

Snow Survey and Water Supply Bulletin – January 1st, 2020

The January 1st snow survey is now complete. Data from 68 manual snow courses and 83 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

Fall and early winter weather had been variable across the province. October featured persistent cold weather, with temperatures -0.5 to -3.5 °C below normal across most of the province. Eastern British Columbia in particular was far below normal. With the dominance of arctic air masses over the province, precipitation was also generally below normal.

In November, temperature patterns switched, bringing an extended period of warmer than normal conditions across most of the western portion of the province and the north-east ($+0.5$ to $+4$ °C above normal), and closer to normal temperatures towards the south-east. Precipitation was well below normal in south-west BC (typically 30-70% of normal), above-normal in the north and north-east, and slightly below normal for other areas of the province.

Through December, minimum daily temperatures were well-above normal through south-central, south-east, north-west, and north-east BC, and slightly above normal in other areas. Precipitation was above normal through east-central BC and areas of the Interior Plateau, and below normal through areas of south-west BC.

Since mid-December, BC has transitioned to a more persistent storm period, with several frontal and atmospheric river systems impacting the province and bringing heavy precipitation to most areas of the province. Temperatures have been varied during these storm events, which have generally brought increased snow accumulation at mid and high elevations, and heavy rain to lower elevations. These patterns have persisted into early January. With a manual snow survey window for data collection of 7 days before or after January 1st, surveys conducted at the early period of the window may not have fully captured the rapidly changing snowpack conditions over the past couple of weeks; overall snowpack values across the province have been trending upward since January 1st.

Snowpack

Snow basin indices for January 1st, 2020 range from a low of 37% of normal in the Upper Fraser – West to a high of 121% in the Boundary (Table 1 and Figure 1). Generally, the province has a below normal snow pack for January 1st, with the average of all snow measurements across the province at 84%. However, the provincial snowpack is not evenly distributed, with well-below to below normal snowpacks (50-70%) through most of the Coast Mountains and Vancouver Island. Regions including the South Coast, Lower Fraser,

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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Middle Fraser, Central Coast, Nechako, Skeena-Nass, and Vancouver Island are all at below normal snowpack (60-80% of normal). Above normal snowpack (110-120%) is present in the Upper Fraser-East, North Thompson, South Thompson, West Kootenay and Boundary. Of note in the Upper Fraser – West is that the basin index for January 1st is based on a single survey location that is at a record low, which may not be indicative of conditions across the entire watershed.

Early season snowpack was slow to develop this year as the result of the dry October and the warm (and in some areas dry) November conditions. December 1st snowpack observed at automated snow weather stations across the province was 74% of average. Rapid snow accumulation has occurred since mid-December in the wake of numerous storm events that have impacted the province. This is the period where most of this season's snow has accumulated, particularly in Coastal BC. In most of the Interior Ranges of the province, storms over the past 3 weeks have led to the on-going accumulation of a snowpack that is slightly above normal for this time of year.

Table 1 - BC Snow Basin Indices – January 1, 2020

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	37	Boundary	121
Upper Fraser East	116	Similkameen	75
Nechako	50	South Coast	57
Middle Fraser	66	Vancouver Island	53
Lower Fraser	51	Central Coast	60
North Thompson	112	Skagit	NA
South Thompson	117	Peace	109
Upper Columbia	100	Skeena-Nass	66
West Kootenay	111	Stikine	95
East Kootenay	97	Liard	105
Okanagan	91	Fraser	74
		British Columbia	84

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Outlook

Neutral El Niño Southern Oscillation (ENSO) conditions have been in place since the summer of 2019, with near-normal or slightly-above normal ($<0.5^{\circ}\text{C}$) temperature anomalies along the equatorial Pacific Ocean region. Warm temperature anomalies have been present in the northern Pacific region through the fall 2019 period. While this pattern is similar in terms of surface conditions during the 2014-16 period (e.g. the “Blob”), analysis by the Climate Prediction Centre (CPC) suggests that the depth of the current warm water pattern is much shallower than during the previous warm anomaly event. A more active period of Pacific storms in late-December and early-January has led to mixing of surface water in the north Pacific, and temperature anomalies have weakened over this period.

Forecasts from the CPC are indicating a high likelihood (65-70% chance) of continued neutral ENSO conditions through the remainder of the winter and into the spring. Neutral ENSO conditions generally have a less predictable association with snow pack conditions in BC, in comparison to El Niño and La Niña conditions. In the last 10-15 years, neutral ENSO winters have been less common, with the last event occurring over the 2012-13 and 2013-14 seasons. Historically, provincial snow pack (i.e. peak accumulation as of April 1st) in neutral ENSO years is usually near normal, with a trend of below-normal in western parts of the province, and above-normal towards the east. Current January 1st, 2020 conditions are generally following this pattern, with a more pronounced lower-than-normal snowpack on the coast.

Seasonal weather forecasts from late December from Environment and Climate Change Canada are indicating an increased likelihood of cooler than normal temperatures for January through March for southern BC, and no strong probability of a particular temperature pattern for northern BC. Given the current ENSO neutral conditions present, it is reasonable to expect increased uncertainty over seasonal weather this winter and spring.

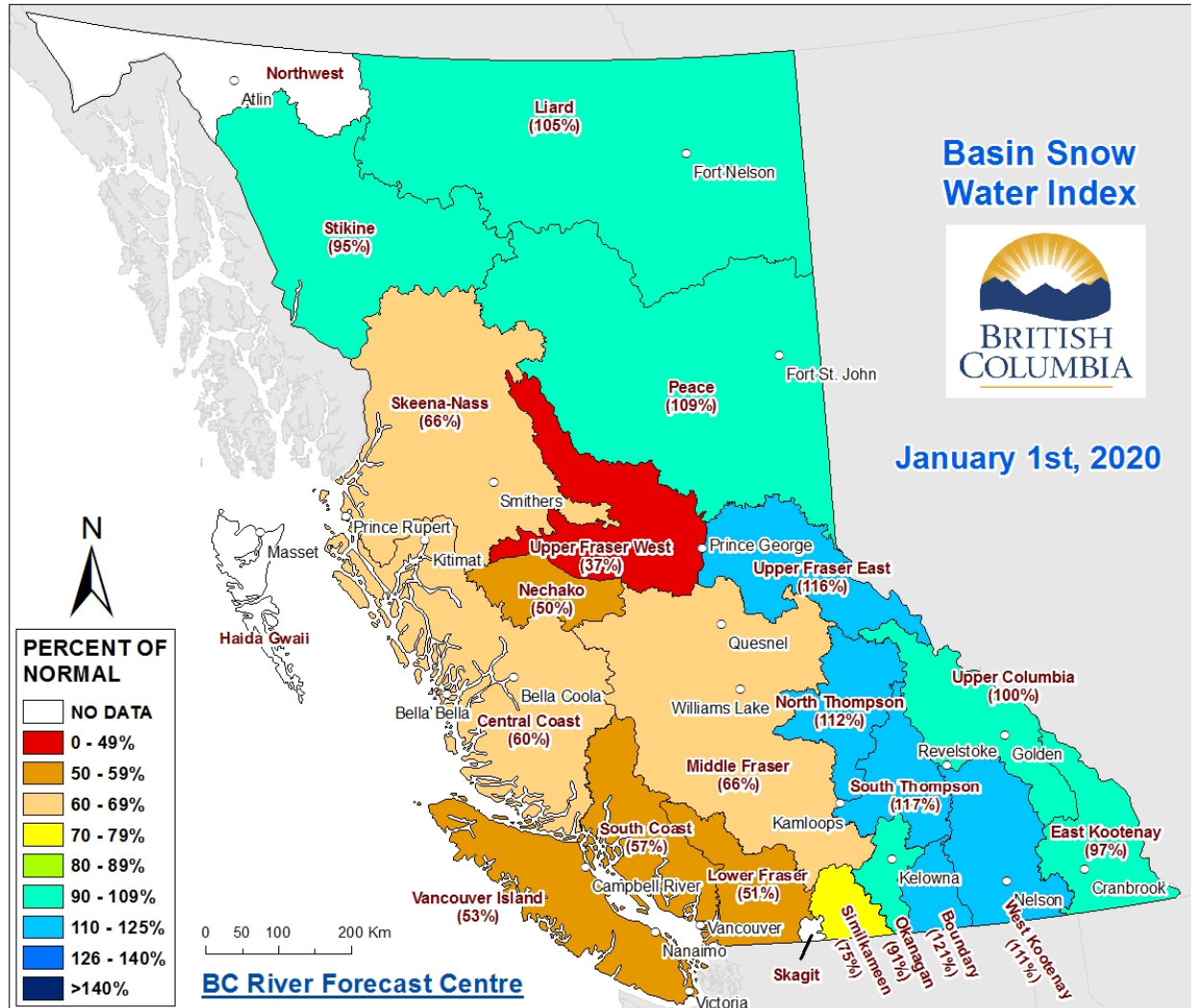
By early January, nearly half of the annual BC snowpack has typically accumulated. At this early stage in the season snow accumulation is extremely variable across the province. High snowpacks in the eastern mountains of the province are being offset by low snowpack in the Coast Mountains and Vancouver Island, such that the overall snowpack across the province is considered below normal. However, with three or more months left for snow accumulation, seasonal snowpacks can still change significantly. However, trends that are currently present would be expected to persist if weather patterns are seasonal over the remainder of the winter and early spring.

The River Forecast Centre will continue to monitor snowpack conditions and will provide an updated seasonal flood risk forecast in the February 1st, 2020 bulletin, which is scheduled for release on February 7th.

BC River Forecast Centre
January 8, 2020

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Figure 1: Basin Snow Water Index – January 1st, 2020



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January 2020 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data					
Station ID	Name	Elevation (masl)	Snow		Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	
			Depth (cm)	SWE (mm)					SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record	
1A01P	Yellowhead Lake	1860	2020-01-01	94	234	25	79%	23	N/A	350	153	420	296	21
1A02P	McBride Upper	1611	2020-01-01	105	274	26	138%	81	219	228	112	383	198	28
1A03P	Barkerville	1520	2020-01-01	98	192	20	125%	86	173	121	38	312	154	41
1A05	LONGWORTH (UPPER)	1693	N	N	N	N	N/A	N/A	N	N	114	700	411	25
1A05P	Longworth Upper	1740	2020-01-01	203	475	23	N/A	N/A	485	347	192	485	N/A	3
1A06A	HANSARD	608	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0
1A10	PRINCE GEORGE A	689	2020-01-03	43	76	18	129%	65	86	45	0	156	59	55
1A11	PACIFIC LAKE	755	2020-01-06	139	299	22	99%	57	N	358	56	721	303	34
1A14P	Hedrick Lake	1100	2020-01-01	148	357	24	103%	47	359	330	150	718	348	20
1A15	KNUDSEN LAKE	1602	N	N	N	N	N/A	N/A	N	N	125	898	427	23
1A15P	Knudsen Lake	1601	2020-01-01	173	349	20	N/A	N/A	270	363	270	363	N/A	3
1A17P	Revolution Creek	1690	2020-01-01	197	568	29	151%	90	399	373	183	814	377	31
1A19P	Dome Mountain	1774	2020-01-01	154	435	28	117%	84	337	248	215	575	372	12
			Average	135	326	23	117%	67						

Basin Index Calculation	Average SWE	304
	Average Normal	263
Upper Fraser East Basin Index - January 2020		116%

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

UPPER FRASER WEST			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data					
Station ID	Name	Elevation (masl)	Snow		Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	
			Depth (cm)	SWE (mm)					SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record	
1A12	KAZA LAKE	1250	N	N	N	N	N/A	N/A	N	N	92	371	182	31
1A12P	Kaza Lake	1257	2020-01-01		226		N/A	N/A	209	174	116	209	N/A	3
1A16	BURNS LAKE	800	2020-01-02	19	26	14	37%	0	68	74	26	192	71	42
1A23	BIRD CREEK	1180	2020-01-02	38	68	18	N/A	N/A	NS	NS	72	174	N/A	3
			Average	29	107	16	37%	0						

Basin Index Calculation	Average SWE	26
	Average Normal	71
Upper Fraser West Basin Index - January 2020		37%

Stations used in Basin Index:
1A16

NECHAKO			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data					
Station ID	Name	Elevation (masl)	Snow		Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	
			Depth (cm)	SWE (mm)					SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record	
1B01	MOUNT WELLS	1490	2020-01-06	114	227	20	N/A	N/A	NS	NS	210	465	N/A	3
1B01P	Mount Wells	1490	2020-01-01		213		67%	11	276	290	146	516	316	26
1B02	TAHTSA LAKE	1300	2020-01-02	122	295	24	N/A	N/A	NS	NS	444	1084	N/A	3
1B02P	Tahtsa Lake	1300	2020-01-01		311		45%	2	572	617	258	1168	693	26
1B05	SKINS LAKE	890	2020-01-06	34	53	16	98%	52	53	72	0	127	54	34
1B06	MOUNT SWANNELL	1620	2020-01-02	63	132	21	N/A	N/A	NS	NS	134	247	N/A	3
1B07	NUTLI LAKE	1490	2020-01-02	68	130	19	N/A	N/A	NS	NS	173	527	N/A	3
1B08P	Mt. Pondosy	1400	2020-01-01		184		41%	0	355	340	184	687	448	24
			Average	80	193	20	63%	16						

Basin Index Calculation	Average SWE	190
	Average Normal	378
Nechako Basin Index - January 2020		50%

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

*record low
*record low

*record low
*record low
*record low

MIDDLE FRASER			January 2020 Data					January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data					
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Maximum SWE (mm)	1981-2010		
			Depth (cm)	SWE (mm)	Density %	Code							Normal SWE (mm)	Years of Record	
1C01	BROOKMERE	980	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	22	170	97	14
1C05	MCGILLIVRAY PASS	1725	N	N	N	N	N	N/A	N/A	273	257	140	458	274	22
1C05P	McGillivray Pass	1718	2020-01-01		129			N/A	N/A	285	271	271	285	N/A	2
1C06	PAVILION	1230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	80	32	10
1C08	NAZKO	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	92	41	30
1C09A	HIGHLAND VALLEY	1510	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	12	104	51	11
1C12P	Green Mountain	1780	2020-01-01		90			19%	0	492	392	184	756	469	26
1C13A	HORSEFLY MOUNTAIN	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	N/A	N/A	N/A	0
1C14	BRALORNE	1389	2020-01-01		12	18	15	22%	0	72	90	33	158	81	23
1C14P	Bralorne	1382	2020-01-01		36			N/A	N/A	110	119	110	119	N/A	2
1C17	MOUNT TIMOTHY	1660	2020-01-02		68	126	19	79%	33	68	N	38	350	160	21
1C18P	Mission Ridge	1850	2020-01-01		157			60%	6	210	280	149	659	261	43
1C19	GNAWED MOUNTAIN	1580	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	24	93	53	5
1C20P	Boss Mountain Mine	1460	2020-01-01		141	255	18	79%	36	321	169	55	495	322	26
1C21	BIG CREEK	1140	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	10	68	32	29
1C22	PUNTZI MOUNTAIN	940	NS	NS	NS	NS	NS	N/A	N/A	NS	36	0	106	36	45
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	525	525	N/A	1
1C25	LAC LE JEUNE (UPPER)	1509	2019-12-30		29	52	18	75%	35	54	84	10	146	69	47
1C28	DUFFEY LAKE	1200	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	N/A	N/A	N/A	0
1C29	SHOVELNOSE MOUNTAIN	1450	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	N/A	N/A	N/A	0
1C29P	Shovelnose Moutain	1460	2020-01-01		58	96	17	N/A	N/A	94	N/A	94	94	N/A	1
1C32	DEADMAN RIVER	1430	NS	NS	NS	NS	NS	N/A	N/A	0	NS	0	141	65	8
1C33A	GRANITE MOUNTAIN	1150	2020-01-06		52	96	18	103%	46	97	62	46	124	93	14
1C37	BRALORNE(UPPER)	1981	N	N	N	N	N	N/A	N/A	N	338	116	504	309	21
1C38	DOWNTON LAKE (UPPER)	1887	N	N	N	N	N	N/A	N/A	N	396	272	690	489	19
1C38P	Downton Lake Upper	1829	2020-01-01		182			N/A	N/A	487	390	390	487	N/A	4
1C39	BRIDGE GLACIER (LOWER)	1390	2020-01-01		43	82	19	28%	3	388	306	74	466	298	23
1C40	TYAUGHTON CREEK (NORTH)	1947	2020-01-01		47	106	23	43%	2	264	264	92	418	244	21
1C40P	North Tyaughton	1969	2020-01-01		62			N/A	N/A	224	240	174	240	N/A	4
1C41P	Yanks Peak East	1670	2020-01-01		211	598	28	151%	100	508	319	206	567	397	23
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	N/A	N/A	N/A	0
Average				73	139	19		66%	26						

Basin Index Calculation	Average SWE	158
	Average Normal	239
Middle Fraser Basin Index - January 2020		66%

Stations used in Basin Index:
1C12P, 1C14, 1C17, 1C18P, 1C20P, 1C25, 1C33A, 1C39, 1C40, 1C41P

LOWER FRASER			January 2020 Data					January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data					
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Maximum SWE (mm)	1981-2010		
			Depth (cm)	SWE (mm)	Density %	Code							Normal SWE (mm)	Years of Record	
1D06P	Tenquille Lake	1680	2020-01-01		268			55%	4	552	503	221	795	485	19
1D08	STAVE LAKE	1250	2020-01-01		105	278	26	48%	17	600	602	112	976	578	26
1D09	WAHLEACH LAKE	1480	N	N	N	N	N	N/A	N/A	180	N	46	417	240	30
1D09P	Wahleach Lake Upper	1480	2020-01-01		246			56%	7	314	401	164	640	442	26
1D10	NAHATLATCH RIVER	1550	N	N	N	N	N	N/A	N/A	N	504	219	975	585	21
1D16	DICKSON LAKE	1160	N	N	N	N	N	N/A	N/A	430	604	274	1196	616	22
1D17P	Chilliwack River	1600	2020-01-01		456			69%	22	691	661	353	1161	658	27
1D18P	Disappointment Lake	1050	2020-01-01		95	275	29	40%	0	501	N/A	276	1304	686	11
1D19P	Spuzzum Creek	1180	2020-01-01		102	261	26	39%	6	598	613	198	1270	662	21
Average				101	297	27		51%	9						

Basin Index Calculation	Average SWE	297
	Average Normal	585
Lower Fraser Basin Index - January 2020		51%

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

NORTH THOMPSON			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010		
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1E01B	BLUE RIVER	670	2019-12-30	76	168	22		113%	79	135	86	50	263	149	31
1E02P	Mount Cook	1550	2020-01-01	243	683	28		110%	59	723	509	439	1075	621	16
1E03A	TROPHY MOUNTAIN	1860	NS	NS	NS	NS		N/A	N/A	NS	NS			N/A	0
1E07	ADAMS RIVER	1720	NS	NS	NS	NS		N/A	N/A	NS	NS	205	475	324	14
1E08P	Azure River	1652						N/A	N/A		567	383	769	593	20
1E10P	Kostal Lake	1770	2020-01-01		445			99%	57	472	322	281	615	448	33
1E14P	Cook Creek	1280	2020-01-01	147	326	22		141%	88			120	364	232	10
Average				155	406	24		116%	71						

Basin Index Calculation	Average SWE	406
	Average Normal	363
North Thompson Basin Index - January 2020		112%

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

SOUTH THOMPSON			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010		
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1F01A	ABERDEEN LAKE	1310	2019-12-30	76	168	22	NS	179%	100	38	N	38	106	94	7
1F02	ANGLEMONT	1190	NS	NS	NS	NS		N/A	N/A	NS	NS	164	164	N/A	1
1F03P	Park Mountain	1890	2020-01-01	205	519	25		123%	87	389	340	256	632	421	35
1F04P	Enderby	1950	2020-01-01	236	499	21		N/A	N/A	500	420	420	552	N/A	3
1F06P	Celista Mountain	1500	2020-01-01	193	461	24		99%	70	482	363	305	506	468	14
Average				178	412	23		134%	86						

