	447	465	96%	108				
*new model ²		502	468	107%	86	513	494	104%	99	489	478	102%	110
Kalamalka-Wood Lake		26.2	28.0	94%	11.3	18.5	29.4	63%	13.2				
*new model ³		25.3	25.7	98%	7.1	20.3	24.3	83%	8.3	17.2	21.0	82%	9.3
Similkameen River	at Nighthawk	1,476	1,273	116%	128					1,855	1,583	117%	184
	at Hedley	1,132	989	114%	96					1,363	1,177	116%	151
Cowichan River	Cowichan Lake Inflows	297	248	120%	65					342	290	118%	74

¹ 1984-2019 Period of Record

² 1970-2019 Period of Record

³ 1975-2019 Period of Record

Note: 1 kdam³=1,000,000 m³

Note that missing values reflect that forecasts were not made for that time interval

Disclaimer: Seasonal forecasts were developed using a 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

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

UPPER FRASER EAST			April 1, 2021 Data				Apr 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 (1991-2020)	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	2021-04-01	197	606	31		112%	80	602	N/A	345	542	799	542	22
1A02P	McBride Upper	1611	2021-04-01	185	593	32		121%	85	608	420	297	471	694	492	29
1A03P	Barkerville	1520	2021-04-01	125	376	30		109%	59	487	332	139	353	524	345	42
1A05	LONGWORTH (UPPER)	1693	2021-03-31	306	1056	35		125%	88	1378	846	467	739	1378	845	62
1A05P	Longworth Upper	1740	2021-04-01	311	1188	38		N/A	N/A	926	762	524	775	926	N/A	4
1A06A	HANSARD	608	N	N	N	N	N	N/A	N/A	222	156	72	192	442	189	22
1A10	PRINCE GEORGE A	689	2021-04-01	11	32	29		33%	15	160	70	0	119	313	97	58
1A11	PACIFIC LAKE	755	2021-03-31	236	893	38		140%	95	863	564	290	593	1060	636	58
1A14P	Hedrick Lake	1100	2021-04-01	269	906	34		112%	63	810	578	406	810	1287	812	21
1A15	KNUDSEN LAKE	1602	2021-03-31	306	1088	36		130%	84	1195	673	485	817	1264	837	51
1A15P	Knudsen Lake	1601	2021-04-01	292	1180	40		N/A	N/A	732	462	442	501	732	N/A	5
1A17P	Revolution Creek	1690	2021-04-01	298	1069	36		130%	82	1282	711	449	811	1293	824	32
1A19P	Dome Mountain	1774	2021-04-01	252	895	36		120%	78	971	637	243	758	1069	744	15
			Average	232	824	34		113%	73							

Basin Index Calculation	Average SWE	751
	Average Normal	617
Upper Fraser East Basin Index - April 1, 2021		122%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A05, 1A10, 1A11, 1A14P, 1A15, 1A17P, 1A19P

UPPER FRASER WEST			April 1, 2021 Data				Apr 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 (1991-2020)	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	2021-03-30	146	420	29		120%	90	415	294	220	340	476	349	56
1A12P	Kaza Lake	1257	2021-04-01	151	412	27		N/A	N/A	393	297	269	297	393	N/A	5
1A16	BURNS LAKE	800	N	N	N	N	N	N/A	N/A	156	78	0	116	264	118	50
1A23	BIRD CREEK	1180	2021-03-30	78	246	32		157%	93	204	190	84	152	320	157	31
			Average	125	359	29		139%	92							

Basin Index Calculation	Average SWE	333
	Average Normal	253
Upper Fraser West Basin Index - April 1, 2021		132%

Stations used in Basin Index:
1A12, 1A23

NECHAKO			April 1, 2021 Data				Apr 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 (1991-2020)	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	2021-03-30	163	588	36		117%	75	521	373	273	488	960	503	66
1B01P	Mount Wells	1490	2021-04-01		672			119%	77	637	454	347	545	872	566	28
1B02	TAHTSA LAKE	1300	2021-03-30	372	1399	38		116%	91	1084	851	775	1125	1972	1203	67
1B02P	Tahtsa Lake	1300	2021-04-01		1561			123%	84	1176	889	860	1204	2234	1269	27
1B05	SKINS LAKE	890	2021-03-30	28	83	30		94%	25	76	17	0	101	233	89	57
1B06	MOUNT SWANNELL	1620	2021-03-30	122	417	34		144%	91	380	268	15	273	490	290	32
1B07	NUTLI LAKE	1490	2021-03-30	169	628	37		121%	81	556	367	301	502	834	518	30
1B08P	Mt. Pondosy	1400	2021-04-01		882			110%	66	822	556	504	749	1145	800	25
			Average	171	779	35		118%	74							

Basin Index Calculation	Average SWE	779
	Average Normal	655
Nechako Basin Index - April 1, 2021		119%

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

LOWER THOMPSON			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1C01	BROOKMERE	980	2021-03-29	60	159	27		98%	29	127	95	45	193	399	162	76
1C06	PAVILION	1230	2021-03-31	24	60	25		240%	60	30	0	0	36	147	25	59
1C09A	HIGHLAND VALLEY	1510	N	N	N	N	N	N/A	N/A	N	54	3	90	249	100	52
1C25	LAC LE JEUNE (UPPER)	1509	2021-04-01	65	181	28		132%	84	171	68	0	129	264	137	48
1C29	SHOVELNOSE MOUNTAIN	1450	2021-03-29	82	260	32		118%	72	228	107	16	238	442	220	42
1C29P	Shovelnose Mountain	1460	2021-04-01	89	258	29		N/A	N/A	248	162	162		248	N/A	2
1C32	DEADMAN RIVER	1430	2021-04-02	55	150	27		137%	84	140	11	11	109	196	109	36
1C42	CAVERHILL LAKE NEW	1400	2021-03-30	87	267	31		115%	59	340	160	160	238	340	232	16
			Average	66	191	28		140%	65							

Basin Index Calculation	Average SWE	180
	Average Normal	147
Lower Thompson Basin Index - April 1, 2021		122%

Stations used in Basin Index:
1C01, 1C06, 1C25, 1C29, 1C32, 1C42

BRIDGE / LILLOOET			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1C05	MCGILLIVRAY PASS	1725	2021-04-01	150	511	34		90%	30	N	428	322	570	1118	570	66
1C05P	McGillivray Pass	1718	2021-04-01		550			N/A	N/A	474	478	474	478	619	N/A	3
1C12P	Green Mountain	1780	2021-04-01		694			81%	31	570	683	466	850	1408	852	27
1C14	BRALORNE	1389	2021-04-01	57	167	29		107%	53	N	125	0	163	389	156	56
1C14P	Bralorne	1382	2021-04-01	77	230	30		N/A	N/A	183	170	170	183	270	N/A	3
1C18P	Mission Ridge	1850	2021-04-01		682			125%	82	543	393	158	528	1012	547	44
1C28	DUFFEY LAKE	1200	2021-04-06	134	527	39		105%	70	N	430	212	488	866	503	42
1C37	BRALORNE(UPPER)	1981	N	N	N	N	N	N/A	N/A	N	506	328	678	1010	653	21
1C38	DOWNTON LAKE (UPPER)	1887	N	N	N	N	N	N/A	N/A	N	754	422	814	1416	857	21
1C38P	Downton Lake Upper	1829	2021-04-01		436			N/A	N/A	653	713	653	713	810	N/A	5
1C39	BRIDGE GLACIER (LOWER)	1390	N	N	N	N	N	N/A	N/A	N	546	240	606	1086	594	24
1C40	TYAUGHTON CREEK (NORTH)	1947	2021-04-01	169	568	34		130%	89	N	382	264	406	844	437	24
1C40P	North Tyaughton	1969	2021-04-01		484			N/A	N/A	296	332	296	332	456	N/A	5
			Average	117	485	33		106%	59							

Basin Index Calculation	Average SWE	525
	Average Normal	511
Bridge/Lillooet Basin Index - April 1, 2021		103%

Stations used in Basin Index:
1C05, 1C12P, 1C14, 1C18P, 1C28, 1C40

CHILCOTIN			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1C08	NAZKO	1070	2021-03-29	33	77	23		148%	57	122	27	0	63	165	52	62
1C21	BIG CREEK	1140	2021-03-30	4	16	40		90%	68	14	0	0	0	119	18	50
1C22	PUNTZI MOUNTAIN	940	2021-03-29	13	24	18		100%	64	0	0	0	6	120	24	51
			Average	17	39	27		113%	63							

Basin Index Calculation	Average SWE	39
	Average Normal	31
Chilcotin Basin Index - April 1, 2021		125%

Stations used in Basin Index:
1C08, 1C21, 1C22

QUESNEL			April 1, 2021 Data				Apr 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 (1991-2020)	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	2021-03-26	160	588	37		118%	83	735	510	282	456	735	497	51
1C17	MOUNT TIMOTHY	1660	2021-03-30	99	266	27		85%	29	299	278	186	310	533	311	58
1C20P	Boss Mountain Mine	1460	2021-04-01	174	683	39		117%	89	578	517	326	578	866	582	27
1C23	PENFOLD CREEK	1685	2021-04-01	281	1051	37		108%	65	N	857	641	995	1285	973	41
1C33A	GRANITE MOUNTAIN	1150	2021-04-05	70	192	27		98%	39	243	193	93	194	274	196	15
1C41P	Yanks Peak East	1670	2021-04-01	227	942	41		112%	73	1215	890	525	861	1215	841	24
			Average	169	620	35		107%	63							

Basin Index Calculation	Average SWE	620
	Average Normal	567
Quesnel Basin Index - April 1, 2021		109%

Stations used in Basin Index:
1C13A, 1C17, 1C20P, 1C23, 1C33A, 1C41P

MIDDLE FRASER

Basin Index Calculation	Average SWE	384
	Average Normal	354
Middle Fraser River Basin Index - April 1, 2021		108%

Stations used in Basin Index:
1C01, 1C06, 1C25, 1C29, 1C32, 1C42, 1C05, 1C12P, 1C14, 1C18P, 1C28, 1C40, 1C08, 1C21, 1C22, 1C13A, 1C17, 1C20P, 1C23, 1C33A, 1C41P

LOWER FRASER			April 1, 2021 Data				Apr 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 (1991-2020)	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	2021-04-01	281	1093	39		105%	60	956	890	675	1020	1586	1037	20
1D08	STAVE LAKE	1250	2021-03-31	425	1775	42		125%	71	1404	1030	98	1563	2750	1422	50
1D08P	Lamont Creek Upper	1217	2021-04-01		1886			N/A	N/A						N/A	0
1D09	WAHLEACH LAKE	1480	2021-03-31	231	831	36		145%	82	694	386	33	614	1270	573	50
1D09P	Wahleach Lake Upper	1480	2021-04-01		1166			122%	77	950	630	267	894	1642	954	28
1D10	NAHATLATCH RIVER	1550	2021-03-31	378	1511	40		118%	78	1179	1051	468	1362	2410	1278	50
1D16	DICKSON LAKE	1160	2021-03-31	450	2016	45		137%	83	1608	778	56	1552	2990	1475	26
1D17P	Chilliwack River	1600	2021-04-01	357	1743	49	E	115%	70	1683	1216	666	1542	2418	1515	28
1D18	DISAPPOINTMENT LAKE	1050	2021-03-29	443	1790	40		110%	56		1180	428	1776	2280	1629	17
1D18P	Disappointment Lake	1050	2021-04-01	419	2046	49	E	144%	82	1112	819	405	1465	2129	1419	13
1D19P	Spuzzum Creek	1180	2021-04-01	376	1836	49		119%	76	1393	1072	166	1564	2752	1542	22
			Average	373	1608	43		124%	74							

Basin Index Calculation	Average SWE	1581
	Average Normal	1284
Lower Fraser Basin Index - April 1, 2021		123%

Stations used in Basin Index:
1D06P, 1D08, 1D09, 1D09P, 1D10, 1D16, 1D17P, 1D18, 1D18P, 1D19P

NORTH THOMPSON			April 1, 2021 Data				Apr 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 (1991-2020)	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	2021-03-31	62	184	30		63%	3	378	276	154	283	425	291	38
1E02P	Mount Cook	1550	2021-04-01	363	1425	39		112%	69	1453	1153	1001	1187	1834	1275	17
1E03A	TROPHY MOUNTAIN	1860	2021-03-28	168	600	36		108%	72	674	458	332	551	888	555	46
1E07	ADAMS RIVER	1720	2021-03-30	195	734	38		105%	65	794	598	435	690	1069	702	51
1E08P	Azure River	1652	2021-04-01	292	1185	41		104%	55	1252	818	716	1158	1538	1140	24
1E10P	Kostal Lake	1770	2021-04-01	210	709	34		84%	11	717	733	618	857	1169	844	35
1E14P	Cook Creek	1280	2021-04-01	151	743	49		125%	89	789	508	409	608	789	593	12
			Average	206	797	38		100%	52							

Basin Index Calculation	Average SWE	797
	Average Normal	771

Stations used in Basin Index:
1E01B, 1E02P, 1E03A, 1E07, 1E08P, 1E10P, 1E14P

North Thompson Basin Index - April 1, 2021 103%

SOUTH THOMPSON			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1F01A	ABERDEEN LAKE	1310	2021-03-30	48.7	156	32		115%	66	229	90	6	142	259	135	79
1F02	ANGLEMONT	1190	2021-04-01	77	288	37		88%	28	477	224	142	338	561	326	62
1F03P	Park Mountain	1890	2021-04-01	210	859	41		99%	52	980	611	560	844	1208	869	36
1F04P	Enderby	1950	2021-04-01	274	803	29		N/A	N/A	894	697	697	894	981	N/A	3
1F04P2	Enderby Tower 2	1950	2021-04-01		1109			N/A	N/A	1143	786	786	1143	1167	N/A	3
1F06P	Celista Mountain	1500	2021-04-01	235	929	40		103%	63	986	764	724	880	1132	898	15
			Average	169	691	36		101%	52							

Basin Index Calculation	Average SWE	558
	Average Normal	557
South Thompson Basin Index - April 1, 2021 100%		

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

FRASER RIVER

Basin Index Calculation	Average SWE	743
	Average Normal	642
Fraser River Basin Index - April 1, 2021 116%		

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A05, 1A10, 1A11, 1A14P, 1A15, 1A17P, 1A19P, 1A12, 1A23, 1B01, 1B01P, 1B02, 1B02P, 1B05, 1B06, 1B07, 1B08P, 1C01, 1C06, 1C25, 1C29, 1C32, 1C42, 1C05, 1C12P, 1C14, 1C18P, 1C28, 1C40, 1C08, 1C21, 1C22, 1C13A, 1C17, 1C20P, 1C23, 1C33A, 1C41P, 1E01B, 1E02P, 1E03A, 1E07, 1E08P, 1E10P, 1E14P, 1F01A, 1F02, 1F03P, 1F06P

UPPER COLUMBIA			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2A02	GLACIER	1250	2021-03-30	194	801	41		116%	78	880	630	371	664	1161	689	84
2A03A	FIELD	1285	2021-03-30	51	150	29		104%	57	197	153	8	135	252	144	81
2A06P	Mount Revelstoke	1850	2021-04-01		1279			107%	62	1312	997	709	1212	1692	1199	26
2A07	KICKING HORSE	1650	2021-03-31	112	321	29		100%	40	429	293	185	343	589	320	72
2A11	BEAVERFOOT	1890	2021-04-02	79	216	27		106%	53	256	166	105	212	460	204	61
2A14	MOUNT ABBOT	2010	2021-03-26	355	1353	38		111%	71	1232	1095	698	1169	1849	1224	62
2A16	GOLDSTREAM	1920	2021-03-31	312	1191	38		102%	61	1312	983	785	1119	1638	1173	57
2A17	FIDELITY MOUNTAIN	1870	2021-04-01	390	1620	42		129%	92	1500	1132	730	1202	1951	1257	58
2A18	KEYSTONE CREEK	1890	2021-03-31	220	835	38		104%	58	797	647	485	825	1388	803	53
2A18P	Keystone Creek	1840	2021-04-01		991			N/A	N/A	952	772	772	966	1068	N/A	5
2A19	VERMONT CREEK	1520	2021-04-02	126	441	35		105%	56	413	368	190	428	843	419	55
2A21P	Molson Creek	1935	2021-04-01		1079			105%	76	974	922	651	998	1553	1031	38
2A22	SUNBEAM LAKE	2010	2021-03-31	280	1066	38		117%	80	1018	755	590	893	1384	909	54
2A23	BUSH RIVER	1920	2021-03-31	244	928	38		113%	71	883	743	455	803	1331	818	52
2A25	KIRBYVILLE LAKE	1750	2021-03-31	313	1182	38		98%	56	1330	1047	701	1165	1816	1208	48
2A27	DOWNIE SLIDE (LOWER)	980	2021-03-31	179	736	41		106%	73	898	548	448	645	1062	697	42
2A29	DOWNIE SLIDE (UPPER)	1630	2021-03-31	340	1322	39		96%	50	1412	1166	858	1320	2360	1378	43
2A30P	Colpitt Creek	2131	2021-04-01		932			N/A	92	925	666	552	765	957	N/A	11
2A31P	Caribou Creek Upper	2201	2021-04-01		1122			N/A	N/A	1027	771	771	1027	1053	N/A	5
2A32P	Wildcat Creek	2122	2021-04-01		714			N/A	N/A	799	573	523	635	799	N/A	5
			Average	N/A	914	N/A		107%	66							

Basin Index Calculation	Average SWE	908
	Average Normal	842
Upper Columbia Basin Index - April 1, 2021 108%		

Stations used in Basin Index:
2A02, 2A03A, 2A06P, 2A07, 2A11, 2A14, 2A16, 2A17, 2A18, 2A19, 2A21P, 2A22, 2A23, 2A25, 2A27, 2A29

WEST KOOTENAY			April 1, 2021 Data				Apr 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 (1991-2020)	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	2021-03-30	80	292	37		97%	47	321	287	127	309	480	302	48
2B05	WHATSHAN (UPPER)	1525	2021-03-30	162	623	38		97%	41	749	417	350	636	964	644	62
2B06P	Barnes Creek	1620	2021-04-01		614			111%	79	732	413	326	563	774	554	28
2B07	KOCH CREEK	1860	2021-03-30	183	679	37		90%	27	750	599	397	750	1156	754	59
2B08P	St. Leon Creek	1800	2021-04-01		1242			112%	76	1457	937	585	1149	1557	1106	27
2B09	RECORD MOUNTAIN	1890	2021-03-30	184	660	36		93%	44	704	512	315	694	1307	707	45
2D02	FERGUSON	880	2021-03-30	143	606	42		106%	67	700	542	142	563	881	574	83
2D03	SANDON	1070	2021-04-01	91	334	37		104%	53	454	230	71	325	585	321	74
2D04	NELSON	930	2021-04-01	70	234	33		74%	17	278	301	5	356	622	315	83
2D05	GRAY CREEK (LOWER)	1550	2021-03-26	118	419	36		91%	31	N	348	276	466	688	459	71
2D06	CHAR CREEK	1310	2021-03-31	110	408	37		78%	12	516	395	241	525	940	524	54
2D07A	DUNCAN LAKE NO. 2	630	N	N	N	N	N	N/A	N/A	N	60	0	110	223	92	26
2D07AP	Duncan Lake Dam 2	559	2021-04-01	0	6			N/A	N/A	52		52		52	N/A	1
2D08P	East Creek	2030	2021-04-01		991			113%	74	1051	837	450	854	1252	880	40
2D09	MOUNT TEMPLEMAN	1860	2021-03-30	294	1120	38		104%	69	1097	803	688	1022	1608	1079	41
2D10	GRAY CREEK (UPPER)	1940	2021-03-26	191	713	37		95%	46	N	543	492	729	1123	749	48
2D10P	GRAY CREEK (UPPER)	1930	2021-04-01	197	716	36		N/A	N/A						N/A	0
2D14P	Redfish Creek	2104	2021-04-01	309	1363	44		103%	44	1530	1027	807	1381	1756	1328	19
			Average	152	648	38		98%	48							

Basin Index Calculation	Average SWE	687
	Average Normal	686
West Kootenay Basin Index - April 1, 2021		100%

Stations used in Basin Index:
2B02A, 2B05, 2B06P, 2B07, 2B08P, 2B09, 2D02, 2D03, 2D04, 2D05, 2D06, 2D08P, 2D09, 2D10, 2D14P

EAST KOOTENAY			April 1, 2021 Data				Apr 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 (1991-2020)	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	2021-04-01	47	134	29		119%	68	172	114	36	112	262	113	83
2C04	SULLIVAN MINE	1550	2021-04-03	81	266	33		96%	34	245	226	134	318	538	278	75
2C09Q	Morrissey Ridge	1860	2021-04-01		420			60%	3	659	407	363	700	1224	700	36
2C10P	Moyie Mountain	1930	2021-04-01	84	357	43		80%	35	526	280	216	413	686	447	40
2C11	KIMBERLY UPPER	2140	2021-04-05	127	423	33		100%	51	NS	NS	197	423	798	423	44
2C12	KIMBERLY MIDDLE	1680	2021-04-05	65	217	33		88%	25	NS	NS	116	244	462	247	44
2C14P	Floe Lake	2090	2021-04-01		789			111%	64	789	566	360	718	1009	713	26
2C15	MOUNT ASSINIBOINE	2230	2021-04-02	185	582	31		109%	68	601	481	252	508	816	534	50
2C16	MOUNT JOFFRE	1750	N	N	N	N	N	N/A	N/A	453	256	179	343	711	367	51
2C17	THUNDER CREEK	2010	2021-04-02	106	302	28		106%	61	307	224	140	267	475	285	50
			Average	99	388	33		96%	45							

Basin Index Calculation	Average SWE	388
	Average Normal	416
East Kootenay Basin Index - April 1, 2021		93%

Stations used in Basin Index:
2C01, 2C04, 2C09Q, 2C10P, 2C11, 2C12, 2C14P, 2C15, 2C17

BOUNDARY			April 1, 2021 Data				Apr 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 (1991-2020)	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	2021-03-30	106	361	34		108%	60	437	233	188	335	517	334	71
2E02	CARMI	1250	2021-04-06	18	58	32		54%	9	155	35	0	120	290	107	57
2E03	BIG WHITE MOUNTAIN	1680	2021-03-29	154	498	32		104%	58	538	322	319	460	762	480	55

2E07P	Grano Creek	1860	2021-04-01	144	560	39	109%	63	618	323	248	499	773	514	23
			Average	106	369	34	94%	48							

Basin Index Calculation	Average SWE	369
	Average Normal	359
Boundary Basin Index - April 1, 2021		103%

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

OKANAGAN			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2F01A	TROUT CREEK (West)	1430	2021-03-26	68	201	30		92%	34	250	124	124	211	336	219	11
2F01AP	Trout Creek West	1420	2021-04-01	94	261	28		N/A	N/A	284	157	157	267	284	N/A	3
2F02	SUMMERLAND RESERVOIR	1280	2021-03-30	84	233	28		107%	56	300	143	96	224	389	217	84
2F03	MCCULLOCH	1280	2021-04-01	41	151	37		105%	46	241	90	6	155	265	144	83
2F04	GRAYSTOKE LAKE	1840	2021-03-31	138	498	36		138%	86	532	290	196	354	828	362	46
2F05P	Mission Creek	1780	2021-04-01	166	584	35		116%	79	638	356	270	467	746	503	50
2F07	POSTILL LAKE	1370	2021-03-29	71	223	31		109%	61	272	136	90	210	348	205	70
2F08	GREYBACK RESERVOIR	1550	N	N	N	N	N	N/A	N/A	276	N	114	232	360	242	64
2F08P	Greyback Reservoir	1550	2021-04-01	70	191	27		N/A	N/A	284	148	148	270	284	N/A	4
2F09	WHITEROCKS MOUNTAIN	1830	N	N	N	N	N	N/A	N/A	589	435	318	539	1021	533	66
2F10	Silver Star Mountain	1840	2021-03-31	198	732	37		100%	51	N	551	414	721	1115	733	58
2F10P	Silver Star Mountain	1839	2021-04-01	193	765			N/A	N/A	844	623	623	703	844	N/A	4
2F11	ISINTOK LAKE	1680	2021-03-26	64	171	27		109%	61	217	77	66	160	424	157	56
2F12	MOUNT KOBAN	1810	2021-03-30	105	373	36		116%	70	285	202	105	297	602	322	55
2F13	ESPERON CR (UPPER)	1650	N	N	N	N	N	N/A	N/A	318	250	244	386	805	380	52
2F14	ESPERON CR (MIDDLE)	1430	N	N	N	N	N	N/A	N/A	272	206	196	334	607	323	53
2F18P	Brenda Mine	1460	2021-04-01		329			99%	59	305	201	190	311	504	333	25
2F19	OYAMA LAKE	1340	2021-03-30	58	160	28		97%	43	230	116	61	171	255	165	49
2F19P	OYAMA LAKE	1360	2021-04-01	55	174	32		N/A	N/A						N/A	0
2F20	VASEUX CREEK	1400	2021-03-27	51	158	31		126%	73	160	61	40	142	239	125	48
2F21	BOULEAU LAKE	1400	2021-03-27	96	304	32		106%	53	324	170	160	297	564	286	50
2F23	MACDONALD LAKE	1740	2021-04-01	85	423	50		97%	54	343	351	257	411	677	436	41
2F24	ISLAHT LAKE	1480	2021-04-07	108	368	34		121%	75	394	224	145	297	501	304	38
2F25	POSTILL LAKE UPPER	1540	2021-03-29	83	256	31		120%	65	280	N	38	230	281	213	8
			Average	96	328	33		110%	60							

Basin Index Calculation	Average SWE	323
	Average Normal	295
Okanagan Basin Index - April 1, 2021		109%

Stations used in Basin Index:
2F01A, 2F02, 2F03, 2F04, 2F05P, 2F07, 2F10, 2F11, 2F12, 2F18P, 2F19, 2F20, 2F21, 2F23, 2F24, 2F25

SIMILKAMEEN			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2G03P	Blackwall Peak	1940	2021-04-01	227	856	38		107%	64	814	567	404	754	1497	801	53
2G04	LOST HORSE MOUNTAIN	1920	2021-03-26	99	285	29		122%	84	347	166	138	221	533	233	57
2G05	MISSEZULA MOUNTAIN	1550	2021-03-26	84	237	28		121%	65	208	103	90	201	516	196	60
2G06	HAMILTON HILL	1490	2021-03-29	98	302	31		111%	50	285	121	83	302	851	273	60
			Average	127	420	31		115%	66							

Basin Index Calculation	Average SWE	420
	Average Normal	376
Similkameen Basin Index - April 1, 2021		112%

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

SOUTH COAST			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3A01	GROUSE MOUNTAIN	1100	2021-03-30	373	1585	42		128%	74	N	960	0	1163	2670	1241	84
3A02	POWELL RIVER (UPPER)	1040	2021-04-06	295	1179	40		126%	69	NS	708	15	1034	1813	933	55
3A05	POWELL RIVER (LOWER)	910	2021-04-06	186	736	40		113%	47	NS	408	8	771	1554	651	58
3A09	PALISADE LAKE	880	2021-03-29	358	1525	43		115%	58	N	808	0	1417	3560	1329	71
3A09P	Palisade Lake	900	2021-04-01	312	1498	48		N/A	N/A	839	497	497	839	979	N/A	3
3A10	DOG MOUNTAIN	1080	2021-03-30	366	1575	43		138%	79	N	890	0	1198	2720	1144	74
3A19	ORCHID LAKE	1190	2021-03-29	493	2020	41		116%	69	N	1420	90	1836	3770	1741	46
3A20	CALLAGHAN CREEK	1040	2021-04-01	228	900	39		108%	59	N	706	24	866	1604	834	43
3A20P	Callaghan	1017	2021-04-01	248	817	33		N/A	N/A	803	883	803		883	N/A	2
3A22P	Nostetuko River	1500	2021-04-01	143	619	43		106%	75	562	435	221	569	1074	583	30
3A24P	Mosley Creek Upper	1650	2021-04-01	95	308	32		109%	59	244	202	135	256	567	284	32
3A25P	Squamish River Upper	1340	2021-04-01	396	1589	40		101%	47	1706	1373	714	1603	2758	1566	28
3A26	CHAPMAN CREEK	1022	2021-03-31	396	1680	42		124%	84	N	924	704	1545	1770	1359	12
3A27	EDWARDS LAKE	1070	2021-03-31	285	1150	40		124%	69	N	548	398	1068	1286	931	9
3A28P	Tetrahedron	1420	2021-04-01	479	1839	38		N/A	N/A	N/A	999	999		1416	N/A	2
			Average		310	1268	40		117%	66						

Basin Index Calculation	Average SWE	1239
	Average Normal	1050
South Coast Basin Index - April 1, 2021		118%

Stations used in Basin Index:
3A01, 3A02, 3A05, 3A09, 3A10, 3A19, 3A20, 3A22P, 3A24P, 3A25P, 3A26P, 3A27

VANCOUVER ISLAND			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3B01	FORBIDDEN PLATEAU	1100	2021-03-30	394	1675	43		114%	56	1361	1118	30	1540	3550	1466	66
3B02A	MOUNT COKELY	1190	N	N	N	N	N	N/A	N/A	N	N	0	814	2100	845	34
3B04	ELK RIVER	270	2021-03-30	0	0			0%	N/A	18	0	0	0	607	26	59
3B10	UPPER THELWOOD LAKE	990	2021-03-30	370	1588	43		110%	59	1332	894	0	1475	3200	1440	61
3B17P	Wolf River Upper	1490	2021-04-01		1173			91%	41	1047	960	317	1231	2620	1290	33
3B18	WOLF RIVER (MIDDLE)	990	2021-03-30	183	618	34		104%	53	522	362	0	568	1706	595	49
3B19	WOLF RIVER (LOWER)	640	2021-03-30	93	352	38		102%	58	320	192	0	322	1198	346	48
3B23P	Jump Creek	1160	2021-04-01	356	1577	44		133%	80	948	652	0	1174	3040	1190	25
3B24P	Heather Mountain Upper	1190	2021-04-01	341	1631	48		N/A	N/A	1187	818	818	1429	1745	N/A	5
3B26P	Mount Arrowsmith	1465	2021-04-01	305	1260	41		N/A	N/A	954	840	840	954	1186	N/A	3
			Average	255	1097	41		93%	58							

Basin Index Calculation	Average SWE	1164
	Average Normal	1054
Vancouver Island Basin Index - April 1, 2021		110%

Stations used in Basin Index:
3B01, 3B10, 3B17P, 3B18, 3B19, 3B23P

CENTRAL COAST			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3C07	WEDEENE RIVER SOUTH	220	2021-03-30	145	654	45		159%	89	N	264	36	361	981	411	34
3C08P	Burnt Bridge Creek	1330	2021-04-01	276	1137	41		139%	92	1057	576	420	761	1388	816	22
			Average	211	896	43		149%	91							

Basin Index Calculation	Average SWE	896
	Average Normal	613
Central Coast Basin Index - April 1, 2021		146%

Stations used in Basin Index:
3C07, 3C08P

SKAGIT			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3D01C	SUMALLO RIVER WEST	790	2021-03-31	67	222	33		111%	51	310	85	0	210	512	200	28
3D02	LIGHTNING LAKE	1220	2021-03-27	97	314	32		107%	50	354	180	60	310	622	293	73
3D03A	KLESILKWA	1175	2021-03-31	86	317	37		130%	52	372	90	0	305	792	244	72
			Average	83	284	34		116%	51							

Basin Index Calculation	Average SWE	284
	Average Normal	246
Skagit Basin Index - April 1, 2021		116%

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

PEACE			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4A02P	Pine Pass	1400	2021-04-01	392	1396	36		128%	86	1355	967	841	1037	1554	1089	28
4A03	WARE (UPPER)	1575	2021-03-29	99	229	23		90%	39	259	223	157	248	390	253	57
4A03P	Ware Upper	1565	2021-04-01	96	217	23		N/A	N/A	235	214	203	225	260	N/A	4
4A04	WARE (LOWER)	970	2021-03-29	82	189	23		96%	54	229	190	112	184	316	197	56
4A04P	Ware Lower	971	2021-04-01	75	204	27		N/A	N/A	227	203	153	215	235	N/A	4
4A05	GERMANSEN (UPPER)	1480	2021-03-30	128	373	29		105%	67	456	364	200	326	523	356	59
4A06	TUTIZZI LAKE	1045	2021-03-30	108	300	28		114%	80	309	226	166	255	406	264	58
4A07	LADY LAURIER LAKE	1440	2021-03-26	204	651	32		124%	89	501	437	342	485	854	524	57
4A09	PULPIT LAKE	1335	2021-03-29	149	428	29		100%	65	502	371	297	401	618	428	58
4A09P	Pulpit Lake	1311	2021-04-01	118	373	32		88%	17	414	314	282	427	622	425	30
4A10	FREDRICKSON LAKE	1325	2021-03-29	110	257	23		105%	60	342	233	149	241	351	245	58
4A11	TRYGVGE LAKE	1410	2021-03-29	138	380	28		104%	69	441	302	253	348	511	366	57
4A12	TSAYDAYCHI LAKE	1190	2021-03-30	166	514	31		124%	88	496	398	234	377	639	415	58
4A12P	Tsaydaychi Lake	1195	2021-04-01		522			N/A	N/A						N/A	0
4A13	PHILIP LAKE	1035	2021-03-30	110	328	30		117%	78	316	275	133	280	449	281	58
4A13P	Philip Lake	1028	2021-04-01		333			N/A	N/A	316		316		316	N/A	1
4A16	MORFEE MOUNTAIN	1430	2021-03-30	254	930	37		110%	71	1021	763	555	806	1158	843	51
4A18	MOUNT SHEBA	1490	2021-03-31	292	1056	36		119%	83	1178	852	495	820	1294	887	51
4A18P	MOUNT SHEBA	1484	2021-04-01		1102			N/A	N/A	1226	854	854		1226	N/A	2
4A20	MONKMAN CREEK	1570	N	N	N	N	N	N/A	N/A	733	481	313	557	1067	572	41
4A20P	Monkman Creek	1570	2021-04-01		446			N/A	N/A	518	411	411		518	N/A	2
4A21	MOUNT STEARNS	1505	2021-03-26	64	128	20		88%	41	131	132	59	141	239	145	46
4A25	FORT ST. JOHN A	690	N	N	N	N	N	N/A	N/A	N	81	0	103	226	105	43
4A27P	Kwadacha North	1554	2021-04-01	143	340	24		108%	59	361	241	227	328	446	316	30
4A30P	Aiken Lake	1050	2021-04-01	110	295	27		114%	76	191	212	127	251	371	259	33
4A31P	Crying Girl Prairie	1358	2021-04-01		256			N/A	N/A	276	190	166	273	314	N/A	5
4A33P	Muskwa-Kechika	1196	2021-04-01		130			N/A	N/A	79	52	52	98	127	N/A	4
4A34P	Dowling Creek	1456	2021-04-01		1031			N/A	N/A	1349	1471	818	1302	1471	N/A	4
4A36P	Parsnip Upper	790	2021-04-01	130	440	34		N/A	N/A	444	303	303		444	N/A	2
4A37P	McQue Terrace	1200	2021-04-01		126			N/A	N/A	147		147		147	N/A	1
			Average	148	463	28		108%	66							