*record high

Basin Index Calculation	Average SWE	383
	Average Normal	328
South Thompson Basin Index - January 2020		117%

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

FRASER RIVER

Basin Index Calculation	Average SWE	247
	Average Normal	334
Fraser River Basin Index - January 2020		74%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A10, 1A11, 1A14P, 1A17P, 1A19P, 1A16, 1B01P, 1B02P, 1B05, 1B08P, 1C12P, 1C14, 1C17, 1C18P, 1C20P, 1C25, 1C33A, 1C39, 1C40, 1C41P, 1D06P, 1D08, 1D09P, 1D18P, 1D19P, 1E01B, 1E02P, 1E10P, 1E14P, 1F01A, 1F03P, 1F06P

UPPER COLUMBIA			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010		
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2A02	GLACIER	1250	2019-12-30	128	407	32		134%	91	330	234	147	519	304	49
2A03A	FIELD	1285	NS	NS	NS	NS		N/A	N/A	NS	NS	38	127	80	12
2A06P	Mount Revelstoke	1850	2020-01-01		623			106%	77	616	488	293	861	587	26
2A07	KICKING HORSE	1650	2019-12-26	86	186	22		127%	66	159	130	66	257	147	40
2A11	BEAVERFOOT	1890	2019-12-29	52	100	19		93%	49	70	96	52	215	108	34
2A14	MOUNT ABBOT	2010	2019-12-26	198	597	30		102%	55	710	568	298	1065	584	35

2A16	GOLDSTREAM	1920	2019-12-26	201	559	28		95%	45	546	530	355	906	588	32
2A17	FIDELITY MOUNTAIN	1870	2019-12-28	222	656	30		110%	75	625	530	331	1228	596	45
2A18	KEYSTONE CREEK	1890	2019-12-26	131	333	25	A	82%	33	366	370	217	577	405	32
2A18P	Keystone Creek	1840	2020-01-01		402			N/A	N/A	500	415	415	518	N/A	4
2A19	VERMONT CREEK	1520	2019-12-29	80	166	21		80%	28	184	207	91	328	207	33
2A21P	Molson Creek	1935	2020-01-01		538			96%	50	602	626	285	1072	563	39
2A22	SUNBEAM LAKE	2010	2019-12-26	162	449	28		95%	41	435	493	243	767	471	32
2A23	BUSH RIVER	1920	N	N	N	N	N	N/A	N/A	393	408	216	722	417	33
2A25	KIRBYVILLE LAKE	1750	2019-12-26	190	509	27		83%	25	607	525	351	830	613	32
2A27	DOWNIE SLIDE (LOWER)	980	2019-12-26	137	332	24		111%	60	308	194	166	504	298	29
2A29	DOWNIE SLIDE (UPPER)	1630	N	N	N	N	N	N/A	N/A	734	642	335	1022	706	29
2A30P	Colpitti Creek	2131	2020-01-01		399			110%	44	438	491	204	491	362	10
2A31P	Caribou Creek Upper	2201	2020-01-01		408			N/A	N/A	446	511	446	511	N/A	4
2A32P	Wildcat Creek	2122	2020-01-01		358			N/A	N/A	370	295	258	370	N/A	4
			Average	144	413	26		102%	53						

Basin Index Calculation	Average SWE	418
	Average Normal	417
Upper Columbia Basin Index - January 2020		100%

Stations used in Basin Index:

2A02, 2A06P, 2A07, 2A11, 2A14, 2A16, 2A17, 2A18, 2A19, 2A21P, 2A22, 2A25, 2A27, 2A30P

WEST KOOTENAY			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2B02A	FARRON	1220	2020-01-02	52	108	21	A	74%	23	142	148	40	330	146	35
2B05	WHATSHAN (UPPER)	1525	2020-01-02	173	418	24		129%	93	255	267	169	543	323	26
2B06P	Barnes Creek	1620	2020-01-01		385			145%	94	289	250	130	405	265	27
2B07	KOCH CREEK	1860	2020-01-02	137	337	25		97%	54	348	307	170	473	346	22
2B08P	St. Leon Creek	1800	2020-01-01		682			140%	97	548	475	221	855	488	25
2B09	RECORD MOUNTAIN	1890	2020-01-02	111	293	26		92%	35	338	318	134	575	319	31
2D02	FERGUSON	880	2019-12-30	103	270	26		105%	59	300	199	93	409	256	40
2D03	SANDON	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	157	157	N/A	1
2D04	NELSON	930	2020-01-02	45	98	22		59%	18	144	108	66	366	167	59
2D05	GRAY CREEK (LOWER)	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	69	372	205	21
2D06	CHAR CREEK	1310	2019-12-28	50	117	23		49%	3	221	264	110	480	239	36
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	2020-01-01		105			N/A	N/A					N/A	0
2D08P	East Creek	2030	2020-01-01		485			110%	71	503	411	206	858	442	39
2D09	MOUNT TEMPLEMAN	1860	N	N	N	N	N	N/A	N/A	N	N	277	902	496	21
2D10	GRAY CREEK (UPPER)	1940	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	222	634	358	13
2D14P	Redfish Creek	2104	2020-01-01	222	689	31		134%	63	624	551	364	751	514	18
			Average	112	332	25		103%	55						

Basin Index Calculation	Average SWE	353
	Average Normal	319
West Kootenay Basin Index - January 2020		111%

Stations used in Basin Index:

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

EAST KOOTENAY			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2C01	SINCLAIR PASS	1370	NS	NS	NS	NS		N/A	N/A	NS	NS	25	107	54	13
2C04	SULLIVAN MINE	1550	2019-12-29	26	68	26		54%	6	182	152	29	226	125	33
2C09Q	Morrissey Ridge	1860	2020-01-01		240			78%	39	215	200	123	706	306	35
2C10P	Moyie Mountain	1930	2020-01-01	72	197	27		115%	74	153	192	76	354	172	40
2C14P	Floe Lake	2090	2020-01-01		380			108%	62	327	325	172	510	352	25

2C15	MOUNT ASSINIBOINE	2230	2019-12-29	113	255	23	96%	44	251	331	111	567	267	33
2C16	MOUNT JOFFRE	1750	2019-12-29	88	195	22	117%	71	107	160	73	364	166	30
2C17	THUNDER CREEK	2010	2019-12-29	65	132	20	105%	59	99	154	61	276	126	32
			Average	73	210	24	96%	51						

Basin Index Calculation	Average SWE	210
	Average Normal	216
East Kootenay Basin Index - January 2020		97%

Stations used in Basin Index:
2C04, 2C09Q, 2C10P, 2C14P, 2C15, 2C16, 2C17

BOUNDARY			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
2E01	MONASHEE PASS	1370	2020-01-02	110	245	22		150%	100	140	152	84	239	163	35 * new record high
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	326	235	17
2E07P	Grano Creek	1860	2020-01-01	96	223	23		99%	69	177	229	93	319	225	22
			Average	103	234	23		125%	85						

Basin Index Calculation	Average SWE	234
	Average Normal	194
Boundary Basin Index - January 2020		121%

Stations used in Basin Index:
2E01, 2E07P

OKANAGAN			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
2F01A	TROUT CREEK (West)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	68	140	N/A	3
2F01AP	Trout Creek West	1420	2020-01-01	39	110	28		N/A	N/A	136	83	83	136	N/A	2
2F02	SUMMERLAND RESERVOIR	1280	2020-01-02	58	110	19		110%	54	102	147	42	198	100	55
2F03	MCCULLOCH	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	28	144	78	31
2F04	GRAYSTOKE LAKE	1840						N/A	N/A	162	202	96	278	147	15 * unreported
2F05P	Mission Creek	1780	2020-01-01	112	273	24		120%	79	219	221	104	364	227	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	56	181	106	30
2F08P	Greyback Reservoir	1550	2020-01-01	52	121	23		N/A	N/A	81	137	81	137	N/A	3
2F09	WHITEROCKS MOUNTAIN	1830	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	122	447	271	22
2F10	Silver Star Mountain	1840	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	163	565	359	35
2F10P	Silver Star Mountain	1839	2020-01-01	169	483	29		N/A	N/A	418	359	314	418	N/A	4
2F11	ISINTOK LAKE	1680	2020-01-03	39	60	15		87%	32	58	117	16	196	69	53
2F12	MOUNT KOBAU	1810	2019-12-29	38	88	23		63%	26	87	167	28	261	139	41
2F13	ESPERON CR (UPPER)	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	156	457	N/A	4
2F14	ESPERON CR (MIDDLE)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0
2F18P	Brenda Mine	1460	2020-01-01		126			68%	28	130	151	112	302	185	24
2F19	OYAMA LAKE	1340	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0
2F20	VASEUX CREEK	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	32	117	56	19
2F21	BOULEAU LAKE	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	160	351	N/A	2
2F23	MACDONALD LAKE	1740	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	81	328	189	16
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	72	171	23		90%	44						

Basin Index Calculation	Average SWE	131
	Average Normal	144
Okanagan Basin Index - January 2020		91%

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

SIMILKAMEEN			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2G03P	Blackwall Peak	1940	2020-01-01	128	286	22		75%	26	353	426	108	923	379	52
2G04	LOST HORSE MOUNTAIN	1920	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	54	120	93	7
2G05	MISSEZULA MOUNTAIN	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	21	197	96	17
2G06	HAMILTON HILL	1490	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	55	313	168	15
			Average	128	286	22		75%	26						

Basin Index Calculation	Average SWE	286
	Average Normal	379
Similkameen Basin Index - January 2020		75%

Stations used in Basin Index:
2G03P

SOUTH COAST			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
3A01	GROUSE MOUNTAIN	1100	2019-12-31	102	314	31		65%	24	476	566	24	878	485	39
3A02	POWELL RIVER (UPPER)	1040	NS	NS	NS	NS		N/A	N/A	NS	NS			N/A	0
3A05	POWELL RIVER (LOWER)	910	NS	NS	NS	NS		N/A	N/A	NS	NS			N/A	0
3A09	PALISADE LAKE	880	NS	NS	NS	NS		N/A	N/A	NS	NS	86	334	N/A	2
3A09P	Palisade Lake	900	2020-01-01	62	206	33		N/A	N/A	475	N/A	475	475	N/A	1
3A10	DOG MOUNTAIN	1080	2019-12-30	80	208	26		43%	10	414	520	78	897	488	33
3A19	ORCHID LAKE	1190	2019-12-31	142	440	31	P	60%	13	660	829	180	1360	739	33
3A20	CALLAGHAN CREEK	1040	NS	NS	NS	NS		N/A	N/A	NS	NS	100	638	289	12
3A20P	Callaghan	1017	2020-01-01		230			N/A	N/A	481	N/A	481	481	N/A	1
3A22P	Nostetuko River	1500	2020-01-01	40	108	27		42%	15	221	254	32	540	258	27
3A24P	Mosley Creek Upper	1650	2020-01-01	28	123	44		63%	6	178	216	85	491	194	30
3A25P	Squamish River Upper	1340	2020-01-01	192	457	24		62%	14	789	740	289	1160	742	29
3A26	CHAPMAN CREEK	1022	NS	NS	NS	NS		N/A	N/A	NS	NS			N/A	0
3A27	EDWARDS LAKE	1070	NS	NS	NS	NS		N/A	N/A	NS	NS			N/A	0
3A28P	Tetrahedron	1420						N/A	N/A	601	744	601	744	N/A	2
			Average	92	261	31		56%	14						

Basin Index Calculation	Average SWE	275
	Average Normal	484
South Coast Basin Index - January 2020		57%

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

VANCOUVER ISLAND			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
3B01	FORBIDDEN PLATEAU	1100	2020-01-05	148	452	31		73%	21	640	535	0	1287	621	36
3B02A	MOUNT COKELY	1190	NS	NS	NS	NS				NS	NS			N/A	0
3B04	ELK RIVER	270	2020-01-05	7	18	26		37%	47	18	65	0	264	49	33
3B10	UPPER THELWOOD LAKE	990	NS	NS	NS	NS				NS	NS	546	734	N/A	4
3B17P	Wolf River Upper	1490	2020-01-01		212			38%	6	540	584	141	1057	555	32
3B18	WOLF RIVER (MIDDLE)	990	2020-01-05	76	184	24		70%	34	224	68	0	590	262	30
3B19	WOLF RIVER (LOWER)	640	2020-01-05	47	116	25		72%	37	134	N	0	388	161	27
3B23P	Jump Creek	1160	2020-01-01	87	134	15		29%	15	325		6	1054	459	22
3B24P	Heather Mountain Upper	1190	2020-01-01	96	283	29		N/A	N/A	434	558	434	661	N/A	4
3B26P	Mount Arrowsmith	1465	2020-01-01	53	170	32		N/A	N/A	402	376	376	402	N/A	2
			Average	73	196	26		53%	27						

Basin Index Calculation	Average SWE	186
	Average Normal	351
Vancouver Island Basin Index - January 2020		53%

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

CENTRAL COAST			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3C07	WEDEENE RIVER SOUTH	220	NS	NS	NS	NS		N/A	N/A	NS	NS	242	242	N/A	1
3C08P	Burnt Bridge Creek	1330	2020-01-01	111	258	23		60%	15	427	337	146	696	429	21
Average				111	258	23		60%	15						

Basin Index Calculation	Average SWE	258
	Average Normal	429
Central Coast Basin Index - January 2020		60%

Stations used in Basin Index:
3C08P

SKAGIT			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	Years of Record
										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	67	242	N/A	4
3D03A	KLESILKWA	1175	N	N	N	N	N	N/A	N/A	113	78	0	386	123	28
Average				N/A	N/A	N/A		N/A	N/A						

Basin Index Calculation	Average SWE	N/A
	Average Normal	123
Skagit Basin Index - January 2020		N/A

Stations used in Basin Index:
N/A

PEACE			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4A02P	Pine Pass	1400	2020-01-01		598			109%	68	540	472	259	1016	549	29
4A03	WARE (UPPER)	1575	2020-01-04	73	161	22		107%	69	128	161	64	248	151	30
4A03P	Ware Upper	1565	2020-01-01		138			N/A	N/A	127	139	101	139	N/A	3
4A04	WARE (LOWER)	970	2020-01-04	63	124	20	A	113%	85	100	115	46	240	110	28
4A04P	Ware Lower	971	2020-01-01		105			N/A	N/A	116	117	68	117	N/A	3
4A05	GERMANSEN (UPPER)	1480	2020-01-05	98	239	24		128%	84	231	184	93	364	186	36
4A06	TUTIZZI LAKE	1045	2020-01-05	81	153	19		108%	74	140	144	69	223	142	29
4A07	LADY LAURIER LAKE	1440	2020-01-02	95	230	24		78%	41	223	260	140	472	295	35
4A09	PULPIT LAKE	1335	2020-01-04	114	280	25		119%	71	N	170	130	398	235	30
4A09P	Pulpit Lake	1311	2020-01-01		250			100%	61	187	129	129	366	250	29
4A10	FREDRICKSON LAKE	1325	2020-01-05	87	205	24		160%	94	146	65	54	250	128	29
4A11	TRYGVE LAKE	1410	2020-01-04	101	246	24		119%	82	177	158	119	299	207	28
4A12	TSAYDAYCHI LAKE	1190	2020-01-05	114	253	22		117%	76	256	245	128	393	217	36
4A13	PHILIP LAKE	1035	2020-01-05	71	141	20		92%	58	209	128	48	288	154	36
4A13P	Philip Lake	1028	2020-01-01		117			N/A	N/A					N/A	0
4A16	MORFEE MOUNTAIN	1430	2020-01-06	168	508	30		120%	75	434	299	199	710	425	23
4A18	MOUNT SHEBA	1490	2019-12-29	155	494	32		113%	69	N	444	106	793	438	30
4A18P	MOUNT SHEBA	1484	2020-01-01		565			N/A	N/A	505	N/A	505	505	N/A	1
4A20	MONKMAN CREEK	1570	2019-12-29	77	220	29		79%	30	218	381	107	546	277	23
4A20P	Monkman Creek	1570	2020-01-01		190			N/A	N/A	240	N/A	240	240	N/A	1
4A21	MOUNT STEARNS	1505	2020-01-02	37	64	17		78%	24	79	87	14	151	82	29
4A25	FORT ST. JOHN A	690	2020-01-06	32	48	15	A	92%	52	84	82	0	134	52	39
4A27P	Kwadacha North	1554	2020-01-01		210			127%	87	146	173	82	307	166	30

4A30P	Aiken Lake	1050	2020-01-01	140	101%	72	129	96	71	262	138	32
4A31P	Crying Girl Prairie	1358	2020-01-01	68	N/A	N/A	133	125	133	86	N/A	4
4A33P	Muskwa-Kechika	1196	2020-01-01	17	N/A	N/A	69	69	23	75	N/A	4
4A34P	Dowling Creek	1456	2020-01-01	113	N/A	N/A	210	463	210	463	N/A	3
4A36P	Parsnip Upper	790	2020-01-01	118	N/A	N/A	197		197	197	N/A	1
Average				91 214 23	108%	67						

Basin Index Calculation	Average SWE	240
	Average Normal	221
Peace Basin Index - January 2020		109%

Stations used in Basin Index:

4A02P, 4A03, 4A04, 4A05, 4A06, 4A07, 4A09, 4A09P, 4A10, 4A11, 4A12, 4A13, 4A16, 4A18, 4A20, 4A21, 4A25, 4A27P, 4A30P

SKEENA-NASS			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4B01	KIDPRICE LAKE	1370	2020-01-06	143	298	21	NS	N/A	N/A	NS	NS	369	894	N/A	3
4B02	JOHANSON LAKE	1420	2020-01-05	98	225	23		135%	88	164	121	84	282	167	35
4B03A	HUDSON BAY MTN.	1480	2020-01-02	76	190	25		72%	13	274	286	135	470	264	44
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	170	170	170	N/A	1
4B13A	TERRACE AIRPORT	1805	NS	NS	NS	NS	NS	N/A	N/A	NS	58	0	264	73	34
4B14	EQUITY MINE	1420	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	118	228	166	11
4B15	LU LAKE	1300	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	96	182	130	11
4B15P	Lu Lake	1300	2020-01-01	40	106	27		75%	15	153	163	49	293	141	22
4B16P	Shedin Creek	1480	2020-01-01	121	293	24		69%	20	317	279	195	596	425	23
4B17P	Tsai Creek	1360	2020-01-01		288			48%	0	532	456	302	970	599	22
4B18P	Cedar-Kiteen	885	2020-01-01		154			50%	10	218		90	563	307	18
Average				96	222	24		75%	24						

*new record low

*new record low

Basin Index Calculation	Average SWE	209
	Average Normal	317
Skeena-Nass Basin Index - January 2020		66%

Stations used in Basin Index:

4B02, 4B03A, 4B15P, 4B16P, 4B17P, 4B18P

LIARD			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4C01	SIKANNI LAKE	1385	2020-01-04	76	152	20		105%	73	113	140	44	257	145	34
4C01P	Sikanni Lake	1387	2020-01-01	68	154	23		N/A	N/A	118	162	72	161	N/A	3
4C02	SUMMIT LAKE	1280	NS	NS	NS	NS				NS	NS			N/A	0
4C03	DEASE LAKE	820	NS	NS	NS	NS				NS	NS	20	168	68	47
4C05	FORT NELSON AIRPORT	380	NS	NS	NS	NS				NS	NS	4	112	57	49
Average				72	153	21		105%	73						

Basin Index Calculation	Average SWE	152
	Average Normal	145
Liard Basin Index - January 2020		105%

Stations used in Basin Index:

4C01

STIKINE			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data					
Station ID	Name	Elevation (masl)	Snow			SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010		
			Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4D02	ISKUT	1000	NS	NS	NS	NS		NS	NS	76	76	N/A	1	
4D10P	Tumeka Creek	1220	2020-01-01		301		88%	44	193	172	167	591	342	21
4D11P	Kinaskan Lake	1020	2020-01-01	78	216	28	107%	73	123	95	95	378	202	21
Average				78	259	28		97%	59					

Basin Index Calculation	Average SWE	259
	Average Normal	272
Stikine Basin Index - January 2020		95%

Stations used in Basin Index:
4D10P, 4D11P

NORTHWEST			January 2020 Data				January 2020 Statistics		Historic Snow Water Equivalent (SWE) Data					
Station ID	Name	Elevation (masl)	Snow			SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Maximum	1981-2010		
			Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4E01	LOG CABIN	900	NS	NS	NS	NS	NS		NS	NS			N/A	0
4E02B	ATLIN LAKE	730	NS	NS	NS	NS	NS		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 2020		N/A

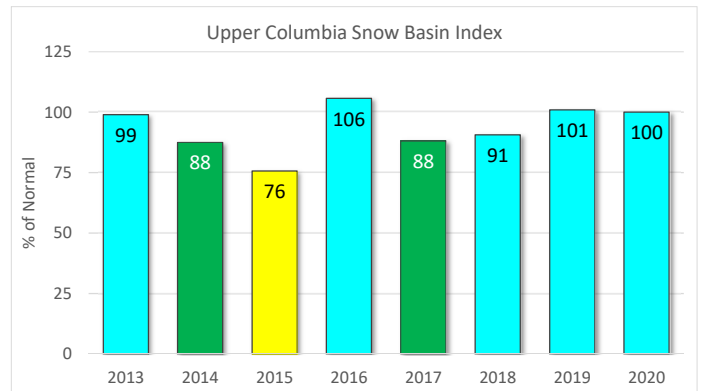
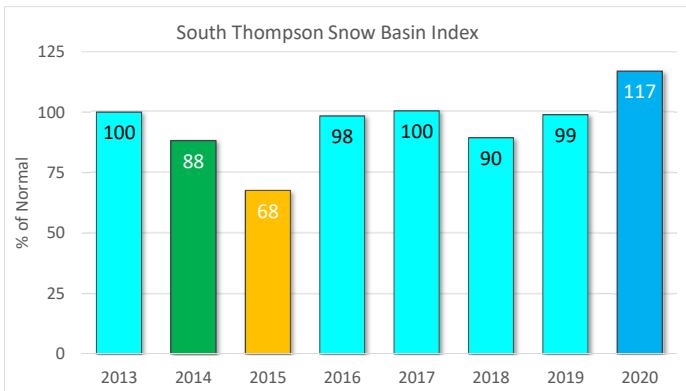
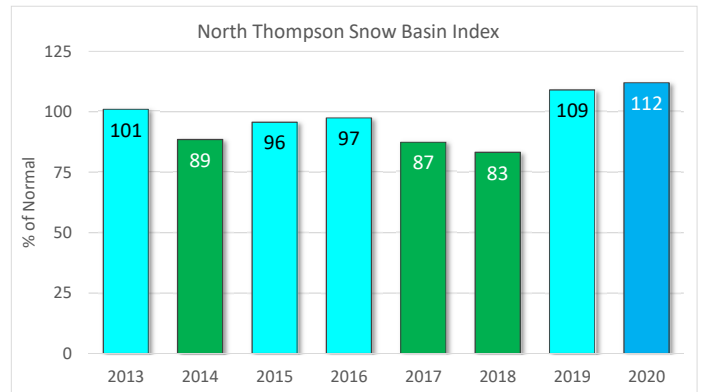
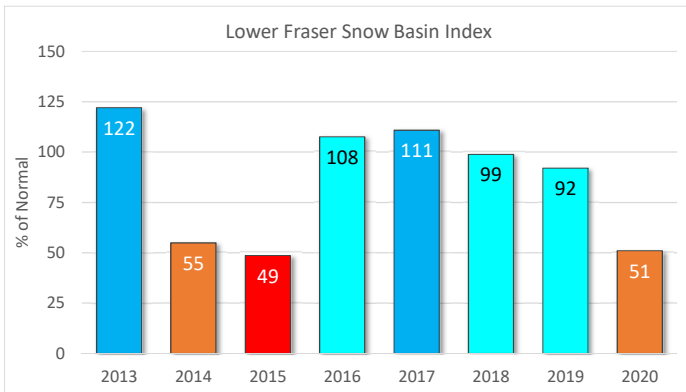
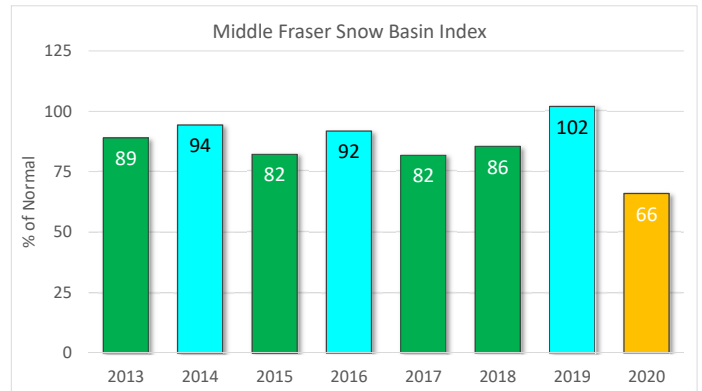
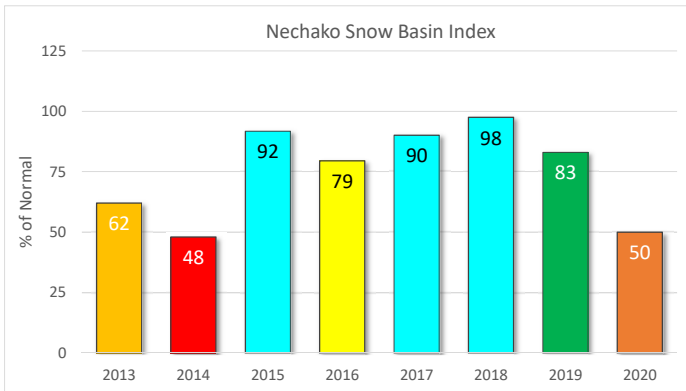
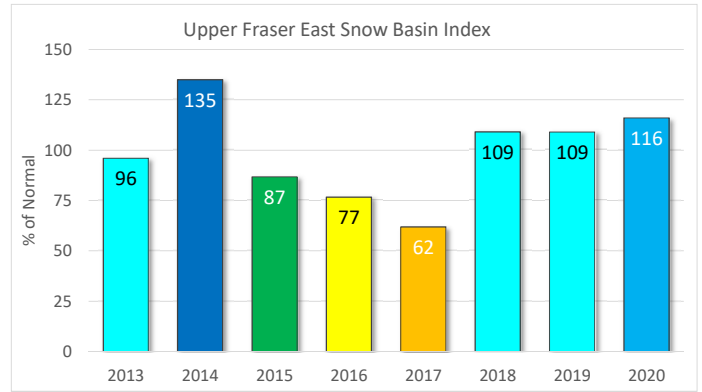
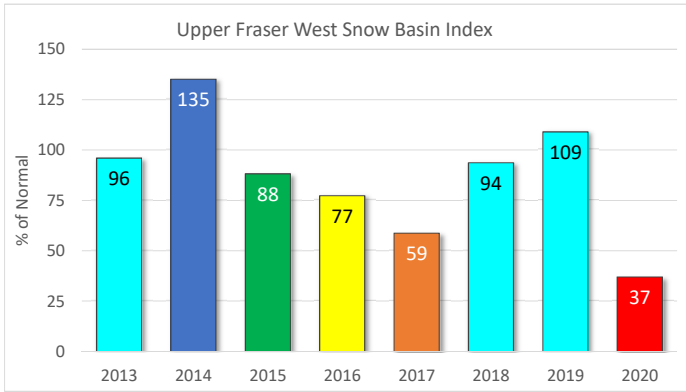
Stations used in Basin Index:
N/A

BRITISH COLUMBIA

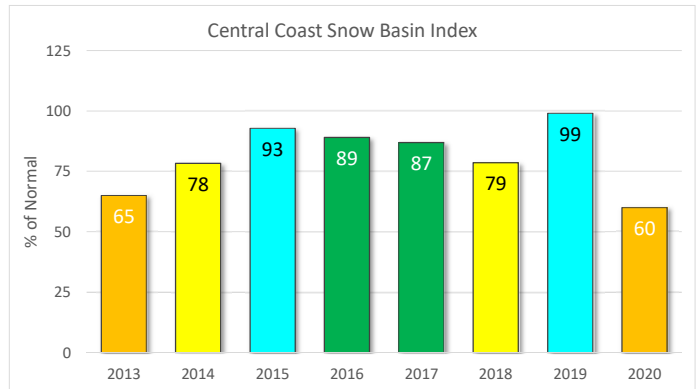
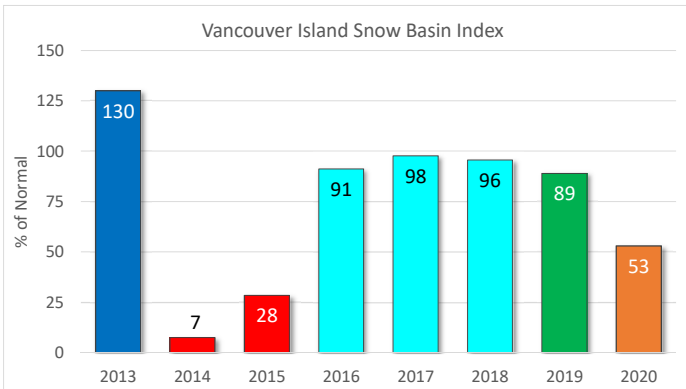
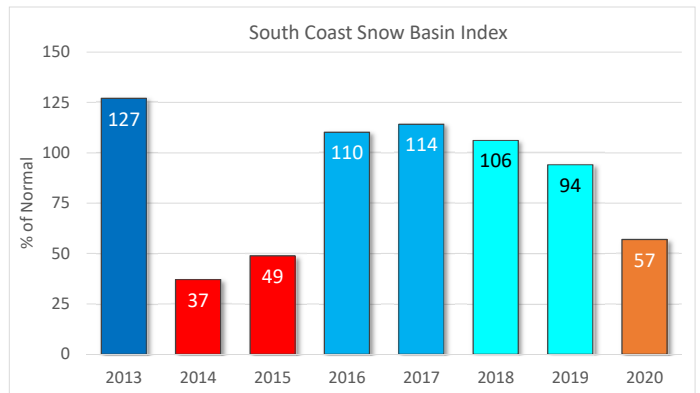
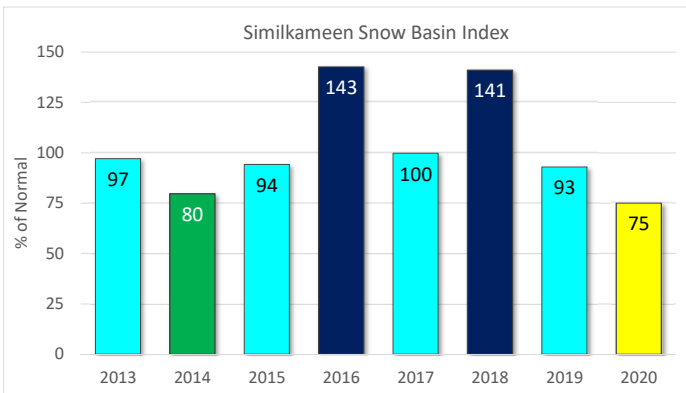
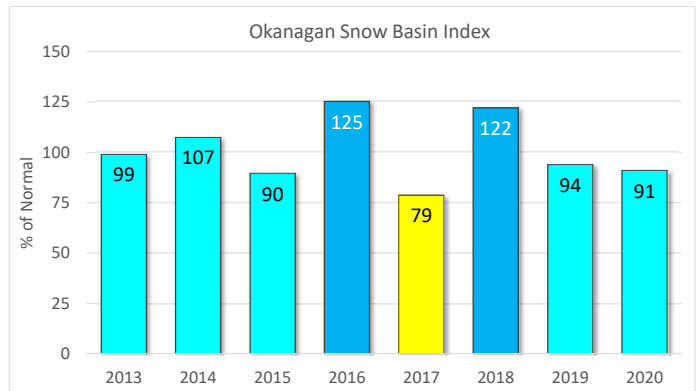
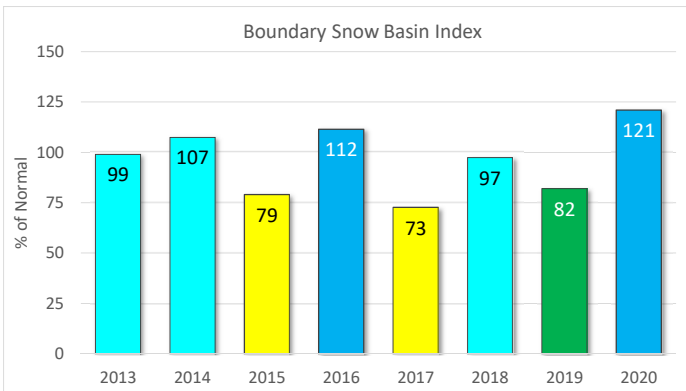
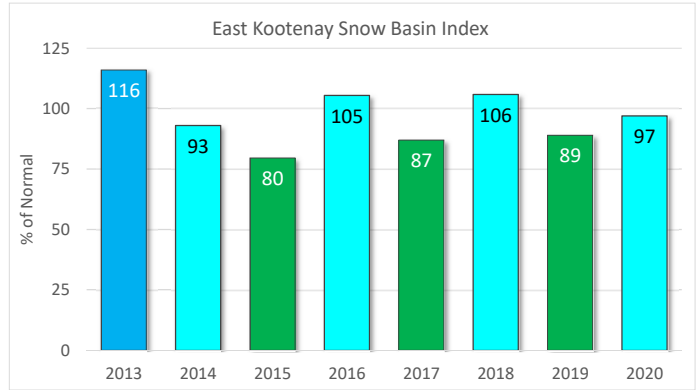
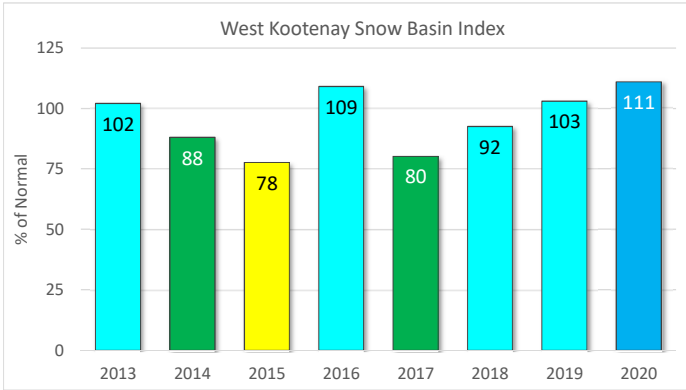
Basin Index Calculation	Average SWE	264
	Average Normal	313
British Columbia Basin Index - January 2020		84%

Stations used in Basin Index:
All stations with SWE measurements & calculated 1981-2010 Normals in B.C for January 1, 2020 snow survey period.

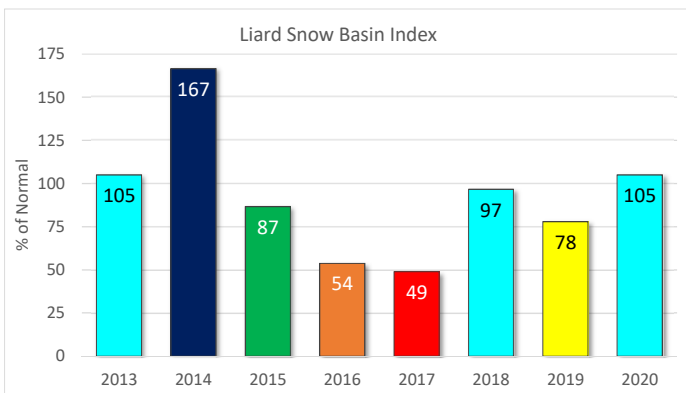
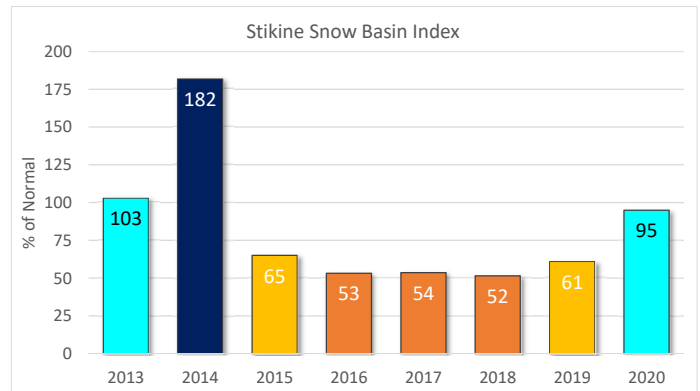
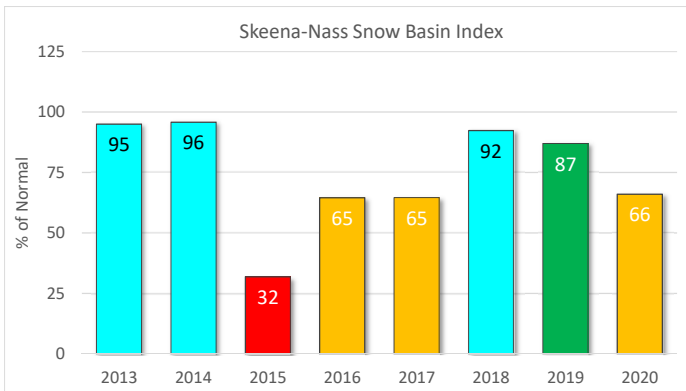
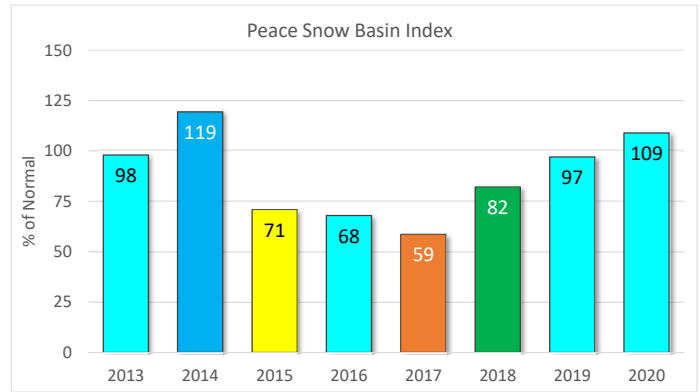
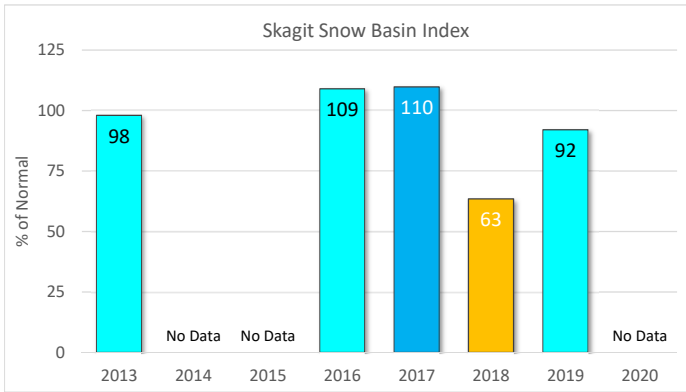
Code	Description
A	Sampling problems were encountered
B	Early or late sampling
C	Early or late sampling w/problems encountered
E	Estimate
N	Scheduled, but not sampled
N/A	Not available
NS	Not scheduled
SD	Snow Depth
SWE	Snow Water Equivalent
T	Trace Amount



Snow Basin Index Graphs - January 1, 2020



Snow Basin Index Graphs - January 1, 2020



Snow Survey and Water Supply Bulletin – February 1st, 2020

Executive Summary

Persistent wet weather through January has led to rapid growth of the province's snowpack. The provincial average of snow measurements is 110% of normal, up from 84% of normal on January 1st, 2020. The snow basin index for the Fraser River is 113%. Increased seasonal flood risk conditions are developing in many regions, including the Upper Fraser – West, South Thompson, West Kootenay, Okanagan and Boundary. Typically, two-thirds of the annual snow accumulation has occurred by February 1st, with the final third accumulating from February to April. While changes to the overall provincial seasonal flood risk are possible over the next few months (either increases or decreases), current trends in snowpack are likely to persist.