Basin Index Calculation	Average SWE	480
	Average Normal	429
Peace Basin Index - April 1, 2021		112%

Stations used in Basin Index:
4A02P, 4A03, 4A04, 4A05, 4A06, 4A07, 4A09, 4A09P, 4A10, 4A11, 4A12, 4A13, 4A16, 4A18, 4A21, 4A27P, 4A30P

SKEENA-NASS			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4B01	KIDPRICE LAKE	1370	2021-03-30	269	1073	40		116%	88	803	645	622	873	1781	926	67
4B02	JOHANSON LAKE	1420	2021-03-30	120	317	26		105%	70	362	262	173	281	417	301	58
4B03A	HUDSON BAY MTN.	1480	2021-03-31	193	642	33		129%	90	509	425	356	482	846	496	49
4B04	CHAPMAN LAKE	1460	2021-04-01	154	528	34		112%	76	N	412	315	438	762	470	55
4B06	TACHEK CREEK	1140	2021-04-03	88	258	29		111%	73	224	216	112	224	362	232	53
4B07	MCKENDRICK CREEK	1050	2021-04-01	100	295	30		106%	56	272	250	183	276	427	279	53
4B08	MOUNT CRONIN	1480	2021-04-01	160	541	34		96%	42	N	457	415	552	1097	566	51
4B10	NINGUNSAW PASS	690	N	N	N	N	N	N/A	N/A	NS	234	199	408	730	396	44
4B11A	BEAR PASS	460	2021-04-02	246	892	36		151%	96	675	350	322	607	1013	589	34
4B13A	TERRACE AIRPORT	180	2021-03-30	29	68	23		69%	55	166	0	0	38	333	98	39
4B14	EQUITY MINE	1420	2021-04-01	126	416	33		103%	71	382	354	258	368	640	403	44
4B15	LU LAKE	1300	2021-04-01	97	304	31		101%	63	266	266	162	286	504	300	44
4B15P	Lu Lake	1300	2021-04-01	106	327	31		113%	77	279	244	150	279	488	290	23
4B16P	Shedin Creek	1480	2021-04-01	273	823	30		104%	57	778	493	466	778	1096	792	23
4B17P	Tsai Creek	1360	2021-04-01	311	1195	38		107%	71	1009	876	802	1025	1834	1121	23
4B18P	Cedar-Kiteen	885	2021-04-01	264	998	38		153%	86	603	401	350	597	1129	651	19
Average				169	578	33		112%	71							

Basin Index Calculation	Average SWE	578
	Average Normal	501
Skeena-Nass Basin Index - April 1, 2021		115%

Stations used in Basin Index:
4B01, 4B02, 4B03A, 4B04, 4B06, 4B07, 4B08, 4B11A, 4B13A, 4B14, 4B15, 4B15P, 4B16P, 4B17P, 4P18P

LIARD			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4C01	SIKANNI LAKE	1385	2021-03-26	128	323	25		122%	82	275	199	158	257	380	265	57
4C01P	Sikanni Lake	1387	2021-04-01	142	327	23		N/A	N/A	N/A	191	171	191	304	N/A	3
4C02	SUMMIT LAKE	1280	2021-04-01	76	147	19		145%	84	N	99	0	101	240	101	50
4C03	DEASE LAKE	820	2021-04-05	87	207	24		174%	94	142	75	0	125	259	119	54
4C05	FORT NELSON AIRPORT	380	2021-03-31	53	80	15		93%	40	N	28	23	84	198	86	53
Average				97	217	21		134%	75							

Basin Index Calculation	Average SWE	189
	Average Normal	143
Liard Basin Index - April 1, 2021		133%

Stations used in Basin Index:
4C01, 4C02, 4C03, 4C05

STIKINE			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4D02	ISKUT	1000	2021-04-05	75	199	27		222%	100	135	0	0	103	180	90	45
4D10P	Tumeka Creek	1220	2021-04-01		637			117%	75	583	341	302	515	869	543	21
4D11P	Kinaskan Lake	1020	2021-04-01	168	520	31		139%	82	405	208	167	338	638	374	25
Average				122	452	29		159%	86							

*record high

Basin Index Calculation	Average SWE	452
	Average Normal	336
Stikine Basin Index - April 1, 2021		135%

Stations used in Basin Index:
4D02, 4D10P, 4D11P

NORTHWEST			April 1, 2021 Data				Apr 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4E01	LOG CABIN	900	2021-03-26	219	786	36		191%	100	504	228	213	363	610	411	61
4E02B	ATLIN LAKE	730	2021-03-26	90	240	27		235%	98	70	0	0	96	243	102	16
			Average	155	513	31		213%	99							

*record high

Basin Index Calculation	Average SWE	513
	Average Normal	256
Northwest Basin Index - April 1, 2021		200%

Stations used in Basin Index:
4E01, 4E02B

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	669
	Average Normal	594
British Columbia Basin Index - April 1, 2021		113%

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

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The May 1st snow survey is now complete. Data from 120 manual snow courses and 91 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 (ECCC) and the provincial Climate Related Monitoring Program have been used to form the basis of the following report.¹

Executive Summary

Overall, the May 1st, 2021 snowpack throughout British Columbia is slightly above normal. Very warm weather in mid-April created a significant melt of the low and mid-elevation snowpack. The average of all B.C. snow measurements decreased to 106% of normal (April 1st: 113%). The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) decreased to 109% from the April 1st index of 116%. High snowpack levels (>120%) are present in the Upper Fraser, Stikine, Northwest, Liard and Central Coast.

Typically, the provincial snowpack reaches its maximum level in mid-April. Onset of snowmelt has been observed in May, with 11% of the annual snow accumulation melted from April 15th to May 1st at automated snow weather stations. Significant additional accumulation to the current snowpack is not expected.

Snowpack is one element of seasonal flood risk in BC and is not the only predictor for whether flooding occurs. Spring weather is critical as it determines the rate that snow melts, and extreme rainfall also causes spring flooding. Spring freshet poses a seasonal risk across the BC Interior irrespective of snowpack levels.

Weather

The weather in April was punctuated by a strong ridge of high pressure that persisted from April 14 to 18th. Many new daily maximum temperature records were set throughout the province during this period, which also resulted in the rapid melt of lower and mid-elevation snow.

Despite this period of hot weather in mid-April, temperatures throughout the province were near normal (between -2.0 and +2.0°C) when averaged across the entire month. Slightly cooler temperatures (between 0 and -2.0°C) occurred in the Northeast, Peace, Robson Valley, Prince George, Quesnel, and Terrace. An anomaly of extremely warm temperatures (>4.0°C) was centred in the southern Chilcotin/Bridge region, and encompassed Lytton, Lillooet, Pemberton, and Whistler.

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

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April was a very dry month for much of the province. Areas that experienced extremely dry conditions (<40% of average precipitation) include the North Thompson, South Thompson, Lower Thompson, Vancouver Island, the South Coast, Fraser Canyon and Chilcotin Plateau. Well below normal (40 to 60%) precipitation was experienced predominantly in the Okanagan, Nicola, Lower Fraser, and West Kootenay regions. Below Normal (60 to 85%) precipitation was measured in the Similkameen, Upper Fraser West, and Peace. Regions that experienced relatively normal monthly precipitation totals (85 to 115%) include the East Kootenay, Prince George, and Quesnel. The Upper Columbia, Skeena/Bulkley, and Upper Fraser East experienced a mix of normal to below normal precipitation within their boundaries.

The first week of May has been relatively mild with limited precipitation and seasonal temperatures. The upcoming weather forecast is for similar conditions, with no signs of another extended heat wave or extreme precipitation.

Snowpack

Snow basin indices (SBI) for May 1st, 2021 range from a low of 64% of normal in the Nicola to a record high of 223% in the Northwest (Table 1 and Figure 2). Overall, the province has slightly above normal snowpack for May 1st, 2021, with an average of all snow measurements across B.C. of 106% (decreasing slightly from the April 1st value of 113%). Below normal snowpack (60-80% of normal) was measured in the Nicola / Lower Thompson. Slightly below normal snowpack (80-90%) was measured in the South Thompson, Bridge and Skagit. Regions with normal snowpack (90-110%) include the North Thompson, Quesnel, Upper Columbia, West Kootenay, East Kootenay, Okanagan, Boundary, South Coast, Vancouver Island, Peace, and Skeena-Nass. Slightly above normal snowpack (110-125%) was measured in the Upper Fraser East, Upper Fraser West, Nechako, Lower Fraser, and Similkameen. Well above normal snowpack (>130%) was measured in the Central Coast, Stikine, Liard, and Northwest. The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) decreased to 109% from the April 1st index of 116%. A table of SWE amounts for the individual sites used to calculate SBI values best describes specific conditions for each area and is included in the final pages of this report.

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

Basin	% of Normal (Apr 1st value)	Basin	% of Normal (Apr 1st value)
Upper Fraser West	117 (132)	Okanagan	91 (109)
Upper Fraser East	124 (122)	Nicola**	64 (108)
Nechako	115 (119)	Boundary	91 (103)

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Middle Fraser	90 (108)	Similkameen	110 (112)
Lower Thompson*	77 (122)	South Coast	109 (118)
Bridge*	84 (103)	Vancouver Island	102 (110)
Chilcotin*	N/A (125)	Central Coast	163 (146)
Quesnel*	104 (109)	Skagit	84 (116)
Lower Fraser	117 (123)	Peace	108 (112)
North Thompson	99 (103)	Skeena-Nass	108 (115)
South Thompson	80 (100)	Stikine	131 (135)
Upper Columbia	103 (108)	Liard	154 (133)
West Kootenay	91 (100)	Northwest	223 (200)
East Kootenay	94 (93)	Fraser	109 (116)
		British Columbia	106 (113)

*sub-basin of Middle Fraser

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

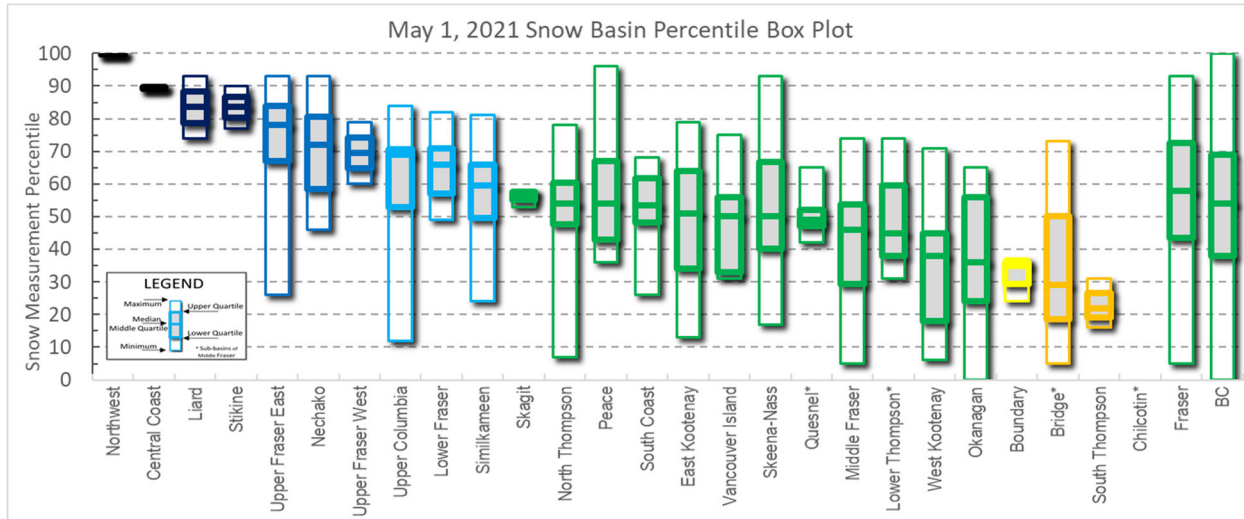
Two manual snow surveys in the Northwest recorded all-time record high values for May 1st, including:

- 4E01 Log Cabin: 761 mm SWE (203% of normal) – 62 years of record
- 4E02B Atlin Lake: 153 mm SWE (442% of normal) – 14 years of record

Percentiles calculated for each site within a basin offer a more accurate interpretation of snowpack variability, especially in regions where the percent of normal is extremely high or low. For example, the average May 1st percentile for all sites within the Central Coast region is the 90th percentile. This means that historical May 1st values for these sites in aggregate were below current values 90% of the time in the historic record, and snowpack was higher than current values 10% of the time. The region with the highest average percentile is the Northwest (100th percentile), indicating that all stations within this region measured all-time record high SWE values. The region with the lowest average percentile is the South Thompson (23rd percentile). A box plot displaying percentile ranges ordered from highest to lowest median, including sub-basins of the Middle Fraser, is provided below in Figure 1. It is useful to compare the following box plot with a region's calculated SBI. For example, the SBI of the Upper Columbia is 103% of normal, whereas the median percentile for snow measurement sites is above normal at the 69th percentile, demonstrating how one or two very low measurements can skew the SBI.

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**Figure 1: Snow Basin Percentile Box Plot – May 1st, 2021
To BE UPDATED**



Outlook

La Niña conditions persisted through winter and early spring. According to the Climate Prediction Center (CPC), there is an 80% chance of transitioning from La Niña to ENSO-neutral conditions during May-July 2021. Historically, La Niña conditions can lead to cooler temperatures for British Columbia in April, resulting in delayed snowmelt and continued snow accumulation in the mountains. This did not occur in April 2021.

During the spring snowmelt period (freshet), short and mid-range weather forecasts are more critical (and more accurate) compared to seasonal weather predictions. In mid-April, a strong high-pressure ridge formed across the entire province, resulting in many locations measuring maximum daily temperatures records for the date. This very warm weather initiated the snowmelt season, particularly for watersheds at lower and mid-elevations. The BC River Forecast Centre issues advisories and warnings in the Cariboo, Chilcotin Plateau, Bonaparte River and Prince George area. Fortunately, due to very warm temperatures in December and January, there was below normal seasonal snowpack at lower elevations, which lessened the intensity of river flows from the initial heat wave.

In other areas of the province, the warm weather in mid-April was likely a positive with respect to freshet-related flood risks as it created an initial pulse of snowmelt-derived flows, which may dampen the intensity of peak flows later in the season. Many regions also dropped from above normal snowpack on April 1st to normal or slightly below normal snowpack on May 1st because of snowmelt stemming from the mid-month warm weather. Regions with relatively high snowpack may still be susceptible to snowmelt-related flooding,

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including the Upper Fraser East, Central Coast, Stikine, Northwest and Northeast. In the South Interior, spring flooding is still a possibility through a combination of rapid snowmelt and rainfall, or intense rainfall alone.

Seasonal volume runoff forecasts (see below) decreased as compared to the April 1st forecast. This is due to the relatively dry April weather in combination with the mid-April heat that resulted in seasonally high, snowmelt dominated flows. Seasonal volume runoff forecasts are slightly above normal (110-120%) for the Upper Fraser, Nicola River, Similkameen and Cowichan River. Near normal (90-110%) runoff forecasts are predicted for the Middle Fraser, Thompson, Bulkley/Skeena, Nicola Lake and Okanagan Lake. Below normal (<90%) runoff is expected in Okanagan Lake and Kalamalka-Wood Lake. Near normal snowpack on Vancouver Island and the South Coast indicates the potential for normal runoff in watersheds with significant areas at higher elevations.

Typically, 100% of the annual BC snowpack has accumulated by early May, where the provincial snowpack normally peaks in mid-April. Lower elevation snow sites usually start to melt prior to May 1st, while high elevation snow stations can continue to accumulate snow into May (depending on weather conditions). Based on the automated snow weather stations (ASWS), snowpack across the province peaked on April 15th; by May 1st, 11% of the total snowpack measured by these stations had melted. In comparison, 4.5% of snowpack measured by of the ASWS in 2020 melted from April 15th to May 1st (a more typical melt value), indicating that more snow has melted this season relative to the past.

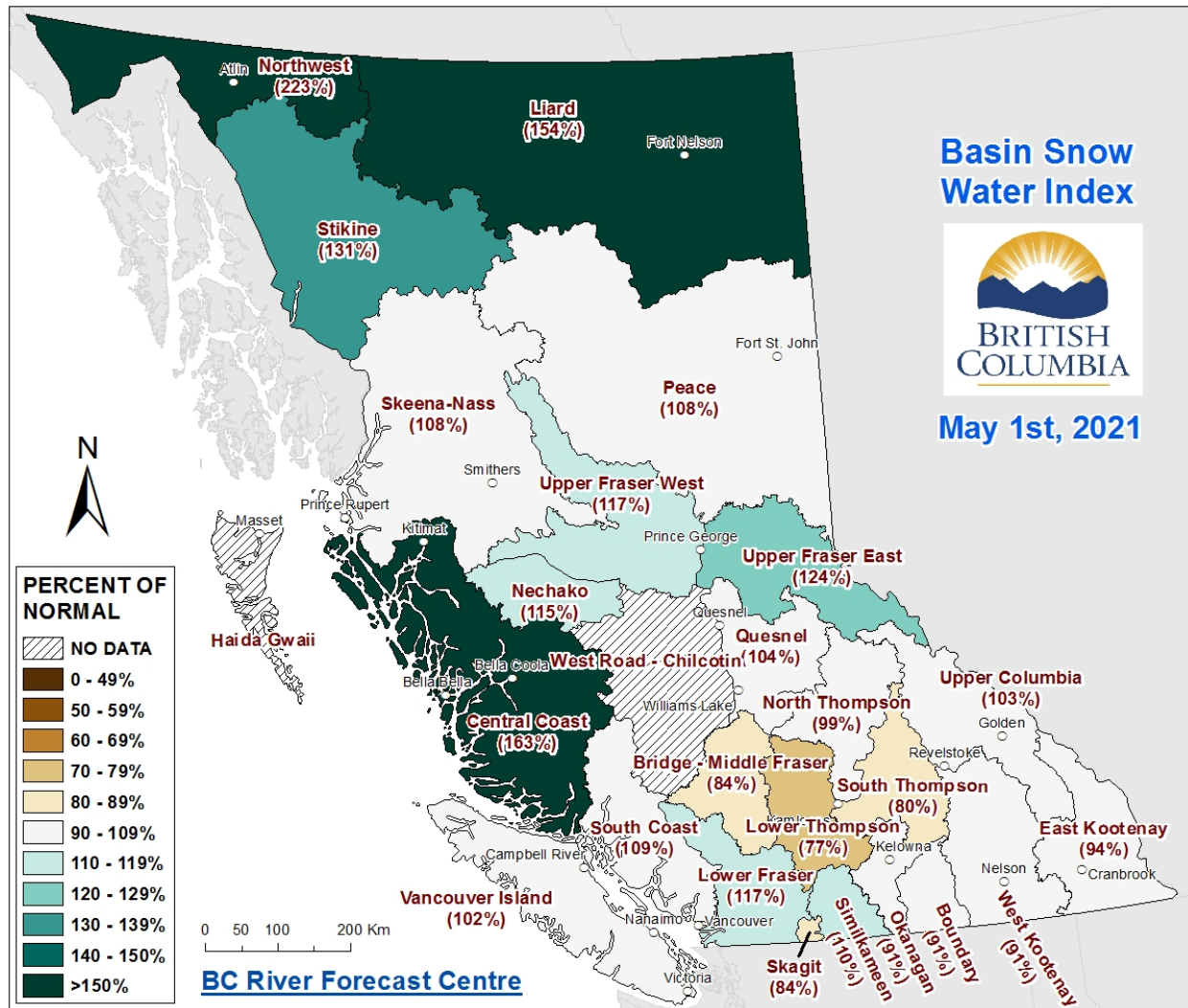
While snowpack is one risk factor for freshet flooding, snowpack alone cannot predict whether flooding will occur. Spring weather is also critical, where the timing and severity of temperature and rainfall patterns are important drivers of flooding irrespective of snowpack. Spring freshet poses a seasonal risk across the BC Interior. Scenarios that could exacerbate flood risk this year include prolonged cool weather followed by a rapid shift to persistent hot weather (particularly in mid to late-May), or persistent wet weather or extreme short-term rainfall which can occur into July. Favourable scenarios would include continued dry weather and seasonal temperatures.

The River Forecast Centre will continue to monitor snowpack conditions and will provide an updated seasonal flood risk forecast in the May 15th 2021 bulletin, which is scheduled for release on Friday, May 21st.

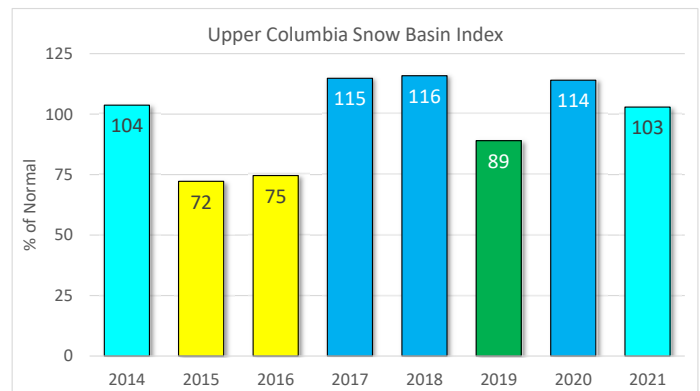
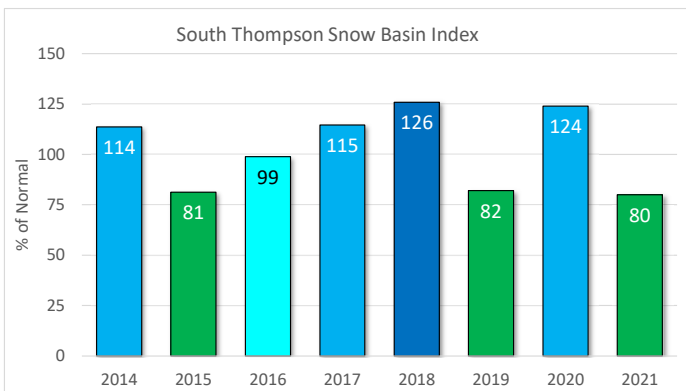
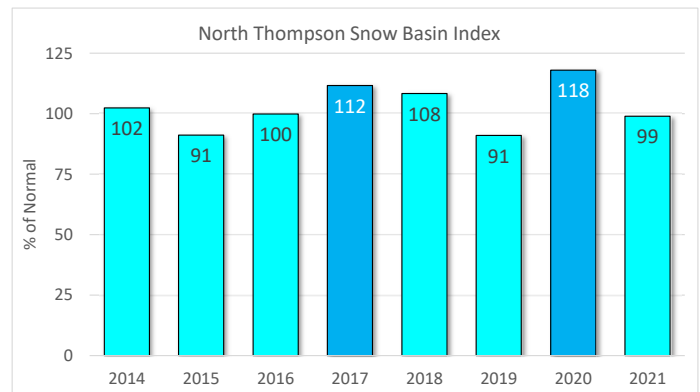
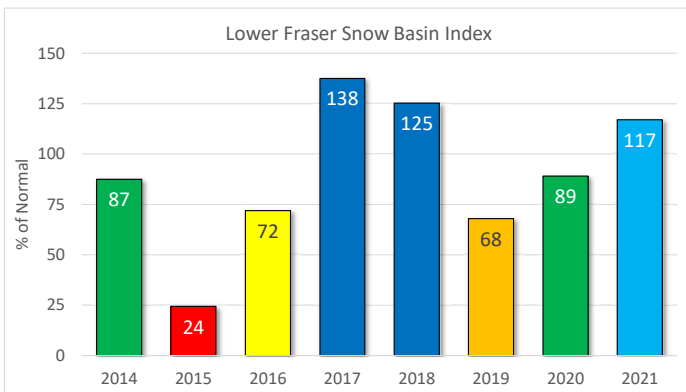
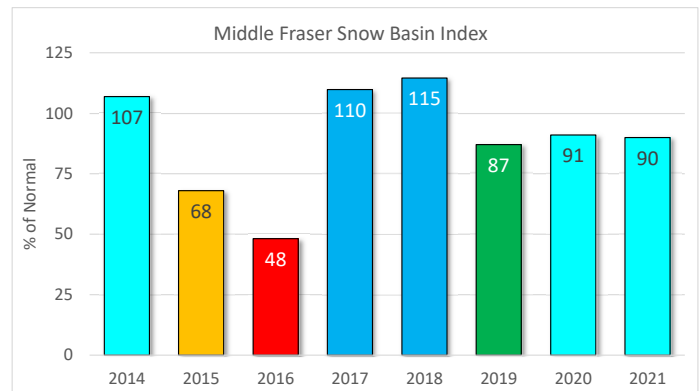
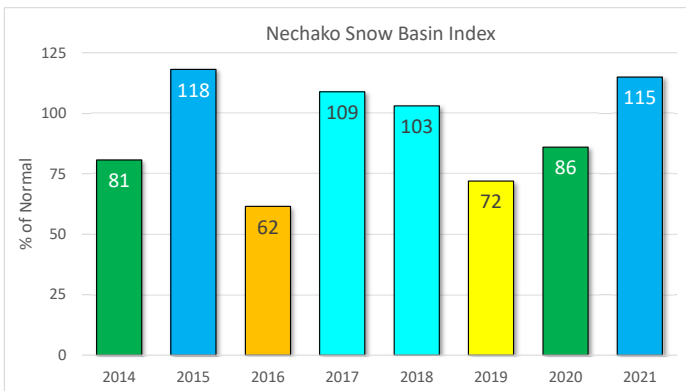
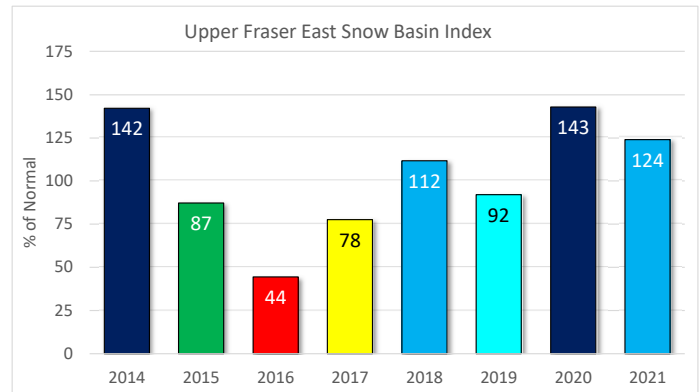
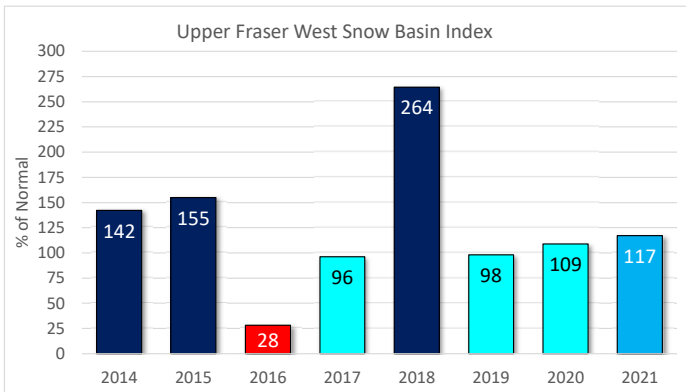
BC River Forecast Centre
May 7, 2021

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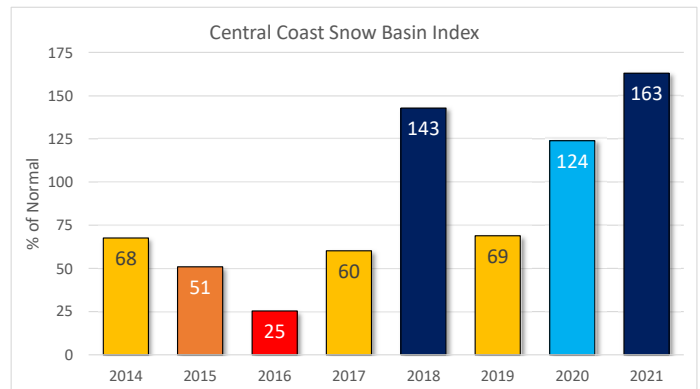
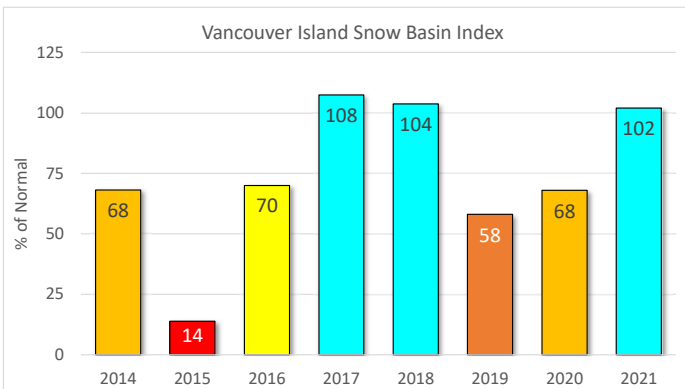
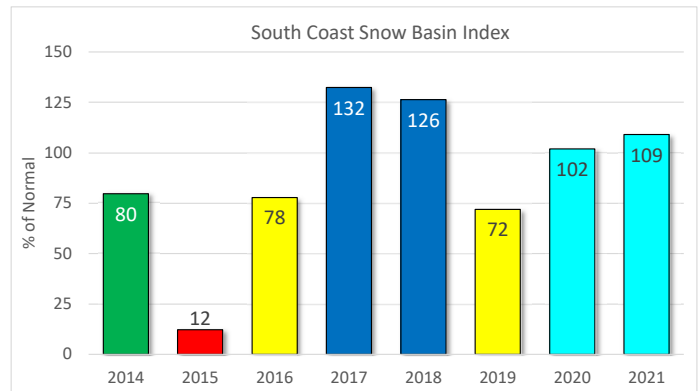
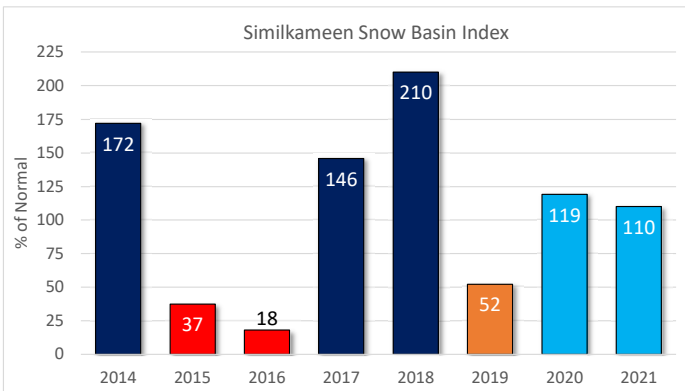
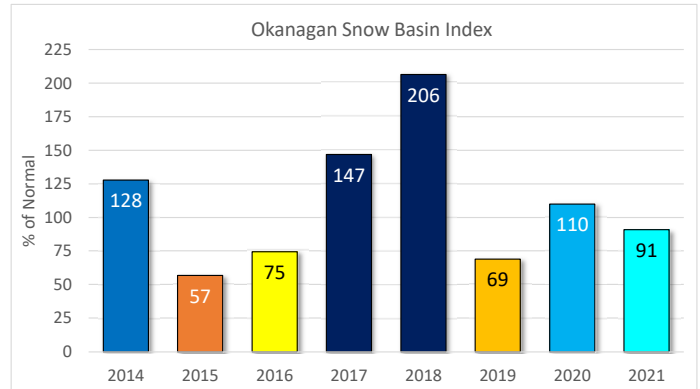
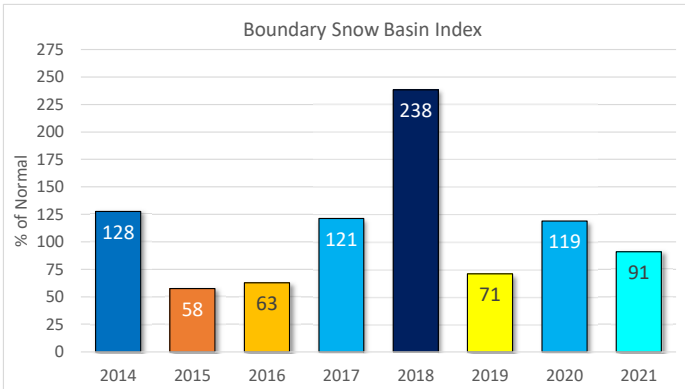
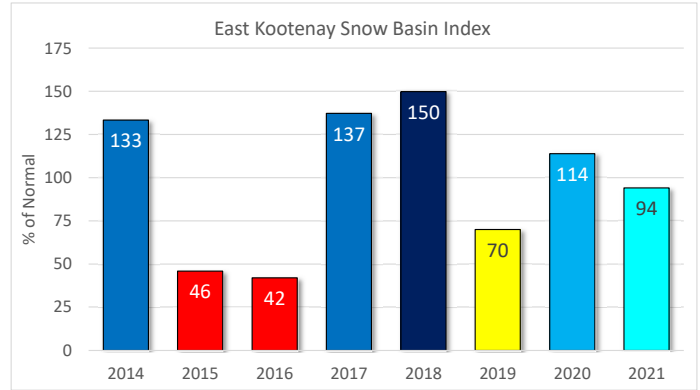
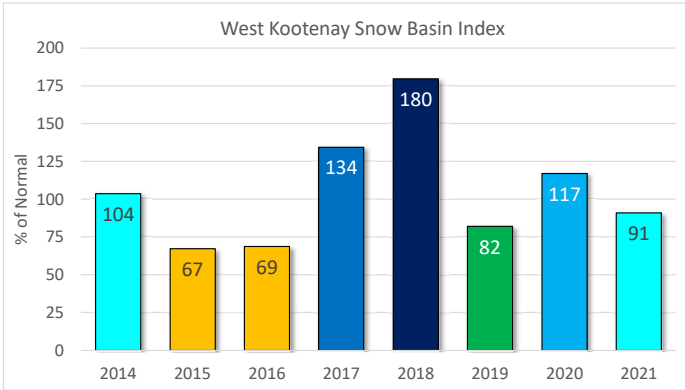
Figure 2: Basin Snow Water Index – May 1st, 2021



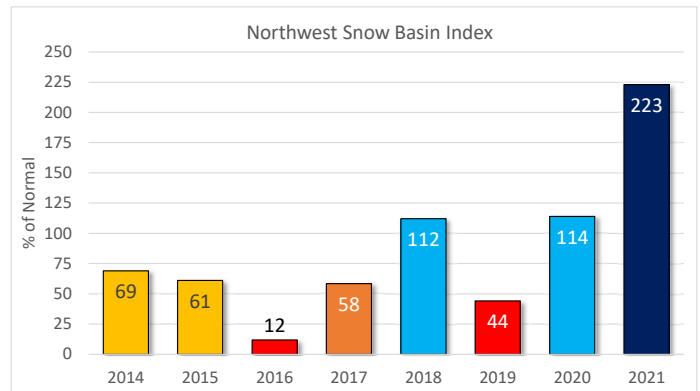
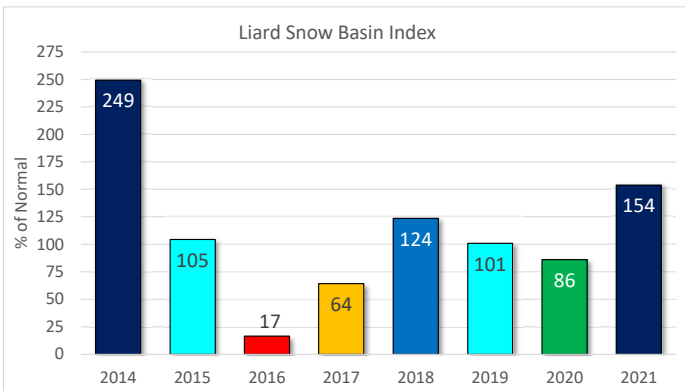
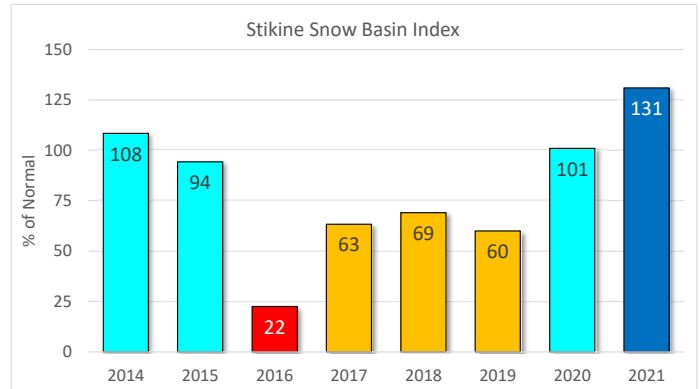
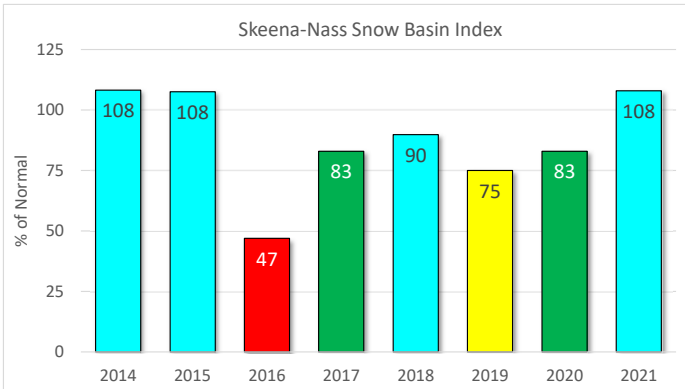
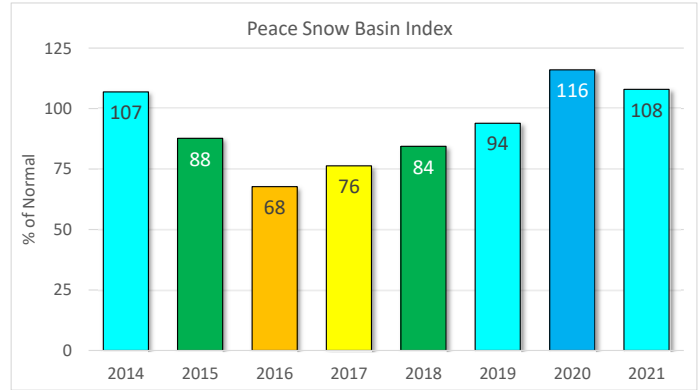
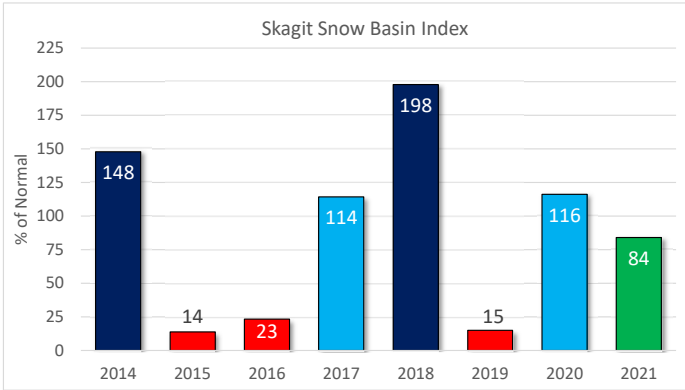
Note, the Snow Basin Map have been updated to a more color-accessible scheme. A version of the Snow Basin Water Index map with previous color-palette can be found [here](#).



Snow Basin Index Graphs - May 1, 2021



Snow Basin Index Graphs - May 1, 2021



Ministry of Forests, Lands and Natural Resource Operations and Rural Development
River Forecast Centre
Volume Runoff Forecast May 2021

Location		May - Jun Runoff				May - Jul Runoff				May - 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					3,394	3,534	96%	297	4,927	5,000	99%	373
	McGregor at Lower Canyon					4,399	3,552	124%	376	5,554	4,598	121%	563
	Fraser at Shelley					15,980	13,672	117%	1,070	19,800	17,732	112%	1,657
Middle Fraser Basin	Quesnel River at Quesnel					4,057	4,117	99%	396	5,416	5,448	99%	574
Thompson Basin	N. Thompson at McLure					8,000	8,209	97%	425	10,230	10,379	99%	785
	S. Thompson at Chase					4,981	5,298	94%	403	6,472	6,865	94%	659
	Thompson at Spences Bridge					13,278	13,923	95%	825	17,229	17,903	96%	1,510
Bulkley and Skeena	Bulkley at Quick					2,525	2,383	106%	185	3,150	2,980	106%	220
	Skeena at Usk					17,879	17,317	103%	964	22,266	21,661	103%	1,463
Nicola Lake		106	105	101%	28	139	122	114%	33				
*new model ¹		116	107	108%	20	114	130	88%	22	109	124	87%	26
Nicola River at Spences Bridge		448	409	110%	76	526	476	110%	98				
*new model ²		671	406	165%	N/A	788	470	168%	N/A	834	497	168%	N/A
Okanagan Lake		242	349	69%	81	246	376	65%	103				
*new model ²		328	374	87%	68	316	405	78%	76	239	396	61%	90
Kalamalka-Wood Lake		14.8	19.0	78%	8.2	15.3	20.4	75%	10.7				
*new model ³		10.5	18.2	58%	N/A	4.1	15.7	26%	N/A	2.5	13.3	19%	N/A
Similkameen River	at Nighthawk	1,278	1,101	116%	152					1,664	1,411	118%	193
	at Hedley	902	827	109%	91					1,115	1,015	110%	105
Cowichan River	Cowichan Lake Inflows	157	130	122%	32.1					204	174	117%	50

¹ 1984-2019 Period of Record

² 1970-2019 Period of Record

³ 1975-2019 Period of Record

Note: 1 kdam³=1,000,000 m³

Note that missing values reflect that forecasts were not made for that time interval

Disclaimer: Seasonal forecasts were developed using a 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

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

UPPER FRASER EAST			May 1, 2021 Data				May 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 (1991-2020)	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	2021-05-01	160	618	39		108%	70	625	N/A	383	578	833	574	22
1A02P	McBride Upper	1611	2021-05-01	141	631	45		122%	87	613	487	203	490	754	516	29
1A03P	Barkerville	1520	2021-05-01	65	254	39		81%	26	447	274	2	328	541	312	42
1A05	LONGWORTH (UPPER)	1693	N	N	N	N	N	N/A	N/A	1310	866	391	828	1476	894	66
1A05P	Longworth Upper	1740	2021-05-01	242	1213	50		N/A	N/A	993	826	657	797	993	N/A	4
1A06A	HANSARD	608	NS	NS	NS	NS	NS	N/A	N/A	30	0	0	30	100	N/A	3
1A10	PRINCE GEORGE A	689	NS	NS	NS	NS	NS	N/A	N/A	0	0	0	0	216	0	42
1A11	PACIFIC LAKE	755	2021-04-26	202	872	43		170%	93	782	419	0	529	976	512	55
1A14P	Hedrick Lake	1100	2021-05-01	231	961	42		118%	64	763	560	248	763	1268	817	21
1A15	KNUDSEN LAKE	1602	N	N	N	N	N	N/A	N/A	1230	741	501	896	1346	904	50
1A15P	Knudsen Lake	1601	2021-05-01	228	1263	55		N/A	N/A	786	513	284	526	786	N/A	5
1A17P	Revolution Creek	1690	2021-05-01	235	1098	47		129%	81	1378	804	480	842	1378	851	32
1A19P	Dome Mountain	1774	2021-05-01	234	1038	44		126%	78	1042	728	314	832	1166	821	15
			Average	193	883	45		122%	71							

Basin Index Calculation	Average SWE	782
	Average Normal	629
Upper Fraser East Basin Index - May 1, 2021		124%

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

UPPER FRASER WEST			May 1, 2021 Data				May 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 (1991-2020)	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	2021-05-02	96	359	37		109%	60	352	298	166	338	481	331	53
1A12P	Kaza Lake	1257	2021-05-01	104	366	35		N/A	N/A	358	331	192	328	358	N/A	5
1A16	BURNS LAKE	800	N	N	N	N	N	N/A	N/A	N	2	0	0	148	35	42
1A23	BIRD CREEK	1180	2021-04-30	28	96	34		168%	79	N	84	0	10	218	57	28
			Average	76	274	36		138%	70							

Basin Index Calculation	Average SWE	228
	Average Normal	194
Upper Fraser West Basin Index - May 1, 2021		117%

Stations used in Basin Index:
1A12, 1A23

NECHAKO			May 1, 2021 Data				May 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 (1991-2020)	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	2021-04-30	123	550	45		111%	65	N	380	201	514	958	496	63
1B01P	Mount Wells	1490	2021-05-01		682			117%	72		484	305	552	917	585	28
1B02	TAHTSA LAKE	1300	2021-04-30	315	1552	49		125%	93	N	819	701	1175	2073	1242	66
1B02P	Tahtsa Lake	1300	2021-05-01		1601			120%	84	1168	990	823	1268	2356	1329	28
1B05	SKINS LAKE	890	2021-04-30	0	0			0%	N/A	N	0	0	0	100	2	48
1B06	MOUNT SWANNELL	1620	2021-04-30	74	289	39		104%	46	N	248	0	301	499	277	30
1B07	NUTLI LAKE	1490	2021-04-30	117	580	50		117%	77	N	349	227	480	870	497	27
1B08P	Mt. Pondosy	1400	2021-05-01		744			94%	52	687	499	490	728	1267	790	25
			Average	126	750	46		99%	70							

Basin Index Calculation	Average SWE	750
	Average Normal	652
Nechako Basin Index - May 1, 2021		115%

Stations used in Basin Index:
1B01, 1B01P, 1B02, 1B02P, 1B05, 1B06, 1B07, 1B0P

LOWER THOMPSON			May 1, 2021 Data					May 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 (1991-2020)	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	2021-04-30	16	46	29		70%	31	34	0	0	74	419	66	74
1C06	PAVILION	1230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	16
1C09A	HIGHLAND VALLEY	1510	2021-04-29	0	0	N/A	T	0%	N/A	0	0	0	0	181	26	53
1C25	LAC LE JEUNE (UPPER)	1509	2021-05-03	5	14	28		32%	45	50	37	0	22	168	44	47
1C29	SHOVELNOSE MOUNTAIN	1450	2021-04-30	31	108	35		132%	74	95	0	0	48	305	82	38
1C29P	Shovelnose Mountain	1460	2021-05-01	14	7	5		N/A	N/A	40	0	0		40	N/A	2
1C32	DEADMAN RIVER	1430	N	N	N	N	N	N/A	N/A	100	0	0	10	194	36	37
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	172		172	N/A	1
			Average	13	35	24		58%	50							

Basin Index Calculation	Average SWE	42
	Average Normal	54
Lower Thompson Basin Index - May 1, 2021		77%

Stations used in Basin Index:
1C01, 1C09A, 1C25, 1C29

BRIDGE / LILLOOET			May 1, 2021 Data					May 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 (1991-2020)	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	2021-05-02	100	440	44		80%	20	388	414	270	585	1118	549	68
1C05P	McGillivray Pass	1718	2021-05-01		459			N/A	N/A	374	410	374	410	618	N/A	3
1C12P	Green Mountain	1780	2021-05-01		657			75%	14	565	740	488	812	1369	875	27
1C14	BRALORNE	1389	2021-05-02	3	11	37		18%	33	0	38	0	58	255	63	57
1C14P	Bralorne	1382	2021-05-01	14	1	1		N/A	N/A	0	0	0	0	58	N/A	3
1C18P	Mission Ridge	1850	2021-05-01		624			122%	73	485	336	147	490	1029	513	44
1C28	DUFFEY LAKE	1200	2021-05-03	65	357	55		N/A	47	N	230	206	365	624	N/A	14
1C37	BRALORNE (UPPER)	1981	N	N	N	N	N	N/A	N/A	454	550	0	673	1092	641	24
1C38	DOWNTON LAKE (UPPER)	1887	2021-05-02	148	560	38		66%	5	678	840	450	852	1340	843	23
1C38P	Downton Lake Upper	1829	2021-05-01		400			N/A	N/A	617	718	617	718	869	N/A	5
1C39	BRIDGE GLACIER (LOWER)	1390	2021-05-02	117	476	41		79%	25	416	598	244	598	1018	603	25
1C40	TYAUGHTON CREEK (NORTH)	1947	2021-05-02	113	478	42		110%	59	330	398	258	398	806	436	25
1C40P	North Tyaughton	1969	2021-05-01		447			N/A	N/A	299	387	217	368	438	N/A	5
			Average	80	409	37		78%	35							

Basin Index Calculation	Average SWE	464
	Average Normal	555
Bridge/Lillooet Basin Index - May 1, 2021		84%

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

CHILCOTIN			May 1, 2021 Data					May 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 (1991-2020)	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	2021-05-01	0	0	N/A	T	N/A	N/A	0	0	0	0	46	5	26
1C21	BIG CREEK	1140	2021-04-27	0	0	N/A		N/A	N/A	0	0	0	0	48	N/A	9
1C22	PUNTZI MOUNTAIN	940	2021-05-01	0	0	N/A		N/A	N/A	0	0	0	0	0	N/A	13
			Average	0	0	N/A		N/A	N/A							

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

Stations used in Basin Index:
N/A

QUESNEL			May 1, 2021 Data				May 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 (1991-2020)	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	2021-05-01	126	516	41		113%	65	712	518	136	454	712	457	49
1C17	MOUNT TIMOTHY	1660	2021-05-03	67	258	39		98%	42	204	232	90	301	536	265	58
1C20P	Boss Mountain Mine	1460	2021-05-01	109	538	49		96%	47	506	535	259	551	821	562	27
1C23	PENFOLD CREEK	1685	N	N	N	N	N	N	N	N	N	710	1080	1420	1068	44
1C33A	GRANITE MOUNTAIN	1150	2021-04-30	21	64	30		78%	49	129	53	0	65	221	82	15
1C41P	Yanks Peak East	1670	2021-05-01	168	954	57		108%	52	1274	972	529	939	1274	886	24
			Average	98	466	43		98%	51							

Basin Index Calculation	Average SWE	466
	Average Normal	450
Quesnel Basin Index - May 1, 2021		104%

Stations used in Basin Index:
1C13A, 1C17, 1C20P, 1C33A, 1C41P

MIDDLE FRASER

Basin Index Calculation	Average SWE	359
	Average Normal	397
Middle River Basin Index - May 1, 2021		90%

Stations used in Basin Index:
1C01, 1C09A, 1C25, 1C29, 1C05, 1C12P, 1C14, 1C18P, 1C38, 1C39, 1C40, 1C13A, 1C17, 1C20P, 1C33A, 1C41P

LOWER FRASER			May 1, 2021 Data				May 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 (1991-2020)	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	2021-05-01	220	1005	46		94%	49	912	920	653	1022	1699	1074	20
1D08	STAVE LAKE	1250	2021-04-29	356	1712	48		115%	58	1267	1026	62	1603	3120	1485	54
1D08P	Lamont Creek Upper	1217	2021-05-01		1757			N/A	N/A						N/A	0
1D09	WAHLEACH LAKE	1480	2021-04-29	186	840	45		142%	71	643	326	4	644	1417	591	52
1D09P	Wahleach Lake Upper	1480	2021-05-01		1239			124%	82	958	682	344	983	1757	999	28
1D10	NAHATLATCH RIVER	1550	N	N	N	N	N	N/A	N/A	1142	1018	468	1354	2720	1360	51
1D16	DICKSON LAKE	1160	2021-04-29	382	1928	50		128%	69	1526	754	4	1518	3180	1500	28
1D17P	Chilliwack River	1600	2021-05-01	295	1728	59	E	109%	57	1737	1244	675	1637	2445	1583	28
1D18	DISAPPOINTMENT LAKE	1050	2021-04-29	378	1870	49		115%	66	N	936	648	1658	2660	1625	19
1D18P	Disappointment Lake	1050	2021-05-01	341	1999	59	E	139%	77	954	630	375	1486	2460	1433	12
1D19P	Spuzzum Creek	1180	2021-05-01	295	1728	59		110%	54	1324	1030	162	1637	2940	1567	22
			Average	307	1581	52		120%	65							

Basin Index Calculation	Average SWE	1475
	Average Normal	1263
Lower Fraser Basin Index - May 1, 2021		117%

Stations used in Basin Index:
1D06P, 1D08, 1D09, 1D09P, 1D16, 1D17P, 1D18, 1D18P, 1D19P

NORTH THOMPSON			May 1, 2021 Data				May 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 (1991-2020)	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	2021-04-28	11	42	38		53%	62	240	78	0	4	265	79	36
1E02P	Mount Cook	1550	2021-05-01	281	1551	55		111%	78	1511	1305	1007	1335	2006	1400	17
1E03A	TROPHY MOUNTAIN	1860	2021-04-30	157	640	41		100%	59	714	596	417	615	960	640	43
1E07	ADAMS RIVER	1720	2021-04-27	165	758	46		101%	54	852	670	396	738	1173	748	49
1E08P	Azure River	1652	2021-05-01	246	1290	52		103%	53	1328	930	776	1279	1635	1246	24
1E10P	Kostal Lake	1770	2021-05-01	153	708	46		78%	7	747	809	641	923	1268	909	36
1E14P	Cook Creek	1280	2021-05-01	66	378	57		95%	42	650	293	101	416	650	398	12
			Average	154	767	48		92%	51							

Basin Index Calculation	Average SWE	767
	Average Normal	774
North Thompson Basin Index - May 1, 2021		99%

Stations used in Basin Index:
1E01B, 1E02P, 1E03A, 1E07, 1E08P, 1E10P, 1E14P

SOUTH THOMPSON			May 1, 2021 Data				May 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 (1991-2020)	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	2021-04-30	0	0	N/A		0%	N/A	105	0	0	8	165	31	63
1F02	ANGLEMONT	1190	2021-04-29	23	30	13		17%	16	376	108	0	222	496	177	60
1F03P	Park Mountain	1890	2021-05-01	142	812	57		83%	22	1023	712	669	953	1340	973	36
1F04P	Enderby	1950	2021-05-01	216	767	36		N/A	N/A	981	835	835	1064	1167	N/A	4
1F04P2	Enderby Tower 2	1950	2021-05-01		1074			N/A	N/A	1285	974	974	1285	1357	N/A	3
1F06P	Celista Mountain	1500	2021-05-01	175	905	52		91%	31	1029	895	799	1031	1173	996	14
			Average	111	598	39		48%	23							

Basin Index Calculation	Average SWE	437
	Average Normal	544
South Thompson Basin Index - May 1, 2021		80%

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

FRASER RIVER

Basin Index Calculation	Average SWE	747
	Average Normal	688
Fraser River Basin Index - May 1, 2021		109%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A11, 1A14P, 1A17P, 1A19P, 1A12, 1A23, 1B01, 1B01P, 1B02, 1B02P, 1B05, 1B06, 1B07, 1B0P, 1C01, 1C09A, 1C25, 1C29, 1C05, 1C12P, 1C14, 1C18P, 1C38, 1C39, 1C40, 1C13A, 1C17, 1C20P, 1C33A, 1C41P, 1D06P, 1D08, 1D09, 1D09P, 1D16, 1D17P, 1D18, 1D18P, 1D19P, 1E01B, 1E02P, 1E03A, 1E07, 1E08P, 1E10P, 1E14P, 1F01A, 1F02, 1F03P, 1F06P

UPPER COLUMBIA			May 1, 2021 Data				May 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 (1991-2020)	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	2021-04-28	157	780	50		119%	74	838	612	320	653	1247	653	75
2A03A	FIELD	1285		NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	178	37	49
2A06P	Mount Revelstoke	1850	2021-05-01		1177			94%	44	1323	1105	874	1260	1668	1250	27
2A07	KICKING HORSE	1650	2021-04-28	92	333	36		107%	58	384	265	63	312	589	311	70
2A11	BEAVERFOOT	1890	2021-05-02	64	150	23		89%	32	235	118	0	200	495	168	60
2A14	MOUNT ABBOT	2010	2021-04-27	324	1510	47		109%	70	1470	1143	853	1335	1885	1379	60
2A16	GOLDSTREAM	1920	2021-04-26	270	1216	45		100%	54	1408	1114	784	1184	1781	1214	58
2A17	FIDELITY MOUNTAIN	1870	2021-04-29	325	1620	50		119%	84	1627	1210	817	1294	1986	1360	58
2A18	KEYSTONE CREEK	1890		N	N	N	N	N/A	N/A	843	702	514	830	1421	847	54
2A18P	Keystone Creek	1840	2021-05-01		882			N/A	N/A	1020	902	737	1020	1288	N/A	5
2A19	VERMONT CREEK	1520	2021-05-02	86	382	44		114%	57	347	248	0	364	1026	335	55
2A21P	Molson Creek	1935	2021-05-01		1139			103%	69	1053	947	742	1069	1677	1108	38
2A22	SUNBEAM LAKE	2010	2021-04-26	253	1088	43		113%	69	1143	833	611	939	1562	965	54
2A23	BUSH RIVER	1920	2021-04-26	219	950	43		113%	71	979	782	492	842	1392	843	53
2A25	KIRBYVILLE LAKE	1750	2021-04-26	265	1202	45		94%	52	1378	1167	770	1194	1797	1275	48
2A27	DOWNIE SLIDE (LOWER)	980	2021-04-26	141	624	44		116%	69	732	404	0	512	910	539	42
2A29	DOWNIE SLIDE (UPPER)	1630	2021-04-26	245	1092	45		76%	12	1454	1330	802	1348	2242	1430	42
2A30P	Colpitti Creek	2131	2021-05-01		1004			N/A	76	1045	754	452	754	1122	N/A	11
2A31P	Caribou Creek Upper	2201	2021-05-01		1148			N/A	N/A	1094	862	796	1094	1214	N/A	5
2A32P	Wildcat Creek	2122	2021-05-01		746			N/A	N/A	844	692	440	692	844	N/A	5
			Average	N/A	947	N/A		105%	59							

Basin Index Calculation	Average SWE	947
	Average Normal	917
Upper Columbia Basin Index - May 1, 2021		103%

Stations used in Basin Index:
2A02, 2A06P, 2A07, 2A11, 2A14, 2A16, 2A17, 2A19, 2A21P, 2A22, 2A23, 2A25, 2A27, 2A29

WEST KOOTENAY			May 1, 2021 Data				May 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 (1991-2020)	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	2021-05-03	7	36	51		19%	6	152	130	0	177	437	187	48
2B05	WHATSHAN (UPPER)	1525	2021-04-27	123	545	44		94%	42	723	360	255	571	983	579	59
2B06P	Barnes Creek	1620	2021-05-01		435			76%	17	654	345	345	570	821	575	28
2B07	KOCH CREEK	1860	2021-04-27	168	662	39		83%	23	816	644	391	785	1201	796	59
2B08P	St. Leon Creek	1800	2021-05-01		1213			105%	54	1595	1017	705	1137	1595	1152	27
2B09	RECORD MOUNTAIN	1890	2021-05-02	104	498	48		69%	15	582	552	157	691	1278	721	46
2D02	FERGUSON	880	2021-04-29	106	515	49		113%	69	622	N	160	425	773	456	72
2D03	SANDON	1070	2021-05-01	2	25	125		42%	42	199	0	0	49	399	59	66
2D04	NELSON	930	2021-05-03	2	7	35	T	5%	15	111	27	0	137	508	131	64
2D05	GRAY CREEK (LOWER)	1550	2021-04-28	104	375	36		82%	21	N	359	229	450	726	458	70
2D06	CHAR CREEK	1310	NS	NS	NS	NS	NS	N/A	N/A	NS	320	79	441	838	450	53
2D07A	DUNCAN LAKE NO. 2	630	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	42	N/A	4
2D07AP	Duncan Lake Dam 2	559	2021-05-01		0			N/A	N/A	0	N/A	0	0	0	N/A	1
2D08P	East Creek	2030	2021-05-01		1031			109%	71	1055	961	483	933	1349	949	39
2D09	MOUNT TEMPLEMAN	1860	2021-04-27	246	1057	43		97%	44	1143	N	731	1074	1679	1090	51
2D10	GRAY CREEK (UPPER)	1940	2021-04-28	184	741	40		93%	45	N	627	505	757	1300	794	49
2D10P	GRAY CREEK (UPPER)	1930	2021-05-01	169	741	44		N/A	N/A						N/A	0
2D14P	Redfish Creek	2104	2021-05-01	255	1376	54		95%	34	1447	1165	890	1490	2036	1455	19
			Average	123	579	51		77%	36							

Basin Index Calculation	Average SWE	608
	Average Normal	672
West Kootenay Basin Index - May 1, 2021		91%

Stations used in Basin Index:
2B02A, 2B05, 2B06P, 2B07, 2B08P, 2B09, 2D02, 2D03, 2D04, 2D05, 2D08P, 2D09, 2D10, 2D14P

EAST KOOTENAY			May 1, 2021 Data				May 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 (1991-2020)	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	2021-04-26	28	83	30		202%	79	88	0	0	41	246	41	74
2C04	SULLIVAN MINE	1550	2021-04-29	71	252	35		126%	49	178	84	0	255	518	200	75
2C09Q	Morrissey Ridge	1860	2021-05-01		413			60%	13	655	389	317	667	1332	692	36
2C10P	Moyie Mountain	1930	2021-05-01	40	217	54		61%	19	497	232	0	362	674	354	40
2C11	KIMBERLY UPPER	2140	N	N	N	N	N	N/A	N/A	NS	NS	188	453	935	454	44
2C12	KIMBERLY MIDDLE	1680	N	N	N	N	N	N/A	N/A	NS	NS	0	205	483	175	44
2C14P	Floe Lake	2090	2021-05-01		860			108%	51	872	641	481	837	1196	793	26
2C15	MOUNT ASSINIBOINE	2230	2021-05-02	162	634	39		109%	67	632	515	339	558	930	583	49
2C16	MOUNT JOFFRE	1750	N	N	N	N	N	N/A	N/A	N	217	36	342	772	353	50
2C17	THUNDER CREEK	2010	2021-05-02	95	312	33		107%	61	N	246	163	293	556	291	48
			Average	79	396	38		110%	48							

Basin Index Calculation	Average SWE	396
	Average Normal	422
East Kootenay Basin Index - May 1, 2021		94%

Stations used in Basin Index:
2C01, 2C04, 2C09Q, 2C10P, 2C14P, 2C15, 2C17

BOUNDARY			May 1, 2021 Data				May 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 (1991-2020)	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	2021-04-27	62	239	39		84%	24	386	189	67	293	505	285	61
2E02	CARMI	1250	2021-04-29	0	0	N/A		0%	N/A	0	0	0	0	173	15	57

2E03	BIG WHITE MOUNTAIN	1680	2021-04-29	105	436	42	94%	37	485	334	237	480	762	464	54
2E07P	Grano Creek	1860	2021-05-01	113	548	48	94%	35	664	398	295	563	878	583	23
			Average	70	306	43	68%	32							

Basin Index Calculation	Average SWE	306
	Average Normal	337
Boundary Basin Index - May 1, 2021		91%

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

OKANAGAN			May 1, 2021 Data				May 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 (1991-2020)	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	2021-04-26	18	64	36		45%	25	81	20	20	124	298	143	11
2F01AP	Trout Creek West	1420	2021-05-01	20	1	1		N/A	N/A	81	0	0	81	240	N/A	3
2F02	SUMMERLAND RESERVOIR	1280	2021-04-29	0	0	N/A		0%	0	74	0	0	103	368	79	55
2F03	MCCULLOCH	1280	2021-04-28	0	0	N/A		0%	0	25	0	0	20	188	14	74
2F04	GRAYSTOKE LAKE	1840	2021-05-05	99	432	43		121%	65	512	308	120	383	940	356	46
2F05P	Mission Creek	1780	2021-05-01	123	539	44		100%	56	710	411	138	512	803	538	50
2F07	POSTILL LAKE	1370	2021-04-29	26	92	35		71%	24	157	0	0	156	282	129	68
2F08	GREYBACK RESERVOIR	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	N	0	172	386	175	45
2F08P	Greyback Reservoir	1550	2021-05-01		0			N/A	N/A	139	52	52	203	269	N/A	4
2F09	WHITEROCKS MOUNTAIN	1830	2021-04-28	112	522	47		107%	59	N	415	175	498	1013	490	49
2F10	Silver Star Mountain	1840	NS	NS	NS	NS	NS	N/A	N/A	NS	595	371	760	1135	767	59
2F10P	Silver Star Mountain	1839	2021-05-01	130	714	55		N/A	N/A	883	711	711	809	883	N/A	5
2F11	ISINTOK LAKE	1680	2021-04-27	31	90	29		82%	36	144	0	0	125	437	110	55
2F12	MOUNT KOBALU	1810	2021-04-29	76	301	40		95%	52	220	168	53	298	597	316	55
2F13	ESPERON CR (UPPER)	1650	N	N	N	N	N	N/A	N/A	344	256	119	350	805	357	51
2F14	ESPERON CR (MIDDLE)	1430	N	N	N	N	N	N/A	N/A	244	198	0	274	551	287	34
2F18P	Brenda Mine	1460	2021-05-01		22			16%	24	54	2	0	130	344	134	25
2F19	OYAMA LAKE	1340	2021-04-30	0	0	N/A	T	0%	N/A	74	0	0	60	233	66	51
2F19P	OYAMA LAKE	1360	2021-05-01		0			N/A	N/A						N/A	0
2F20	VASEUX CREEK	1400	2021-04-27	15	50	33		137%	60	56	38	0	26	195	37	49
2F21	BOULEAU LAKE	1400	2021-04-25	59	264	45		116%	48	280	NS	16	270	488	228	48
2F23	MACDONALD LAKE	1740	N	N	N	N	N	N/A	N/A	N	N	198	421	650	450	37
2F24	ISLAHT LAKE	1480	2021-04-30	53	190	36		78%	35	280	143	64	264	433	242	39
2F25	POSTILL LAKE UPPER	1540	N	N	N	N	N	N/A	N/A	N	N	0	36	250	N/A	4
			Average	51	182	37		69%	37							

Basin Index Calculation	Average SWE	197
	Average Normal	217
Okanagan Basin Index - May 1, 2021		91%

Stations used in Basin Index:
2F01, 2F02, 2F03, 2F04, 2F05P, 2F07, 2F09, 2F11, 2F12, 2F18P, 2F19, 2F20, 2F21, 2F24

SIMILKAMEEN			May 1, 2021 Data				May 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 (1991-2020)	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	2021-05-01	186	837	45		104%	61	838	548	376	740	1570	805	53
2G04	LOST HORSE MOUNTAIN	1920	2021-04-28	98	313	32		131%	81	370	N	10	241	554	239	57
2G05	MISSEZULA MOUNTAIN	1550	2021-04-28	43	149	35		142%	58	138	0	0	124	323	105	56
2G06	HAMILTON HILL	1490	2021-04-27	43	156	36		91%	24	177	0	0	228	838	171	61
			Average	93	364	37		117%	56							

Basin Index Calculation	Average SWE	364
	Average Normal	330
Similkameen Basin Index - May 1, 2021		110%

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

SOUTH COAST			May 1, 2021 Data				May 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3A01	GROUSE MOUNTAIN	1100	2021-04-27	329	1540	47		125%	68	N	858	0	1190	2870	1236	70
3A02	POWELL RIVER (UPPER)	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	533	813	1712	N/A	6
3A05	POWELL RIVER (LOWER)	910	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	183	399	585	N/A	4
3A09	PALISADE LAKE	880	2021-04-29	292	1415	48		118%	51	N	632	0	1413	3600	1194	66
3A09P	Palisade Lake	900	2021-05-01	210	947	45		N/A	N/A	473	316	316	473	499	N/A	3
3A10	DOG MOUNTAIN	1080	2021-04-27	292	1342	46		118%	61	1185	702	0	1164	2760	1133	37
3A19	ORCHID LAKE	1190	2021-04-29	412	2015	49		109%	64	N	1350	100	1913	3845	1846	47
3A20	CALLAGHAN CREEK	1040	2021-05-03	147	696	47		97%	53	N	486	0	688	1568	720	42
3A20P	Callaghan	1017	2021-05-01	158	616	39		N/A	N/A	593	646	593		646	N/A	2
3A22P	Nostetuko River	1500	2021-05-01	100	544	54		98%	54	544	457	202	526	1065	558	29
3A24P	Mosley Creek Upper	1650	2021-05-01	39	193	49		75%	26	231	203	16	238	533	258	32
3A25P	Squamish River Upper	1340	2021-05-01	308	1545	50		96%	40	1642	1573	695	1571	2911	1607	28
3A26	CHAPMAN CREEK	1022	NS	NS	NS	NS	NS	N/A	N/A	1106	960	756	1268	1873	1294	10
3A27	EDWARDS LAKE	1070	NS	NS	NS	NS	NS	N/A	N/A	570	512	400	725	1180	781	8
3A28P	Tetrahedron	1420	2021-05-01	406	1278	31		N/A	N/A		1101	1101	1293	1484	N/A	2
			Average	245	1103	46		104%	52							

Basin Index Calculation	Average SWE	1161
	Average Normal	1069
South Coast Basin Index - May 1, 2021		109%