Overview

The February 1st snow survey is now complete. Data from 101 manual snow courses and 81 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

January has been a very active weather month, with persistent storm cycles and sub-tropical atmospheric rivers, an extremely cold Arctic air episode, and snowfall events at lower elevations.

Monthly temperatures across BC were mixed, with many areas being near normal (monthly temperature anomalies of -1 °C to +1 °C). Warmer than normal temperatures tended to occur in the southern parts of the province, and cooler than normal in the north. Areas of the Central and North Coast experienced monthly temperature anomalies in the -1 °C to -3 °C range, while areas of the Okanagan and Kootenay were in the +1 °C to +2 °C range.

While the monthly temperature anomalies were generally modest, day-to-day temperature swings were extreme in many areas. An extreme arctic air mass dominated the second week of January, with temperatures in the BC Interior plunging to -20 °C to -40 °C (-10 °C to -25 °C below normal) for several days. Over the last two weeks of January, temperatures soared in most areas as sub-tropical air was delivered to the province, bringing daily temperatures that were 5-10 °C above normal.

Precipitation was persistent throughout most of January for most areas of the province, in particular within the South Coast, Vancouver Island and South Interior. Most Environment and Climate Change Canada weather stations reported wet conditions, with precipitation in the 120-200% of normal range.

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

Snow Survey and Water Supply Bulletin – February 1st, 2020

Snowpack

Snow basin indices for February 1st, 2020 range from a low of 87% of normal in the Skeena-Nass to a high of 134% in the Skagit (Table 1 and Figure 1). Most regions experienced significant growth in snowpack since January 1st, with the overall average of province-wide measurements rising from 84% of normal last month to 110% of normal for February 1st. Strong variability in snowpacks across regions has levelled out to some degree, with areas at lower than normal snowpack in January experiencing the greatest increase in snowpack over the past month (e.g. the Lower Fraser, Vancouver Island, Upper Fraser – West, Nechako, Central Coast, South Coast).

High snowpack levels have emerged in many regions. The south Interior, including the South Thompson, West Kootenay, Boundary, Okanagan and Skagit is above 120% of normal for February 1st. Moderately high snowpack (110-120%) is also present in the Upper Fraser – East, Upper Fraser-West, North Thompson, Quesnel River (e.g. western draining areas of Cariboo Mountains), Upper Columbia, East Kootenay, Central Coast and Peace.

The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) is 113%.

Table 1 - BC Snow Basin Indices – February 1, 2020

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	121	Boundary	128
Upper Fraser East	113	Similkameen	97
Nechako	100	South Coast	102
Middle Fraser	95	Vancouver Island	97
Lower Fraser	89	Central Coast	119
North Thompson	119	Skagit	134
South Thompson	130	Peace	115
Upper Columbia	119	Skeena-Nass	87
West Kootenay	126	Stikine	102
East Kootenay	114	Liard	95

Snow Survey and Water Supply Bulletin – February 1st, 2020

Okanagan	129	Fraser	113
		British Columbia	110

Outlook

Neutral El Niño Southern Oscillation (ENSO) conditions have been in place since the summer of 2019, with near-normal or slightly-above normal (<0.5 °C) temperature anomalies along the equatorial Pacific Ocean region. Warm temperature anomalies that were present in the North Pacific and Gulf of Alaska earlier in the fall/winter have been dissipating with a more active storm period over the past month.

Forecasts from the CPC are indicating a high likelihood (approximately 60% chance) of continued neutral ENSO conditions into the spring and continuing through the summer (approximately 50% chance). Neutral ENSO conditions generally have a less predictable association with snow pack conditions in BC, in comparison to El Niño and La Niña conditions.

Seasonal weather forecasts produced by Environment and Climate Change Canada in late January are indicating an increased likelihood of cooler than normal temperatures for February through April for most of British Columbia.

Given the current ENSO neutral conditions, it is reasonable to expect increased uncertainty over seasonal weather for the remainder of this winter and into spring. Near-term weather forecasts suggest on-going snow accumulation (at a seasonal to greater-than-seasonal rate) over the next 7-10 days. Long-range forecasts for an increased likelihood of cooler seasonal weather over the next 1-3 months also favor normal to above-normal snow accumulation over the remainder of the snow accumulation season.

For snow-melt dominated rivers in the interior of the province, the likelihood of spring flooding increases with high snowpacks; this is most pronounced when snow basin index values approach or exceed 120%. This does not mean that spring flooding will occur, rather the chances of flooding are increased. Seasonal flood risk is thus emerging in the Upper Fraser – West, North Thompson, South Thompson, West Kootenay, Okanagan and Boundary with increased snowpack levels.

By early February, nearly two-thirds of the annual BC snowpack has typically accumulated; high snowpack levels in some regions are already approaching or surpassing normal annual maximum accumulation. With two or more months left for snow accumulation, seasonal snowpacks and seasonal flood risk can still shift. However, trends that are currently present are expected to persist if weather patterns are seasonal over the remainder of the winter and early spring.



Snow Survey and Water Supply Bulletin – February 1st, 2020

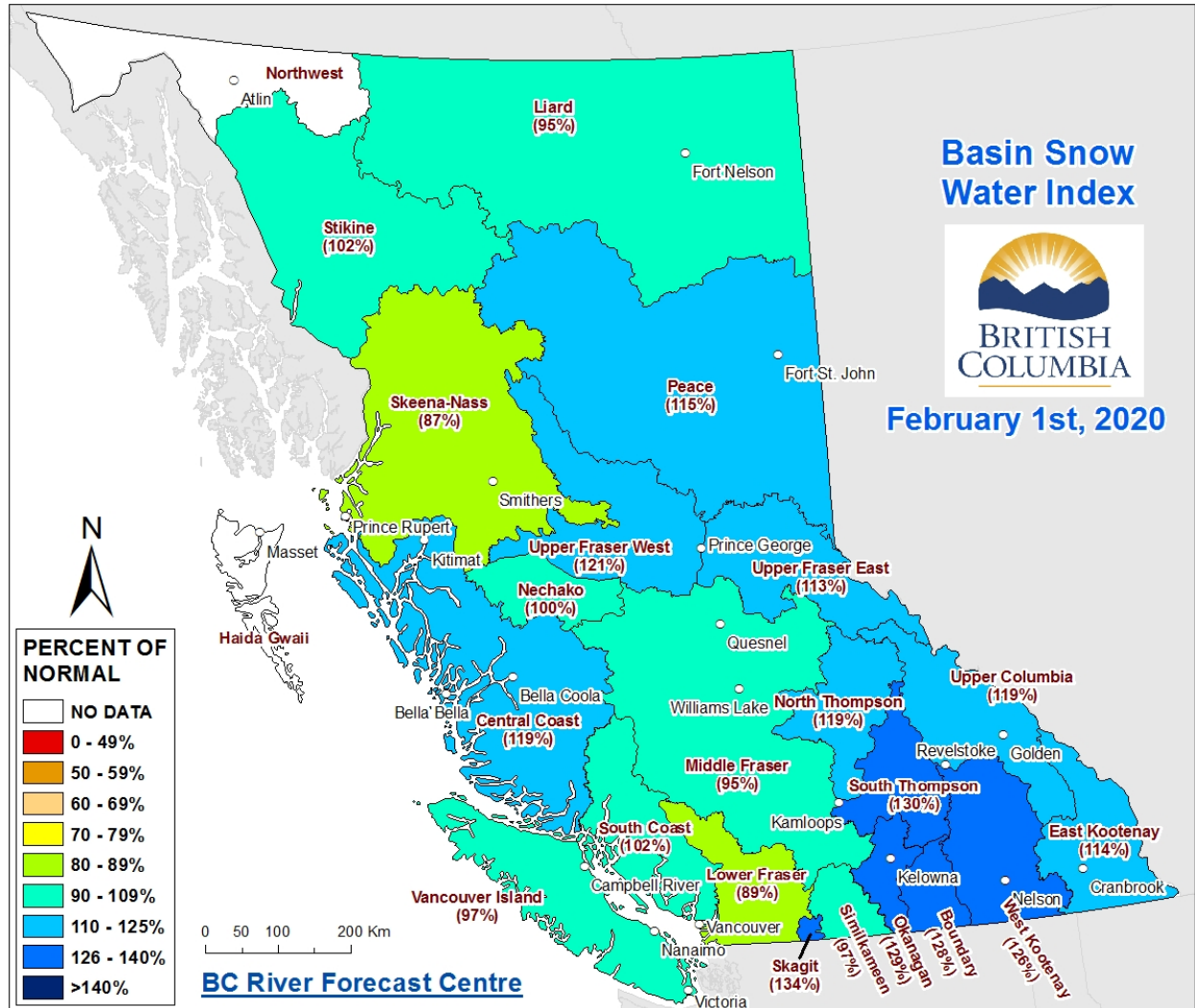
While snowpack is one risk factor for freshet flooding, spring weather is also a critical factor in whether flooding occurs or not. Heavy rainfall during the snowmelt period has been a key driver in spring flooding in BC, and can cause flooding irrespective of snowpack levels.

The River Forecast Centre will continue to monitor snowpack conditions and will provide an updated seasonal flood risk forecast in the March 1st, 2020 bulletin, which is scheduled for release on March 9th.

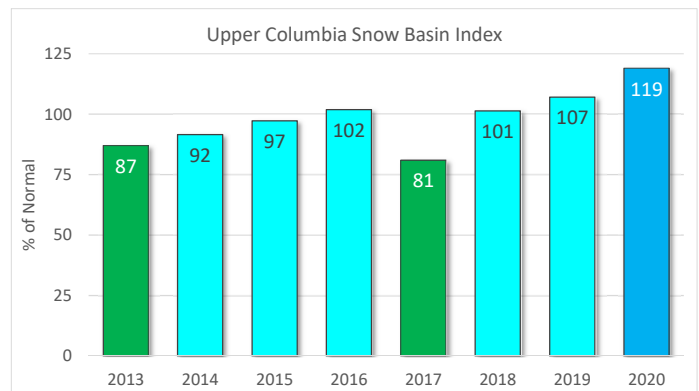
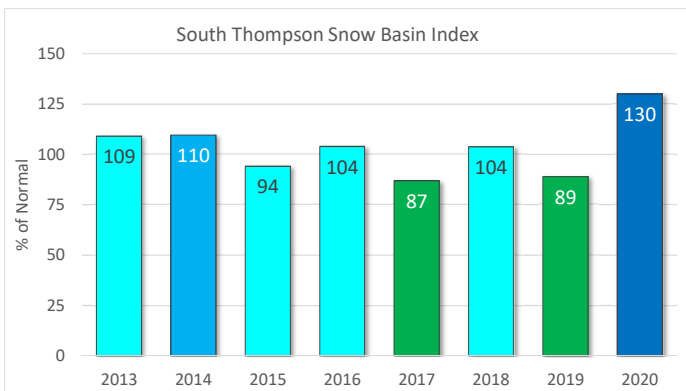
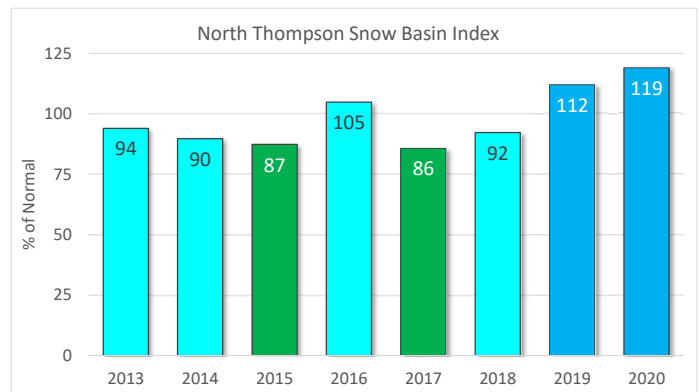
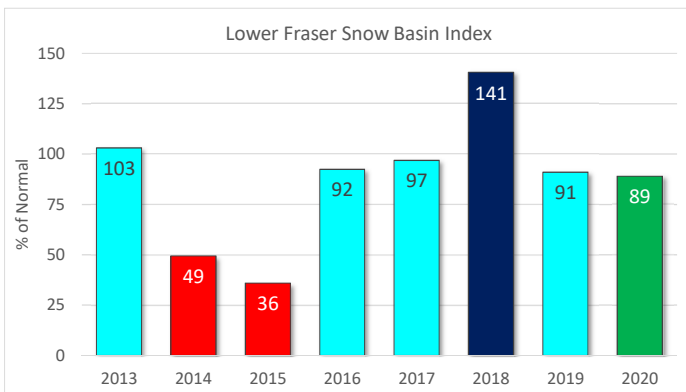
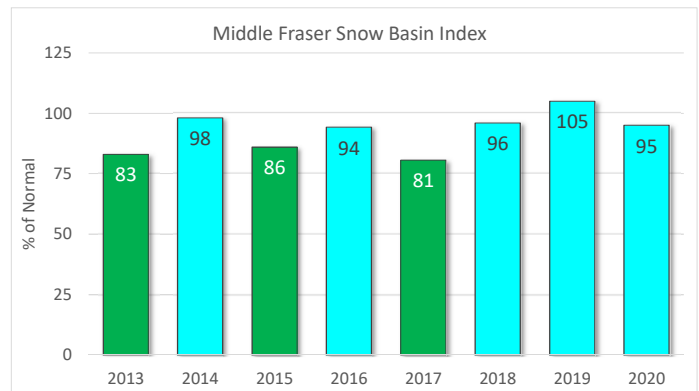
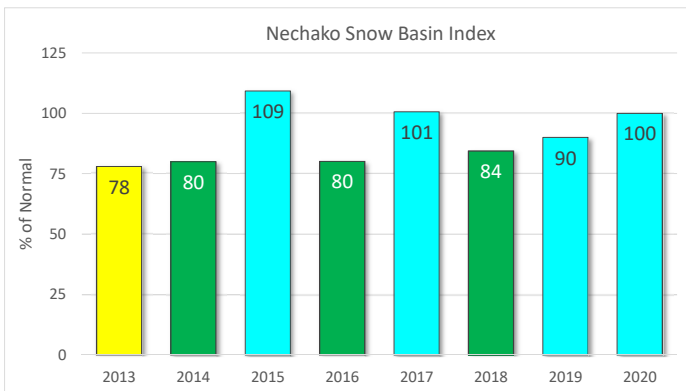
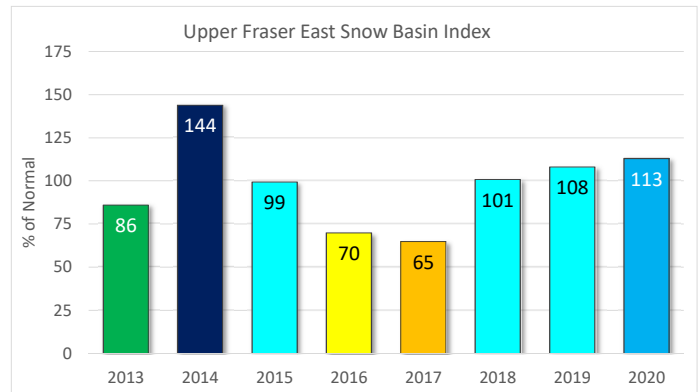
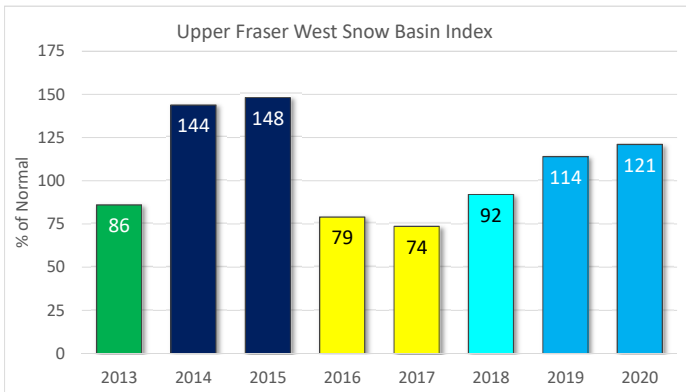
BC River Forecast Centre
February 7, 2020

Snow Survey and Water Supply Bulletin – February 1st, 2020

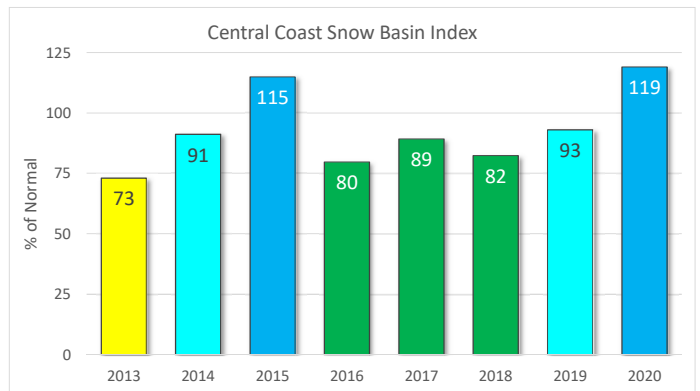
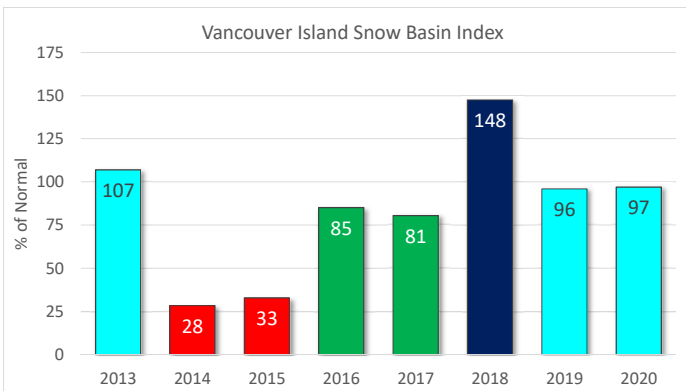
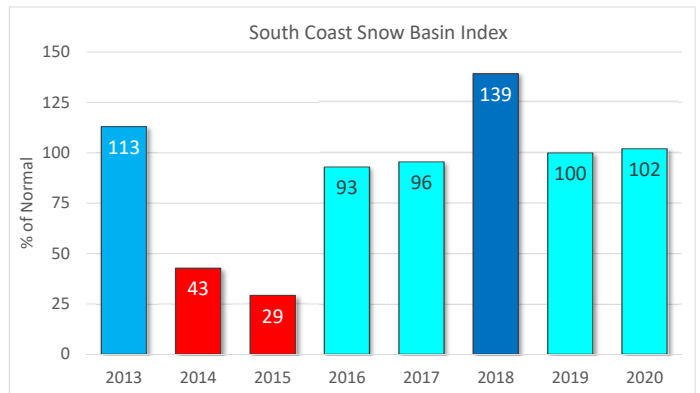
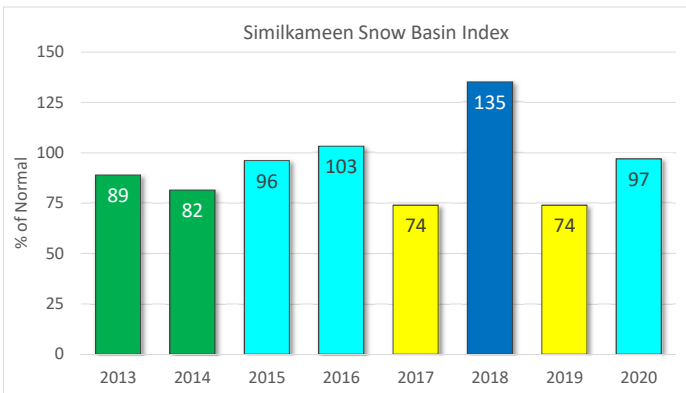
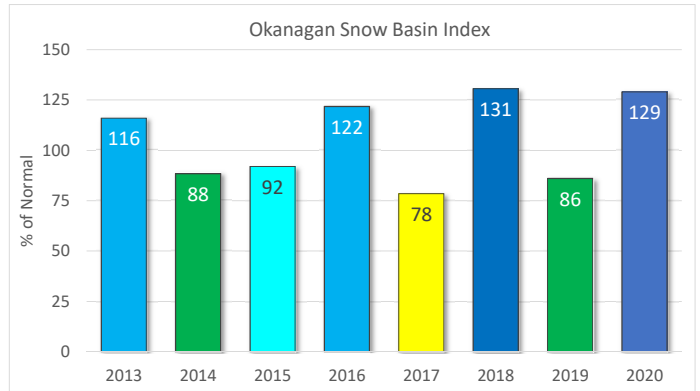
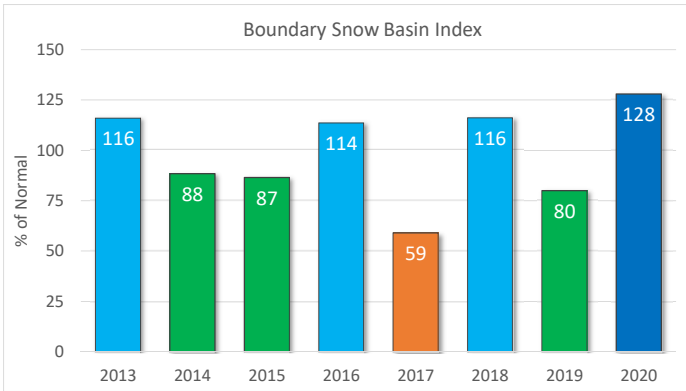
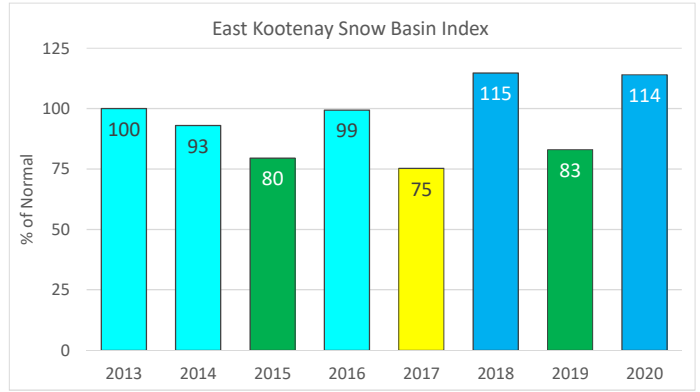
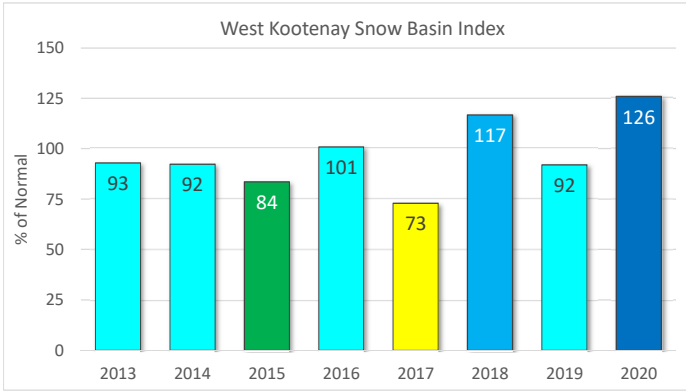
Figure 1: Basin Snow Water Index – February 1st, 2020



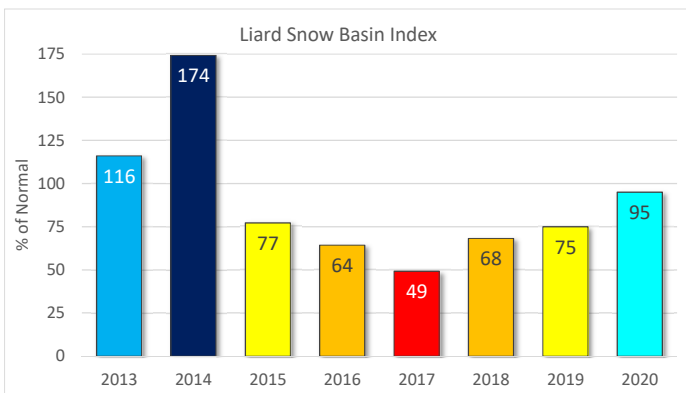
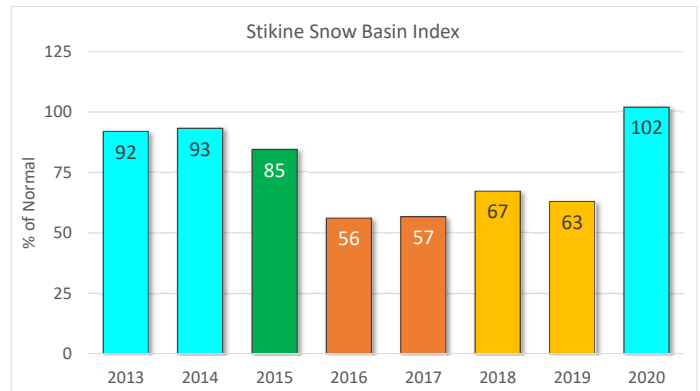
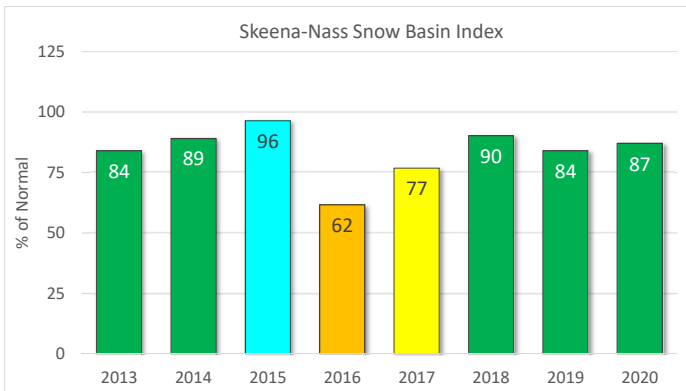
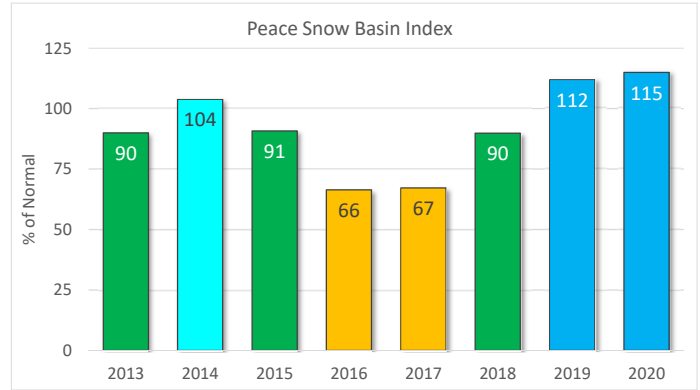
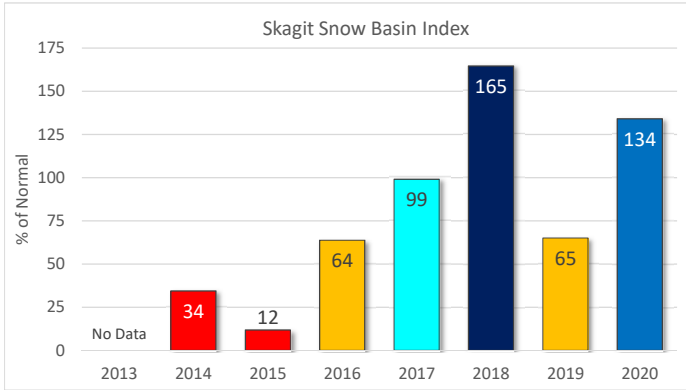
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Snow Basin Index Graphs - February 1, 2020



Snow Basin Index Graphs - February 1, 2020



Ministry of Forests, Lands and Natural Resource Operations
River Forecast Centre
Volume Runoff Forecast February 2020

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					4105	3858	106	333	5754	5325	108	396
	McGregor at Lower Canyon					4047	4185	97	553	5121	5231	98	672
	Fraser at Shelley					17525	16786	104	1716	21729	20845	104	2033
Middle Fraser Basin	Quesnel River at Quesnel					5894	4930	120	551	7589	6261	121	661
Thompson Basin	N. Thompson at McLure					10084	9411	107	710	11843	11580	102	925
	S. Thompson at Chase					7326	6389	115	650	9226	7956	116	940
	Thompson at Spences Bridge					17363	16353	106	1381	21391	20333	105	1775
Bulkley and Skeena	Bulkley at Quick					2687	2784	97	1655	3296	3381	97	2173
	Skeena at Usk					19182	19604	98	1553	22700	23948	95	2123
Nicola Lake	Inflows	94	131	72	33	146	148	99	38				
Nicola River	at Spences Bridge	514	549	94	100	577	616	94	123				
Okanagan and Kalamalka-Wood Lake	Okanagan Lake with Greyback (2F08)	703	488	144	99	760	515	148	120				
	Kalamalka-Wood Lake	44.4	33.1	134	12.8	47.6	34.5	138	15.1				
Similkameen River	at Nighthawk	1467	1391	105	166					1789	1701	105	196
	at Hedley	1131	1080	105	139					1326	1268	105	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 2020 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A01P	Yellowhead Lake	1860	2020-02-01	160	407	25		103%	70	N/A	397	207	369	619	396	20
1A02P	McBride Upper	1611	2020-02-01	152	400	26		131%	90	337	275	203	307	522	306	28
1A03P	Barkerville	1520	2020-02-01	107	287	27		134%	80	287	173	116	220	368	214	42
1A05	LONGWORTH (UPPER)	1693	N	N	N	N	N	N/A	N/A	302	N	218	365	729	559	44
1A05P	Longworth Upper	1740	2020-02-01	209	573	27		N/A	N/A	657	444	296	444	657	N/A	3
1A06A	HANSARD	608	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	112	148	326	180	19
1A10	PRINCE GEORGE A	689	2020-02-03	50	124	25		129%	68	106	61	0	105	224	96	58
1A11	PACIFIC LAKE	755	2020-02-03	156	420	27		98%	48	446	521	179	425	679	430	52
1A14P	Hedrick Lake	1100	2020-02-01	171	444	26		85%	37	538	435	282	550	934	524	20
1A15	KNUDSEN LAKE	1602	N	N	N	N	N	N/A	N/A	N	687	284	558	899	554	48
1A15P	Knudsen Lake	1601	2020-02-01	204	432	21		N/A	N/A	394	415	298	394	415	N/A	3
1A17P	Revolution Creek	1690	2020-02-01	242	760	31		132%	87	594	498	296	558	1043	574	31
1A19P	Dome Mountain	1774	2020-02-01	183	584	32		117%	77	487	328	307	458	853	501	13
			Average	163	443	27		116%	70							

Basin Index Calculation	Average SWE	428
	Average Normal	380
Upper Fraser East Basin Index - February 2020		113%

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

UPPER FRASER WEST			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A12	KAZA LAKE	1250	2020-01-28	114	279	24		116%	74	264	N	125	225	440	240	48
1A12P	Kaza Lake	1257	2020-02-01	128	303	24		N/A	N/A	334	228	164	198	334	N/A	4
1A16	BURNS LAKE	800	2020-02-04	74	144	19		130%	83	92	104	44	102	232	111	49
1A23	BIRD CREEK	1180	N	N	N	N	N	N/A	N/A	160	N	56	110	220	103	28
			Average	105	242	23		123%	79							

Basin Index Calculation	Average SWE	212
	Average Normal	176
Upper Fraser West Basin Index - February 2020		121%

Stations used in Basin Index:
1A12, 1A16

NECHAKO			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1B01	MOUNT WELLS	1490	N	N	N	N	N	N/A	N/A	312	N	188	355	606	365	35
1B01P	Mount Wells	1490	2020-02-01		440			107%	70	351	363	216	392	658	411	26
1B02	TAHTSA LAKE	1300	N	N	N	N	N	N/A	N/A	796	530	508	800	1442	853	65
1B02P	Tahtsa Lake	1300	2020-02-01		885			95%	56	855	894	621	874	1533	929	23
1B05	SKINS LAKE	890	N	N	N	N	N	N/A	N/A	78	N	35	53	224	83	51
1B06	MOUNT SWANNELL	1620	N	N	N	N	N	N/A	N/A	205	N	88	144	247	211	30
1B07	NUTLI LAKE	1490	N	N	N	N	N	N/A	N/A	302	N	218	365	729	378	27
1B08P	Mt. Pondosy	1400	2020-02-01		594			103%	59	520	526	273	535	872	578	24
			Average	N/A	640	N/A		102%	62							

Basin Index Calculation	Average SWE	640
	Average Normal	639
Nechako Basin Index - February 2020		100%

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

LOWER THOMPSON			February 2020 Data					February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C01	BROOKMERE	980	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	41	173	297	142	45
1C06	PAVILION	1230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	53	130	49	31
1C09A	HIGHLAND VALLEY	1510	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	20	81	188	67	25
1C19	GNAWED MOUNTAIN	1580	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	18	84	198	76	23
1C25	LAC LE JEUNE (UPPER)	1509	2020-01-31	46	88	19		90%	45	66	151	13	92	177	98	47
1C29	SHOVELNOSE MOUNTAIN	1450		N	N	N	N	N/A	N/A	129	241	48	167	307	169	39
1C29P	Shovelnose Moutain	1460	2020-02-01	82	166	20		N/A	N/A	143	N/A	143	143	143	N/A	1
1C32	DEADMAN RIVER	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	50	75	130	81	7
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS					0
			Average	64	127	20		90%	45							

Basin Index Calculation	Average SWE	88
	Average Normal	98
Lower Thompson Basin Index - February 2020		90%

Stations used in Basin Index:
1C25

BRIDGE			February 2020 Data					February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C05	MCGILLIVRAY PASS	1725	2020-02-03	145	390	27		98%	49	393	453	150	392	645	397	68
1C05P	McGillivray Pass	1718	2020-02-01		334			N/A	N/A	425	484	425	455	484	N/A	2
1C12P	Green Mountain	1780	2020-02-01		412			66%	13	651	654	238	653	985	620	26
1C14	BRALORNE	1389	2020-02-03	36	80	22		64%	18	138	166	0	129	338	125	48
1C14P	Bralorne	1382	2020-02-01		133			N/A	N/A	188	222	188	205	222	N/A	2
1C18P	Mission Ridge	1850	2020-02-01		436			110%	63	334	451	185	359	794	398	43
1C28	DUFFEY LAKE	1200	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C37	BRALORNE(UPPER)	1981	N	N	N	N	N	N/A	N/A	486	N	178	473	724	434	22
1C38	DOWNTON LAKE (UPPER)	1887	N	N	N	N	N	N/A	N/A	N	654	208	623	980	646	22
1C38P	Downton Lake Upper	1829	2020-02-01		502			N/A	N/A	622	560	537	580	622	N/A	4
1C39	BRIDGE GLACIER (LOWER)	1390	2020-02-03	148	386	26		87%	32	506	560	112	421	688	444	24
1C40	TYAUGHTON CREEK (NORTH)	1947	2020-02-03	110	260	24		79%	34	328	N	128	300	654	331	19
1C40P	North Tyaughton	1969	2020-02-01		186			N/A	N/A	275	355	211	248	355	N/A	4
			Average	110	312	25		84%	35							

Basin Index Calculation	Average SWE	327
	Average Normal	386
Bridge Basin Index - February 2020		85%

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

CHILCOTIN			February 2020 Data					February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C08	NAZKO	1070	2020-01-29	39	78	20		137%	73	75	52	6	44	137	57	42
1C21	BIG CREEK	1140	2020-01-25	12	19	16		39%	12	10	57	0	41	100	49	46
1C22	PUNTZI MOUNTAIN	940	2020-01-29	16	44	28		85%	35	28	64	0	52	126	52	49
			Average	22	47	21		87%	40							

Basin Index Calculation	Average SWE	47
	Average Normal	53
Chilcotin Basin Index - February 2020		89%

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

QUESNEL			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1C13A	HORSEFLY MOUNTAIN	1550	NS	NS	NS	NS	NS	N/A	N/A	552	N	238	420	624	310	46
1C17	MOUNT TIMOTHY	1660	2020-02-02	75	193	26		87%	31	242	186	92	223	384	221	52
1C20P	Boss Mountain Mine	1460	2020-02-01	145	385	27		94%	38	488	323	143	397	611	411	26
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	2020-01-31	58	142	24		102%	48	150	124	79	143	175	139	14
1C41P	Yanks Peak East	1670	2020-02-01	215	787	37		139%	95	782	443	304	540	803	565	23
			Average	123	377	28		106%	53							

Basin Index Calculation	Average SWE	377
	Average Normal	334
Quesnel Basin Index - February 2020		113%

Stations used in Basin Index:
1C23P, 1C33A, 1C41P

MIDDLE FRASER

Basin Index Calculation	Average SWE	264
	Average Normal	279
Middle River Basin Index - February 2020		95%

Stations used in Basin Index:
1C05, 1C08, 1C12P, 1C14, 1C17, 1C18P, 1C21, 1C22, 1C25, 1C33A, 1C39, 1C40, 1C41P

LOWER FRASER			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1D06P	Tenquille Lake	1680	2020-02-01	265	702	26		99%	46	814	871	344	724	1092	708	18
1D08	STAVE LAKE	1250	2020-01-28	236	857	36		97%	40	869	N	163	913	1448	881	46
1D09	WAHLEACH LAKE	1480	2020-02-03	106	360	34		99%	46	237	N	33	375	815	364	49
1D09P	Wahleach Lake Upper	1480	2020-02-01		575		E	89%	43	439	683	246	581	1061	644	26
1D10	NAHATLATCH RIVER	1550	N	N	N	N	N	N/A	N/A	948	N	262	903	1359	833	41
1D16	DICKSON LAKE	1160	2020-02-03	219	828	38		90%	52	568	N	122	814	1538	918	24
1D17P	Chilliwack River	1600	2020-02-01	534	1050	20		106%	59	999	1105	371	999	1586	992	27
1D18P	Disappointment Lake	1050	2020-02-01	216.4	751	35		69%	30	675	N/A	194	1048	1673	1083	11
1D19P	Spuzzum Creek	1180	2020-02-01	179	820	46	E	76%	37	972	1181	308	972	1902	1074	21
			Average	251	743	34		91%	44							

Basin Index Calculation	Average SWE	743
	Average Normal	833
Lower Fraser Basin Index - February 2020		89%

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

NORTH THOMPSON			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1E01B	BLUE RIVER	670	2020-01-31	98	318	32		130%	90	242	172	98	233	380	245	35
1E02P	Mount Cook	1550	2020-02-01	304	1026	34		115%	83	1055	800	642	862	1432	890	16
1E03A	TROPY MOUNTAIN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1E07	ADAMS RIVER	1720	2020-01-27	176	582	33		127%	95	524	455	285	460	654	457	38
1E08P	Azure River	1652						N/A	N/A	732	802	525	801	1043	814	23
1E10P	Kostal Lake	1770	2020-02-01	48	602	125		99%	46	672	483	417	610	790	611	33
1E14P	Cook Creek	1280	2020-02-01	159	563	35		146%	98	N/A	N/A	248	381	589	385	10
			Average	157	618	52		123%	82							

Basin Index Calculation	Average SWE	618
	Average Normal	518
North Thompson Basin Index - February 2020		119%

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

SOUTH THOMPSON			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	SWE (mm)	
1F01A	ABERDEEN LAKE	1310	2020-01-30	69	180	26		168%	97	91	147	48	117	193	107	62	
1F02	ANGLEMONT	1190	2020-01-30	142	437	31		161%	99	229	332	130	263	483	272	60	
1F03P	Park Mountain	1890	2020-02-01	226	750	33		126%	92	477	623	334	581	870	593	35	
1F04P	Enderby	1950	2020-02-01	273	717	26		N/A	N/A	591	684	591	607	684	N/A	3	
1F06P	Celista Mountain	1500	2020-02-01	227	736	32		114%	100	658	638	421	627	679	643	14	*record high
			Average	187	564	30		142%	97								