Stations used in Basin Index:
3A01, 3A09, 3A10, 3A19, 3A20, 3A22P, 3A24P, 3A25P

VANCOUVER ISLAND			May 1, 2021 Data				May 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3B01	FORBIDDEN PLATEAU	1100	2021-05-02	298	1527	51		103%	50	1140	1114	0	1537	3500	1489	64
3B02A	MOUNT COKELY	1190	N	N	N	N	N	N/A	N/A	N	590	0	768	2062	777	35
3B04	ELK RIVER	270	2021-05-02	0	0	N/A	N/A	N/A	N/A	0	0	0	0	0	0	37
3B10	UPPER THELWOOD LAKE	990	2021-05-02	301	1532	51		109%	56	1100	716	0	1484	3560	1411	59
3B17P	Wolf River Upper	1490	2021-05-01		1032			78%	31	894	1040	374	1179	2696	1316	32
3B18	WOLF RIVER (MIDDLE)	990	2021-05-02	100	404	40		77%	33	320	226	0	523	1652	527	50
3B19	WOLF RIVER (LOWER)	640	N	N	N	N	N	N/A	N/A	0	0	0	0	1118	145	51
3B23P	Jump Creek	1160	2021-05-01	279	1504	54		129%	75	793	415	0	1042	3485	1163	24
3B24P	Heather Mountain Upper	1190	2021-05-01	265	1479	56		N/A	N/A	1182	822	822	1248	1933	N/A	5
3B26P	Mount Arrowsmith	1465	2021-05-01	225	1148	51		N/A	N/A	880	781	781	880	1218	N/A	3
			Average	210	1078	51		99%	49							

Basin Index Calculation	Average SWE	1200
	Average Normal	1181
Vancouver Island Basin Index - May 1, 2021		102%

Stations used in Basin Index:
3B01, 3B10, 3B17P, 3B18, 3B23P

CENTRAL COAST			May 1, 2021 Data				May 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3C07	WEDEENE RIVER SOUTH	220	2021-05-03	101	435	43		300%	89	N	30	0	43	749	145	32
3C08P	Burnt Bridge Creek	1330	2021-05-01	192	1080	56		137%	90	959	602	392	743	1474	786	22
			Average	192	1080	56		137%	90							

Basin Index Calculation	Average SWE	758
	Average Normal	466
Central Coast Basin Index - May 1, 2021		163%

Stations used in Basin Index:
3C07, 3C08P

SKAGIT			May 1, 2021 Data				May 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 (1991-2020)	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	2021-04-29	10	37	37		49%	58	107	0	0	0	371	76	27
3D02	LIGHTNING LAKE	1220	2021-05-02	59	230	39		100%	53	223	57	7	223	599	230	49
3D03A	KLESILKWA	1175	2021-04-29	20	87	44		76%	57	126	0	0	35	752	114	48
Average				30	118	40		75%	56							

Basin Index Calculation	Average SWE	118
	Average Normal	140
Skagit Basin Index - May 1, 2021		84%

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

PEACE			May 1, 2021 Data				May 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 (1991-2020)	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	2021-05-01	306	1299	42		112%	76	1429	1072	894	1096	1706	1159	28
4A03	WARE (UPPER)	1575	2021-05-01	87	242	28		91%	43	255	241	141	252	402	265	57
4A03P	Ware Upper	1565	2021-05-01	62	219	35		N/A	N/A	210	236	210	226	251	N/A	4
4A04	WARE (LOWER)	970	2021-05-01	36	114	32		101%	47	95	150	0	117	229	112	54
4A04P	Ware Lower	971	2021-05-01	6	76	127		N/A	N/A	38	154	38	76	154	N/A	4
4A05	GERMANSEN (UPPER)	1480	2021-05-02	95	342	36		96%	50	407	393	181	344	597	356	59
4A06	TUTIZZI LAKE	1045	N	N	N	N	N	N/A	N/A	111	86	0	142	325	152	57
4A07	LADY LAURIER LAKE	1440	2021-04-30	178	743	42		135%	96	502	450	305	519	926	549	58
4A09	PULPIT LAKE	1335	2021-05-01	118	439	37		105%	59	468	399	270	408	623	419	54
4A09P	Pulpit Lake	1311	2021-05-01	89	363	41		92%	38	407	360	182	384	637	396	30
4A10	FREDRICKSON LAKE	1325	2021-05-01	72	245	34		111%	57	310	236	87	232	358	220	57
4A11	TRYGVGE LAKE	1410	2021-05-02	99	341	34		92%	37	429	335	220	369	599	372	57
4A12	TSAYDAYCHI LAKE	1190	2021-05-02	108	460	43		116%	76	428	402	168	379	700	395	58
4A12P	Tsaydaychi Lake	1195	2021-05-01		433			N/A	N/A						N/A	0
4A13	PHILIP LAKE	1035	2021-05-02	46	184	40		98%	43	215	172	0	197	406	188	57
4A13P	Philip Lake	1028	2021-05-01		124			N/A	N/A	72	N/A	72		72	N/A	1
4A16	MORFEE MOUNTAIN	1430	2021-05-02	180	869	48		106%	66	985	788	410	813	1181	824	50
4A18	MOUNT SHEBA	1490	2021-04-26	250	1121	45		119%	86	1233	920	503	897	1371	942	52
4A18P	MOUNT SHEBA	1484	2021-05-01	273	1203	44		N/A	N/A	1274	957	957		1274	N/A	2
4A20	MONKMAN CREEK	1570	2021-04-26	158	630	40		105%	54	784	N	329	583	1042	603	39
4A20P	Monkman Creek	1570	2021-05-01		463			N/A	N/A	564	467	467		564	N/A	2
4A21	MOUNT STEARNS	1505	2021-04-30	48	124	26		87%	36	156	148	0	140	271	142	47
4A25	FORT ST. JOHN A	690	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	56	0	27
4A27P	Kwadacha North	1554	2021-05-01	113	342	30		103%	48	344	259	259	344	476	331	29
4A30P	Aiken Lake	1050	2021-05-01	46	219	48		120%	67	151	143	16	167	315	182	33
4A31P	Crying Girl Prairie	1358	2021-05-01		227			N/A	N/A	155	186	0	186	310	N/A	5
4A33P	Muskwa-Kechika	1196	2021-05-01		69			N/A	N/A	0	0	0	30	101	N/A	4
4A34P	Dowling Creek	1456	2021-05-01		1032			N/A	N/A	1334	1425	160	1294	1425	N/A	4
4A36P	Parsnip Upper	790	2021-05-01	64	221	35		N/A	N/A	157	13	13		157	N/A	2
4A37P	McQue Terrace	1200	2021-05-01		0			N/A	N/A	0		0		0	N/A	1
Average				116	434	42		105%	58							

Basin Index Calculation	Average SWE	475
	Average Normal	439
Peace Basin Index - May 1, 2021		108%

Stations used in Basin Index:
4A02P, 4A03, 4A04, 4A05, 4A07, 4A09, 4A09P, 4A10, 4A11, 4A12, 4A13, 4A16, 4A18, 4A20, 4A21, 4A27P, 4A30P

SKEENA-NASS			May 1, 2021 Data				May 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 (1991-2020)	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	2021-05-01	211	1079	51		116%	85	N	634	551	884	1591	929	65
4B02	JOHANSON LAKE	1420	2021-05-02	85	283	33		96%	40	352	267	143	288	433	294	58
4B03A	HUDSON BAY MTN.	1480	2021-04-30	132	554	42		110%	60	442	478	272	502	795	505	49
4B04	CHAPMAN LAKE	1460	2021-05-03	111	456	41		94%	46	N	416	286	463	749	487	53
4B06	TACHEK CREEK	1140	2021-05-02	44	154	35		84%	41	72	166	55	165	363	184	50
4B07	MCKENDRICK CREEK	1050	2021-05-03	56	235	42		100%	51	182	233	72	233	453	236	53
4B08	MOUNT CRONIN	1480	2021-05-03	131	512	39		82%	17	N	491	422	596	1125	621	50
4B10	NINGUNSAW PASS	690	NS	NS	NS	NS	NS	N/A	N/A	NS	0	0	262	676	236	41
4B11A	BEAR PASS	460	2021-04-30	179	774	43		160%	93	390	N	0	501	860	483	24
4B13A	TERRACE AIRPORT	180	2021-05-03	0	0	N/A		N/A	N/A	0	0	0	0	58	11	9
4B14	EQUITY MINE	1420	2021-04-30	87	356	41		90%	49	388	326	212	361	690	395	42
4B15	LU LAKE	1300	2021-04-29	64	232	36		84%	35	200	258	132	254	528	277	40
4B15P	Lu Lake	1300	2021-05-01	53	220	42		81%	38	214	278	67	277	514	270	23
4B16P	Shedin Creek	1480	2021-05-01	191	901	47		105%	57	816	611	487	840	1226	861	23
4B17P	Tsai Creek	1360	2021-05-01	238	1322	56		104%	69	1066	1026	834	1140	2083	1267	23
4B18P	Cedar-Kiteen	885	2021-05-01	155	820	53		155%	87	390	295	11	474	1076	530	20
Average				116	527	43		104%	55							

Basin Index Calculation	Average SWE	564
	Average Normal	524
Skeena-Nass Basin Index - May 1, 2021		108%

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

LIARD			May 1, 2021 Data				May 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 (1991-2020)	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	2021-05-01	101	347	34		138%	93	273	246	88	262	404	252	57
4C01P	Sikanni Lake	1387	2021-05-01	106	359	34		N/A	N/A		231	159	231	275		3
4C02	SUMMIT LAKE	1280	2021-04-28	58	105	18		254%	74	N	116	0	0	200	41	51
4C03	DEASE LAKE	820	N	N	N	N	N	N/A	N/A	0	0	0	0	192	32	52
4C05	FORT NELSON AIRPORT	380	N	N	N	N	N	N/A	N/A	0	0	0	0	103	7	34
Average				88	270	29		196%	84							

Basin Index Calculation	Average SWE	226
	Average Normal	147
Liard Basin Index - May 1, 2021		154%

Stations used in Basin Index:
4C01, 4C02

STIKINE			May 1, 2021 Data				May 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 (1991-2020)	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	0	0	146	0	24
4D10P	Tumeka Creek	1220	2021-05-01		629			120%	77	582	367	315	488	838	525	21
4D11P	Kinaskan Lake	1020	2021-05-01	125	479	38		148%	90	349	184	111	318	609	323	25
Average				N/A	554	N/A		134%	84							

Basin Index Calculation	Average SWE	554
	Average Normal	424
Stikine Basin Index - May 1, 2021		131%

Stations used in Basin Index:
4D10P, 4D11P

NORTHWEST			May 1, 2021 Data				May 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 (1991-2020)	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	2021-04-26	183	761	42		203%	100	430	164	127	347	571	374	62
4E02B	ATLIN LAKE	730	2021-04-27	50	153	31		442%	100	0	0	0	18	140	35	14
			Average	117	457	36		322%	100							

*record high
*record high

Basin Index Calculation	Average SWE	457
	Average Normal	205
Northwest Basin Index - May 1, 2021		223%

Stations used in Basin Index:
4E01, 4E02B

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	636
	Average Normal	602
British Columbia Basin Index - May 1, 2021		106%

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

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The May 15th snow survey is now complete. Data from 18 manual snow courses and 87 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.¹

Executive Summary

The weather during the first half of May was seasonal, leading to normal snowmelt rates. Overall, the provincial snowpack is near normal for May 15th, 2021, with an average of 103% from all snow measurements across B.C. (decreasing slightly from the May 1st value of 106%). The overall snowpack at all automated snow weather stations has dropped 23% from peak snow accumulation, indicating a slightly earlier than normal melt onset.

Elevated seasonal flood risk remains in areas with above normal snowpack (including the Stikine and Upper Fraser), as well as areas in the North (including the Liard and Northwest). Spring conditions in the South Interior have been favourable with respect to flooding as dry weather, combined with periodic warm and cool spells, has moderated seasonal peak flows. Rivers and creeks in the South Interior are no longer a risk for snowmelt related flooding but are still susceptible to flooding from heavy rainfall events or multiple storm systems.

The combination of an early melt of the snow pack and lack of spring rainfall increases the risk for significant drought and low flow situations through the summer for many areas in southern B.C.

Weather

The weather during the first half of May for British Columbia was primarily uneventful, with seasonal temperatures and limited precipitation. On average, the provincial snow pack melted at average to slightly above average rates from May 1st to May 15th. One exception to this was a very warm period from May 15th to 17th that increased snowmelt rate considerably. The upcoming weather forecast continues to indicate the potential for relatively warm and dry conditions throughout B.C. to the end of May.

Snowpack

Snow basin indices (SBI) for May 15th, 2021 range from a low of 66% of normal in the East Kootenay to a high of 154% in the Stikine (Table 1 and Figure 1). Overall, the province has

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

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near normal snowpack for May 15th 2021, with a provincial average of all snow measurements of 103% (decreasing slightly from the May 1st value of 106%).

Table 1 - BC Snow Basin Indices – May 15, 2021

Basin	% of Normal (May 1st value)	Basin	% of Normal (Apr 1st value)
Upper Fraser West	N/A (117)	Okanagan	80 (91)
Upper Fraser East	123 (124)	Nicola**	N/A (64)
Nechako	112 (115)	Boundary	84 (91)
Middle Fraser	92 (90)	Similkameen	104 (110)
Lower Thompson*	N/A (77)	South Coast	108 (109)
Bridge*	84 (84)	Vancouver Island	99 (102)
Chilcotin*	N/A (N/A)	Central Coast	144 (163)
Quesnel*	99 (104)	Skagit	N/A (84)
Lower Fraser	109 (117)	Peace	114 (108)
North Thompson	97 (99)	Skeena-Nass	105 (108)
South Thompson	78 (80)	Stikine	154 (131)
Upper Columbia	104 (103)	Liard	N/A (154)
West Kootenay	88 (91)	Northwest	N/A (223)
East Kootenay	66 (94)	Fraser	104 (109)
		British Columbia	103 (106)

*sub-basin of Middle Fraser

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

Below normal snowpack (60-80% of normal) was measured in the East Kootenay and South Thompson. Slightly below normal snowpack (80-90%) was measured in the Bridge, Boundary, West Kootenay, and Okanagan. Regions with normal snowpack (90-110%) include the North Thompson, Quesnel, Lower Fraser, Upper Columbia, Similkameen, South Coast, Vancouver Island, and Skeena-Nass. Slightly above normal snowpack (110-125%) was measured in the Upper Fraser East, and Peace. Well above normal snowpack (>130%) was measured in the Central Coast and Stikine. There was not sufficient data to calculate

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SBI values for Upper Fraser West, Lower Thompson, Nicola, Chilcotin, Skagit, Liard, and Northwest. The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) decreased to 104% from the May 1st index of 109%. A table of SWE amounts for individual sites used to calculate SBI values (included in the final pages of this report) best describes specific conditions for each area.

Approximately 18% of the accumulated snowpack has melted on average by May 15th (according to data from automated snow weather stations). Due to very warm temperatures in mid-April, snowmelt has been slightly higher than normal this year. The overall snowpack at all automated snow weather stations has dropped 23% from the peak snow accumulation. Most lower elevation areas are now snow-free (below ~700 m in coastal BC, ~1600 m in southern B.C, and ~1200-1300 m in northern B.C.); snowpack at higher elevation has just begun to experience consistent melting.

Snowmelt observations from automated snow weather stations over the past week (since May 15th) indicate a rapid melt from warm temperatures from May 15 to 17th. After a brief hiatus due to cold temperatures in the middle of this week, another upcoming warm spell will continue the melt process.

Streamflow

Most rivers in British Columbia were flowing at normal or above normal for early May. Areas in the Cariboo, Chilcotin, Lower Thompson and Upper Fraser were under advisory earlier in the season due to mid-April hot weather and a heavy rain event at the end of the month. Seasonal temperatures and dry conditions in May have lowered concerns in those regions, ending these advisories.

Larger systems in the Interior (Upper Fraser, Quesnel, North and South Thompson, Kootenay, Columbia) are still rising and will likely peak over the next six weeks, the exact timing of which will depend upon weather conditions.

Outlook

Seasonal flood risk remains in areas with above normal snowpack, including the Stikine and Upper Fraser. Regions that did not have sufficient data for an SBI calculation for May 15th but remain a freshet flood concern include the Liard and Northwest. Although the Central Coast has well above normal snowpack, flood risk in these areas is predominately due to fall and winter rain or rain-on-snow events rather than freshet snowmelt.

Favourable spring weather conditions in the South Interior has occurred with respect to flooding. Dry weather combined with periodic warm and cool spells have moderated seasonal peak flows. Rivers and creeks in the South Interior are no longer a risk for



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snowmelt related flooding. However, they are still susceptible to flooding from heavy rainfall events or multiple storm systems.

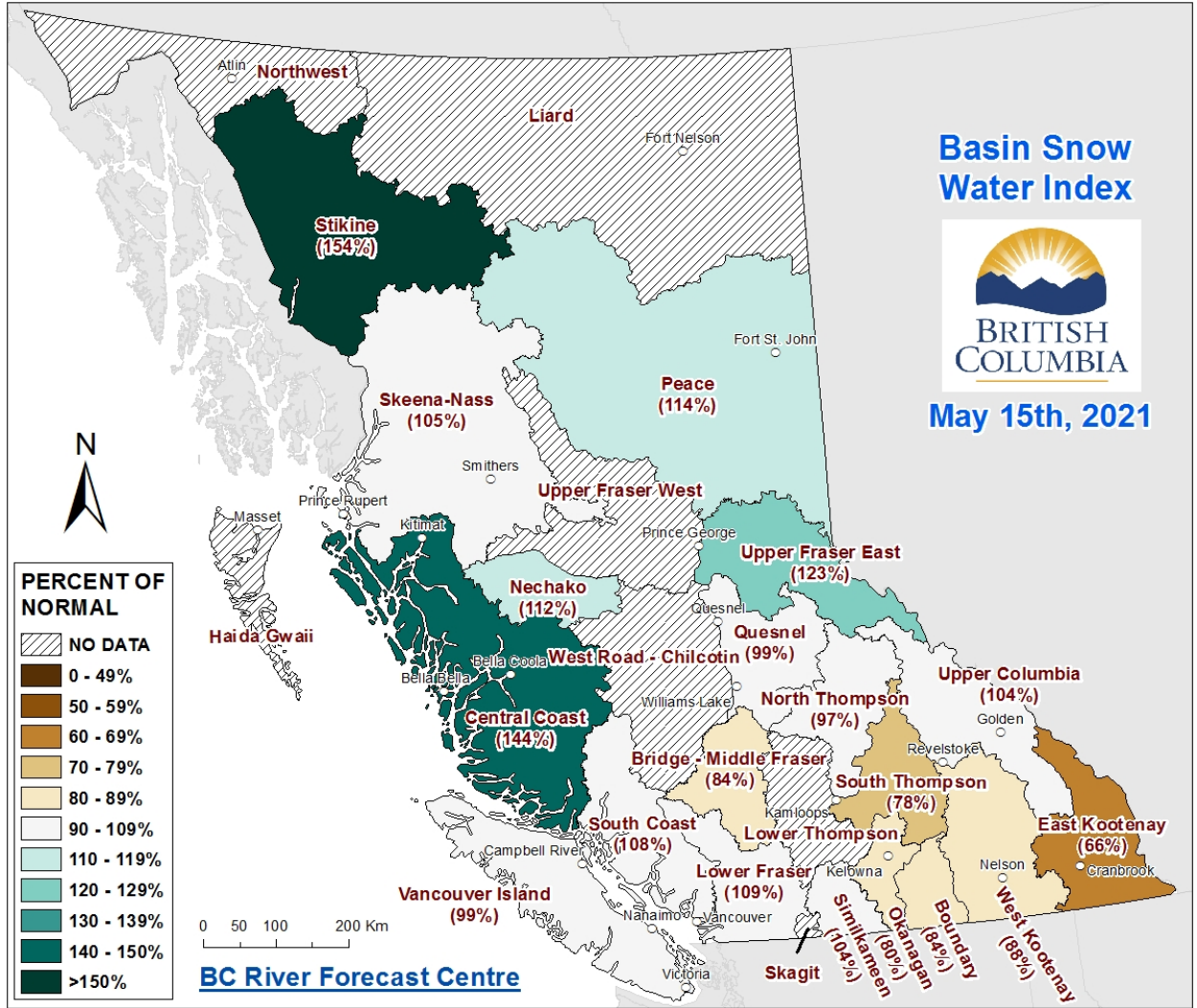
A developing story in the South Interior is the lack of rainfall that has occurred since March 1st and is expected to continue through the end of May. The combination of early snowmelt and lack of spring rainfall increases the risk for drought and low flow conditions through the summer for many areas in southern B.C.

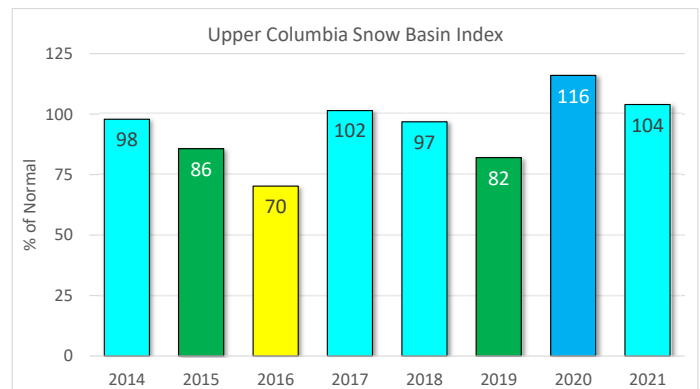
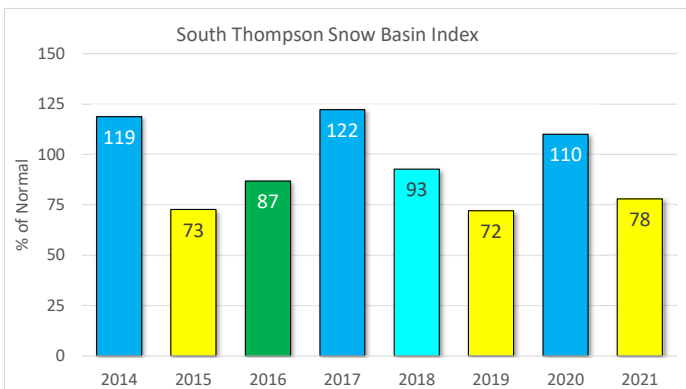
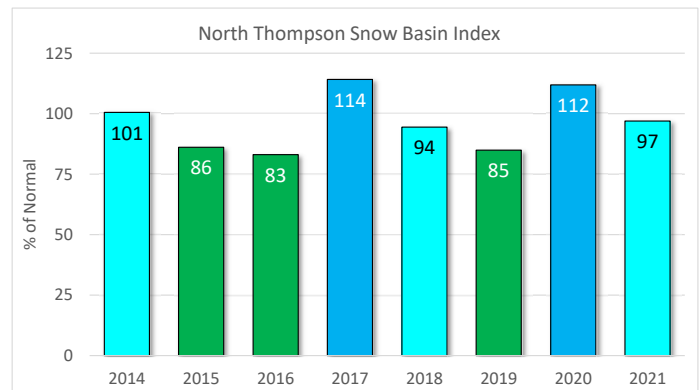
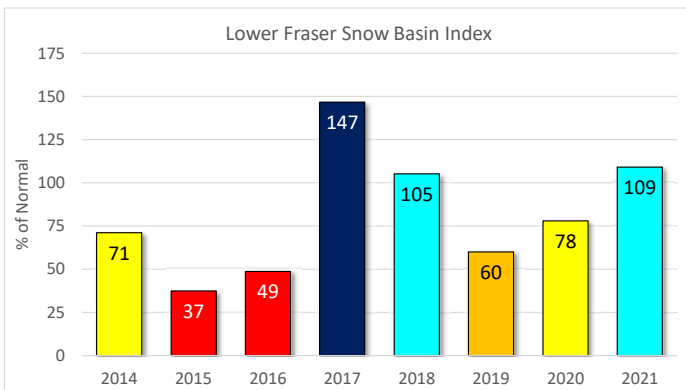
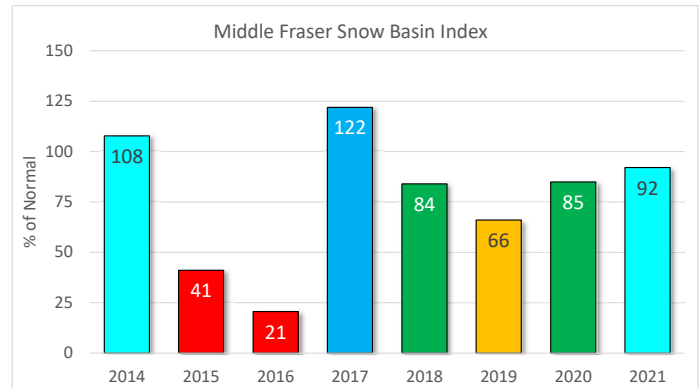
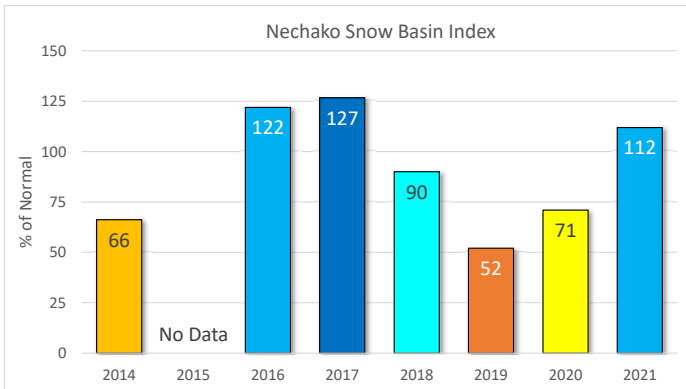
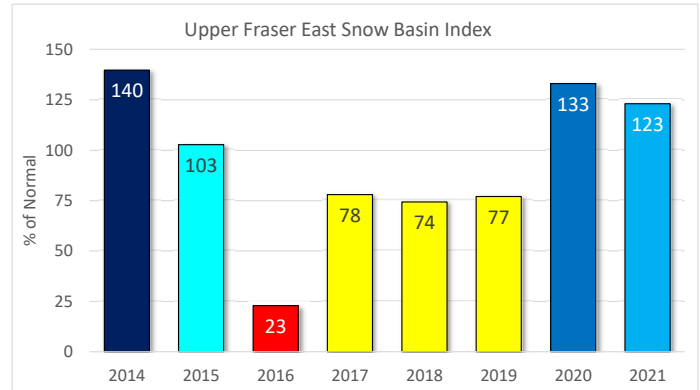
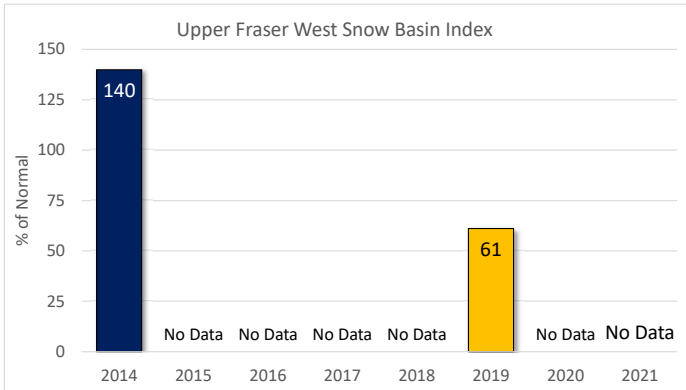
The River Forecast Centre will continue to monitor snowpack conditions and will provide an updated seasonal flood risk forecast in the June 1st, 2021 bulletin, which is scheduled for release on Tuesday, June 8th.

BC River Forecast Centre
May 21, 2021

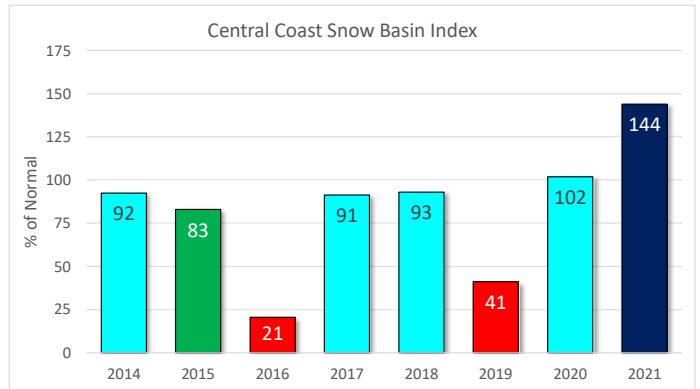
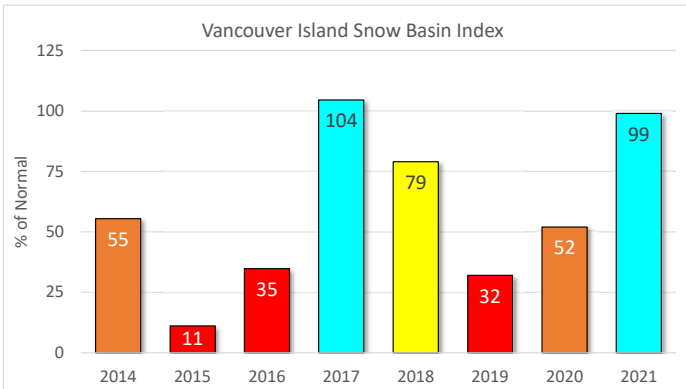
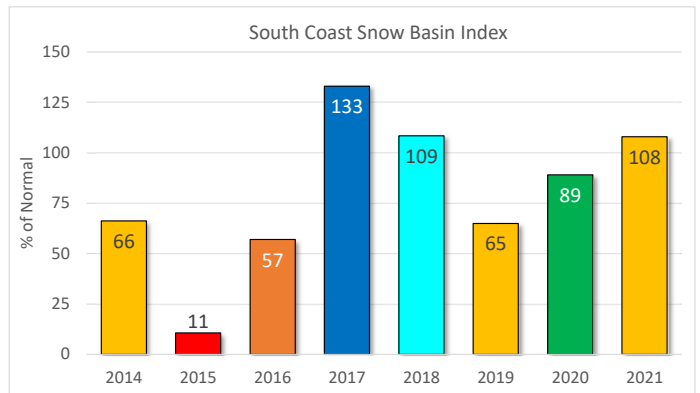
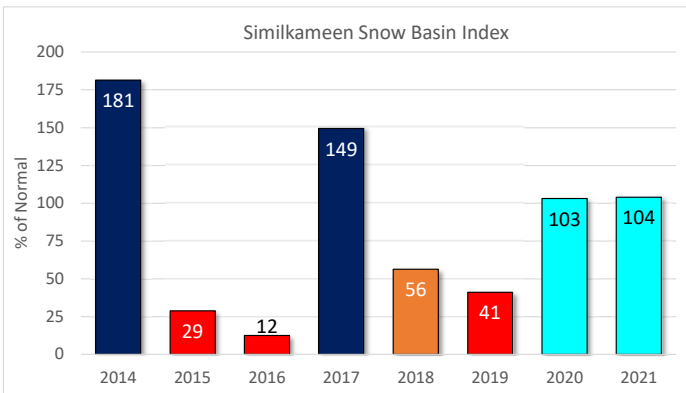
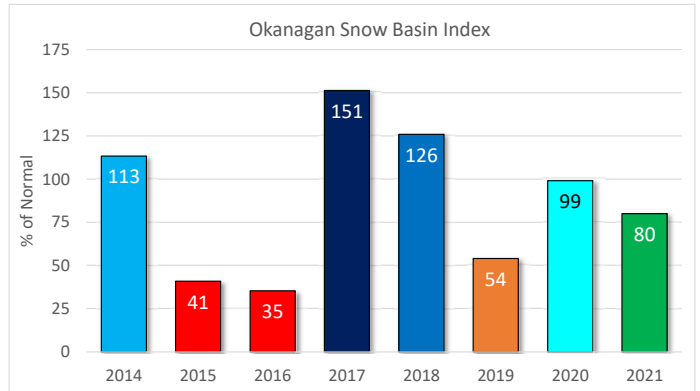
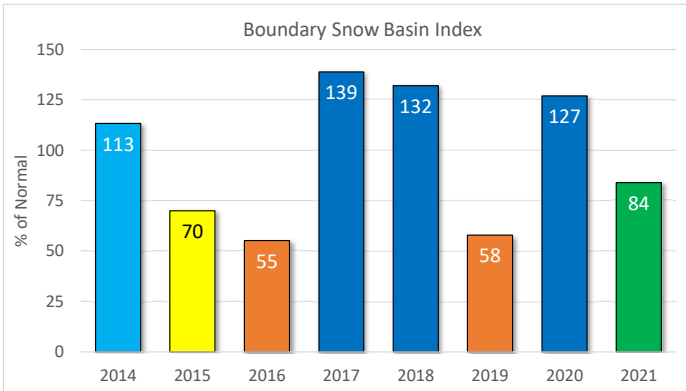
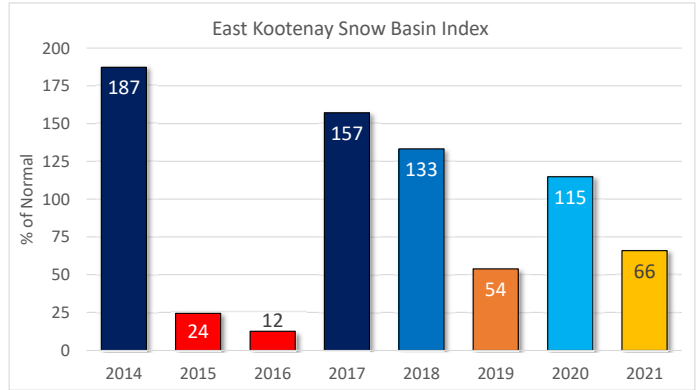
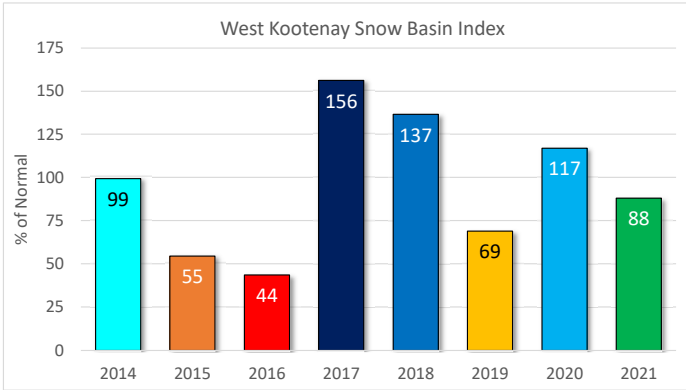
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Figure 2: Basin Snow Water Index – May 15th, 2021