Basin Index Calculation	Average SWE	526
	Average Normal	404
South Thompson Basin Index - February 2020		130%

Stations used in Basin Index:
1F01A, 1F02, 1F03P, 1F04P, 1F06P

UPPER COLUMBIA			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	SWE (mm)	
2A02	GLACIER	1250	2020-01-28	166	606	37		129%	91	599	434	241	464	828	468	78	
2A03A	FIELD	1285	2020-01-27	64	157	25		128%	82	121	116	46	121	233	123	80	
2A06P	Mount Revelstoke	1850	2020-02-01		960			117%	86	827	822	464	807	1196	819	26	
2A07	KICKING HORSE	1650	2020-01-28	98	286	29		126%	78	232	254	102	246	384	227	73	
2A11	BEAVERFOOT	1890	2020-01-30	69	170	25		120%	75	148	N	78	142	249	142	49	
2A14	MOUNT ABBOTT	2010	2020-01-28	252	902	36		110%	70	950	840	396	820	1209	822	61	
2A16	GOLDSTREAM	1920	2020-02-03	299	963	32		118%	88	824	781	460	763	1136	816	50	
2A17	FIDELITY MOUNTAIN	1870	2020-01-28	275	1085	39		127%	87	917	750	430	838	1376	854	56	
2A18	KEYSTONE CREEK	1890	2020-02-03	222	710	32	A	130%	92	559	577	290	541	866	548	50	
2A18P	Keystone Creek	1840	2020-02-01		682			N/A	N/A	643	652	608	641	652	N/A	4	
2A19	VERMONT CREEK	1520	2020-01-30	110	318	29		111%	53	299	N	102	302	574	287	48	
2A21P	Molson Creek	1935	2020-02-01		814			107%	68	832	812	417	730	1067	759	38	
2A22	SUNBEAM LAKE	2010	2020-02-03	236	745	32		118%	74	634	716	348	620	886	629	50	
2A23	BUSH RIVER	1920	2020-02-03	229	684	30	A	119%	76	619	N	292	579	902	577	46	
2A25	KIRBYVILLE LAKE	1750	2020-02-03	288	993	34		120%	91	892	862	381	832	1160	827	43	
2A27	DOWNIE SLIDE (LOWER)	980	2020-02-03	208	692	33		138%	98	494	486	256	480	740	501	37	
2A29	DOWNIE SLIDE (UPPER)	1630	2020-02-03	312	1088	35		113%	74	1040	1022	466	902	1422	965	36	
2A30P	Colpitti Creek	2131	2020-02-01		642			119%	95	599	682	243	519	682	540	10	
2A31P	Caribou Creek Upper	2201	2020-02-01		678			N/A	N/A	634	739	570	627	739	N/A	4	
2A32P	Wildcat Creek	2122	2020-02-01		544			N/A	N/A	508	428	325	381	508	N/A	4	
			Average	202	686	32		121%	81								

Basin Index Calculation	Average SWE	695
	Average Normal	583
Upper Columbia Basin Index - February 2020		119%

Stations used in Basin Index:
2A02, 2A03A, 2A06P, 2A07, 2A11, 2A14, 2A16, 2A17, 2A18, 2A19, 2A21P, 2A22, 2A23, 2A25, 2A27, 2A29, 2A30P

WEST KOOTENAY			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	SWE (mm)	
2B02A	FARRON	1220	2020-01-30	99	241	24		110%	72	231	318	63	213	346	219	46	
2B05	WHATSHAN (UPPER)	1525	2020-02-02	207	661	32		139%	96	365	517	242	445	759	475	41	
2B06P	Barnes Creek	1620	2020-02-01		518			140%	95	348	418	149	355	566	369	27	
2B07	KOCH CREEK	1860	2020-02-02	195	591	30		119%	82	463	550	203	493	708	497	38	
2B08P	St. Leon Creek	1800	2020-02-01		1057			138%	98	699	803	322	699	1170	767	25	
2B09	RECORD MOUNTAIN	1890	2020-02-03	189	544	29		113%	68	396	565	117	457	802	481	44	
2D02	FERGUSON	880	2020-01-28	165	501	30		123%	83	390	443	237	409	616	407	47	
2D03	SANDON	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	264		328	N/A	2	
2D04	NELSON	930	2020-01-29	80	257	32	A	97%	48	198	296	79	265	508	264	81	
2D05	GRAY CREEK (LOWER)	1550	2020-01-30	122	358	29		118%	83	265	364	127	312	511	304	67	

2D06	CHAR CREEK	1310	2020-01-31	149	402	27	108%	67	312	481	117	363	650	371	54
2D07A	DUNCAN LAKE NO. 2	630	2020-01-30	53	192	36	145%	94	70	166	60	110	283	132	29
2D07AP	Duncan Lake Dam 2	559	2020-02-01	28	161	58	N/A	N/A	N/A	N/A				N/A	0
2D08P	East Creek	2030	2020-02-01		791		128%	93	719	659	281	603	1012	616	39
2D09	MOUNT TEMPLEMAN	1860	N	N	N	N	N/A	N/A	N	N	277	520	902	701	21
2D10	GRAY CREEK (UPPER)	1940	2020-01-30	178	574	32	115%	79	382	N	268	503	792	497	44
2D14P	Redfish Creek	2104	2020-02-01	316	1154	37	141%	100	835	939	529	850	1068	821	18
			Average	148	533	33	124%	83							

*record high

Basin Index Calculation	Average SWE	560
	Average Normal	444
West Kootenay Basin Index - February 2020		126%

Stations used in Basin Index:
2B02A, 2B05, 2B06P, 2B07, 2B08P, 2B09, 2D02, 2D04, 2D05, 2D06, 2D07A, 2D08P, 2D10, 2D14P

EAST KOOTENAY			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2C01	SINCLAIR PASS	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	33	102	208	77	44
2C04	SULLIVAN MINE	1550	2020-01-27	69	249	36		133%	74	124	237	46	212	397	187	74
2C09Q	Morrissey Ridge	1860	2020-02-01		473			102%	63	319	411	180	448	886	463	36
2C10P	Moyie Mountain	1930	2020-02-01	93	324	35		113%	75	223	319	104	271	521	286	40
2C14P	Floe Lake	2090	2020-02-01		536			114%	67	435	563	225	457	750	471	25
2C15	MOUNT ASSINIBOINE	2230	2020-01-30	133	409	31		117%	81	353	N	140	345	592	351	43
2C16	MOUNT JOFFRE	1750	2020-01-30	100	302	30		126%	84	194	N	96	234	439	240	45
2C17	THUNDER CREEK	2010	2020-01-30	73	187	26		107%	58	135	N	69	173	335	175	43
			Average	94	354	31		116%	72							

Basin Index Calculation	Average SWE	354
	Average Normal	310
East Kootenay Basin Index - February 2020		114%

Stations used in Basin Index:
2C04, 2C09Q, 2C10P, 2C14P, 2C15, 2C16, 2C17

BOUNDARY			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2E01	MONASHEE PASS	1370	2020-02-02	116	360	31		153%	99	184	244	103	235	364	236	58
2E02	CARMI	1250	NS	NS	NS	NS	NS	N/A	N/A	86	NS	51	112	196	97	28
2E03	BIG WHITE MOUNTAIN	1680	2020-01-29	151	394	26		122%	76	284	411	178	322	483	322	52
2E07P	Grano Creek	1860	2020-02-01	122	381	31		115%	75	234	382	157	304	476	330	21
			Average	130	378	29		130%	83							

Basin Index Calculation	Average SWE	378
	Average Normal	296
Boundary Basin Index - February 2020		128%

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

OKANAGAN			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2F01A	TROUT CREEK (West)	1430	2020-01-27	59	174	29		118%	74	90	181	84	150	212	147	10
2F01AP	Trout Creek West	1420	2020-02-01	58	181	31		N/A	N/A	114	189	114		189	N/A	2
2F02	SUMMERLAND RESERVOIR	1280	2020-01-29	79	199	25		128%	75	137	219	65	169	307	156	55
2F03	MCCULLOCH	1280	2020-01-30	70	175	25		150%	89	96	167	57	122	196	117	83
2F04	GRAYSTOKE LAKE	1840	2020-01-20	110	316	29	B	144%	94	200	248	128	216	324	219	20
2F05P	Mission Creek	1780	2020-02-01	131	427	33		133%	92	264	378	167	310	525	320	49
2F07	POSTILL LAKE	1370	2020-01-30	70	200	29		145%	93	96	N	73	143	243	138	68
2F08	GREYBACK RESERVOIR	1550	2020-02-03	61	202	33		129%	84	92		60	161	269	157	46
2F08P	Greyback Reservoir	1550	2020-02-01	70	191	27		N/A	N/A	111	222	111	120	222	N/A	3
2F09	WHITEROCKS MOUNTAIN	1830	N	N	N	N	N	N/A	N/A	392	435	135	364	693	366	47

2F10	Silver Star Mountain	1840	2020-01-31	211	738	35	E	148%	N/A	NS	NS	229	483	721	498	57
2F10P	Silver Star Mountain	1839	2020-02-01	195	692	35		N/A	N/A	508	530	359	496	530	N/A	4
2F11	ISINTOK LAKE	1680	2020-01-28	52	126	24		116%	64	66	172	26	109	307	109	54
2F12	MOUNT KOBAU	1810	2020-01-28	71	181	25		92%	44	135	269	43	204	400	196	53
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	208	11
2F18P	Brenda Mine	1460	2020-02-01		233			94%	55	184	252	152	218	368	249	23
2F19	OYAMA LAKE	1340	2020-01-31	76	190	25		160%	96	78	157	31	114	193	119	51
2F20	VASEUX CREEK	1400	2020-01-27	37	84	23		97%	40	70	122	44	93	208	87	32
2F21	BOULEAU LAKE	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	168	224	396	216	9
2F23	MACDONALD LAKE	1740	N	N	N	N	N	N/A	N/A	290	410	132	287	411	273	20
2F24	ISLAHT LAKE	1480	2020-01-31	106	298	28		132%	90	222	230	119	210	364	225	37
2F25	POSTILL LAKE UPPER	1540	2020-01-30	74	200	27		N/A	N/A	111	N	111	146	210	N/A	6
			Average	90	267	28		128%	76							

Basin Index Calculation	Average SWE	253
	Average Normal	196
Okanagan Basin Index - February 2020		129%

Stations used in Basin Index:

2F01A, 2F02, 2F03, 2F04, 2F05P, 2F07, 2F08, 2F10, 2F11, 2F12, 2F18P, 2F19, 2F20, 2F24

SIMILKAMEEN			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2G03P	Blackwall Peak	1940	2020-02-01	214	561	26		101%	53	460	639	159	548	1076	553	52
2G04	LOST HORSE MOUNTAIN	1920	2020-01-29	62	154	25		111%	55	114	225	70	149	335	139	57
2G05	MISSEZULA MOUNTAIN	1550	2020-01-29	55	124	23		86%	35	85	184	60	139	284	144	53
2G06	HAMILTON HILL	1490	2020-01-27	73	176	24		83%	35	119	241	91	209	411	213	56
			Average	101	254	24		95%	45							

Basin Index Calculation	Average SWE	254
	Average Normal	262
Similkameen Basin Index - February 2020		97%

Stations used in Basin Index:

2G03P, 2G04, 2G05, 2G06

SOUTH COAST			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
3A01	GROUSE MOUNTAIN	1100	2020-02-04	218	928	43		122%	66	668	1224	50	785	1530	761	70
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	588		588	620	1
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	2020-02-01	150.8	537	36		N/A	N/A	622	N/A	622	622	622	N/A	1
3A10	DOG MOUNTAIN	1080	2020-02-05	192	803	42		112%	58	578	1033	77	732	1243	715	36
3A19	ORCHID LAKE	1190	2020-02-03	272	1087	40		98%	47	1054	1495	273	1118	1855	1114	40
3A20	CALLAGHAN CREEK	1040	N	N	N	N	N	N/A	N/A	672	836	50	570	1040	542	35
3A20P	Callaghan	1017	2020-02-01		597			N/A	N/A	759	N/A	759	759	759	N/A	1
3A22P	Nostetuko River	1500	2020-02-01	130	385	30		105%	49	380	485	30	386	782	368	29
3A24P	Mosley Creek Upper	1650	2020-02-01	81	215	27		89%	48	205	308	98	219	509	242	30
3A25P	Squamish River Upper	1340	2020-02-01	341	1097	32	E	101%	51	1241	1350	503	1088	1555	1087	29
3A26	CHAPMAN CREEK	1022	2020-01-28	216	850	39		101%	51	780	1306	540	846	1306	844	10
3A27	EDWARDS LAKE	1070	2020-01-28	137	560	41		82%	35	540	860	410	634	944	682	8
3A28P	Tetrahedron	1420						N/A	N/A	857	995	857	926	995	N/A	2
			Average	193	706	37		101%	51							

Basin Index Calculation	Average SWE	741
	Average Normal	727
South Coast Basin Index - February 2020		102%

Stations used in Basin Index:

3A01, 3A09P, 3A10, 3A19, 3A22P, 3A24P, 3A25P, 3A26, 3A27

VANCOUVER ISLAND			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3B01	FORBIDDEN PLATEAU	1100	2020-02-03	273	1060	39		115%	58	980	1257	42	988	1640	922	64
3B02A	MOUNT COKELY	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	234	552	1050	586	6
3B04	ELK RIVER	270	2020-02-03	26	67	26		110%	44	36	76	0	80	544	61	60
3B10	UPPER THELWOOD LAKE	990	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	28	843	1534	285	19
3B17P	Wolf River Upper	1490	2020-02-01		707			82%	30	879	1065	171	878	1383	858	32
3B18	WOLF RIVER (MIDDLE)	990	2020-02-03	115	358	31		90%	44	340	N	0	402	742	400	47
3B19	WOLF RIVER (LOWER)	640	2020-02-03	88	258	29		106%	56	228	N	0	246	572	244	46
3B23P	Jump Creek	1160	2020-02-01	190	543	29		88%	40	516	N/A	0	683	1367	616	22
3B24P	Heather Mountain Upper	1190	2020-02-01	194	789	41		N/A	N/A	593	1282	593	869	1282	N/A	4
3B26P	Mount Arrowsmith	1465	2020-02-01	161	623	39		N/A	N/A	690	886	690	788	886	N/A	2
			Average	150	551	33		98%	45							

Basin Index Calculation	Average SWE	499
	Average Normal	517
Vancouver Island Basin Index - February 2020		97%

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

CENTRAL COAST			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3C07	WEDEENE RIVER SOUTH	220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	105	340	497	304	13
3C08P	Burnt Bridge Creek	1330	2020-02-01	245	686	28		119%	77	536	475	240	536	1119	577	21
			Average	245	686	28		119%	77							

Basin Index Calculation	Average SWE	686
	Average Normal	577
Central Coast Basin Index - February 2020		119%

Stations used in Basin Index:
3C08P

SKAGIT			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
3D01C	SUMALLO RIVER WEST	790	2020-02-03	64	200	31		124%	54	84	265	0	150	368	161	25
3D02	LIGHTNING LAKE	1220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	67	189	242	154	4
3D03A	KLESILKWA	1175	2020-02-03	77	256	33		142%	73	136	N	0	193	508	180	61
			Average	71	228	32		133%	64							

Basin Index Calculation	Average SWE	228
	Average Normal	171
Skagit Basin Index - February 2020		134%

Stations used in Basin Index:
3D01C, 3D03A

PEACE			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4A02P	Pine Pass	1400	2020-02-01	299	934	31		125%	83	822	700	469	796	1257	745	27
4A03	WARE (UPPER)	1575	2020-01-27	77	187	24		102%	64	189	195	108	173	289	184	49
4A03P	Ware Upper	1565	2020-02-01	82	175	21		N/A	N/A	182	182	130	182	182	N/A	3
4A04	WARE (LOWER)	970	2020-01-27	71	163	23	A	114%	75	N	142	63	137	286	143	49
4A04P	Ware Lower	971	2020-02-01	77	165	21		N/A	N/A	163	168	89	163	168	N/A	3
4A05	GERMANSEN (UPPER)	1480	2020-01-28	119	308	26		130%	84	329	263	140	221	371	237	51
4A06	TUTIZZI LAKE	1045	2020-01-28	97	207	21		111%	74	205	206	95	175	348	186	50
4A07	LADY LAURIER LAKE	1440	2020-01-26	132	344	26		93%	56	342	314	224	325	679	369	48
4A09	PULPIT LAKE	1335	2020-01-27	126	344	27		110%	77	320	256	190	282	530	312	48

4A09P	Pulpit Lake	1311	2020-02-01	112	332	30	102%	59	281	218	182	320	463	324	29	
4A10	FREDRICKSON LAKE	1325	2020-01-27	102	241	24	135%	95	187	131	105	161	309	179	51	
4A11	TRYGVVE LAKE	1410	2020-01-27	120	299	25	113%	76	N	210	160	236	434	264	48	
4A12	TSAYDAYCHI LAKE	1190	2020-01-28	146	335	23	121%	82	360	307	146	263	507	277	51	
4A13	PHILIP LAKE	1035	2020-01-28	97	223	23	112%	70	261	180	118	187	355	199	52	
4A13P	Philip Lake	1028	2020-02-01		250		N/A	N/A	N/A	N/A				N/A	0	
4A16	MORFEE MOUNTAIN	1430	2020-01-29	219	710	32	119%	78	723	466	323	579	952	597	51	
4A18	MOUNT SHEBA	1490	2020-02-03	243	770	32	136%	91	783	617	299	564	932	566	50	
4A18P	MOUNT SHEBA	1484	2020-02-01	262	814	31	N/A	N/A	732	N/A	732		732	N/A	1	
4A20	MONKMAN CREEK	1570	2020-02-03	157	391	25	104%	59	377	500	163	378	775	376	40	
4A20P	Monkman Creek	1570	2020-02-01		302		N/A	N/A	339	N/A	339		339	N/A	1	
4A21	MOUNT STEARNS	1505	2020-01-26	52	98	19	95%	48	103	94	40	98	196	103	45	
4A25	FORT ST. JOHN A	690	2020-01-27	43	70	16	88%	45	96	70	22	71	154	80	45	
4A27P	Kwadacha North	1554	2020-02-01	108	264	24	113%	84	212	221	137	221	371	234	29	
4A30P	Aiken Lake	1050	2020-02-01	101	185	18	96%	53	198	124	100	182	330	193	32	
4A31P	Crying Girl Prairie	1358	2020-02-01		174		N/A	N/A	182	190	100	174	190	N/A	4	
4A33P	Muskwa-Kechika	1196	2020-02-01		60		N/A	N/A	93	81	23	83	93	N/A	4	
4A34P	Dowling Creek	1456	2020-02-01		114		N/A	N/A						N/A		
4A36P	Parsnip Upper	790	2020-02-01	107	272	25	N/A	N/A	305		305		305	N/A	1	
			Average	128	312	25	112%	71								

Basin Index Calculation	Average SWE	337
	Average Normal	293
Peace Basin Index - February 2020		115%

Stations used in Basin Index:

4A02P, 4A03, 4A04, 4A05, 4A06, 4A07, 4A09, 4A09P, 4A10, 4A11, 4A12, 4A13, 4A16, 4A18, 4A20, 4A21, 4A25, 4A27P, 4A30P

SKEENA-NASS			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4B01	KIDPRICE LAKE	1370	N	N	N	N	N	N/A	N/A	595	N	403	595	1220	664	60
4B02	JOHANSON LAKE	1420	2020-01-28	105	267	25		127%	88	229	176	115	191	355	211	49
4B03A	HUDSON BAY MTN.	1480	2020-01-31	134	315	24		87%	35	363	364	210	341	665	361	48
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	163	N	99	156	298	156	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	220	N	171	295	603	312	40
4B11A	BEAR PASS	460	N	N	N	N	N	N/A	N/A	220	340	192	412	821	455	31
4B13A	TERRACE AIRPORT	1805	2020-01-31	63	217	34		170%	89	86	146	0	121	330	128	39
4B14	EQUITY MINE	1420	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	174	246	444	265	13
4B15	LU LAKE	1300	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	134	200	352	214	12
4B15P	Lu Lake	1300	2020-02-01	97	217	22		113%	70	206	218	94	205	353	192	22
4B16P	Shedin Creek	1480	2020-02-01	200	487	24		79%	30	474	384	262	574	877	617	23
4B17P	Tsai Creek	1360	2020-02-01		635			77%	17	772	644	423	771	1482	827	22
4B18P	Cedar-Kiteen	885	2020-02-01	146	322	22		66%	35	395	N/A	233	395	847	486	17
			Average	124	351	25		103%	52							

Basin Index Calculation	Average SWE	351
	Average Normal	403
Skeena-Nass Basin Index - February 2020		87%

Stations used in Basin Index:

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

LIARD			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
4C01	SIKANNI LAKE	1385	2020-01-27	76	177	23		92%	60	160	162	81	168	325	193	50
4C01P	Sikanni Lake	1387	2020-02-01	95	202	21		N/A	N/A	182	237	94	182	237	N/A	3
4C02	SUMMIT LAKE	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	36	74	146	91	21
4C03	DEASE LAKE	820	2020-01-31	53	127	24		126%	77	68	53	36	91	218	101	51
4C05	FORT NELSON AIRPORT	380	2020-01-31	34	47	14		62%	9	51	51	35	76	128	76	52
Average				65	138	21		93%	49							

Basin Index Calculation	Average SWE	117
	Average Normal	123
Liard Basin Index - February 2020		95%

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

STIKINE			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
4D02	ISKUT	1000	2020-01-31	49	94	19		115%	68	48	36	30	77	162	82	40
4D10P	Tumeka Creek	1220	2020-02-01		426			94%	59	306	225	212	400	744	452	22
4D11P	Kinaskan Lake	1020	2020-02-01	128	318	25		110%	76	182	113	113	243	516	288	22
Average				89	279	22		106%	68							

Basin Index Calculation	Average SWE	279
	Average Normal	274
Stikine Basin Index - February 2020		102%

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

NORTHWEST			February 2020 Data				February 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 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	50	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 2020		N/A

Stations used in Basin Index:
N/A

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	451
	Average Normal	411
British Columbia Basin Index - February 2020		110%

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 – March 1st, 2020

Executive Summary

Mixed weather through February has led to on-going development of the province's snowpack. The provincial average of snow measurements is 111% of normal, a slight increase from 110% of normal on February 1st, 2020. The snow basin index for the Fraser River is 117%, with high snow pack levels in its major tributaries. Seasonal flood risk is elevated in many regions, including the Upper Fraser West, Upper Fraser East, North Thompson, South Thompson, West Kootenay, Boundary, Central Coast and Skagit. Typically, 80% of the annual snow accumulation has occurred by March 1st, with another 4-8 weeks of snow accumulation still to come. While changes to the overall provincial seasonal flood risk are possible over the next few months (either increases or decreases), current trends in snowpack are likely to persist. Snow pack is one element of seasonal flood risk in BC, however snowpack alone does not predict whether flooding will occur; spring weather is a critical factor determining the rate that snow melts, while extreme rainfall can also cause spring flooding independent of snow conditions.

Overview

The March 1st snow survey is now complete. Data from 131 manual snow courses and 82 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

An atmospheric river event impacted British Columbia at the start of February, with warm temperatures and extreme rainfall leading to flooding on Vancouver Island and the South Coast. Weather patterns were mixed through the rest of the month, with periods of north-west flow (cooler and moister conditions) and high pressure (cooler and drier).

Monthly temperatures across BC were mixed, with many areas being near normal (monthly temperature anomalies of -1 °C to +1 °C), particularly in coastal areas of BC. Warmer than normal temperatures (+1 °C to +3 °C) were present to in the South Interior, Central Interior and Northern BC.

Precipitation was more modest across BC in February, following a wet January. Coastal areas, including Vancouver Island and the South Coast, had below normal precipitation. In the BC Interior February precipitation was near-normal to above-normal for most areas.

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 – March 1st, 2020

Snowpack

Snow basin indices for March 1st, 2020 range from a low of 84% of normal in the Liard to a high of 139% in the Skagit (Table 1 and Figure 1). Most regions experienced steady snowpack growth since February 1st, with the overall average of province-wide measurements increasing slightly from 110% of normal last month to 111% of normal for March 1st.

Table 1 - BC Snow Basin Indices – March 1, 2020

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	135	Boundary	134
Upper Fraser East	135	Similkameen	112
Nechako	104	South Coast	101
Middle Fraser	99	Vancouver Island	93
Lower Fraser	94	Central Coast	136
North Thompson	123	Skagit	139
South Thompson	127	Peace	119
Upper Columbia	115	Skeena-Nass	93
West Kootenay	121	Stikine	104
East Kootenay	110	Liard	84
Okanagan	115	Northwest	100
Nicola	88	Fraser	117
		British Columbia	111

High snowpacks are generally present in the mountainous interior ranges of the province, with coastal areas (except for the Central Coast) seeing nearer-to-normal conditions. The Upper Fraser – West, Upper Fraser - East, Cariboo Mountains (Quesnel River), North Thompson, South Thompson, West Kootenay, Boundary, Central Coast (Bella Coola) and Skagit basins all exceed 120% of normal snow. Moderately high snowpack (110-120%) is also present in the Upper Columbia, East Kootenay, Okanagan, Similkameen, and Peace.

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There is a significant east-west divide within the Okanagan; eastern regions of the Okanagan have measurements around 120 to 150% of normal, while measurements in the western portion of the Okanagan range from 75% to 100% of normal.

The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) is 117%. During freshet, the majority of flow (roughly two-thirds) in the Fraser River originates from the Upper Fraser – East, North Thompson, South Thompson and Cariboo Mountains. Cumulative snowpack in these areas is very high (126% of normal), with snowpack in unregulated watersheds of the Fraser River upstream of Hope (e.g. excluding the Nechako and Bridge systems) being among the highest years on record. For perspective, recent years with high snow basin indices for unregulated watersheds of the Fraser River upstream of Hope are 2018 (114%); 2012 (119%); 2007 (124%); 1999 (134%); 1997 (117%).

Outlook

Neutral El Niño Southern Oscillation (ENSO) conditions have been in place since the summer of 2019, with near-normal or slightly-above normal (<0.5°C) temperature anomalies along the equatorial Pacific Ocean region. Closer to BC, warm temperature anomalies that were present earlier in the fall/winter have been dissipating since January, with cooler than normal temperatures along the BC and Alaska coastlines, and moderately warmer than normal temperatures offshore in the North Pacific.

Forecasts from the CPC are indicating a high likelihood (approximately 70-75% chance) of continued neutral ENSO conditions into the spring and early-summer. Neutral ENSO conditions generally have a less predictable association with snow pack and weather conditions in BC, in comparison to El Niño and La Niña conditions. Further, ENSO signals tend to be less pronounced over springtime in BC; springtime ENSO forecasts also tend to be less skillful than at other times of the year.

Seasonal weather forecasts produced by Environment and Climate Change Canada in late February are indicating an increased likelihood of cooler than normal temperatures for March through May for most of British Columbia, except in areas of the south coast and along the southern border where the forecast is for increased likelihood of near normal temperatures. Similar seasonal forecasts from NOAA favour near-normal to above-normal temperatures across BC through the spring. Discrepancies between these two models may be an indication that the temperature and teleconnections currently present are creating increased uncertainty over the outlook for seasonal weather this spring.

For snow-melt dominated rivers in the interior of the province, the likelihood of spring flooding increases with high snowpacks; this is most pronounced when snow basin index values approach or exceed 120%. This does not mean that spring flooding will occur, rather the chances of flooding are increased. Increased seasonal flood risk is present in the Upper

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Fraser – West, Upper Fraser - East, Cariboo Mountains (Quesnel River), North Thompson, South Thompson, West Kootenay, Boundary, Central Coast (Bella Coola) and Skagit basins.

Historically, there are few years where snow pack in the major tributaries of the Fraser River have all been high at the same time (examples include 1972, 1974 and 1999); given the influence of the Upper Fraser and Thompson River for the overall freshet flow on the lower Fraser River, seasonal flood risk for the entire Fraser River is substantial.

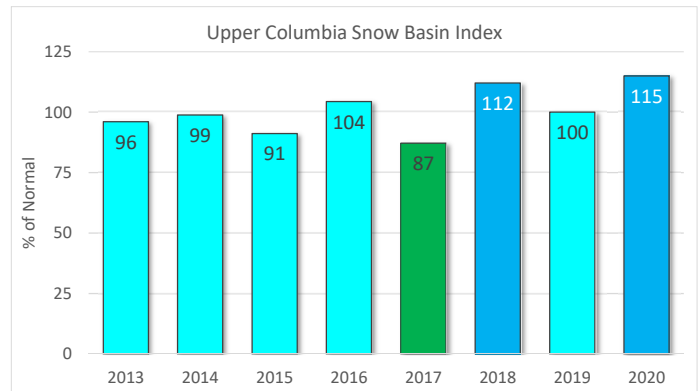
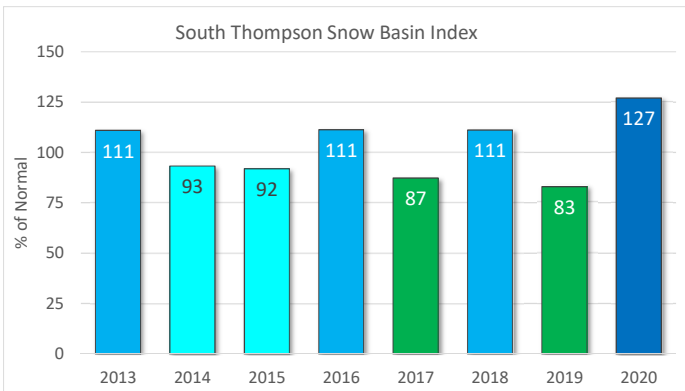
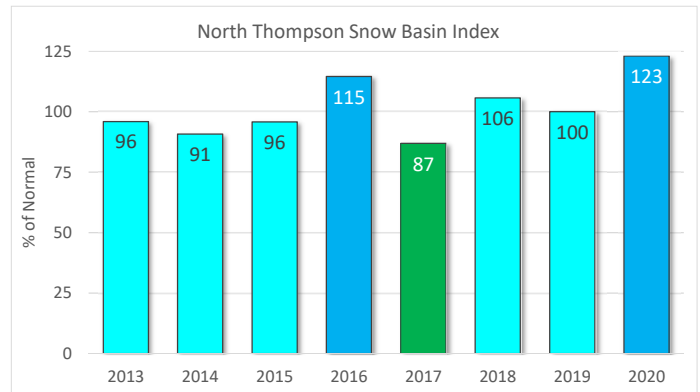
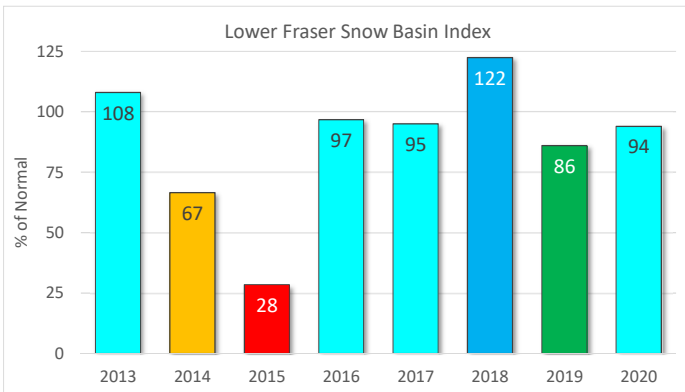
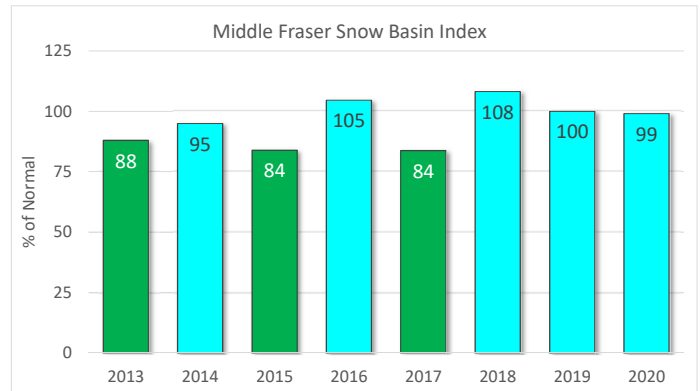
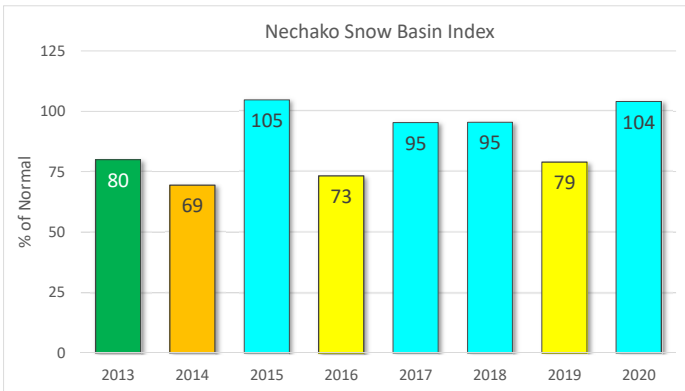
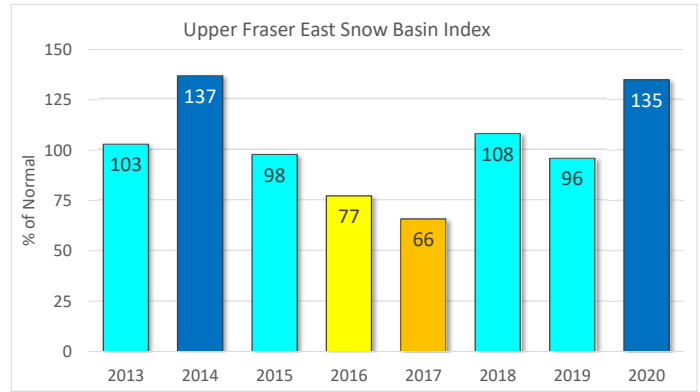
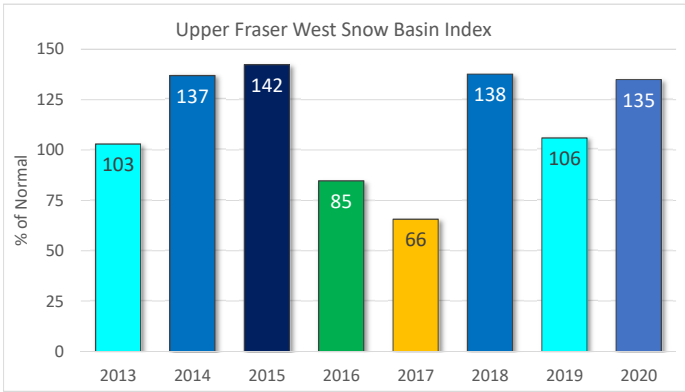
Seasonal volume forecasts for select watersheds (appended to end of the report) follow similar trends as snow pack. Volume inflow forecasts for the Okanagan system are 151-155% and are significantly higher than the overall Okanagan snow basin index. Similarly, runoff forecasts for the Similkameen River (at Hedley) are at 121%, above the snow basin index of 112%. In other areas, runoff forecasts are lower than snow basin indices, with runoff forecasts for the Nicola at 65-72%, Skeena and Bulkley at 94-98%, and Upper Fraser, Middle Fraser and Thompson tributaries at 108-118%.

By early March, nearly 80% of the annual BC snowpack has typically accumulated; high snowpack levels in some regions already exceed normal annual maximum accumulation. With one to two months left for snow accumulation, seasonal snowpacks and seasonal flood risk can still shift. Given the current ENSO neutral conditions, it is reasonable to expect increased uncertainty over seasonal weather for the remainder of this winter and into spring. From a seasonal flood perspective, a scenario of a cool and wet spring would lead to increasing risk over the next 4-8 weeks, whereas a warm and dry scenario may partially alleviate some of the current risk.

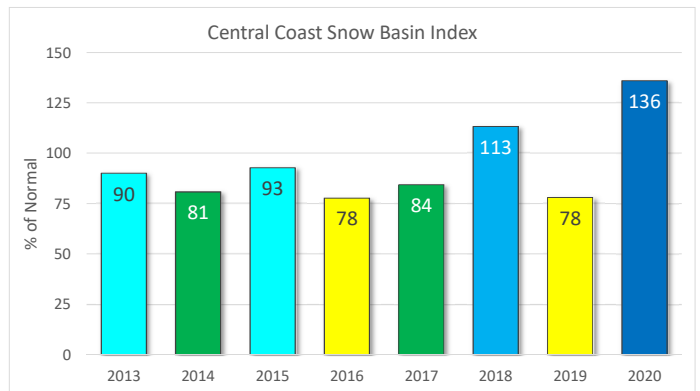
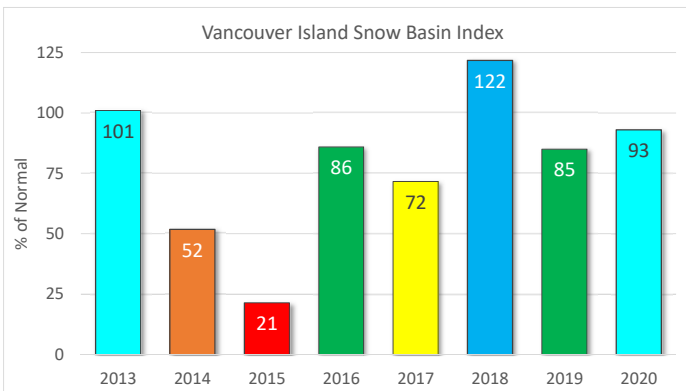
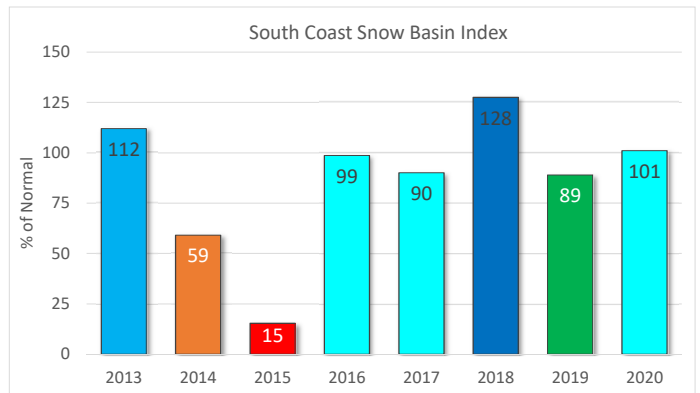
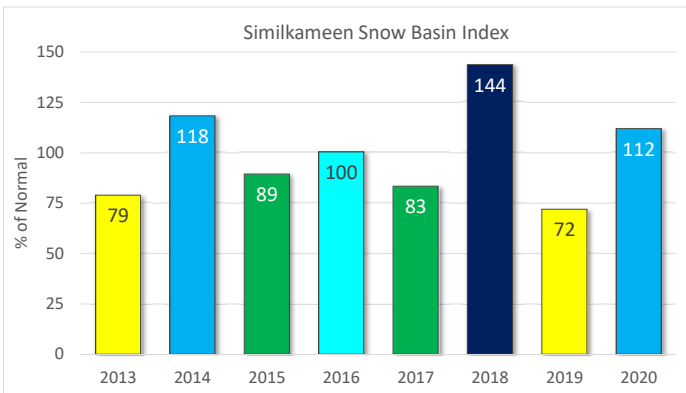
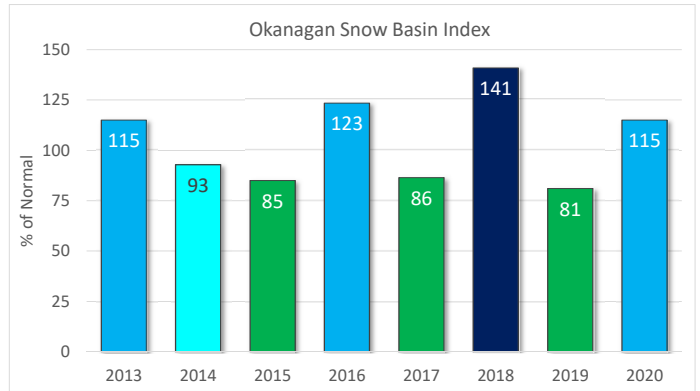
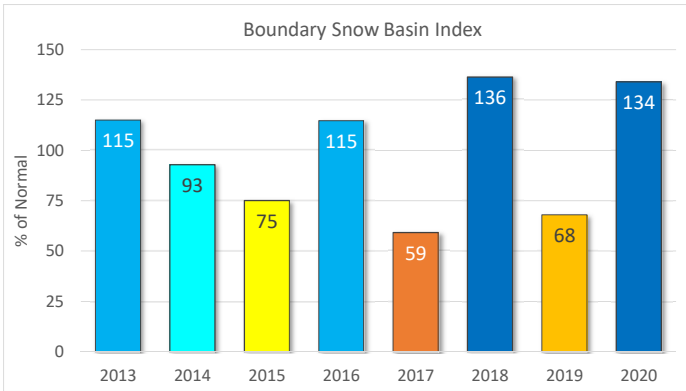
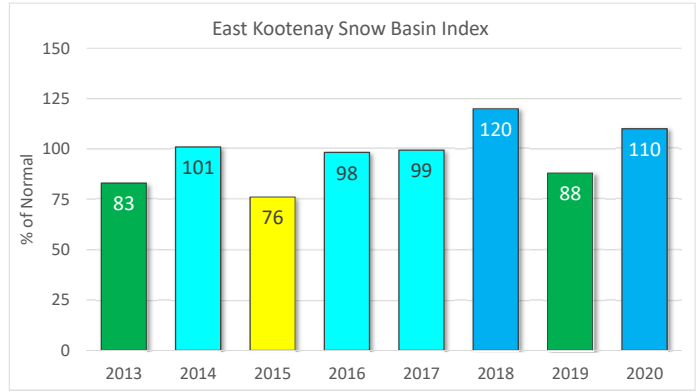
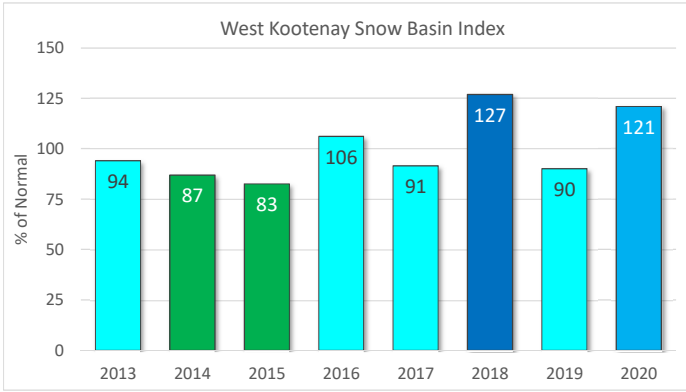
While snowpack is one risk factor for freshet flooding, snowpack alone cannot predict whether flooding will occur or not. Spring weather is also a critical flood risk factor and the timing and severity of temperature and rainfall patterns are important drivers of flooding irrespective of snowpack levels.