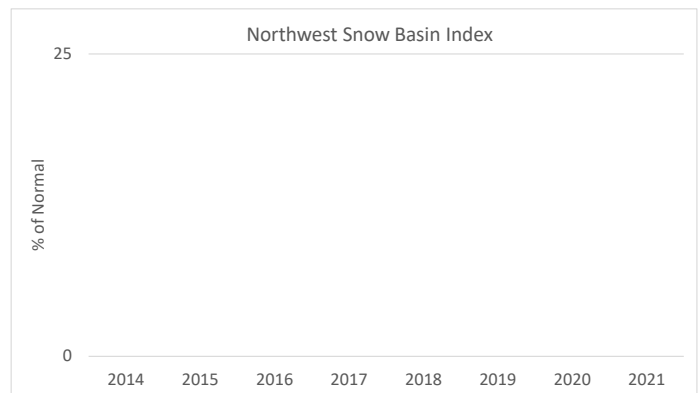
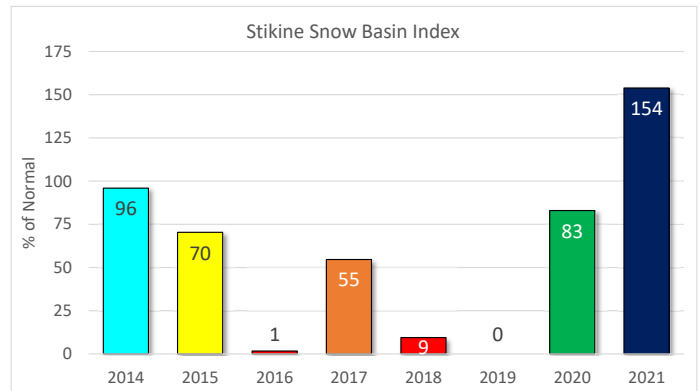
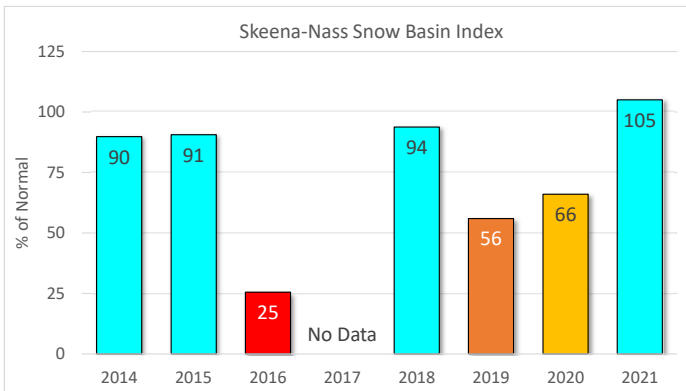
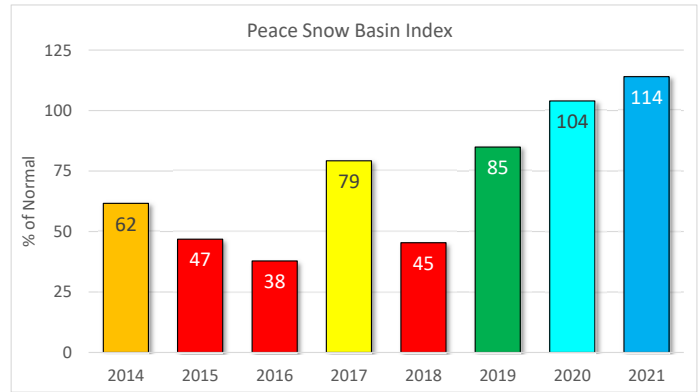
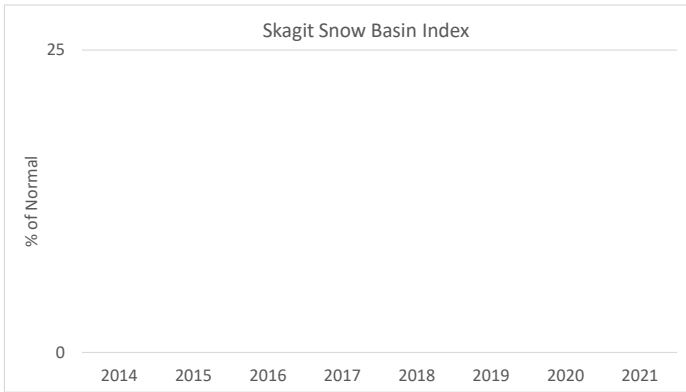




Snow Basin Index Graphs - May 15, 2021



Snow Basin Index Graphs - May 15, 2021



May 15, 2021 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			May 15, 2021 Data				May 15, 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 (1991-2020)	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	2021-05-15	130	569	44		107%	55	555	N/A	143	531	839	530	22
1A02P	McBride Upper	1611	2021-05-15	114	513	45		126%	84	488	363	7	394	653	407	28
1A03P	Barkerville	1520	2021-05-15	20	99	50		52%	22	230	42	0	207	503	192	42
1A05	LONGWORTH (UPPER)	1693	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	292	768	1219	841	55
1A05P	Longworth Upper	1740	2021-05-15	218	1243	57		N/A	N/A	1081	767	553	700	1081	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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	76	N/A	22
1A11	PACIFIC LAKE	755	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	387	728	353	36
1A14P	Hedrick Lake	1100	2021-05-15	189	938	50		127%	66	614	406	118	662	1303	737	21
1A15	KNUDSEN LAKE	1602	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	359	804	1271	854	35
1A15P	Knudsen Lake	1601	2021-05-15	191	1153	60		N/A	N/A	665	440	173	454	665	N/A	5
1A17P	Revolution Creek	1690	2021-05-15	201	1030	51		135%	79	1280	732	215	749	1300	764	32
1A19P	Dome Mountain	1774	2021-05-15	217	1090	50		134%	89	1064	708	363	840	1219	813	15
			Average	160	829	51		114%	66							

Basin Index Calculation	Average SWE	707
	Average Normal	574
Upper Fraser East Basin Index - May 15, 2021		123%

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

UPPER FRASER WEST			May 15, 2021 Data				May 15, 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 (1991-2020)	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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	212		212	N/A	1
1A12P	Kaza Lake	1257	2021-05-15	65	245	38		N/A	N/A	187	130	0	130	187	N/A	5
1A16	BURNS LAKE	800	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	17
1A23	BIRD CREEK	1180	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
			Average	65	245	38		N/A	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Upper Fraser West Basin Index - May 15, 2021		N/A

Stations used in Basin Index:
N/A

NECHAKO			May 15, 2021 Data				May 15, 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 (1991-2020)	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	NS	NS	164	396	869	N/A	3
1B01P	Mount Wells	1490	2021-05-15		572			117%	66		296	152	448	957	489	28
1B02	TAHTSA LAKE	1300	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	924	1306	1687	N/A	2
1B02P	Tahtsa Lake	1300	2021-05-15		1505			125%	85	927	710	662	1190	2356	1206	28
1B05	SKINS LAKE	890	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	2
1B06	MOUNT SWANNELL	1620	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		331	N/A	2
1B07	NUTLI LAKE	1490	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	197		197	N/A	1
1B08P	Mt. Pondosy	1400	2021-05-15		520			83%	41	440	234	234	539	1200	627	25
			Average	N/A	866	N/A		108%	64							

Basin Index Calculation	Average SWE	866
	Average Normal	774
Nechako Basin Index - May 15, 2021		112%

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

LOWER THOMPSON			May 15, 2021 Data					May 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
						%	Code								Normal SWE (mm)	SWE (mm)	
1C01	BROOKMERE	980	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	6	208	N/A	28
1C06	PAVILION	1230	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	6
1C09A	HIGHLAND VALLEY	1510	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	30	N/A	25
1C25	LAC LE JEUNE (UPPER)	1509	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	67	N/A	5
1C29	SHOVELNOSE MOUNTAIN	1450	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	0
1C29P	Shovelnose Mountain	1460	2021-05-15	0	0				N/A	N/A	0	0	0	0	0	N/A	1
1C32	DEADMAN RIVER	1430	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C42	CAVERHILL LAKE NEW	1400	NS	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
Lower Thompson Basin Index - May 15, 2021		N/A

Stations used in Basin Index:
N/A

BRIDGE / LILLOOET			May 15, 2021 Data					May 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
						%	Code								Normal SWE (mm)	SWE (mm)	
1C05	MCGILLIVRAY PASS	1725	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	184	479	965	N/A	20
1C05P	McGillivray Pass	1718	2021-05-15		300				N/A	N/A	175	148	148	175	286	N/A	3
1C12P	Green Mountain	1780	2021-05-15		538				71%	31	395	421	395	642	1369	759	27
1C14	BRALORNE	1389	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	80	N/A	20
1C14P	Bralorne	1382	2021-05-15	0	0				N/A	N/A	0	0	0	0	0	N/A	3
1C18P	Mission Ridge	1850	2021-05-15		385				114%	59	258	50	0	347	973	338	44
1C28	DUFFEY LAKE	1200	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C37	BRALORNE(UPPER)	1981	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C38	DOWNTON LAKE (UPPER)	1887	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C38P	Downton Lake Upper	1829	2021-05-15		511				N/A	N/A	523	636	519	636	810	N/A	5
1C39	BRIDGE GLACIER (LOWER)	1390	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C40	TYAUGHTON CREEK (NORTH)	1947	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C40P	North Tyaughton	1969	2021-05-15		370				N/A	N/A	181	204	0	204	335	N/A	5
Average				0	351	N/A			92%	45							

Basin Index Calculation	Average SWE	462
	Average Normal	549
Bridge/Lillooet Basin Index - May 15, 2021		84%

Stations used in Basin Index:
1C12P, 1C18P

CHILCOTIN			May 15, 2021 Data					May 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
						%	Code								Normal SWE (mm)	SWE (mm)	
1C08	NAZKO	1070	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C21	BIG CREEK	1140	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C22	PUNTZI MOUNTAIN	940	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	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
Chilcotin Basin Index - May 15, 2021		N/A

Stations used in Basin Index:
N/A

QUESNEL			May 15, 2021 Data				May 15, 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 (1991-2020)	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	655		655	N/A	1
1C17	MOUNT TIMOTHY	1660	NS	NS	NS	NS	NS	N/A	N/A	102	78	0	209	466	186	46
1C20P	Boss Mountain Mine	1460	2021-05-15	69	359	52		87%	38	247	284	147	396	746	412	27
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	585	1049	1400	1059	44
1C33A	GRANITE MOUNTAIN	1150	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C41P	Yanks Peak East	1670	2021-05-15	141	861	61		106%	58	1158	838	386	841	1188	814	24
			Average	105	610	57		96%	48							

Basin Index Calculation	Average SWE	610
	Average Normal	613
Quesnel Basin Index - May 15, 2021		99%

Stations used in Basin Index:
1C20P, 1C41P

MIDDLE FRASER

Basin Index Calculation	Average SWE	536
	Average Normal	581
Middle River Basin Index - May 15, 2021		92%

Stations used in Basin Index:
1C12P, 1C18P, 1C20P, 1C41P

LOWER FRASER			May 15, 2021 Data				May 15, 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 (1991-2020)	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	2021-05-15	175	901	51		95%	52	701	631	468	839	1686	953	20
1D08	STAVE LAKE	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	2438		2438	N/A	1
1D08P	Lamont Creek Upper	1217	2021-05-15		1554			N/A	N/A						N/A	0
1D09	WAHLEACH LAKE	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	102	451	656	N/A	9
1D09P	Wahleach Lake Upper	1480	2021-05-15		1119			120%	74	819	506	299	956	1793	933	27
1D10	NAHATLATCH RIVER	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	1202	1348	2423	N/A	3
1D16	DICKSON LAKE	1160	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1D17P	Chilliwack River	1600	2021-05-15					N/A	N/A	1476	1039	379	1600	2540	1480	28
1D18	DISAPPOINTMENT LAKE	1050	2021-05-10	336	1698	51		110%	49	N	732	704	1712	2560	1550	15
1D18P	Disappointment Lake	1050	2021-05-15	289				N/A	N/A	759	428	76	1381	2370	1277	12
1D19P	Spuzzum Creek	1180	2021-05-15	245	1562	64		111%	54	1057	750	0	1479	2900	1413	22
			Average	261	1367	55		109%	57							

Basin Index Calculation	Average SWE	1320
	Average Normal	1212
Lower Fraser Basin Index - May 15, 2021		109%

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

NORTH THOMPSON			May 15, 2021 Data				May 15, 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 (1991-2020)	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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	78	N/A	10
1E02P	Mount Cook	1550	2021-05-15	249	1516	61		112%	75	1509	1205	863	1309	2069	1359	17
1E03A	TROPHY MOUNTAIN	1860	2021-05-11	159	673	42		105%	55	780	496	301	638	1114	641	38
1E07	ADAMS RIVER	1720	2021-05-13	142	686	48		97%	42	832	602	280	725	1158	710	49
1E08P	Azure River	1652	2021-05-15	203	1131	56		96%	43	1215	882	739	1201	1684	1178	24
1E10P	Kostal Lake	1770	2021-05-15	129	689	53		79%	11	759	766	568	862	1358	871	36
1E14P	Cook Creek	1280	2021-05-15	15	112	75		58%	35	323	0	0	243	401	193	12
			Average	150	801	56		91%	44							

Basin Index Calculation	Average SWE	801
	Average Normal	825

Stations used in Basin Index:
1E02P, 1E03A, 1E07, 1E08P, 1E10P, 1E14P

North Thompson Basin Index - May 15, 2021 97%

SOUTH THOMPSON			May 15, 2021 Data					May 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % of Normal (1991-2020)	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
						%	Code									
1F01A	ABERDEEN LAKE	1310	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	28	N/A	11
1F02	ANGLEMONT	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	147	361	101	21
1F03P	Park Mountain	1890	2021-05-15	110	706	64		74%	21	1067	604	474	947	1341	951	36
1F04P	Enderby	1950	2021-05-15	182	742	41		N/A	N/A	973	704	704	1071	1216	N/A	4
1F04P2	Enderby Tower 2	1950	2021-05-15		965			N/A	N/A	1353		1280		1353	N/A	2
1F06P	Celista Mountain	1500	2021-05-15	136	728	54		83%	23	883	728	476	884	1155	877	14
Average				143	785	53		79%	22							

Basin Index Calculation	Average SWE	717
	Average Normal	914
South Thompson Basin Index - May 15, 2021		78%

Stations used in Basin Index:

1F03P, 1F06P

FRASER RIVER

Basin Index Calculation	Average SWE	820
	Average Normal	789
Fraser River Basin Index - May 15, 2021		104%

Stations used in Basin Index:

1A01P, 1A02P, 1A03P, 1A14P, 1A17P, 1A19P, 1B01P, 1B02P, 1B08P, 1C12P, 1C18P, 1D06P, 1D09P, 1D18, 1D19P 1C20P, 1C41P 1E02P, 1E03A, 1E07, 1E08P, 1E10P, 1E14P, 1F03P, 1F06P

UPPER COLUMBIA			May 15, 2021 Data					May 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % of Normal (1991-2020)	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
						%	Code									
2A02	GLACIER	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	114	493	1034	N/A	47
2A03A	FIELD	1285	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	3
2A06P	Mount Revelstoke	1850	2021-05-15		1245			104%	60	1287	959	700	1176	1786	1200	27
2A07	KICKING HORSE	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	229	521	N/A	47
2A11	BEAVERFOOT	1890	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	94	399	N/A	4
2A14	MOUNT ABBOT	2010	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	837	1314	1944	N/A	36
2A16	GOLDSTREAM	1920	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	1055		1055	N/A	1
2A17	FIDELITY MOUNTAIN	1870	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	837	1281	1950	N/A	33
2A18	KEYSTONE CREEK	1890	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	683		683	N/A	1
2A18P	Keystone Creek	1840	2021-05-15		785			N/A	N/A	954	721	548	812	1204	N/A	6
2A19	VERMONT CREEK	1520	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	225		813	N/A	2
2A21P	Molson Creek	1935	2021-05-15					N/A	N/A	1198	935	602	1042	1707	1081	38
2A22	SUNBEAM LAKE	2010	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	863		863	N/A	1
2A23	BUSH RIVER	1920	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	766		766	N/A	1
2A25	KIRBYVILLE LAKE	1750	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	1130		1257	N/A	2
2A27	DOWNIE SLIDE (LOWER)	980	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	216	522	N/A	8
2A29	DOWNIE SLIDE (UPPER)	1630	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	582	1245	1334	N/A	8
2A30P	Colpitti Creek	2131	2021-05-15		899			N/A	82	1017	637	99	590	1023	N/A	11
2A31P	Caribou Creek Upper	2201	2021-05-15		1087			N/A	N/A	1087	757	656	911	1087	N/A	6
2A32P	Wildcat Creek	2122	2021-05-15		740			N/A	N/A	833	635	346	620	833	N/A	6
Average				N/A	951	N/A		104%	71							

Basin Index Calculation	Average SWE	1245
	Average Normal	1200
Upper Columbia Basin Index - May 15, 2021		104%

Stations used in Basin Index:

2A06P

WEST KOOTENAY			May 15, 2021 Data					May 15, 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2B02A	FARRON	1220	N	N	N	N	N	N/A	N/A	36	7	0	32	222	54	41
2B05	WHATSHAN (UPPER)	1525	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	164	556	737	N/A	3
2B06P	Barnes Creek	1620	2021-05-15		248			56%	18	521	31	31	502	758	446	28
2B07	KOCH CREEK	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	675	1148	N/A	N/A	2
2B08P	St. Leon Creek	1800	2021-05-15		1185			112%	61	1499	837	639	1033	1572	1062	27
2B09	RECORD MOUNTAIN	1890	2021-05-17	29	179	62		30%		443	76	76	574	1367	594	46
2D02	FERGUSON	880	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	20	234	640	N/A	37
2D03	SANDON	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	218	N/A	8
2D04	NELSON	930	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	8	243	N/A	41
2D05	GRAY CREEK (LOWER)	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	408	709	N/A	49
2D06	CHAR CREEK	1310	NS	NS	NS	NS	NS	N/A	N/A	NS	N	0	252	715	296	48
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	2021-05-15					N/A	N/A	0	N/A	0		0	N/A	1
2D08P	East Creek	2030	2021-05-15		964			107%	68	1113	914	461	913	1387	899	38
2D09	MOUNT TEMPLEMAN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	978	978	978	N/A	1
2D10	GRAY CREEK (UPPER)	1940	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	311	726	1194	N/A	30
2D10P	GRAY CREEK (UPPER)	1930	2021-05-15	120	578	48		N/A	N/A						N/A	0
2D14P	Redfish Creek	2104	2021-05-15	206	1326	64		93%	40	1477	1117	972	1373	2206	1422	19
			Average		118	747	58		80%	47						

Basin Index Calculation	Average SWE	780
	Average Normal	885
West Kootenay Basin Index - May 15, 2021		88%

Stations used in Basin Index:

EAST KOOTENAY			May 15, 2021 Data					May 15, 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										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	0	0	107	N/A	22
2C04	SULLIVAN MINE	1550	2021-05-16	0	0		T	0%	N/A	0	0	0	106	457	100	68
2C09Q	Morrissey Ridge	1860	2021-05-15		186			36%	24	569	41	0	486	1114	510	36
2C10P	Moyie Mountain	1930	2021-05-15	3	30	100		14%	24	351	0	0	220	596	209	40
2C11	KIMBERLY UPPER	2140	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	570		570	N/A	1
2C12	KIMBERLY MIDDLE	1680	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	44		44	N/A	1
2C14P	Floe Lake	2090	2021-05-15		822			109%	53	846	568	326	814	1084	757	26
2C15	MOUNT ASSINIBOINE	2230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	534		534	N/A	1
2C16	MOUNT JOFFRE	1750	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	338		338	N/A	1
2C17	THUNDER CREEK	2010	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	220		220	N/A	1
			Average		2	260	N/A		40%	34						

Basin Index Calculation	Average SWE	260
	Average Normal	394
East Kootenay Basin Index - May 15, 2021		66%

Stations used in Basin Index:

2C04, 2C09Q, 2C10P, 2C14P

BOUNDARY			May 15, 2021 Data					May 15, 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	

2E01	MONASHEE PASS	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	207	363	N/A	27
2E02	CARMI	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	14
2E03	BIG WHITE MOUNTAIN	1680	2021-05-12	68	290	43		79%	27	403	166	0	416	732	369	54
2E07P	Grano Creek	1860	2021-05-15	80	480	60		88%	41	725	335	313	553	855	546	23
Average				74	385	51		83%	34							

Basin Index Calculation	Average SWE	385
	Average Normal	458
Boundary Basin Index - May 15, 2021		84%

Stations used in Basin Index:
2E03, 2E07P

OKANAGAN			May 15, 2021 Data				May 15, 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 (1991-2020)	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	2021-05-14	0	0			0%	N/A	0	0	0	30	243	44	11
2F01AP	Trout Creek West	1420	2021-05-15	20	2	1		N/A	N/A	1	0	0	0	0	N/A	3
2F02	SUMMERLAND RESERVOIR	1280	2021-05-15	0	0			0%	N/A	0	N	0	0	218	8	52
2F03	MCCULLOCH	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	102	N/A	37
2F04	GRAYSTOKE LAKE	1840	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	420	742	N/A	18
2F05P	Mission Creek	1780	2021-05-15	92	409			88%	48	676	298	0	419	855	462	50
2F07	POSTILL LAKE	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	71	130	180	N/A	7
2F08	GREYBACK RESERVOIR	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	60	323	72	45
2F08P	Greyback Reservoir	1550	2021-05-15		0			N/A	N/A	0	0	0	51	143	N/A	4
2F09	WHITEROCKS MOUNTAIN	1830	N	N	N	N	N	N/A	N/A	N	261	0	375	968	367	49
2F10	Silver Star Mountain	1840	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	100	685	1054	694	57
2F10P	Silver Star Mountain	1839	2021-05-15	102	691	68		N/A	N/A	817	721	721	803	823		4
2F11	ISINTOK LAKE	1680						0%		0	0	0	29	386	40	54
2F12	MOUNT KOBAU	1810	2021-05-14	46	189	41		77%	38	100	12	0	246	516	246	55
2F13	ESPERON CR (UPPER)	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	66	310	625	276	13
2F14	ESPERON CR (MIDDLE)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	128	380	145	15
2F18P	Brenda Mine	1460	2021-05-15		2			10%	N/A	0	0	0	0	208	21	25
2F19	OYAMA LAKE	1340	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	97		97	N/A	1
2F19P	OYAMA LAKE	1360	2021-05-15	0	0			N/A	N/A						N/A	0
2F20	VASEUX CREEK	1400	2021-05-14	0	0			0%	N/A	0	0	0	0	80	0	47
2F21	BOULEAU LAKE	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	173	224	328	N/A	3
2F23	MACDONALD LAKE	1740	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	368	652	374	21
2F24	ISLAHT LAKE	1480	2021-05-13	19	83	44		65%	N/A	50	0	0	136	352	127	10
2F25	POSTILL LAKE UPPER	1540	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
Average				31	125	38		30%	43							

Basin Index Calculation	Average SWE	124
	Average Normal	154
Okanagan Basin Index - May 15, 2021		80%

Stations used in Basin Index:

SIMILKAMEEN			May 15, 2021 Data				May 15, 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 (1991-2020)	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	2021-05-15	148	735	50		107%	60	704	331	188	679	1481	686	53
2G04	LOST HORSE MOUNTAIN	1920	2021-05-13	67	282	42		168%	76	303	N	0	208	577	168	51
2G05	MISSEZULA MOUNTAIN	1550	2021-05-14	0	0	N/A		0%	N/A	0	0	0	0	218	35	57
2G06	HAMILTON HILL	1490	2021-05-13	0	0	N/A		0%	0	0	0	0	104	434	90	41
Average				54	254	46		69%	45							

Basin Index Calculation	Average SWE	254
	Average Normal	245
Similkameen Basin Index - May 15, 2021		104%

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

SOUTH COAST			May 15, 2021 Data					May 15, 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3A01	GROUSE MOUNTAIN	1100	NS	NS	NS	NS	NS	N/A	N/A	1150	NS	528	1300	1714	N/A	4
3A02	POWELL RIVER (UPPER)	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	816		816	N/A	1
3A05	POWELL RIVER (LOWER)	910	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	378		378	N/A	1
3A09	PALISADE LAKE	880	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	336	1349	3600	N/A	4
3A09P	Palisade Lake	900	2021-05-15	121.8	440	36		N/A	N/A	209	0	0	99	209	N/A	3
3A10	DOG MOUNTAIN	1080	2021-05-12	270	1325	49		139%	77	850	471	0	938	2920	955	34
3A19	ORCHID LAKE	1190	2021-05-10	374	1865	50		112%	62	N	1030	0	1656	3730	1662	36
3A20	CALLAGHAN CREEK	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	55	336	1311	386	16
3A20P	Callaghan	1017	2021-05-15	88.3	437	49		N/A	N/A	298	290	290		298	N/A	2
3A22P	Nostetuko River	1500	2021-05-15	66	397	60		101%	62	391	256	0	363	943	392	29
3A24P	Mosley Creek Upper	1650	2021-05-15	4	6	15		4%	20	25	2	0	106	454	145	32
3A25P	Squamish River Upper	1340	2021-05-15	254	1390	55		96%	49	1430	1312	474	1407	2980	1442	28
3A26	CHAPMAN CREEK	1022	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	1450		1450	N/A	1
3A27	EDWARDS LAKE	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3A28P	Tetrahedron	1420	2021-05-15	367	1214	33		N/A	N/A		934	934		1425	N/A	2
			Average	193	884	43		91%	54							

Basin Index Calculation	Average SWE	997
	Average Normal	919
South Coast Basin Index - May 15, 2021		108%

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

VANCOUVER ISLAND			May 15, 2021 Data					May 15, 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3B01	FORBIDDEN PLATEAU	1100	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	345	1872	2631	N/A	27
3B02A	MOUNT COKELY	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3B04	ELK RIVER	270	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3B10	UPPER THELWOOD LAKE	990	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	1364	1742	2697	N/A	7
3B17P	Wolf River Upper	1490	2021-05-15		857			73%	32	704	723	137	1009	2719	1173	32
3B18	WOLF RIVER (MIDDLE)	990	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	447	1148	N/A	13
3B19	WOLF RIVER (LOWER)	640	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	549	N/A	12
3B23P	Jump Creek	1160	2021-05-15	226	1247	55		130%	66	503	29	0	853	3500	960	25
3B24P	Heather Mountain Upper	1190	2021-05-15	222	1353	61		N/A	N/A	1028	476	476	1028	1859	N/A	5
3B26P	Mount Arrowsmith	1465	2021-05-15	182	968	53		N/A	N/A	642	449	449	642	965	N/A	3
			Average	210	1106	56		101%	49							

Basin Index Calculation	Average SWE	1052
	Average Normal	1066
Vancouver Island Basin Index - May 15, 2021		99%

Stations used in Basin Index:
3B17P, 3B23P

CENTRAL COAST			May 15, 2021 Data					May 15, 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 (1991-2020)	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	232		232	N/A	1
3C08P	Burnt Bridge Creek	1330	2021-05-15	144	871	60		144%	83	649	261	130	546	1448	606	22
			Average	144	871	60		144%	83							

Basin Index Calculation	Average SWE	871
	Average Normal	606
Central Coast Basin Index - May 15, 2021		144%

Stations used in Basin Index:
3C08P

SKAGIT			May 15, 2021 Data					May 15, 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 (1991-2020)	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				N/A	0
3D02	LIGHTNING LAKE	1220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	544		544	N/A	1
3D03A	KLESILKWA	1175	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	490	N/A	3
			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 - May 15, 2021		N/A

Stations used in Basin Index:
N/A

PEACE			May 15, 2021 Data					May 15, 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 (1991-2020)	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	2021-05-15	261	1343	51		125%	87	1200	945	740	1035	1664	1073	28
4A03	WARE (UPPER)	1575	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	114		114	N/A	1
4A03P	Ware Upper	1565	2021-05-15	42	160	38		N/A	N/A	68	146	0	107	215	N/A	4
4A04	WARE (LOWER)	970	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
4A04P	Ware Lower	971	2021-05-15	0	0	N/A		N/A	N/A	0	0	0	0	0	N/A	4
4A05	GERMANSEN (UPPER)	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	272	387	414	N/A	4
4A06	TUTIZZI LAKE	1045	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
4A07	LADY LAURIER LAKE	1440	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	420		420	N/A	1
4A09	PULPIT LAKE	1335	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	230		293	N/A	2
4A09P	Pulpit Lake	1311	2021-05-15	51	238	47		95%	50	218	180	4	245	561	251	30
4A10	FREDRICKSON LAKE	1325	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	74		74	N/A	1
4A11	TRYGVE LAKE	1410	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	269		269	N/A	1
4A12	TSAYDAYCHI LAKE	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	302		302	N/A	1
4A12P	Tsaydaychi Lake	1195	2021-05-15	61	284	47		N/A	N/A						N/A	0
4A13	PHILIP LAKE	1035	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	128		128	N/A	1
4A13P	Philip Lake	1028	2021-05-15		1			N/A	N/A	0	N/A	0		0	N/A	1
4A16	MORFEE MOUNTAIN	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	343	588	950	N/A	8
4A18	MOUNT SHEBA	1490	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	340	737	1179	N/A	9
4A18P	MOUNT SHEBA	1484	2021-05-15	222	1153	52		N/A	N/A	1216	903	903		1216	N/A	2
4A20	MONKMAN CREEK	1570	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	469	912	N/A	8
4A20P	Monkman Creek	1570	2021-05-15		419			N/A	N/A	524	438	438		524	N/A	2
4A21	MOUNT STEARNS	1505	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	45		45	N/A	1
4A25	FORT ST. JOHN A	690	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	4
4A27P	Kwadacha North	1554	2021-05-15	96	321	33		104%	54	307	251	88	311	468	310	29
4A30P	Aiken Lake	1050	2021-05-15		22			44%	57	0	0	0	8	203	50	33
4A31P	Crying Girl Prairie	1358	2021-05-15		61			N/A	N/A	0	10	0	2	224	N/A	6
4A33P	Muskwa-Kechika	1196	2021-05-15		0			N/A	N/A	0	0	0	0	0	N/A	5
4A34P	Dowling Creek	1456	2021-05-15		1033			N/A	N/A	907	1457	0	768	1457	N/A	4

4A36P	Parsnip Upper	790	2021-05-15	5	8	16	N/A	N/A	8	0	0	8	N/A	2
4A37P	McQue Terrace	1200	2021-05-15				N/A	N/A	0	0	0	0	N/A	1
Average				92	360	41	92%	62						

Basin Index Calculation	Average SWE	481
	Average Normal	421
Peace Basin Index - May 15, 2021		114%

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

SKEENA-NASS			May 15, 2021 Data					May 15, 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 (1991-2020)	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	NS	NS	534		1278	N/A	2
4B02	JOHANSON LAKE	1420	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	178		178	N/A	1
4B03A	HUDSON BAY MTN.	1480	2021-05-17	90	414	46		103%	50	316	279	108	415	822	403	47
4B04	CHAPMAN LAKE	1460	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	238	467	689	N/A	8
4B06	TACHEK CREEK	1140	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	18	98	152	N/A	4
4B07	MCKENDRICK CREEK	1050	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	149	320	N/A	22
4B08	MOUNT CRONIN	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	481	670	927	N/A	14
4B10	NINGUNSAW PASS	690	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	208	N/A	14
4B11A	BEAR PASS	460	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	80	304	488	N/A	8
4B13A	TERRACE AIRPORT	180	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
4B14	EQUITY MINE	1420	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	283	396	N/A	12
4B15	LU LAKE	1300	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	182	330	N/A	13
4B15P	Lu Lake	1300	2021-05-15	6	21	35		14%	30	10	21	0	114	495	151	23
4B16P	Shedin Creek	1480	2021-05-15	156	870	56		106%	53	726	557	253	795	1264	819	23
4B17P	Tsai Creek	1360	2021-05-15	193	1227	64		100%	61	949	948	666	1069	2146	1228	23
4B18P	Cedar-Kiteen	885	2021-05-15	97	552	57		165%	78	100	0	0	287	979	334	20
Average				108	617	51		98%	54							

Basin Index Calculation	Average SWE	617
	Average Normal	587
Skeena-Nass Basin Index - May 15, 2021		105%

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

LIARD			May 15, 2021 Data					May 15, 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 (1991-2020)	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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	130		130	N/A	1
4C01P	Sikanni Lake	1387	2021-05-15	72	243	34		N/A	N/A		181	0	37	181	N/A	3
4C02	SUMMIT LAKE	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	160	N/A	7
4C03	DEASE LAKE	820	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	6
4C05	FORT NELSON AIRPORT	380	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	13
Average				72	243	34		#DIV/0!	#DIV/0!							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Liard Basin Index - May 15, 2021		N/A

Stations used in Basin Index:
N/A

STIKINE			May 15, 2021 Data					May 15, 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 (1991-2020)	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	0	0	0	N/A	15
4D10P	Tumeka Creek	1220	2021-05-15		555			139%	88	475	254	163	416	771	399	21
4D11P	Kinaskan Lake	1020	2021-05-15	93	336	36		186%	90	174	0	0	192	540	181	25
Average			N/A		446	N/A		162%	89							

Basin Index Calculation	Average SWE	446
	Average Normal	290
Stikine Basin Index - May 15, 2021		154%

Stations used in Basin Index:
4D10P, 4D11P

NORTHWEST			May 15, 2021 Data					May 15, 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 (1991-2020)	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	0	267	420	232	22
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 - May 15, 2021		N/A

Stations used in Basin Index:
N/A

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	694
	Average Normal	677
British Columbia Basin Index - May 15, 2021		103%

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

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

The June 1st snow survey is now complete. Data from 16 manual snow courses and 86 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.¹

Weather

The weather during May was primarily uneventful with respect to flooding. Temperatures averaged slightly above normal throughout British Columbia, fluctuating between warm and cool periods. The South Interior was incredibly dry, whereas areas around Prince George, Vanderhoof, Smithers, Terrace, Kitimat and Prince Rupert measured normal to above normal precipitation.

The weather for the first week of June spurred flooding and high river flows across British Columbia. A strong high-pressure ridge built across most of the province, resulting in rapid snowmelt across all elevations with snow. The development of the ridge also steered an atmospheric river to the North Coast, bringing heavy rainfall to the Skeena and Nass watersheds (as well as surrounding areas).

The general weather forecast for the upcoming week is for relatively cool and wetter conditions for the province.

Snowpack

Snow basin indices (SBI) for June 1st, 2021 range from a low of 48% of normal in the Boundary to a high of 275% in the Stikine (Table 1 and Figure 1). Overall, the province has near normal snowpack for June 1st 2021, with a provincial average across all snow measurements of 107% (increasing slightly from the May 15th value of 103%).

Most notably, northern areas in province remain above normal for June 1st, including Upper Fraser East, Nechako, Skeena-Nass, Stikine, Central Coast and Peace. Above normal snowpack this late in the season is indicative of slightly delayed snowmelt compared to average (especially at higher elevations), and does not mean additional snow accumulated in May. Below normal snow for June 1st is indicative of a relatively early melt, which was especially noticeable this year at lower and mid-elevations. The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) is 111% (increasing from the May 15th SBI of 104%). A table of SWE amounts for individual sites used to

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 – June 1st, 2021

calculate SBI values (included in the final pages of this report) best describes specific conditions for each area.

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

Basin	% of Normal (May 15 th value)	Basin	% of Normal (May 15 th value)
Upper Fraser West	N/A (N/A)	Okanagan	52 (80)
Upper Fraser East	149 (123)	Nicola**	N/A (N/A)
Nechako	130 (112)	Boundary	48 (84)
Middle Fraser	81 (92)	Similkameen	110 (104)
Lower Thompson*	N/A (N/A)	South Coast	98 (108)
Bridge*	47 (84)	Vancouver Island	87 (99)
Chilcotin*	N/A (N/A)	Central Coast	174 (144)
Quesnel*	111 (99)	Skagit	N/A (N/A)
Lower Fraser	113 (109)	Peace	152 (114)
North Thompson	98 (97)	Skeena-Nass	119 (105)
South Thompson	69 (78)	Stikine	275 (154)
Upper Columbia	116 (104)	Liard	N/A (N/A)
West Kootenay	83 (88)	Northwest	N/A (N/A)
East Kootenay	80 (66)	Fraser	111 (104)
		British Columbia	107 (103)

*sub-basin of Middle Fraser

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

By June 1st, approximately half of the accumulated snowpack has melted on average (according to data from automated snow weather stations). Due to several periods of very warm temperatures during spring, snowmelt rate has been slightly higher than normal this year. The overall snowpack at all automated snow weather stations has dropped 60% by June 1st from the peak snow accumulation. Lower and mid-elevation areas are primarily snow-free and high elevation snowpack is melting.

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Snowmelt measurements from automated snow weather stations during the first week of June indicate extremely rapid melt from very warm temperatures and/or heavy rain on melting snow. Over the weekend of June 5-6, a rapid drop in temperatures resulted in a light dusting of snow at many automated snow weather stations.

Streamflow

Most rivers in British Columbia were flowing at normal or above normal for much of May. Areas in the Cariboo, Chilcotin, Lower Thompson and Upper Fraser were under advisory earlier in the season due to mid-April hot weather and a heavy rain event at the end of the month. Seasonal temperatures and dry conditions in May lowered concerns in those regions, ending these advisories.

The second half of May was primarily uneventful with relatively dry conditions and seasonal melt. The BC River Forecast Centre did not issue any advisories from May 15th to 31st.

Based on the June 1st Snow Basin Indices, above normal snowpack existed for Upper Fraser East, Nechako, Quesnel, Lower Fraser, Upper Columbia, Similkameen, Central Coast, Peace, Skeena-Nass and Stikine; this indicates a continued risk for high freshet flows. During the first week of June, High Streamflow Advisories were issued for many of these regions due to snowmelt and/or rainfall. This also included areas that had higher elevation snow remaining such as the North Thompson, East Kootenay, and West Kootenay. Flood Warnings were issued in the Stikine and Skeena due to very high flows.

Most of the larger stream systems with significant watershed area at high elevations have peaked from the recent events and are unlikely to reach these high flows from snowmelt alone. Historically, June can be an active month for storms and it is possible for flows to reach higher levels this season due to heavy rainfall events.

The Fraser River at Hope (08MF005) is currently peaking at approximately 9,600-9,700 m³/s from the recent rapid snowmelt event and is forecast to recede into next week.

Outlook

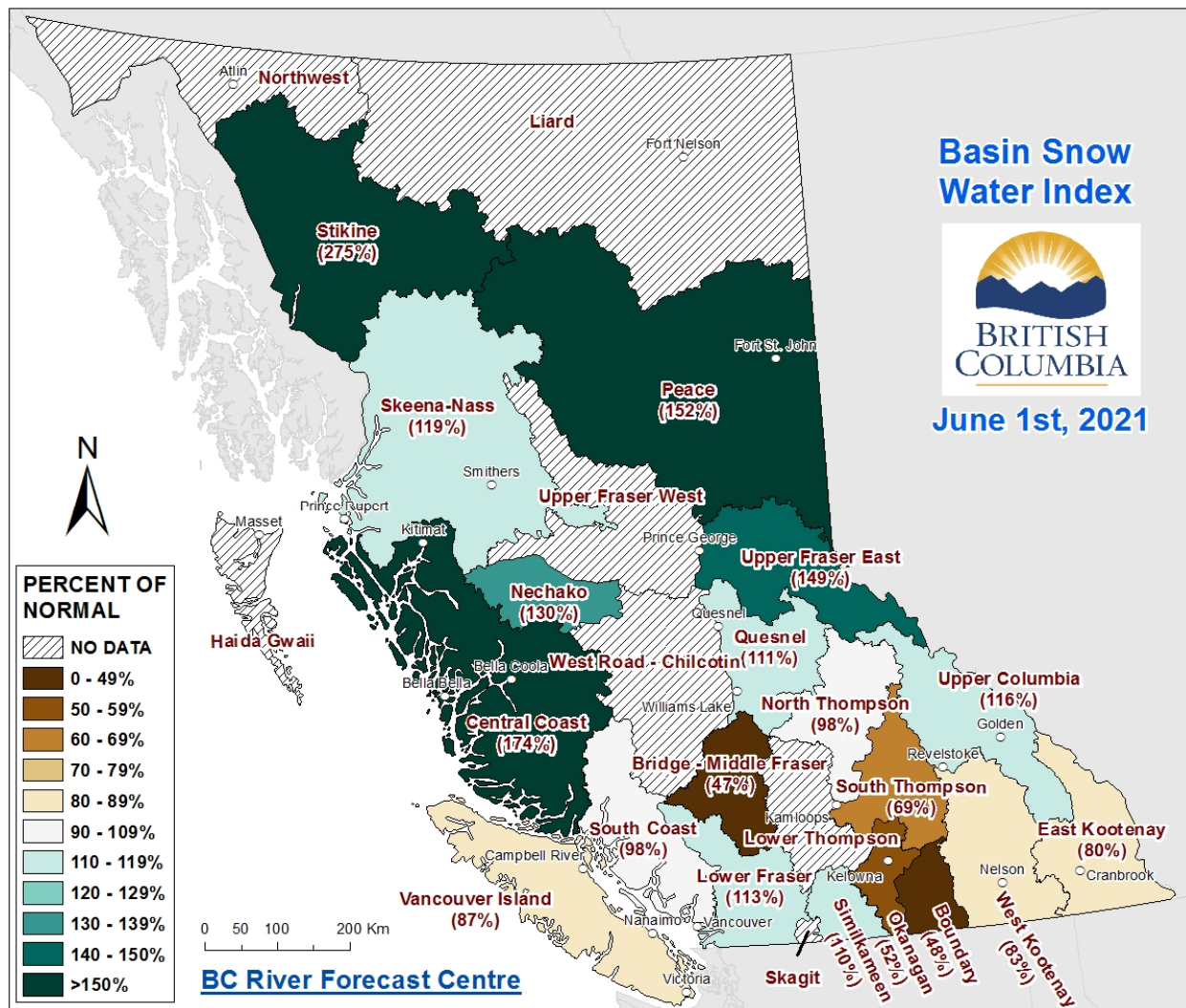
Seasonal flood risk from snowmelt alone has dissipated. Many of the regions that reached high flows over the past week remain high and are vulnerable to heavy rainfall. The flood season is not over but the primary risk of flooding has shifted from snowmelt to rain or rain-on-snow weather events, which are more difficult to forecast and offer shorter lead-time notice. The risk of significant precipitation events can continue into July. Areas in the South Interior, Upper Fraser, Chilcotin and Peace have experienced extremely high flow events late in the season due to rainfall over the past decade.

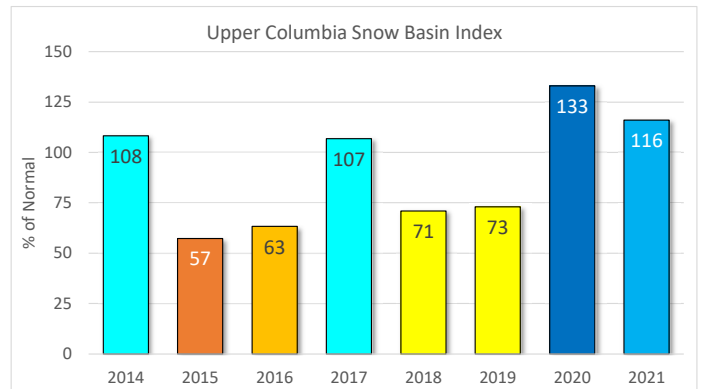
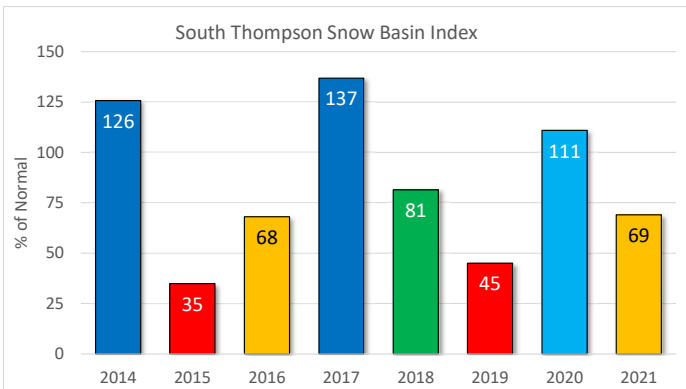
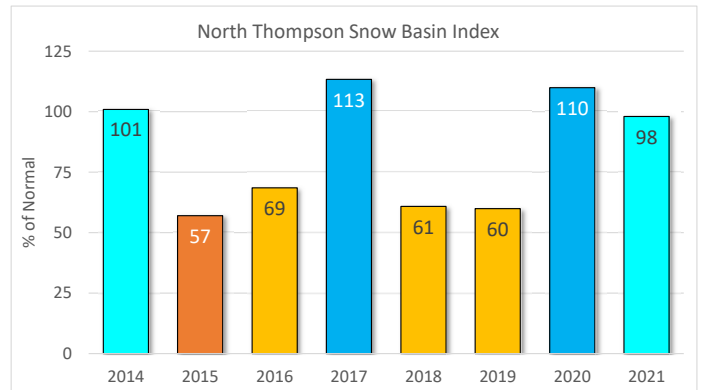
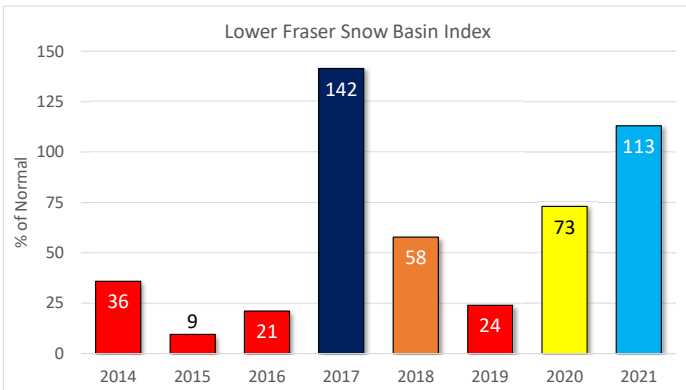
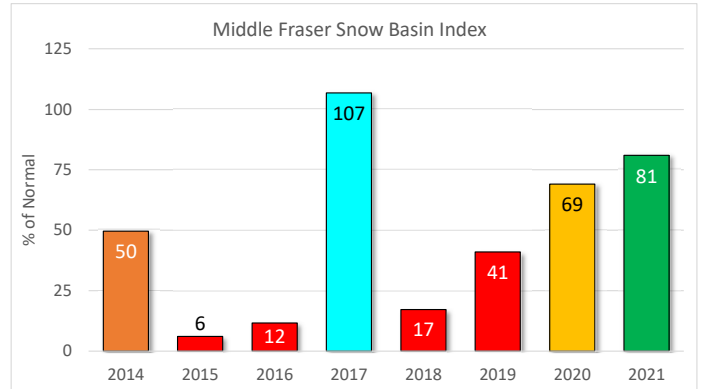
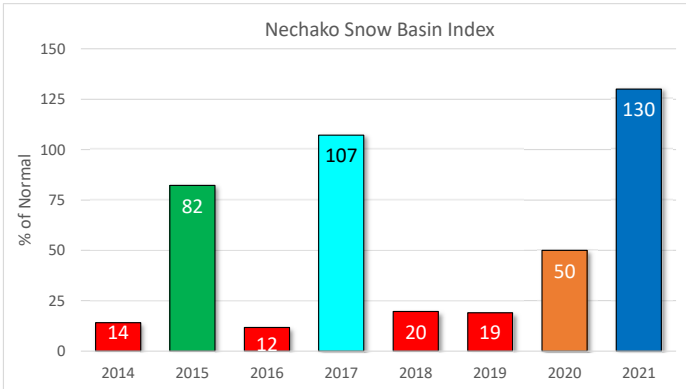
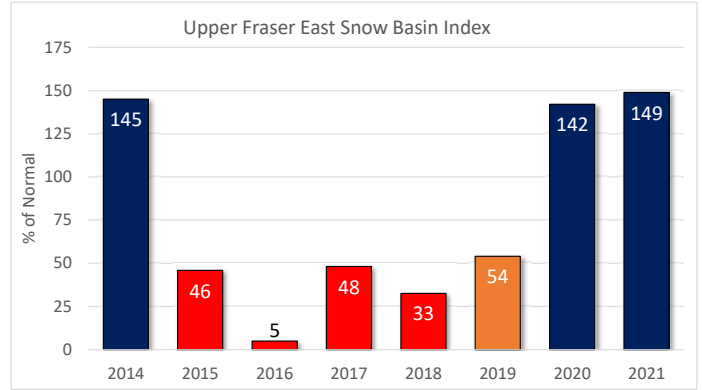
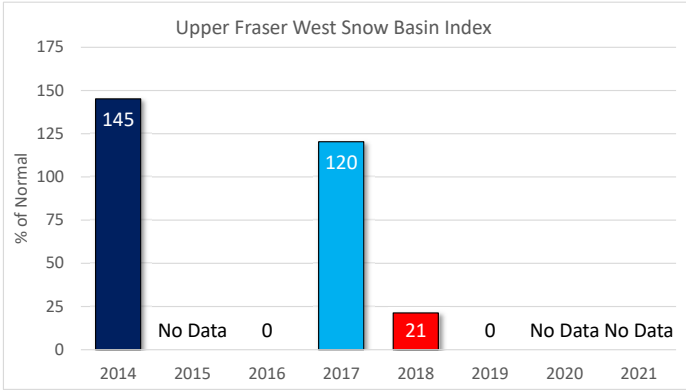
Snow Survey and Water Supply Bulletin – June 1st, 2021

The River Forecast Centre will continue to monitor snowpack conditions and will provide the final seasonal flood risk forecast in the June 15th, 2021 bulletin, which is scheduled for release on Monday, June 21st.

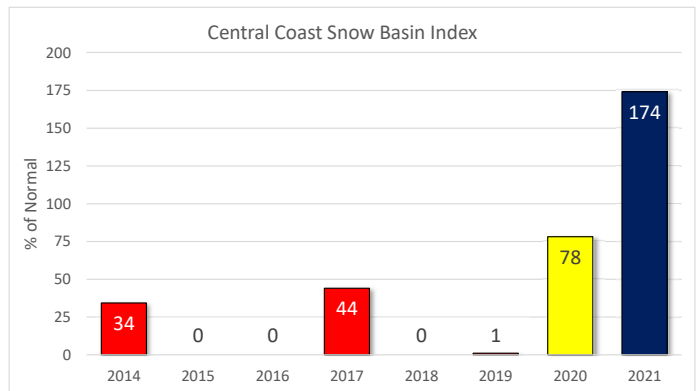
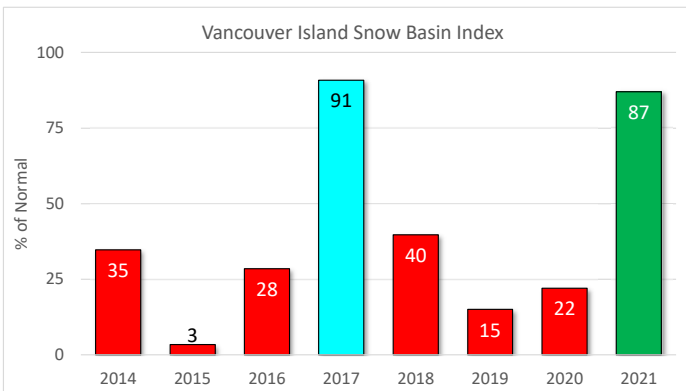
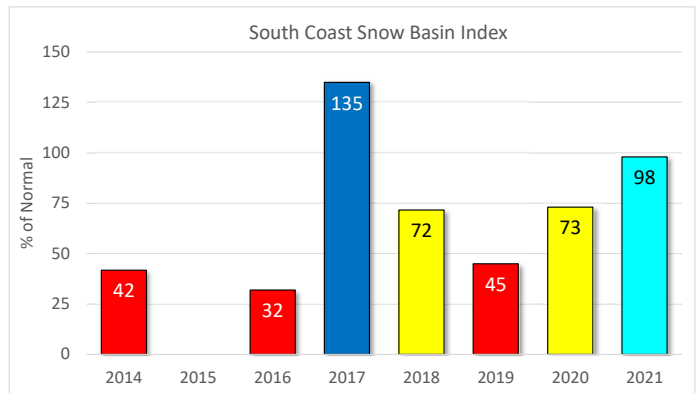
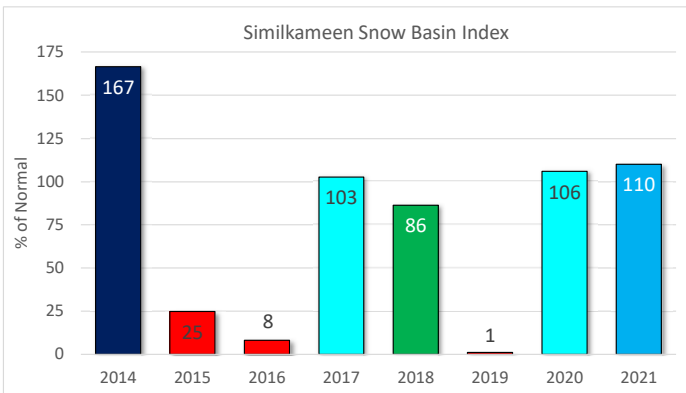
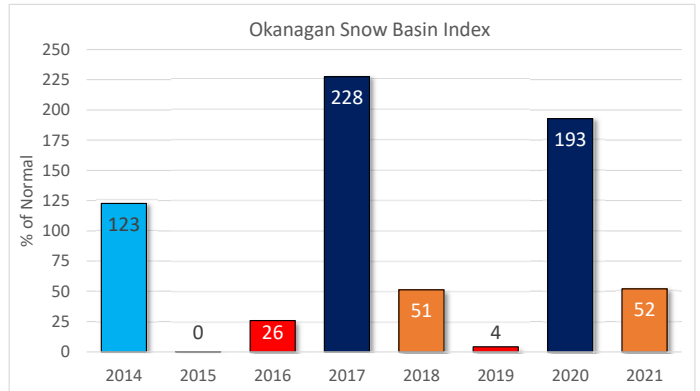
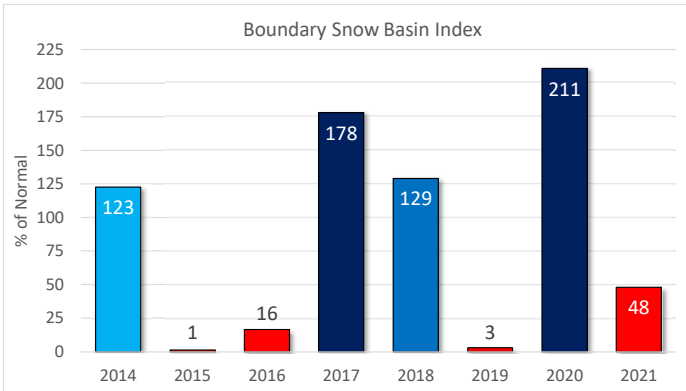
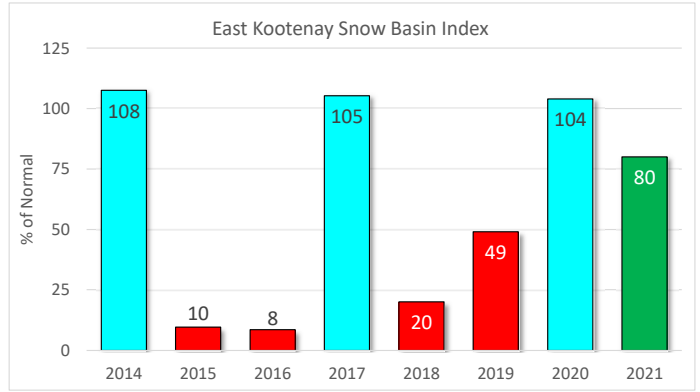
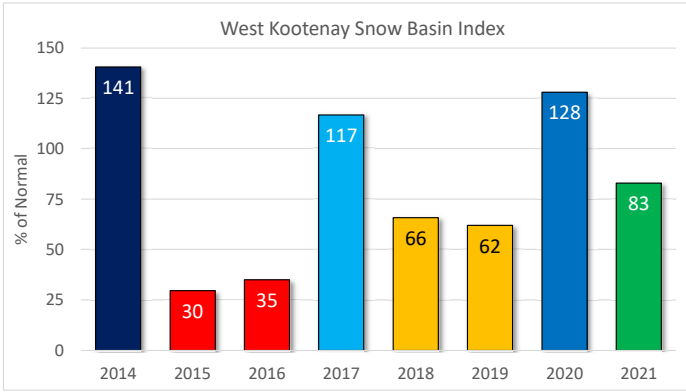
BC River Forecast Centre
June 8, 2021

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

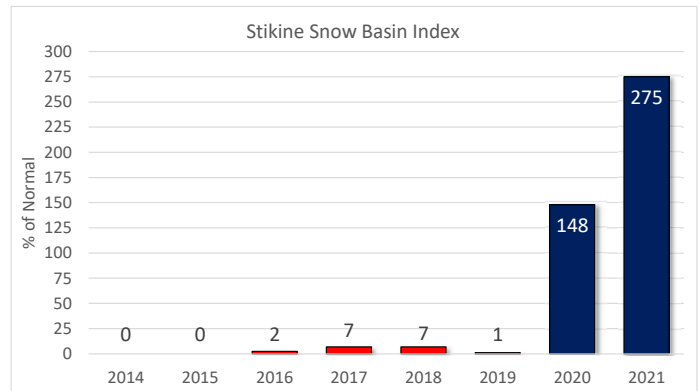
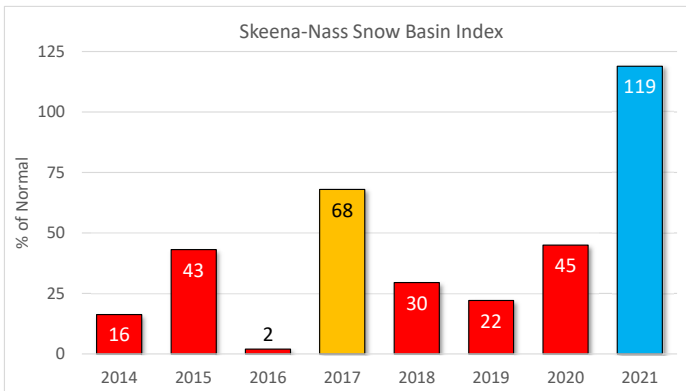
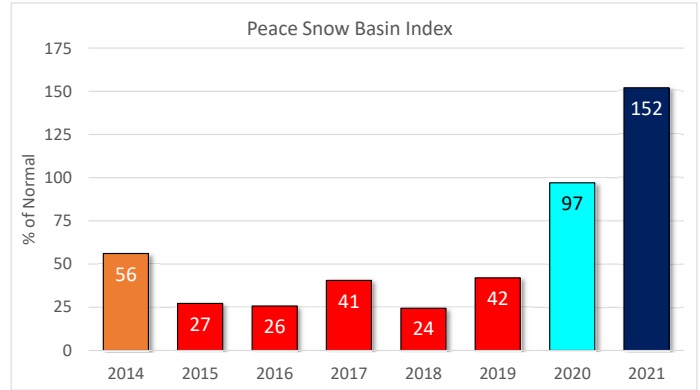
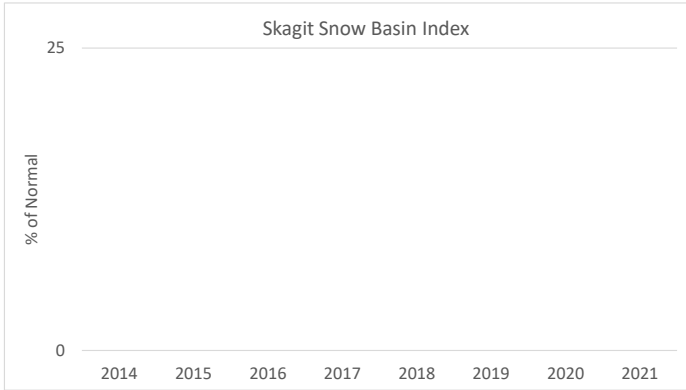




Snow Basin Index Graphs - June 1, 2021



Snow Basin Index Graphs - June 1, 2021



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

UPPER FRASER EAST			June 1, 2021 Data				June 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A01P	Yellowhead Lake	1860	2021-06-01	80	429	54		124%	66	306	N/A	0	356	843	346	21
1A02P	McBride Upper	1611	2021-06-01	41	207	50		148%	59	161	4	0	113	401	140	28
1A03P	Barkerville	1520	2021-06-01	0	0			0%	N/A	2	0	0	0	291	29	42
1A05	LONGWORTH (UPPER)	1693	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	668	1194	656	53
1A05P	Longworth Upper	1740	2021-06-01	175	1145	65		N/A	N/A	760	425	149	398	760	N/A	4
1A06A	HANSARD	608	NS	NS	NS	NS	NS	N/A	N/A	NS	0	0		0	N/A	1
1A10	PRINCE GEORGE A	689	NS	NS	NS	NS	NS	N/A	N/A	NS	0	0	0	0	N/A	3
1A11	PACIFIC LAKE	755	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	462	132	35
1A14P	Hedrick Lake	1100	2021-06-01		653			166%	69	350	35	0	345	1052	394	21
1A15	KNUDSEN LAKE	1602	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	734	1113	660	35
1A15P	Knudsen Lake	1601	2021-06-01	125	811	65		N/A	N/A	492	123	9	238	492	N/A	5
1A17P	Revolution Creek	1690	2021-06-01	143	821	57		158%	83	1002	381	0	448	1117	521	31
1A19P	Dome Mountain	1774	2021-06-01	162	922	57		147%	86	874	440	283	544	1076	628	15
			Average	104	624	58		124%	73							

Basin Index Calculation	Average SWE	606
	Average Normal	406
Upper Fraser East Basin Index - June 1, 2021		149%

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

UPPER FRASER WEST			June 1, 2021 Data				June 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A12	KAZA LAKE	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1A12P	Kaza Lake	1257	2021-06-01	0	0			N/A	N/A	0	0	0	0	0	N/A	5
1A16	BURNS LAKE	800	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	6
1A23	BIRD CREEK	1180	2021-06-01	0	0			N/A	N/A	N	0	0	0	0	0	23
			Average	0	0	N/A		N/A	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Upper Fraser West Basin Index - June 1, 2021		N/A

Stations used in Basin Index:
N/A

NECHAKO			June 1, 2021 Data				June 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1B01	MOUNT WELLS	1490	2021-06-01	47	242			132%	59	N	0	0	205	529	183	42
1B01P	Mount Wells	1490	2021-06-01		435			199%	85	N	68	0	183	720	219	28
1B02	TAHTSA LAKE	1300	2021-06-01	228	1305	57		145%	87	N	315	309	922	1828	903	43
1B02P	Tahtsa Lake	1300	2021-06-01		1276			144%	85	560	205	205	834	2158	883	28
1B05	SKINS LAKE	890	2021-06-01		0			N/A	N/A	N	0	0	0	0	0	25
1B06	MOUNT SWANNELL	1620	N	N	N	N	N	N/A	N/A	N	0	0	0	350	103	27
1B07	NUTLI LAKE	1490	2021-06-01	0	0			0%	N/A	N	0	0	93	618	186	28
1B08P	Mt. Pondosy	1400	2021-06-01		223			75%	48	101	0	0	237	929	296	24
			Average	92	497	57		116%	73							

Basin Index Calculation	Average SWE	580
	Average Normal	445
Nechako Basin Index - June 1, 2021		130%

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

LOWER THOMPSON			June 1, 2021 Data					June 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
						%	Code								Normal SWE (mm)	SWE (mm)	
1C01	BROOKMERE	980	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	5
1C06	PAVILION	1230	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C09A	HIGHLAND VALLEY	1510	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	8
1C25	LAC LE JEUNE (UPPER)	1509	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C29	SHOVELNOSE MOUNTAIN	1450	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C29P	Shovelnose Mountain	1460	2021-06-01	0	0				N/A	N/A	0	0	0		0	N/A	2
1C32	DEADMAN RIVER	1430	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
Average				0	0	N/A			N/A	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Lower Thompson Basin Index - June 1, 2021		N/A

Stations used in Basin Index:
N/A

BRIDGE / LILLOOET			June 1, 2021 Data					June 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
						%	Code								Normal SWE (mm)	SWE (mm)	
1C05	MCGILLIVRAY PASS	1725	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	280	757	N/A	22
1C05P	McGillivray Pass	1718	2021-06-01		0				N/A	N/A	0	0	0	0	0	N/A	3
1C12P	Green Mountain	1780	2021-06-01		235				50%	32	37	8	8	347	1186	472	27
1C14	BRALORNE	1389	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C14P	Bralorne	1382	2021-06-01	0	0				N/A	N/A	0	0	0	0	0	N/A	3
1C18P	Mission Ridge	1850	2021-06-01		34				32%	57	0	0	0	3	710	106	44
1C28	DUFFEY LAKE	1200	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C37	BRALORNE(UPPER)	1981	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C38	DOWNTON LAKE (UPPER)	1887	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C38P	Downton Lake Upper	1829	2021-06-01		366				N/A	N/A	277	302	278	302	655	N/A	5
1C39	BRIDGE GLACIER (LOWER)	1390	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C40	TYAUGHTON CREEK (NORTH)	1947	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C40P	North Tyaughton	1969	2021-06-01		144				N/A	N/A	0	0	0	0	0	N/A	5
Average				0	130	N/A			41%	45							

Basin Index Calculation	Average SWE	135
	Average Normal	289
Bridge/Lillooet Basin Index - June 1, 2021		47%

Stations used in Basin Index:
1C12P, 1C18P

CHILCOTIN			June 1, 2021 Data					June 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
						%	Code								Normal SWE (mm)	SWE (mm)	
1C08	NAZKO	1070	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C21	BIG CREEK	1140	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C22	PUNTZI MOUNTAIN	940	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	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
Chilcotin Basin Index - June 1, 2021		N/A

Stations used in Basin Index:
N/A

QUESNEL			June 1, 2021 Data					June 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 (1991-2020)	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	363		363	N/A	1
1C17	MOUNT TIMOTHY	1660	2021-06-02	21	90	43		225%	81	32	N	0	0	332	40	46
1C20P	Boss Mountain Mine	1460	2021-06-01		8			7%	35	6	0	0	68	401	114	27
1C23	PENFOLD CREEK	1685	NS	NS		NS	NS	N/A	N/A	NS	NS	353	844	1354	873	44
1C33A	GRANITE MOUNTAIN	1150	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C41P	Yanks Peak East	1670	2021-06-01	87	638	73		125%	67	809	444	56	493	979	510	24
			Average	54	245	58		119%	61							

Basin Index Calculation	Average SWE	245
	Average Normal	221
Quesnel Basin Index - June 1, 2021		111%

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

MIDDLE FRASER		
Basin Index Calculation	Average SWE	201
	Average Normal	248
Middle River Basin Index - June 1, 2021		81%

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

LOWER FRASER			June 1, 2021 Data					June 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 (1991-2020)	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	2021-06-01	115	654	57		98%	59	388	122	122	539	1399	665	20
1D08	STAVE LAKE	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	635	1718	3150	N/A	6
1D08P	Lamont Creek Upper	1217	2021-06-01		1168			N/A	N/A						N/A	0
1D09	WAHLEACH LAKE	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	327	544	N/A	10
1D09P	Wahleach Lake Upper	1480	2021-06-01		884			132%	67	570	68	0	701	1525	669	27
1D10	NAHATLATCH RIVER	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	706	1324	2690	N/A	9
1D16	DICKSON LAKE	1160	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1D17P	Chilliwack River	1600						N/A	N/A	1161	557	0	1204	2208	1178	27
1D18	DISAPPOINTMENT LAKE	1050	2021-05-31	241	1232	51		105%	58	N	N	320	1132	2300	1172	14
1D18P	Disappointment Lake	1050	2021-06-01	208				N/A	N/A	679	51	0	1027	2177	965	12
1D19P	Spuzzum Creek	1180	2021-06-01	186	1307	70		119%	55	652	149	0	1166	2630	1096	22
			Average	188	1049	59		114%	60							

Basin Index Calculation	Average SWE	1019
	Average Normal	900
Lower Fraser Basin Index - June 1, 2021		113%

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

NORTH THOMPSON			June 1, 2021 Data					June 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 (1991-2020)	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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	5
1E02P	Mount Cook	1550	2021-06-01	183	1198	65		109%	69	1200	797	587	1091	2062	1100	17
1E03A	TROPHY MOUNTAIN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	935		935	N/A	1
1E07	ADAMS RIVER	1720	2021-05-31	93	482	52		91%	41	638	426	0	525	1155	527	51
1E08P	Azure River	1652	2021-06-01	145	903	62		102%	54	918	407	407	877	1729	882	23
1E10P	Kostal Lake	1770	2021-06-01	82	567	69		84%	34	688	386	155	645	1386	677	36
1E14P	Cook Creek	1280	2021-06-01	0	0			0%	N/A	105	0	0	0	195	35	12
			Average	101	630	62		77%	50							

Basin Index Calculation	Average SWE	630
	Average Normal	644
North Thompson Basin Index - June 1, 2021		98%

Stations used in Basin Index:
1E02P, 1E07, 1E08P, 1E10P, 1E14P

SOUTH THOMPSON			June 1, 2021 Data					June 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020	
			Depth (cm)	SWE (mm)											Normal SWE (mm)	Years of Record
1F01A	ABERDEEN LAKE	1310	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
1F02	ANGLEMONT	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	61	N/A	11
1F03P	Park Mountain	1890	2021-06-01	65	484	74		65%	23	869	208	208	735	1260	742	36
1F04P	Enderby	1950	2021-06-01	141	613	43		N/A	N/A	853	455	455	815	1045	N/A	4
1F04P2	Enderby Tower 2	1950	2021-06-01		829			N/A	N/A	1288	N	1022	1155	1288	N/A	2
1F06P	Celista Mountain	1500	2021-06-01	69	370	54		75%	34	503	203	97	535	892	493	14
Average				92	574	57		70%	29							

Basin Index Calculation	Average SWE	427
	Average Normal	617
South Thompson Basin Index - June 1, 2021		69%

Stations used in Basin Index:
1F03P, 1F06P

FRASER RIVER

Basin Index Calculation	Average SWE	557
	Average Normal	501
Fraser River Basin Index - June 1, 2021		111%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A14P, 1A17P, 1A19P, 1B01, 1B01P, 1B02, 1B02P, 1B07, 1B08P, 1C12P, 1C17, 1C18P, 1C20P, 1C41P, 1D06P, 1D09P, 1D18, 1D19P, 1E02P, 1E07, 1E08P, 1E10P, 1E14P, 1F03P, 1F06P

UPPER COLUMBIA			June 1, 2021 Data					June 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020	
			Depth (cm)	SWE (mm)											Normal SWE (mm)	Years of Record
2A02	GLACIER	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	282	737	N/A	46
2A03A	FIELD	1285	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	2
2A06P	Mount Revelstoke	1850	2021-06-01		966			98%	54	1044	676	240	854	2109	981	27
2A07	KICKING HORSE	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	31	226	N/A	33
2A11	BEAVERFOOT	1890	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	254		254	N/A	1
2A14	MOUNT ABBOT	2010	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	471	1266	1951	N/A	36
2A16	GOLDSTREAM	1920	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A17	FIDELITY MOUNTAIN	1870	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	439	1095	2045	N/A	35
2A18	KEYSTONE CREEK	1890	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A18P	Keystone Creek	1840	2021-06-01		600			N/A	N/A	708	425	391	456	914	N/A	6
2A19	VERMONT CREEK	1520	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	505		505	N/A	1
2A21P	Molson Creek	1935	2021-06-01		1148			137%	91	987	678	98	865	1470	837	38
2A22	SUNBEAM LAKE	2010	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A23	BUSH RIVER	1920	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A25	KIRBYVILLE LAKE	1750	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	969		969	N/A	1
2A27	DOWNIE SLIDE (LOWER)	980	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	443	N/A	9
2A29	DOWNIE SLIDE (UPPER)	1630	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	984	1330	N/A	8
2A30P	Colpitt Creek	2131	2021-06-01		715			N/A	92	804	416	0	290	804	N/A	12
2A31P	Caribou Creek Upper	2201	2021-06-01		929			N/A	N/A	863	513	359	554	863	N/A	6
2A32P	Wildcat Creek	2122	2021-06-01		581			N/A	N/A	727	413	172	367	727	N/A	6
Average				N/A	823	N/A		118%	79							

Basin Index Calculation	Average SWE	1057
	Average Normal	909
Upper Columbia Basin Index - June 1, 2021		116%

Stations used in Basin Index:
2A06P, 2A21P

WEST KOOTENAY			June 1, 2021 Data					June 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow		SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
			Depth (cm)	YYYY-MM-DD		%	Code								Normal SWE (mm)	SWE	
2B02A	FARRON	1220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	34	N/A	17	
2B05	WHATSHAN (UPPER)	1525	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	196	432	N/A	7	
2B06P	Barnes Creek	1620	2021-06-01		3			2%	N/A	165	0	0	63	630	156	28	
2B07	KOCH CREEK	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	701		978	N/A	2	
2B08P	St. Leon Creek	1800	2021-06-01		958			118%	68	1428	521	225	781	1557	815	27	
2B09	RECORD MOUNTAIN	1890	2021-06-02		0	0		0%	N/A	205	0	0	232	1073	345	43	
2D02	FERGUSON	880	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	18	400	N/A	16	
2D03	SANDON	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	2	
2D04	NELSON	930	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	8	243	N/A	17	
2D05	GRAY CREEK (LOWER)	1550	2021-05-25	N	N	N	N	N/A	N/A	NS	9	0	194	551	184	65	
2D06	CHAR CREEK	1310	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	15	362	110	41	
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	2021-06-01		0	0		N/A	N/A	0	N	0		0	N/A	1	
2D08P	East Creek	2030	2021-06-01		757			108%	60	806	580	111	720	1240	698	37	
2D09	MOUNT TEMPLEMAN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2D10	GRAY CREEK (UPPER)	1940	2021-05-25	N	N	N	N	N/A	N/A	NS	270	0	542	1120	517	47	
2D10P	GRAY CREEK (UPPER)	1930	2021-06-01		59	333	56	N/A	N/A						N/A	0	
2D14P	Redfish Creek	2104	2021-06-01		139	977	70	79%	28	1515	741	741	1196	1804	1231	19	
			Average		50	433	63	61%	52								

Basin Index Calculation	Average SWE	539
	Average Normal	649
West Kootenay Basin Index - June 1, 2021		83%

Stations used in Basin Index:
2B06P, 2B8P, 2B09, 2D09P, 2D14P

EAST KOOTENAY			June 1, 2021 Data					June 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow		SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
			Depth (cm)	YYYY-MM-DD		%	Code								Normal SWE (mm)	SWE	
2C01	SINCLAIR PASS	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	203	N/A	14	
2C04	SULLIVAN MINE	1550	2021-06-01		0	0		0%	N/A	0	0	0	0	137	8	38	
2C09Q	Morrissey Ridge	1860	2021-06-01		0			0%	N/A	82	0	0	25	878	181	36	
2C10P	Moyie Mountain	1930	2021-06-01		2	5	25	14%	67	0	0	0	0	475	35	41	
2C11	KIMBERLY UPPER	2140	NS	NS	NS	NS	NS	N/A	N/A						N/A	0	
2C12	KIMBERLY MIDDLE	1680	NS	NS	NS	NS	NS	N/A	N/A						N/A	0	
2C14P	Floe Lake	2090	2021-06-01		622			111%	51	722	357	94	607	971	558	26	
2C15	MOUNT ASSINIBOINE	2230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2C16	MOUNT JOFFRE	1750	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2C17	THUNDER CREEK	2010	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
			Average		1	157	25	31%	59								

Basin Index Calculation	Average SWE	157
	Average Normal	196
East Kootenay Basin Index - June 1, 2021		80%

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

BOUNDARY			June 1, 2021 Data					June 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow		SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
			Depth (cm)	YYYY-MM-DD		%	Code								Normal SWE (mm)	SWE	
2E01	MONASHEE PASS	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	8	221	N/A	26	
2E02	CARMI	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	4	

2E03	BIG WHITE MOUNTAIN	1680	N	N	N	N	N	N/A	N/A	268	0	0	129	658	157	53
2E07P	Grano Creek	1860	2021-06-01	20	153	77		48%	29	655	8	0	336	769	322	23
Average				20	153	77		48%	29							

Basin Index Calculation	Average SWE	153
	Average Normal	322
Boundary Basin Index - June 1, 2021		48%

Stations used in Basin Index:
2E07P

OKANAGAN			June 1, 2021 Data					June 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2F01A	TROUT CREEK (West)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F01AP	Trout Creek West	1420	2021-06-01	0	0			N/A	N/A	0	0	0		0	N/A	3
2F02	SUMMERLAND RESERVOIR	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	25	N/A	9
2F03	MCCULLOCH	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
2F04	GRAYSTOKE LAKE	1840	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	214	584	N/A	14
2F05P	Mission Creek	1780	2021-06-01	45	183	41		76%	45	564	6	0	222	621	242	50
2F07	POSTILL LAKE	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
2F08	GREYBACK RESERVOIR	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	155	N/A	27
2F08P	Greyback Reservoir	1550	2021-06-01		0			N/A	N/A	0	0	0	0	0	N/A	4
2F09	WHITEROCKS MOUNTAIN	1830	N	N	N	N	N	N/A	N/A	N	0	0	71	848	136	48
2F10	Silver Star Mountain	1840	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	447	980	485	56
2F10P	Silver Star Mountain	1839	2021-06-01	54	349	65		N/A	N/A	928	191	191	694	937	N/A	4
2F11	ISINTOK LAKE	1680	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	211	7	21
2F12	MOUNT KOBAN	1810	2021-05-28	0	0			0%	N/A	0	0	0	41	488	108	54
2F13	ESPERON CR (UPPER)	1650	N	N	N	N	N	N/A	N/A	NS	0	0	144	490	103	15
2F14	ESPERON CR (MIDDLE)	1430	N	N	N	N	N	N/A	N/A	NS	0	0	0	127	22	15
2F18P	Brenda Mine	1460	2021-06-01		0			0%	N/A	0	0	0	0	9	1	25
2F19	OYAMA LAKE	1340	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		391	N/A	2
2F19P	OYAMA LAKE	1340	2021-06-01		0			N/A	N/A						N/A	0
2F20	VASEUX CREEK	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	8
2F21	BOULEAU LAKE	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	112	N/A	3
2F23	MACDONALD LAKE	1740	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	131	428	N/A	17
2F24	ISLAHT LAKE	1480	NS	NS	NS	NS	NS	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				25	76	53		25%	45							

Basin Index Calculation	Average SWE	92
	Average Normal	175
Okanagan Basin Index - June 1, 2021		52%

Stations used in Basin Index:
2F05P, 2F12

SIMILKAMEEN			June 1, 2021 Data					June 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2G03P	Blackwall Peak	1940	2021-06-01	89	469	53		110%	59	427	3	0	413	1253	426	53
2G04	LOST HORSE MOUNTAIN	1920	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	104	330	N/A	31
2G05	MISSEZULA MOUNTAIN	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	18
2G06	HAMILTON HILL	1490	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	401	N/A	22
Average				89	469	53		110%	59							

Basin Index Calculation	Average SWE	469
	Average Normal	426
Similkameen Basin Index - June 1, 2021		110%

Stations used in Basin Index:
2G03P

SOUTH COAST			June 1, 2021 Data					June 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020	2019	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)			
3A01	GROUSE MOUNTAIN	1100	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	1074		1074	N/A	1	
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	350		350	N/A	1	
3A09P	Palisade Lake	900	2021-06-01	2	6	32		N/A	N/A	0	0	0		0	N/A	3	
3A10	DOG MOUNTAIN	1080	2021-05-31	196	955	49		138%	70	465	146	0	634	2480	694	34	
3A19	ORCHID LAKE	1190	2021-05-31	269	1380	51		102%	58	N	NS	0	1302	3648	1351	38	
3A20	CALLAGHAN CREEK	1040	2021-06-01		0			0%	N/A	NS	NS	0	80	1228	229	35	
3A20P	Callaghan	1017	2021-06-01	1.3	20	154		N/A	N/A	26	95	26		95	N/A	2	
3A22P	Nostetuko River	1500	2021-06-01	1	14	140		12%	61	0	0	0	4	677	112	29	
3A24P	Mosley Creek Upper	1650	2021-06-01	0	0			N/A	N/A	0	0	0	0	233	27	32	
3A25P	Squamish River Upper	1340	2021-06-01	183	1083	59		96%	45	1009	752	0	1106	2780	1123	27	
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	2021-06-01	287	954	33		N/A	N/A	1039	639	639	1039	1171	N/A	3	
Average				117	490	74		70%	59								

Basin Index Calculation	Average SWE	686
	Average Normal	702
South Coast Basin Index - June 1, 2021		98%

Stations used in Basin Index:
3A10, 3A19, 3A20, 3A22P, 3A25P

VANCOUVER ISLAND			June 1, 2021 Data					June 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020	2019	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)			
3B01	FORBIDDEN PLATEAU	1100	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	74	1427	2438	N/A	30	
3B02A	MOUNT COKELY	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
3B04	ELK RIVER	270	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
3B10	UPPER THELWOOD LAKE	990	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	485	1636	2601	N/A	13	
3B17P	Wolf River Upper	1490	2021-06-01		577			66%	41	345	245	33	691	2790	874	32	
3B18	WOLF RIVER (MIDDLE)	990	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	196	1016	N/A	15	
3B19	WOLF RIVER (LOWER)	640	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	193	N/A	15	
3B23P	Jump Creek	1160	2021-06-01	146	678	46		120%	61	25	0	0	266	3142	566	25	
3B24P	Heather Mountain Upper	1190	2021-06-01	153	1040	68		N/A	N/A	573	0	0	573	1573	N/A	5	
3B26P	Mount Arrowsmith	1465	2021-06-01	115	665	58		N/A	N/A	193	0	0	193	503	N/A	3	
Average				138	740	57		93%	51								

Basin Index Calculation	Average SWE	628
	Average Normal	720
Vancouver Island Basin Index - June 1, 2021		87%

Stations used in Basin Index:
3B17P, 3B23P

CENTRAL COAST			June 1, 2021 Data					June 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020	2019	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)			
3C07	WEDEENE RIVER SOUTH	220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
3C08P	Burnt Bridge Creek	1330	2021-06-01	77	460	60		174%	80	236	0	0	139	1121	264	22	
Average				77	460	60		174%	80								

Basin Index Calculation	Average SWE	460
	Average Normal	264
Central Coast Basin Index - June 1, 2021		174%

Stations used in Basin Index:
3C08P

SKAGIT			June 1, 2021 Data					June 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020		
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record	
3D01C	SUMALLO RIVER WEST	790	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
3D02	LIGHTNING LAKE	1220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	470		470		N/A	1
3D03A	KLESILKWA	1175	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0		N/A	1
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 - June 1, 2021		N/A

Stations used in Basin Index:
N/A

PEACE			June 1, 2021 Data					June 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020		
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record	
4A02P	Pine Pass	1400	2021-06-01	200	1154	58		154%	89	868	387	168	699	1508	751	28	
4A03	WARE (UPPER)	1575	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
4A03P	Ware Upper	1565	2021-06-01	0	0			N/A	N/A	0	0	0	0	0		N/A	4
4A04	WARE (LOWER)	970	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
4A04P	Ware Lower	971	2021-06-01	0	0			N/A	N/A	0	0	0	0	0		N/A	4
4A05	GERMANSEN (UPPER)	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	203		203		N/A	1
4A06	TUTIZZI LAKE	1045	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
4A07	LADY LAURIER LAKE	1440	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	49		49		N/A	1
4A09	PULPIT LAKE	1335	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
4A09P	Pulpit Lake	1311	2021-06-01		16			44%	72	0	0	0	0	219	36	30	
4A10	FREDRICKSON LAKE	1325	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
4A11	TRYGVE LAKE	1410	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
4A12	TSAYDAYCHI LAKE	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
4A12P	Tsaydaychi Lake	1195	2021-06-01		3			N/A	N/A							N/A	0
4A13	PHILIP LAKE	1035	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
4A13P	Philip Lake	1028	2021-06-01		0			N/A	N/A	0	N/A					N/A	1
4A16	MORFEE MOUNTAIN	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	275	853		N/A	12
4A18	MOUNT SHEBA	1490	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	209	644	1110		N/A	8
4A18P	MOUNT SHEBA	1484	2021-06-01	171	1015	59		N/A	N/A	1010	903	903		1010		N/A	2
4A20	MONKMAN CREEK	1570	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	410	851		N/A	10
4A20P	Monkman Creek	1570	2021-06-01		253			N/A	N/A	312	158	158		312		N/A	2
4A21	MOUNT STEARNS	1505	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	7		7		N/A	1
4A25	FORT ST. JOHN A	690	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0		N/A	1
4A27P	Kwadacha North	1554	2021-06-01	61	224	37		173%	67	54	0	0	123	417	130	29	
4A30P	Aiken Lake	1050	2021-06-01	0	0			0%	N/A	0	0	0	0	14	2	33	
4A31P	Crying Girl Prairie	1358	2021-06-01		0			N/A	N/A	0	0	0	0	0		N/A	6
4A33P	Muskwa-Kechika	1196	2021-06-01		0			N/A	N/A	0	0	0	0	0		N/A	5
4A34P	Dowling Creek	1456	2021-06-01		589			N/A	N/A							N/A	
4A36P	Parsnip Upper	790	2021-06-01	0	0			N/A	N/A	0	0	0		0		N/A	2
4A37P	McQue Terrace	1200	2021-06-01		0			N/A	N/A	0	0	0		0		N/A	1
Average				62	217	51		93%	76								

Basin Index Calculation	Average SWE	465
	Average Normal	306
Peace Basin Index - June 1, 2021		152%

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

SKEENA-NASS			June 1, 2021 Data					June 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4B01	KIDPRICE LAKE	1370	2021-06-01	127	743	59		143%	65	NS	40	0	567	1359	520	44
4B02	JOHANSON LAKE	1420	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B03A	HUDSON BAY MTN.	1480	2021-06-01	58	295	51		135%	56	40	0	0	257	729	219	48
4B04	CHAPMAN LAKE	1460	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	285	546	594	N/A	7
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	0	0	149	N/A	15
4B08	MOUNT CRONIN	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	610	726	927	N/A	9
4B10	NINGUNSAW PASS	690	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	3
4B11A	BEAR PASS	460	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	166	N/A	5
4B13A	TERRACE AIRPORT	180	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B14	EQUITY MINE	1420	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	40	214	N/A	13
4B15	LU LAKE	1300	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	126	N/A	13
4B15P	Lu Lake	1300	2021-06-01	5	6	12		24%	62	0	0	0	0	158	25	23
4B16P	Shedin Creek	1480	2021-06-01	102	615	60		110%	59	339	11	4	453	1270	561	23
4B17P	Tsai Creek	1360	2021-06-01	151	1007	67		106%	66	599	514	289	773	2132	947	23
4B18P	Cedar-Kiteen	885	2021-06-01	26	179	69		145%	74	0	0	0	10	622	123	20
			Average	78	474	53		110%	64							

Basin Index Calculation	Average SWE	474
	Average Normal	399
Skeena-Nass Basin Index - June 1, 2021		119%

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

LIARD			June 1, 2021 Data					June 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4C01	SIKANNI LAKE	1385	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
4C01P	Sikanni Lake	1387						N/A	N/A		0	0	0	0	N/A	3
4C02	SUMMIT LAKE	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4C03	DEASE LAKE	820	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	10
4C05	FORT NELSON AIRPORT	380	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
Liard Basin Index - June 1, 2021		N/A

Stations used in Basin Index:
N/A

STIKINE			June 1, 2021 Data					June 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4D02	ISKUT	1000	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	4
4D10P	Tumeka Creek	1220	2021-06-01		364			256%	95	271	0	0	161	510	142	21
4D11P	Kinaskan Lake	1020	2021-06-01	48	91	19		388%	92	0	0	0	0	248	23	25
			Average	N/A	228	N/A		322%	94							

Basin Index Calculation	Average SWE	228
	Average Normal	83
Stikine Basin Index - June 1, 2021		275%

Stations used in Basin Index:
4D10P, 4D11P

NORTHWEST			June 1, 2021 Data					June 1, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		
						%	Code								Normal SWE (mm)	Years of Record	
4E01	LOG CABIN	900	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4E02B	ATLIN LAKE	730	NS	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 - June 1, 2021		N/A

Stations used in Basin Index:
N/A

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	503
	Average Normal	471
British Columbia Basin Index - June 1, 2021		107%

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

Snow Survey and Water Supply Bulletin – June 15th, 2021

The June 15th snow survey is now complete. Data from 5 manual snow courses and 90 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.¹

Weather

The weather for the first week of June spurred flooding and high river flows across British Columbia. A strong high-pressure ridge built across most of the province, resulting in rapid snowmelt across all elevations with snow remaining. The development of the ridge also steered an atmospheric river to the North Coast, bringing heavy rainfall to the Skeena and Nass watersheds (as well as surrounding areas).

Weather conditions during the second week of the month were relatively cooler and wetter throughout the province. In the Columbia-Kootenays, significant heat immediately followed by rainfall created high flows. A very strong low-pressure system affected Northeast B.C. June 16-17 resulting in heavy rainfall and high flows.

The upcoming weather forecast to the end of the month shows a strong high-pressure ridge building, with very warm and dry conditions.

Snowpack

Snow basin indices (SBI) on June 15th, 2021 range from a low of 35% of normal in the South Thompson to a high of 182% in the Upper Fraser East (Table 1 and Figure 1). Overall, the province has near normal snowpack for June 15th 2021, with a provincial average across all snow measurements of 105%.

By June 15th, approximately 75% of the accumulated seasonal snowpack has melted on average (according to data from automated snow weather stations). Most sites have melted at seasonal rates this season. Higher elevation Automated Snow Weather Stations in the Upper Fraser East have melted 35-55% of their seasonal peak SWE. Elsewhere, 40-80% of SWE has melted from higher elevation stations in the North and South Thompson sites, while 30-60% has melted from Upper Columbia stations, 100% from Okanagan/Boundary sites, and 50-60% from sites in the Kootenays.

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

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A table of SWE amounts for individual sites used to calculate SBI values (included in the final pages of this report) best describes specific conditions for each area. Note that in the later part of the snow season, basin indices can be extremely low (due to early melt) or extremely high (due to delayed melt). Comparison of the current snow pack relative to a very low normal snow water equivalent can create seemingly extreme snow basin index values. Caution should thus be exercised when interpreting snow basin indices at this time of the year.

Table 1 - BC Snow Basin Indices – June 15, 2021

Basin	% of Normal (June 1 st value)	Basin	% of Normal (June 1 st value)
Upper Fraser West	N/A (N/A)	Okanagan	N/A (52)
Upper Fraser East	182 (149)	Nicola**	N/A (N/A)
Nechako	146 (130)	Boundary	N/A (48)
Middle Fraser	58 (81)	Similkameen	73 (110)
Lower Thompson*	N/A (N/A)	South Coast	107 (98)
Bridge*	1 (47)	Vancouver Island	56 (87)
Chilcotin*	N/A (N/A)	Central Coast	82 (174)
Quesnel*	123 (111)	Skagit	N/A (N/A)
Lower Fraser	111 (113)	Peace	179 (152)
North Thompson	111 (98)	Skeena-Nass	107 (119)
South Thompson	35 (69)	Stikine	N/A (275)
Upper Columbia	133 (116)	Liard	N/A (N/A)
West Kootenay	78 (83)	Northwest	N/A (N/A)
East Kootenay	110 (80)	Fraser	113 (111)
		British Columbia	105 (107)

*sub-basin of Middle Fraser

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

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Streamflow

Most rivers across the province have near normal flows for mid-June. Very warm temperatures during the first week of June resulted in the highest flows of the season for higher elevation watersheds. The River Forecast Centre issued high streamflow advisories for many regions including Upper Fraser East, Middle Fraser, Lower Fraser, North Thompson, Upper Columbia, East Kootenay, West Kootenay, Similkameen, Central Coast and Peace.

The strong atmospheric river event brought heavy rain to the Northwest of the province, resulting in Flood Watches and Flood Warnings in the Skeena, Nass and Stikine watersheds.

Although most rivers are flowing at near normal volumes for this time of year, there are concerns that a relatively early snowmelt at lower elevations combined with very dry spring conditions for much of the South Interior, South Coast and Vancouver Island could lead to drought and water scarcity issues during the summer.

Outlook

Seasonal flood risk from snowmelt alone has dissipated. Many of the regions that reached high flows over the past couple weeks have receded to normal levels for this time of year. Some rivers in the Northeast are only now peaking from the heavy rainfall event from June 16 to 17 and are vulnerable to flooding if another strong storm system were to occur.

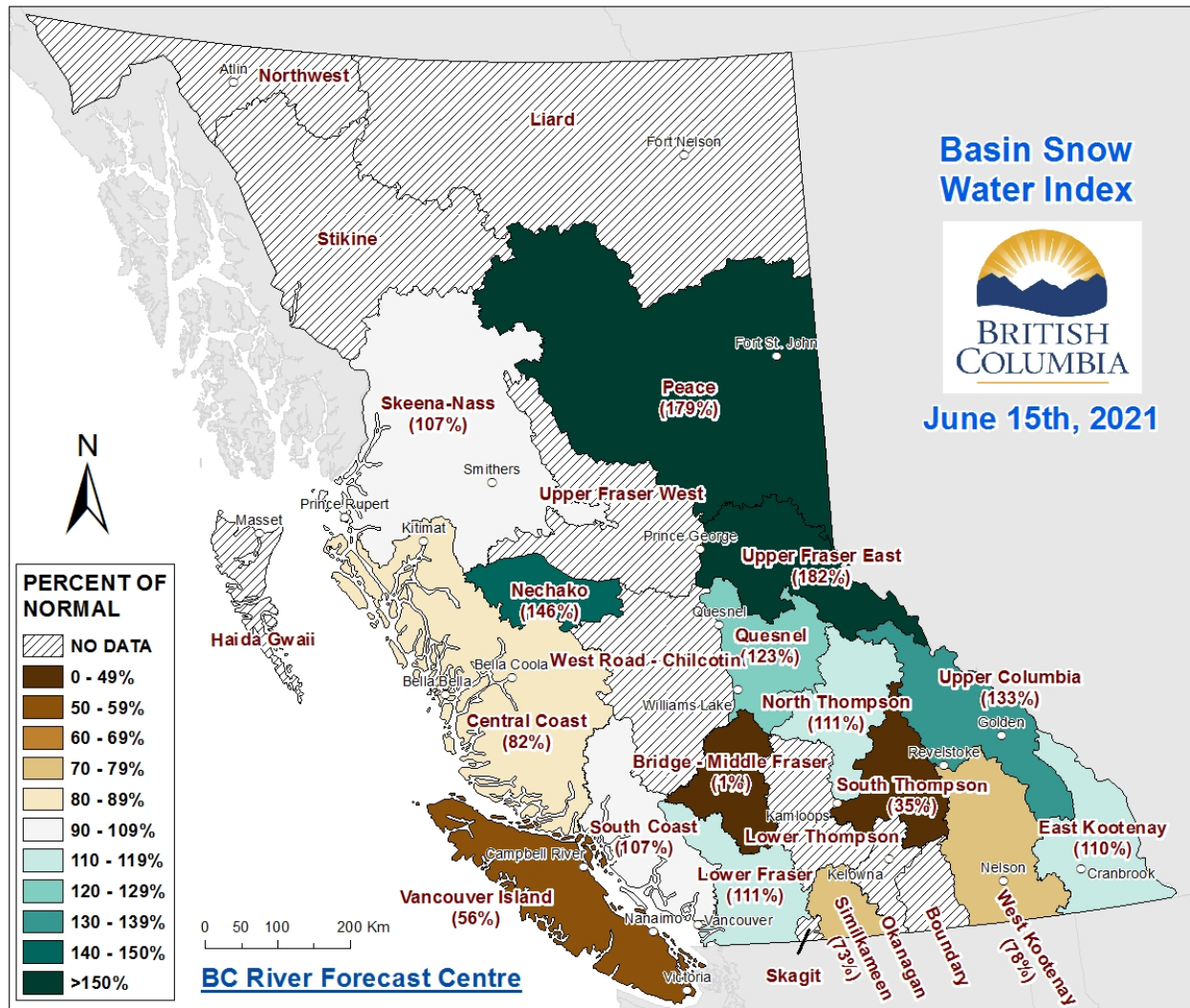
The flood season is not over; instead, the primary risk of flooding has shifted from snowmelt to rain or rain-on-snow weather events, which are more difficult to forecast and offer shorter lead-time notice. The risk of significant precipitation events can continue into July. Areas in the South Interior, Upper Fraser, Chilcotin and Peace have experienced extremely high flow events late in the season due to rainfall over the past decade.

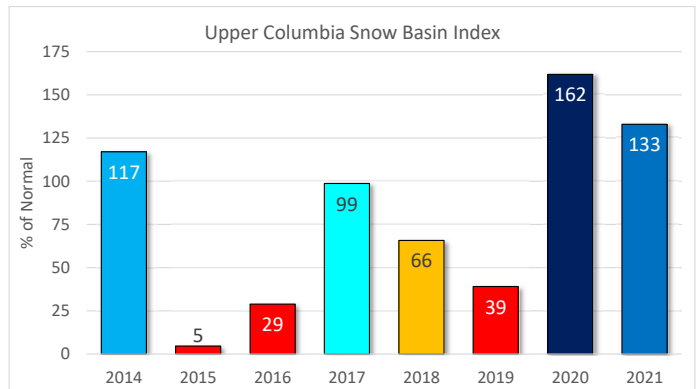
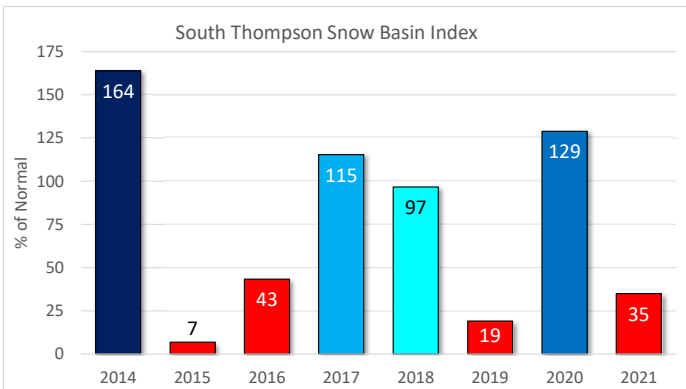
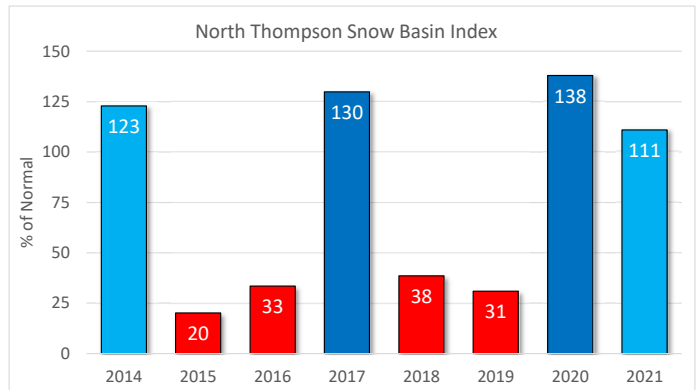
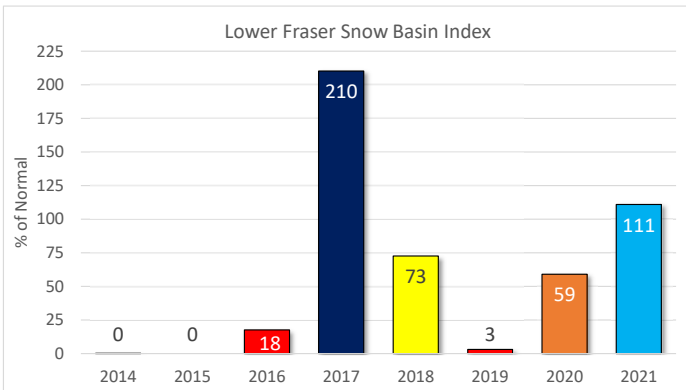
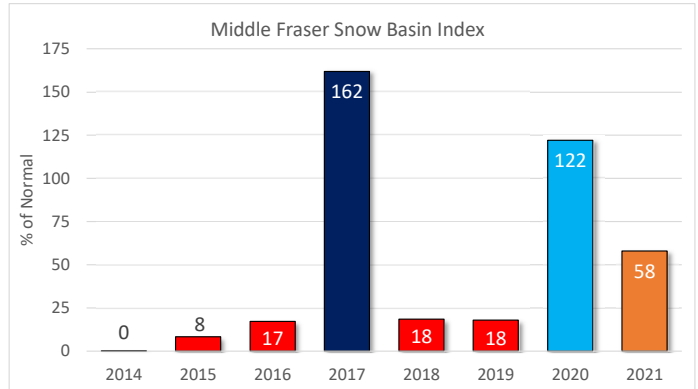
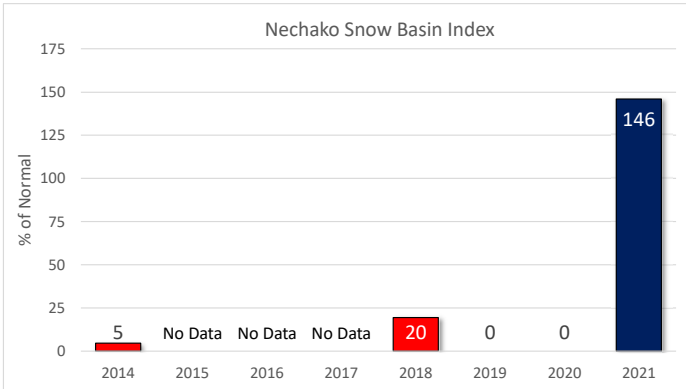
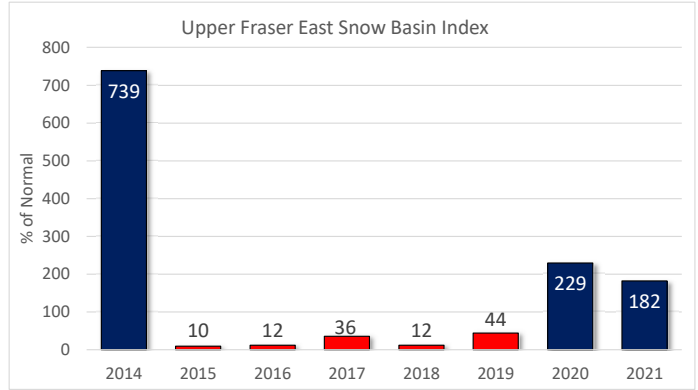
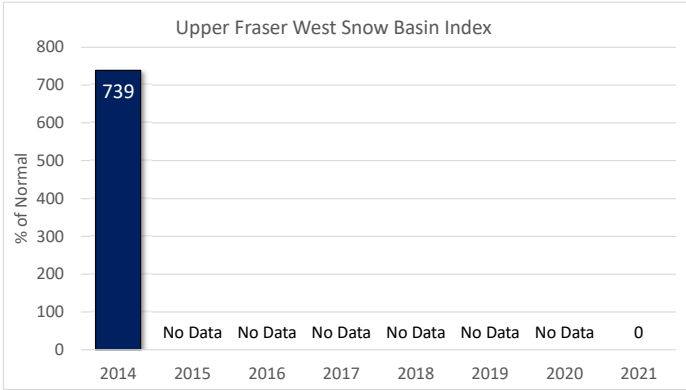
This is the final snow bulletin for the 2021 season; the first snow bulletin of the 2022 snow season will be released in early January 2022. Thank you to our partners for their contributions to these bulletins.

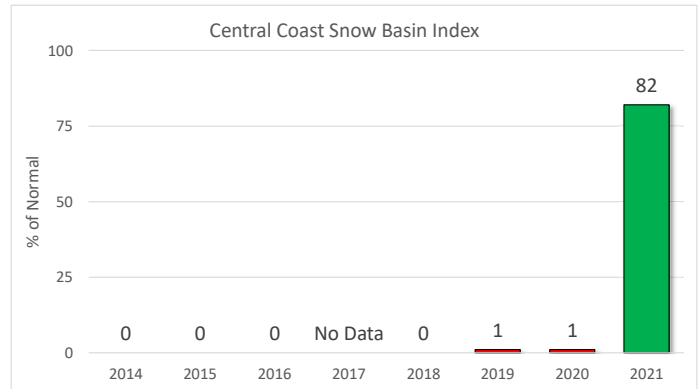
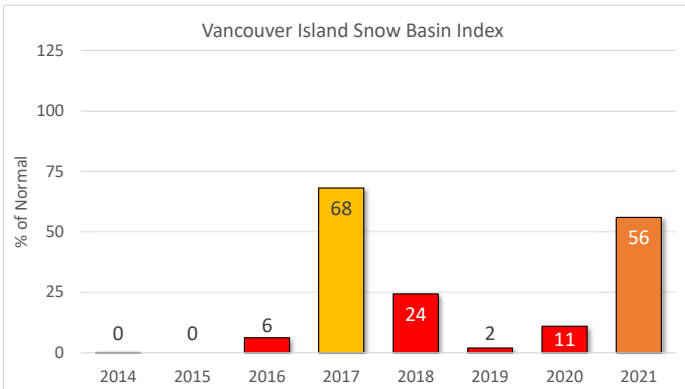
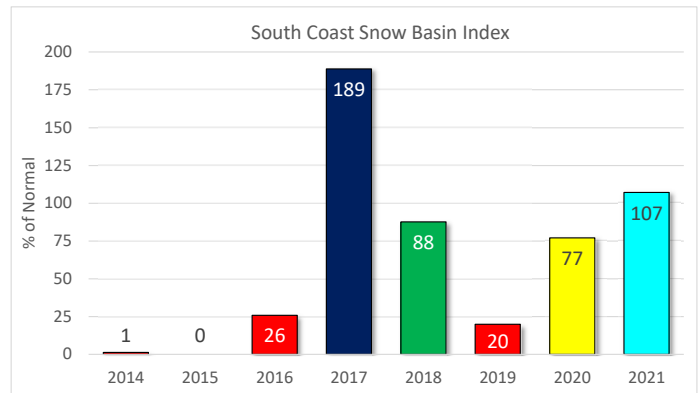
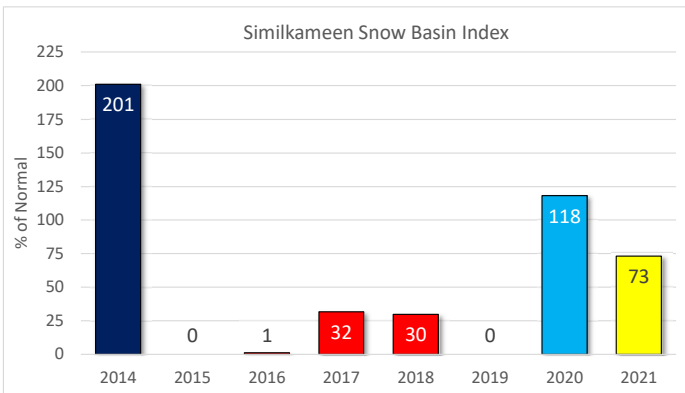
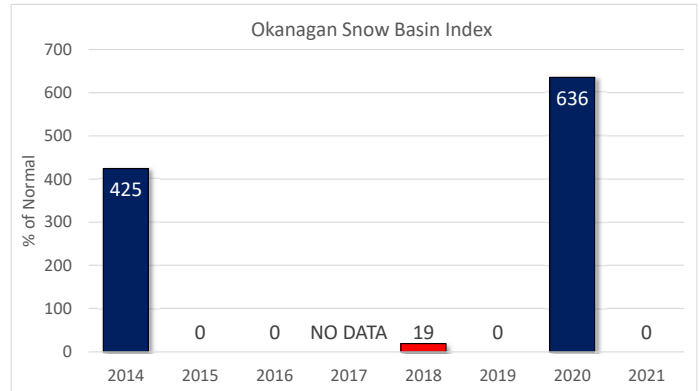
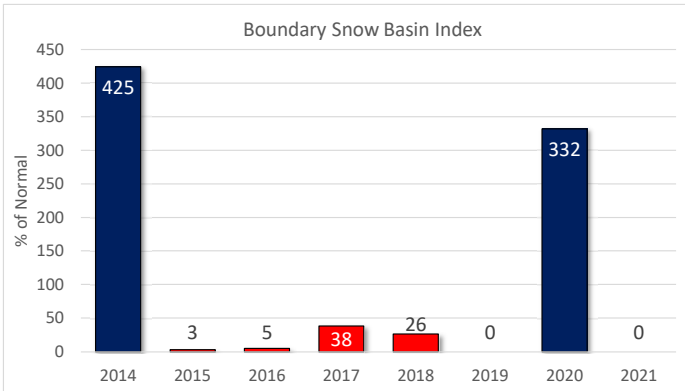
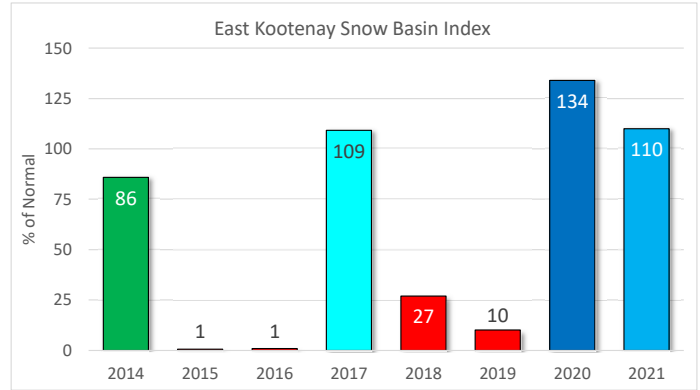
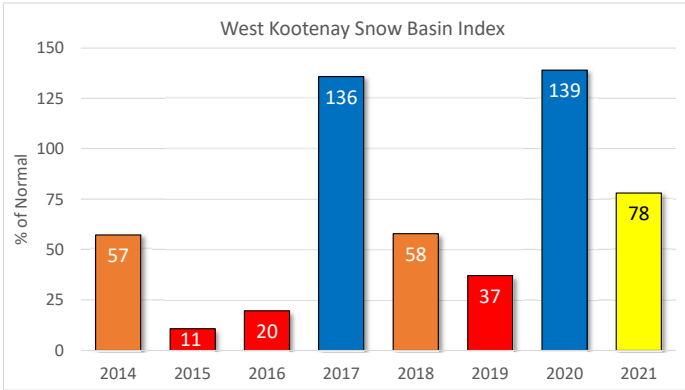
BC River Forecast Centre, June 21st, 2021

Snow Survey and Water Supply Bulletin – June 15th, 2021

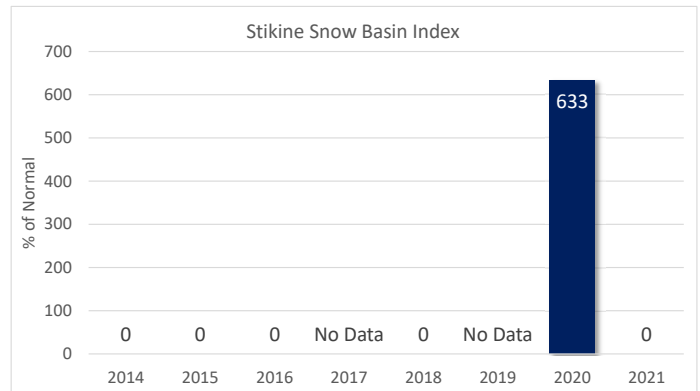
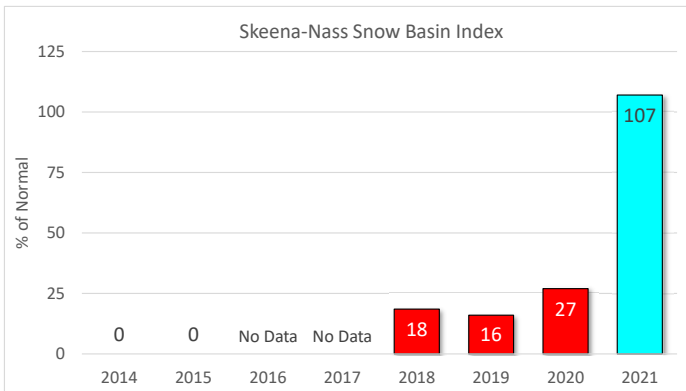
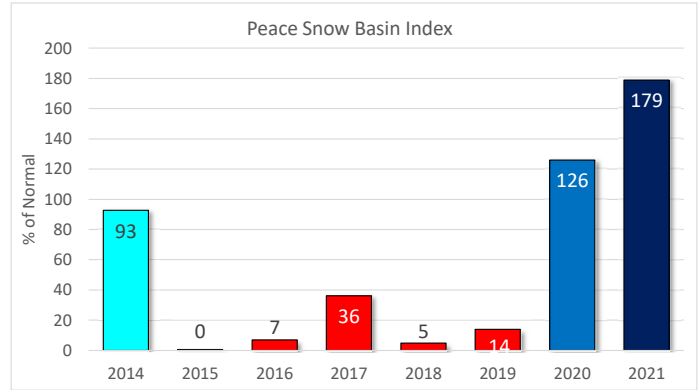
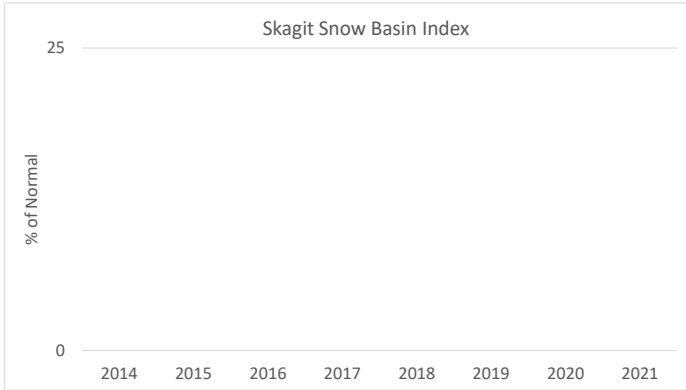
Figure 2: Basin Snow Water Index – June 15th, 2021







Snow Basin Index Graphs - June 15, 2021



June 15, 2021 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			June 15, 2021 Data				June 15, 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 (1991-2020)	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	2021-06-15	31	118	38		91%	69	51	N/A	0	60	574	130	21
1A02P	McBride Upper	1611	2021-06-15		0			0%	N/A	0	0	0	0	159	13	28
1A03P	Barkerville	1520	2021-06-15	2	1	5		N/A	N/A	1	0	0	0	37	0	41
1A05	LONGWORTH (UPPER)	1693	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	254	706	970	N/A	5
1A05P	Longworth Upper	1740	2021-06-15	106	785	74		N/A	N/A	578	145	0	102	578	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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1A11	PACIFIC LAKE	755	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	4
1A14P	Hedrick Lake	1100	2021-06-15		267			236%	86	186	0	0	9	625	113	21
1A15	KNUDSEN LAKE	1602	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	571	699	911	N/A	6
1A15P	Knudsen Lake	1601	2021-06-15	50	384	77		N/A	N/A	346	0	0	51	346	N/A	5
1A17P	Revolution Creek	1690	2021-06-15	83	541	65		200%	84	815	77	0	144	901	270	31
1A19P	Dome Mountain	1774	2021-06-15	118	701	59		190%	93	701	197	0	338	901	368	15
			Average	65	350	53		144%	83							

Basin Index Calculation	Average SWE	325
	Average Normal	179
Upper Fraser East Basin Index - June 15, 2021		182%

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

UPPER FRASER WEST			June 15, 2021 Data				June 15, 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 (1991-2020)	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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1A12P	Kaza Lake	1257	2021-06-15	1	0			N/A	N/A	0	0	0	0	0	N/A	5
1A16	BURNS LAKE	800	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1A23	BIRD CREEK	1180	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
			Average	1	0	N/A		N/A	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Upper Fraser West Basin Index - June 15, 2021		N/A

Stations used in Basin Index:
N/A

NECHAKO			June 15, 2021 Data				June 15, 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 (1991-2020)	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	NS	NS				N/A	0
1B01P	Mount Wells	1490	2021-06-15		98			228%	86		0	0	2	308	43	28
1B02	TAHTSA LAKE	1300	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1B02P	Tahtsa Lake	1300	2021-06-15		885			162%	83		0	0	425	1881	547	27
1B05	SKINS LAKE	890	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1B06	MOUNT SWANNELL	1620	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1B07	NUTLI LAKE	1490	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1B08P	Mt. Pondosy	1400	2021-06-15		0			0%	N/A	0	0	0	0	497	83	24
			Average	N/A	328	N/A		130%	85							

Basin Index Calculation	Average SWE	328
	Average Normal	225
Nechako Basin Index - June 15, 2021		146%

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

LOWER THOMPSON			June 15, 2021 Data					June 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
						%	Code								Normal SWE (mm)	SWE (mm)	
1C01	BROOKMERE	980	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C06	PAVILION	1230	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C09A	HIGHLAND VALLEY	1510	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C25	LAC LE JEUNE (UPPER)	1509	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C29	SHOVELNOSE MOUNTAIN	1450	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C29P	Shovelnose Mountain	1460	2021-06-15	14	0				N/A	N/A	2	0	0		0	N/A	1
1C32	DEADMAN RIVER	1430	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
Average				14	0	N/A			N/A	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Lower Thompson Basin Index - June 15, 2021		N/A

Stations used in Basin Index:
N/A

BRIDGE / LILLOOET			June 15, 2021 Data					June 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
						%	Code								Normal SWE (mm)	SWE (mm)	
1C05	MCGILLIVRAY PASS	1725	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C05P	McGillivray Pass	1718	2021-06-15		0				N/A	N/A	0	0	0	0	0	N/A	3
1C12P	Green Mountain	1780	2021-06-15		2				1%	N/A	2	0	0	97	887	235	27
1C14	BRALORNE	1389	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C14P	Bralorne	1382	2021-06-15	0	0				N/A	N/A	0	0	0	0	0	N/A	3
1C18P	Mission Ridge	1850	2021-06-15		0				0%	N/A	2	0	0	0	387	12	44
1C28	DUFFEY LAKE	1200	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C37	BRALORNE(UPPER)	1981	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C38	DOWNTON LAKE (UPPER)	1887	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C38P	Downton Lake Upper	1829	2021-06-15		210				N/A	N/A	170	28	28	170	513	N/A	5
1C39	BRIDGE GLACIER (LOWER)	1390	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C40	TYAUGHTON CREEK (NORTH)	1947	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C40P	North Tyaughton	1969	2021-06-15		3				N/A	N/A	0	0	0	0	0	N/A	5
Average				0	36				0%	N/A							

Basin Index Calculation	Average SWE	1
	Average Normal	123
Bridge/Lillooet Basin Index - June 15, 2021		1%

Stations used in Basin Index:
1C12P, 1C18P

CHILCOTIN			June 15, 2021 Data					June 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density		SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
						%	Code								Normal SWE (mm)	SWE (mm)	
1C08	NAZKO	1070	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C21	BIG CREEK	1140	NS	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C22	PUNTZI MOUNTAIN	940	NS	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
Chilcotin Basin Index - June 15, 2021		N/A

Stations used in Basin Index:
N/A

QUESNEL			June 15, 2021 Data				June 15, 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 (1991-2020)	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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	140	N/A	5
1C20P	Boss Mountain Mine	1460	2021-06-15		4			N/A	N/A	5	0	0	0	83	7	27
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	631	671	952	N/A	5
1C33A	GRANITE MOUNTAIN	1150	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C41P	Yanks Peak East	1670	2021-06-15	23	267			123%	63	582	79	0	132	698	217	24
			Average	23	136	N/A		123%	63							

Basin Index Calculation	Average SWE	267
	Average Normal	217
Quesnel Basin Index - June 15, 2021		123%

Stations used in Basin Index:
1C41P

MIDDLE FRASER

Basin Index Calculation	Average SWE	90
	Average Normal	155
Middle River Basin Index - June 15, 2021		58%

Stations used in Basin Index:
1C12P, 1C18P, 1C41P

LOWER FRASER			June 15, 2021 Data				June 15, 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 (1991-2020)	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	2021-06-15	77	410	53		104%	63	183	0	0	327	1173	396	20
1D08	STAVE LAKE	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	2040		2040	N/A	1
1D08P	Lamont Creek Upper	1217	2021-06-15		697			N/A	N/A						N/A	0
1D09	WAHLEACH LAKE	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	256	N/A	6
1D09P	Wahleach Lake Upper	1480	2021-06-15		557			122%	62	333	0	0	333	1281	458	27
1D10	NAHATLATCH RIVER	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	697		2256	N/A	2
1D16	DICKSON LAKE	1160	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1D17P	Chilliwack River	1600						N/A	N/A	990	66	0	790	2022	825	25
1D18	DISAPPOINTMENT LAKE	1050	2021-06-17	149	810	54		103%	58			0	648	1880	787	12
1D18P	Disappointment Lake	1050	2021-06-15	127				N/A	N/A	178	0	0	548	1922	609	13
1D19P	Spuzzum Creek	1180	2021-06-15	122	888	73		117%	56	270	0	0	698	2320	762	22
			Average	119	672	60		111%	60							

Basin Index Calculation	Average SWE	666
	Average Normal	601
Lower Fraser Basin Index - June 15, 2021		111%

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

NORTH THOMPSON			June 15, 2021 Data				June 15, 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 (1991-2020)	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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1E02P	Mount Cook	1550	2021-06-15	131	935	71		125%	77	931	436	206	691	1771	746	17
1E03A	TROPHY MOUNTAIN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	800		800	N/A	1
1E07	ADAMS RIVER	1720	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	233	1046	330	21
1E08P	Azure River	1652	2021-06-15	96	578	60		119%	58	584	24	24	405	1500	485	23
1E10P	Kostal Lake	1770	2021-06-15	43	267	62		71%	43	518	5	0	366	1248	375	36
1E14P	Cook Creek	1280	2021-06-15	1	2	20		9%	N/A	89	0	0	0	161	22	12
			Average	68	446	53		81%	59							

Basin Index Calculation	Average SWE	593
	Average Normal	535
North Thompson Basin Index - June 15, 2021		111%

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

SOUTH THOMPSON			June 15, 2021 Data					June 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020	
			Depth (cm)	SWE (mm)											Normal SWE (mm)	Years of Record
1F01A	ABERDEEN LAKE	1310	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1F02	ANGLEMONT	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1F03P	Park Mountain	1890	2021-06-15	21	188	90		41%	22	627	0	0	390	1045	458	36
1F04P	Enderby	1950	2021-06-15	97	411	42		N/A	N/A	728	255	255	646	775	N/A	4
1F04P2	Enderby Tower 2	1950	2021-06-15		643			N/A	N/A	1110	N	872		1110	N/A	2
1F06P	Celista Mountain	1500	2021-06-15	11	33	30		18%	35	194	0	0	169	545	179	14
Average				43	319	54		30%	29							

Basin Index Calculation	Average SWE	111
	Average Normal	318
South Thompson Basin Index - June 15, 2021		35%

Stations used in Basin Index:
1F03P, 1F06P

FRASER RIVER

Basin Index Calculation	Average SWE	377
	Average Normal	334
Fraser River Basin Index - June 15, 2021		113%

Stations used in Basin Index:
1A01P, 1A02P, 1A14P, 1A17P, 1A19P, 1B01P, 1B02P, 1B08P, 1C12P, 1C18P, 1C41P, 1D06P, 1D09P, 1D18, 1D19P, 1E02P, 1E08P, 1E10P, 1F03P, 1F06P

UPPER COLUMBIA			June 15, 2021 Data					June 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020	
			Depth (cm)	SWE (mm)											Normal SWE (mm)	Years of Record
2A02	GLACIER	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	47	462	N/A	24
2A03A	FIELD	1285	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A06P	Mount Revelstoke	1850	2021-06-15		698			110%	66	800	222	0	607	1737	636	27
2A07	KICKING HORSE	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	30	N/A	4
2A11	BEAVERFOOT	1890	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A14	MOUNT ABBOT	2010	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	1016	1979	N/A	14
2A16	GOLDSTREAM	1920	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A17	FIDELITY MOUNTAIN	1870	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	875	1603	N/A	25
2A18	KEYSTONE CREEK	1890	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A18P	Keystone Creek	1840	2021-06-15		424			N/A	N/A	547	97	3	192	594	N/A	6
2A19	VERMONT CREEK	1520	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A21P	Molson Creek	1935	2021-06-15		836			160%	85	763	277	0	551	1136	521	38
2A22	SUNBEAM LAKE	2010	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A23	BUSH RIVER	1920	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A25	KIRBYVILLE LAKE	1750	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A27	DOWNIE SLIDE (LOWER)	980	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
2A29	DOWNIE SLIDE (UPPER)	1630	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	523		540	N/A	2
2A30P	Colpitt Creek	2131	2021-06-15		476			N/A	95	588	105	0	0	588	N/A	12
2A31P	Caribou Creek Upper	2201	2021-06-15		577			N/A	N/A	601	113	0	234	601	N/A	6
2A32P	Wildcat Creek	2122	2021-06-15		366			N/A	N/A	531	166	0	172	531	N/A	6
Average				N/A	563	N/A		135%	82							

Basin Index Calculation	Average SWE	767
	Average Normal	579
Upper Columbia Basin Index - June 15, 2021		133%

Stations used in Basin Index:
2A06P, 2A21P

WEST KOOTENAY			June 15, 2021 Data					June 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
			Depth (cm)	SWE (mm)											Normal SWE (mm)		
2B02A	FARRON	1220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2B05	WHATSHAN (UPPER)	1525	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	18		18	N/A	1	
2B06P	Barnes Creek	1620	2021-06-15		3			N/A	N/A	1	0	0	0	210	15	28	
2B07	KOCH CREEK	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	630		630	N/A	1	
2B08P	St. Leon Creek	1800	2021-06-15		611			121%	70	988	144	0	450	1336	505	27	
2B09	RECORD MOUNTAIN	1890	2021-06-13	0	0			0%	N/A	0	0	0	9	949	109	32	
2D02	FERGUSON	880	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	61	N/A	3	
2D03	SANDON	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2D04	NELSON	930	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2D05	GRAY CREEK (LOWER)	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	282	N/A	19	
2D06	CHAR CREEK	1310	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	20	106	N/A	7	
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	2021-06-15	0	6			N/A	N/A	0		0		0	N/A	1	
2D08P	East Creek	2030	2021-06-15		397			89%	50	472	237	0	400	1135	448	37	
2D09	MOUNT TEMPLEMAN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2D10	GRAY CREEK (UPPER)	1940	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	144	825	361	16	
2D10P	GRAY CREEK (UPPER)	1930	2021-06-15	0				N/A	N/A						N/A	0	
2D14P	Redfish Creek	2104	2021-06-15	68	536	79		58%	17	1232	292	292	885	1702	925	19	
Average				23	222	79		67%	46								

Basin Index Calculation	Average SWE	386
	Average Normal	497
West Kootenay Basin Index - June 15, 2021		78%

Stations used in Basin Index:
2B08P, 2B09, 2D08P, 2D14P

EAST KOOTENAY			June 15, 2021 Data					June 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
			Depth (cm)	SWE (mm)											Normal SWE (mm)		
2C01	SINCLAIR PASS	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2C04	SULLIVAN MINE	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1	
2C09Q	Morrissey Ridge	1860	2021-06-15		0			0%	N/A	0	0	0	0	454	40	36	
2C10P	Moyie Mountain	1930	2021-06-15	2	5	25		125%	N/A	0	0	0	0	59	4	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	2021-06-15		375			110%	52	494	31	0	373	821	341	26	
2C15	MOUNT ASSINIBOINE	2230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2C16	MOUNT JOFFRE	1750	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2C17	THUNDER CREEK	2010	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
Average				2	127	N/A		78%	52								

Basin Index Calculation	Average SWE	375
	Average Normal	341
East Kootenay Basin Index - June 15, 2021		110%

Stations used in Basin Index:
2C14P

BOUNDARY			June 15, 2021 Data					June 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
			Depth (cm)	SWE (mm)											Normal SWE (mm)		
2E01	MONASHEE PASS	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	2	
2E02	CARMI	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	

2E03	BIG WHITE MOUNTAIN	1680	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	356	35	21
2E07P	Grano Creek	1860	2021-06-15	0	6			6%	N/A	279	0	0	15	502	96	23
Average				0	6	N/A		6%	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Boundary Basin Index - June 15, 2021		N/A

Stations used in Basin Index:
N/A

OKANAGAN			June 15, 2021 Data					June 15, 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2F01A	TROUT CREEK (West)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F01AP	Trout Creek West	1420	2021-06-15	0	1			N/A	N/A	9	0	0	0	9	N/A	3
2F02	SUMMERLAND RESERVOIR	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
2F03	MCCULLOCH	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F04	GRAYSTOKE LAKE	1840	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F05P	Mission Creek	1780	2021-06-15	7	0			0%	N/A	355	0	0	0	383	85	50
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	0		0	N/A	1
2F08P	Greyback Reservoir	1550	2021-06-15		1			N/A	N/A	0	0	0	0	0	N/A	4
2F09	WHITEROCKS MOUNTAIN	1830	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	533	21	20
2F10	Silver Star Mountain	1840	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	109	747	210	33
2F10P	Silver Star Mountain	1839	2021-06-15		14			N/A	N/A	496	0	0	445	496	N/A	4
2F11	ISINTOK LAKE	1680	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	3
2F12	MOUNT KOBAN	1810	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	10	301	N/A	7
2F13	ESPERON CR (UPPER)	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	104		104	N/A	1
2F14	ESPERON CR (MIDDLE)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
2F18P	Brenda Mine	1460	2021-06-15		2			227%	N/A	1	0	0	0	8	1	25
2F19	OYAMA LAKE	1340	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F19P	OYAMA LAKE	1360	2021-06-15		0			N/A	N/A						N/A	0
2F20	VASEUX CREEK	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F21	BOULEAU LAKE	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F23	MACDONALD LAKE	1740	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2F24	ISLAHT LAKE	1480	NS	NS	NS	NS	NS	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				4	3	N/A		114%	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Okanagan Basin Index - June 15, 2021		N/A

Stations used in Basin Index:
N/A

SIMILKAMEEN			June 15, 2021 Data					June 15, 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2G03P	Blackwall Peak	1940	2021-06-15	32	161	50		73%	58	257	0	0	69	1031	220	53
2G04	LOST HORSE MOUNTAIN	1920	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	178	N/A	13
2G05	MISSEZULA MOUNTAIN	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2G06	HAMILTON HILL	1490	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
Average				32	161	50		73%	58							

Basin Index Calculation	Average SWE	161
	Average Normal	220
Similkameen Basin Index - June 15, 2021		73%

Stations used in Basin Index:
2G03P

SOUTH COAST			June 15, 2021 Data					June 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
			Depth (cm)	SWE (mm)											Normal SWE (mm)		
3A01	GROUSE MOUNTAIN	1100	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
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					N/A	0
3A09P	Palisade Lake	900	2021-06-15	1.1	7	64		N/A	N/A	0	0	0	0	0	0	N/A	3
3A10	DOG MOUNTAIN	1080	2021-06-16	94	528	56		120%	64	218	0	0	285	2088	439	33	
3A19	ORCHID LAKE	1190	2021-06-17	176	952	54		118%	60	N	175	0	838	1910	807	36	
3A20	CALLAGHAN CREEK	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0		N/A	8
3A20P	Callaghan	1017	2021-06-15	10.5	7	7		N/A	N/A	23	88	23		88		N/A	2
3A22P	Nostetuko River	1500	2021-06-15	2	3	15		13%	N/A	2	0	0	0	273	24	30	
3A24P	Mosley Creek Upper	1650	2021-06-15	8	0	0		N/A	N/A	0	0	0	0	2	0	32	
3A25P	Squamish River Upper	1340	2021-06-15	116	698	60		91%	49	707	272	0	707	2505	764	27	
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	2021-06-15	220	812	37		N/A	N/A	868	357	357	868	1043		N/A	3
			Average	78	376	37		86%	58								

Basin Index Calculation	Average SWE	545
	Average Normal	508
South Coast Basin Index - June 15, 2021		107%

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

VANCOUVER ISLAND			June 15, 2021 Data					June 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
			Depth (cm)	SWE (mm)											Normal SWE (mm)		
3B01	FORBIDDEN PLATEAU	1100	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	249	942	2149		N/A	10
3B02A	MOUNT COKELY	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
3B04	ELK RIVER	270	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
3B10	UPPER THELWOOD LAKE	990	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	551	1252	2413		N/A	4
3B17P	Wolf River Upper	1490	2021-06-15		295			52%	45	107	7	0	322	2400	571	32	
3B18	WOLF RIVER (MIDDLE)	990	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
3B19	WOLF RIVER (LOWER)	640	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
3B23P	Jump Creek	1160	2021-06-15	55	190	35		63%	71	0	0	0	8	2700	300	25	
3B24P	Heather Mountain Upper	1190	2021-06-15	83	699	84		N/A	N/A	196	0	0	196	1296		N/A	5
3B26P	Mount Arrowsmith	1465	2021-06-15	66	365	55		N/A	N/A	4	0	0	4	301		N/A	3
			Average	68	387	58		57%	58								

Basin Index Calculation	Average SWE	243
	Average Normal	436
Vancouver Island Basin Index - June 15, 2021		56%

Stations used in Basin Index:
3B17P, 3B23P

CENTRAL COAST			June 15, 2021 Data					June 15, 2021 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1991-2020)	Percentile of Historic Record	2020 SWE (mm)	2019 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1991-2020		Years of Record
			Depth (cm)	SWE (mm)											Normal SWE (mm)		
3C07	WEDEENE RIVER SOUTH	220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					N/A	0
3C08P	Burnt Bridge Creek	1330	2021-06-15	10	76	76		82%	79	1	0	0	0	720	92	22	
			Average	10	76	76		82%	79								

Basin Index Calculation	Average SWE	76
	Average Normal	92
Central Coast Basin Index - June 15, 2021		82%

Stations used in Basin Index:
3C08P

SKAGIT			June 15, 2021 Data					June 15, 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3D01C	SUMALLO RIVER WEST	790	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3D02	LIGHTNING LAKE	1220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3D03A	KLESILKWA	1175	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
Skagit Basin Index - June 15, 2021		N/A

Stations used in Basin Index:
N/A

PEACE			June 15, 2021 Data					June 15, 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4A02P	Pine Pass	1400	2021-06-15	130	669	51		179%	84	434	37	0	281	1114	374	28
4A03	WARE (UPPER)	1575	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A03P	Ware Upper	1565	2021-06-15	0	0			N/A	N/A	0	0	0	0	0	N/A	4
4A04	WARE (LOWER)	970	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A04P	Ware Lower	971	2021-06-15	0	1			N/A	N/A	0	0	0	0	0	N/A	4
4A05	GERMANSEN (UPPER)	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A06	TUTIZZI LAKE	1045	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A07	LADY LAURIER LAKE	1440	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A09	PULPIT LAKE	1335	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A09P	Pulpit Lake	1311	2021-06-15		9			N/A	N/A	0	0	0	0	2	0	30
4A10	FREDRICKSON LAKE	1325	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A11	TRYGVE LAKE	1410	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A12	TSAYDAYCHI LAKE	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A12P	Tsaydaychi Lake	1195	2021-06-15		0			N/A	N/A						N/A	0
4A13	PHILIP LAKE	1035	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A13P	Philip Lake	1028	2021-06-15		3			N/A	N/A	0	N/A				N/A	1
4A16	MORFEE MOUNTAIN	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	592		592	N/A	1
4A18	MOUNT SHEBA	1490	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	922		922	N/A	1
4A18P	MOUNT SHEBA	1484	2021-06-15	110	767	70		N/A	N/A	814	380	380		814	N/A	2
4A20	MONKMAN CREEK	1570	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	599		599	N/A	1
4A20P	Monkman Creek	1570	2021-06-15		5			N/A	N/A	69	0	0		69	N/A	2
4A21	MOUNT STEARNS	1505	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A25	FORT ST. JOHN A	690	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A27P	Kwadacha North	1554	2021-06-15	0	0			N/A	N/A	0	0	0	0	225	13	29
4A30P	Aiken Lake	1050	2021-06-15	0	0			N/A	N/A	0	0	0	0	14	2	33
4A31P	Crying Girl Prairie	1358	2021-06-15		0			N/A	N/A	0	0	0	0	1	N/A	6
4A33P	Muskwa-Kechika	1196	2021-06-15		0			N/A	N/A	0	0	0	0	0	N/A	5
4A34P	Dowling Creek	1456	2021-06-15		47			N/A	N/A						N/A	0
4A36P	Parsnip Upper	790	2021-06-15	15	5	3		N/A	N/A	0	0	0		0	N/A	2
4A37P	McQue Terrace	1200	2021-06-15		0			N/A	N/A	0		0		0	N/A	1
Average				36	100	42		179%	84							

Basin Index Calculation	Average SWE	669
	Average Normal	374
Peace Basin Index - June 15, 2021		179%

Stations used in Basin Index:
4A02P

SKEENA-NASS			June 15, 2021 Data					June 15, 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4B01	KIDPRICE LAKE	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B02	JOHANSON LAKE	1420	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B03A	HUDSON BAY MTN.	1480	2021-06-18	11	52	47		58%	60	0	0	0	27	673	90	37
4B04	CHAPMAN LAKE	1460	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
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	376	681	742	N/A	5
4B10	NINGUNSAW PASS	690	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B11A	BEAR PASS	460	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B13A	TERRACE AIRPORT	180	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B14	EQUITY MINE	1420	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B15	LU LAKE	1300	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B15P	Lu Lake	1300	2021-06-15	7	4	6		157%	N/A	4	0	0	0	14	3	23
4B16P	Shedin Creek	1480	2021-06-15	44	244	55		96%	60	11	0	0	100	905	254	23
4B17P	Tsai Creek	1360	2021-06-15	114	653	57		120%	67	271	134	0	384	1778	545	23
4B18P	Cedar-Kiteen	885	2021-06-15		5			35%	N/A	5	0	0	1	125	14	20
			Average	44	192	41		93%	62							

Basin Index Calculation	Average SWE	316
	Average Normal	297
Skeena-Nass Basin Index - June 15, 2021		107%

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

LIARD			June 15, 2021 Data					June 15, 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4C01	SIKANNI LAKE	1385	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4C01P	Sikanni Lake	1387	2021-06-15	0	4			N/A	N/A		0	0	0	0	N/A	3
4C02	SUMMIT LAKE	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4C03	DEASE LAKE	820	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4C05	FORT NELSON AIRPORT	380	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
			Average	0	4	N/A		N/A	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Liard Basin Index - June 15, 2021		N/A

Stations used in Basin Index:
N/A

STIKINE			June 15, 2021 Data					June 15, 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 (1991-2020)	Percentile of Historic Record	2020	2019	Minimum	Median	Maximum	1991-2020	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4D02	ISKUT	1000	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4D10P	Tumeka Creek	1220	2021-06-15		140			1861%	100	36	0	0	0	67	8	21
4D11P	Kinaskan Lake	1020	2021-06-15	2	0			N/A	N/A	0	0	0	0	15	1	25
			Average	N/A	70	N/A		1861%	100							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Stikine Basin Index - June 15, 2021		N/A

Stations used in Basin Index:
N/A

NORTHWEST			June 15, 2021 Data					June 15, 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 (1991-2020)	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	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Northwest Basin Index - June 15, 2021		N/A

Stations used in Basin Index:
N/A

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	380
	Average Normal	362
British Columbia Basin Index - June 15, 2021		105%

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