The River Forecast Centre will continue to monitor snowpack conditions and will provide an updated seasonal flood risk forecast in the April 1st, 2020 bulletin, which is scheduled for release on April 8th.

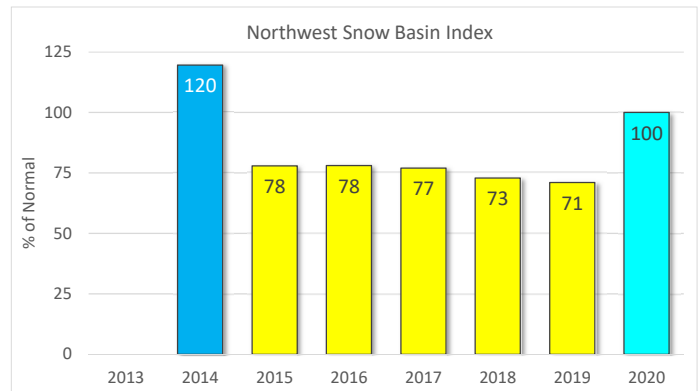
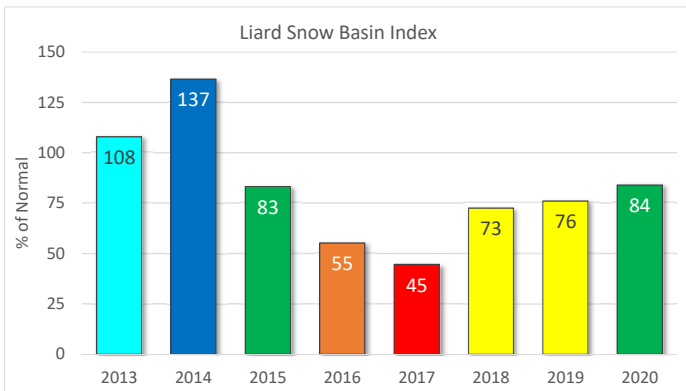
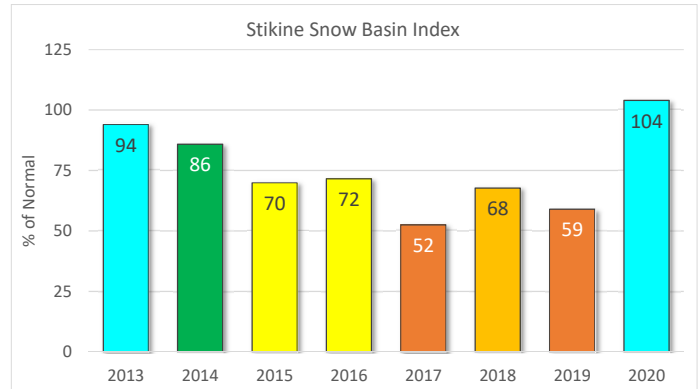
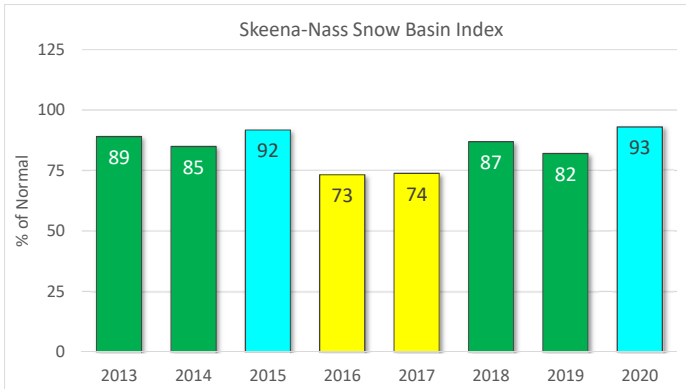
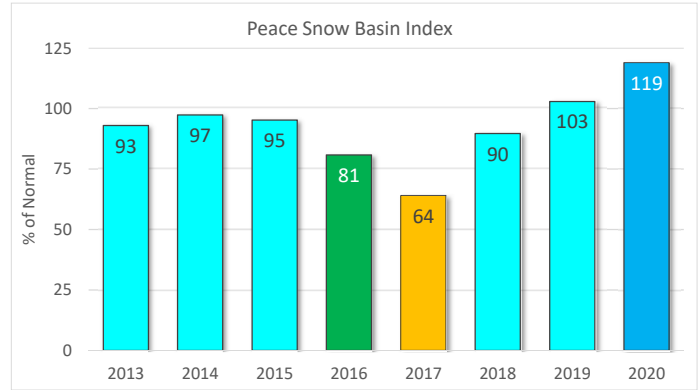
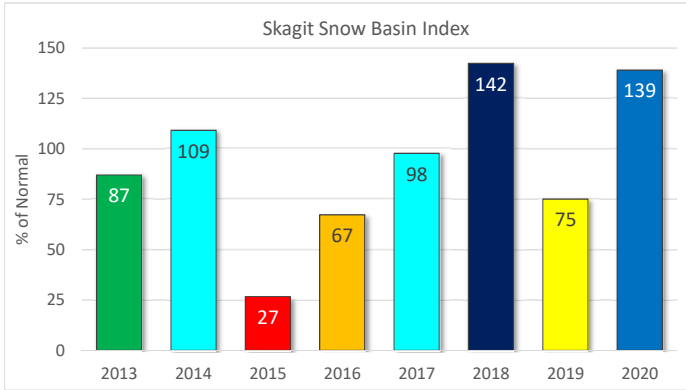
BC River Forecast Centre
March 9, 2020



Snow Basin Index Graphs - March 1, 2020



Snow Basin Index Graphs - March 1, 2020



March 2020 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A01P	Yellowhead Lake	1860	2020-03-01	170	499	29		112%	76	N/A	495	270	423	720	445	22
1A02P	McBride Upper	1611	2020-03-01	163	506	31		136%	89	360	398	257	365	556	372	28
1A03P	Barkerville	1520	2020-03-01	142	385	27		132%	89	302	290	155	286	479	292	42
1A05	LONGWORTH (UPPER)	1693	2020-03-06	319	1110	35		164%	98	N	N	307	651	1234	676	56
1A05P	Longworth Upper	1740	2020-03-01	302	742	25		N/A	N/A	705	654	379	654	705	N/A	3
1A06A	HANSARD	608	2020-03-02	77	200	26		118%	64	148	191	44	166	396	170	46
1A10	PRINCE GEORGE A	689	N	N	N	N	N	N/A	N/A	144	N	0	130	296	117	57
1A11	PACIFIC LAKE	755	2020-03-06	238	721	30		132%	74	530	660	277	531	866	546	56
1A14P	Hedrick Lake	1100	2020-03-01	256	620	24		95%	45	550	627	366	648	1057	654	20
1A15	KNUDSEN LAKE	1602	2020-03-06	319	1071	34		155%	97	657	787	404	704	1098	692	49
1A15P	Knudsen Lake	1601	2020-03-01		591			N/A	N/A	444	541	401	444	541	N/A	3
1A17P	Revolution Creek	1690	2020-03-01	311	1029	33		153%	92	633	679	339	679	1135	674	31
1A19P	Dome Mountain	1774	2020-03-01	238	780	33		128%	86	531	534	190	625	908	611	14
			Average	230	688	30		132%	81							

Basin Index Calculation	Average SWE	692
	Average Normal	513
Upper Fraser East Basin Index - March 2020		135%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A05, 1A06A, 1A11, 1A14P, 1A15, 1A17P, 1A19P

UPPER FRASER WEST			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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	300	287	162	295	478	295	54
1A12P	Kaza Lake	1257	2020-03-01	136	340	25		N/A	N/A	288	269	200	263	288	N/A	4
1A16	BURNS LAKE	800	2020-03-02	61	160	26		123%	75	116	200	0	117	250	130	49
1A23	BIRD CREEK	1180	2020-02-29	87	192	22		147%	88	174	296	72	145	296	131	30
			Average	95	231	24		135%	82							

Basin Index Calculation	Average SWE	176
	Average Normal	131
Upper Fraser West Basin Index - March 2020		135%

Stations used in Basin Index:
1A16, 1A23

NECHAKO			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1B01	MOUNT WELLS	1490	2020-02-29	157	464	30		103%	63	339	531	244	437	954	452	67
1B01P	Mount Wells	1490	2020-03-01		544			116%	70	409	533	246	468	735	470	26
1B02	TAHTSA LAKE	1300	2020-02-28	280	945	34		91%	43	780	865	571	985	1777	1034	68
1B02P	Tahtsa Lake	1300	2020-03-01		1043			94%	47	868	1113	661	1060	1722	1108	25
1B05	SKINS LAKE	890	2020-02-29	59	135	23		131%	78	107	176	54	104	226	103	55
1B06	MOUNT SWANNELL	1620	2020-02-29	112	345	31		137%	91	245	314	132	251	446	252	31
1B07	NUTLI LAKE	1490	2020-02-29	164	512	31		111%	75	324	444	229	444	779	460	29
1B08P	Mt. Pondosy	1400	2020-03-01		738			108%	67	523	692	351	618	987	686	24
			Average	154	591	30		111%	67							

Basin Index Calculation	Average SWE	591
	Average Normal	571
Nechako Basin Index - March 2020		104%

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

LOWER THOMPSON			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C01	BROOKMERE	980	2020-02-28	42	92	22		55%	5	116	228	53	185	351	167	74
1C06	PAVILION	1230	2020-02-29	23	58	25		100%	37	40	N	0	66	168	58	61
1C09A	HIGHLAND VALLEY	1510	2020-02-26	26	110	42		143%	72	90	156	25	86	229	77	53
1C19	GNAWED MOUNTAIN	1580	N	N	N	N	N	N/A	N/A	130	191	15	106	259	96	51
1C25	LAC LE JEUNE (UPPER)	1509	2020-03-03	59	156	26		130%	78	91	194	13	115	213	120	47
1C29	SHOVELNOSE MOUNTAIN	1450	2020-02-28	61	167	27		77%	19	164	298	100	226	398	216	38
1C29P	Shovelnose Moutain	1460	2020-03-01	70	205	29		N/A	N/A	167	N/A	167		167	N/A	1
1C32	DEADMAN RIVER	1430	2020-03-02	58	120	21		120%	68	110	N	44	107	220	100	35
1C42	CAVERHILL LAKE NEW	1400	2020-02-26	110	329	30		N/A	100	210	280	60	203	280	N/A	15
			Average	56	155	28		104%	54							

*record high

Basin Index Calculation	Average SWE	117
	Average Normal	123
Lower Thompson Basin Index - March 2020		95%

Stations used in Basin Index:
1C01, 1C06, 1C09A, 1C25, 1C29, 1C32
*sub-region of Middle Fraser

BRIDGE			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C05	MCGILLIVRAY PASS	1725	2020-03-01	151	484	32		98%	45	445	467	222	499	1016	492	65
1C05P	McGillivray Pass	1718	2020-03-01		383			N/A	N/A	464	549	464		541	N/A	2
1C12P	Green Mountain	1780	2020-03-01		484			64%	11	684	696	311	724	1265	751	26
1C14	BRALORNE	1389	2020-03-01	42	103	25		69%	23	149	171	0	160	363	149	56
1C14P	Bralorne	1382	2020-03-01		170			N/A	N/A	210	245	210		245	N/A	2
1C18P	Mission Ridge	1850	2020-03-01		502			106%	61	392	557	160	438	866	475	43
1C28	DUFFEY LAKE	1200	2020-03-02	150	452			106%	68	423	680	194	423	762	428	41
1C37	BRALORNE(UPPER)	1981	N	N	N	N	N	N/A	N/A	526	N	268	550	944	543	21
1C38	DOWNTON LAKE (UPPER)	1887	2020-03-01	189	642	34		87%	22	768	652	302	720	1250	737	23
1C38P	Downton Lake Upper	1829	2020-03-01		558			N/A	N/A	672	626	626	670	686	N/A	4
1C39	BRIDGE GLACIER (LOWER)	1390	2020-03-01	141	420	30		83%	24	556	576	146	521	954	508	24
1C40	TYAUGHTON CREEK (NORTH)	1947	2020-03-01	113	316	28		79%	29	392	454	138	367	916	399	24
1C40P	North Tyaughton	1969	2020-03-01		241			N/A	N/A	316	422	291	307	422	N/A	4
			Average	131	396	30		87%	35							

Basin Index Calculation	Average SWE	425
	Average Normal	492
Bridge Basin Index - March 2020		86%

Stations used in Basin Index:
1C05, 1C12P, 1C14, 1C18P, 1C28, 1C38, 1C39, 1C40
*sub-region of Middle Fraser

CHILCOTIN			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C08	NAZKO	1070	2020-02-28	45	94	21		147%	71	81	112	0	68	155	64	43
1C21	BIG CREEK	1140	2020-02-28	14	36	26		75%	24	31	94	0	48	112	48	47
1C22	PUNTZI MOUNTAIN	940	2020-02-29	23	52	23		95%	48	44	72	0	52	128	55	49
			Average	27	61	23		105%	48							

Basin Index Calculation	Average SWE	61
	Average Normal	56
Chilcotin Basin Index - March 2020		109%

Stations used in Basin Index:
1C08, 1C21, 1C22
*sub-region of Middle Fraser

QUESNEL			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1C13A	HORSEFLY MOUNTAIN	1550	2020-02-27	171	553	32		129%	91	552	N	238	420	624	428	46
1C17	MOUNT TIMOTHY	1660	2020-03-01	89	229	26		86%	25	280	258	141	285	468	266	57
1C20P	Boss Mountain Mine	1460	2020-03-01	178	507	28		104%	65	500	504	221	479	739	487	26
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	453	784	1132	807	40
1C33A	GRANITE MOUNTAIN	1150	2020-02-28	78	182	23		105%	42	198	196	112	186	211	173	14
1C41P	Yanks Peak East	1670	2020-03-01	266	993	37		152%	100	834	727	409	689	904	655	23
			Average	156	493	29		115%	65							

Basin Index Calculation	Average SWE	493
	Average Normal	402
Quesnel Basin Index - March 2020		123%

Stations used in Basin Index:
1C13A, 1C17, 1C20P, 1C33A, 1C41P
*sub-region of Middle Fraser

MIDDLE FRASER

Basin Index Calculation	Average SWE	307
	Average Normal	312
Middle River Basin Index - March 2020		99%

Stations used in Basin Index:
1C01, 1C06, 1C09A, 1C25, 1C29, 1C32, 1C01, 1C06, 1C09A, 1C25, 1C29, 1C32, 1C08, 1C21, 1C22, 1C13A, 1C17, 1C20P, 1C33A, 1C41P
*combines Lower Thompson, Bridge, Chilcotin, Quesnel sub-regions

LOWER FRASER			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1D06P	Tenquille Lake	1680	2020-03-01	250	804	32		99%	45	853	1003	488	864	1219	810	18
1D08	STAVE LAKE	1250	N	N	N	N	N	N/A	N/A	1091	1417	120	1230	2500	1178	51
1D09	WAHLEACH LAKE	1480	2020-03-01	161	512	32		109%	53	421	463	37	484	1072	468	52
1D09P	Wahleach Lake Upper	1480	2020-03-01		743			88%	53	562	927	251	715	1320	846	26
1D10	NAHATLATCH RIVER	1550	N	N	N	N	N	N/A	N/A	1071	N	400	1114	2380	1092	47
1D16	DICKSON LAKE	1160	N	N	N	N	N	N/A	N/A	728	1715	22	1102	1814	1186	25
1D17P	Chilliwack River	1600	2020-03-01	333	1406	42		116%	64	1148	1502	514	1260	2360	1208	27
1D18P	Disappointment Lake	1050	2020-03-01	314	998	32		84%	39	780	N/A	259	1262	1996	1192	12
1D19P	Spuzzum Creek	1180	2020-03-01	244	1022	42		78%	24	1083	1388	265	1256	2625	1312	21
			Average	260	914	36		96%	46							

Basin Index Calculation	Average SWE	914
	Average Normal	973
Lower Fraser Basin Index - March 2020		94%

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

NORTH THOMPSON			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1E01B	BLUE RIVER	670	2020-02-26	118	359	30		128%	91	276	338	179	277	411	280	36
1E02P	Mount Cook	1550	2020-03-01	446	1229	28		120%	84	1090	1077	787	1017	1615	1028	16
1E03A	TROPHY MOUNTAIN	1860	2020-03-01	191	602	32		133%	92	430	532	216	440	778	452	45
1E07	ADAMS RIVER	1720	2020-02-27	200	730	37		130%	92	524	638	262	550	892	560	49
1E08P	Azure River	1652						N/A	N/A	749	N/A	563	968	1339	934	21
1E10P	Kostal Lake	1770	2020-03-01		702			99%	30	724	706	481	719	1023	712	34
1E14P	Cook Creek	1280	2020-03-01	190	680	36		145%	100	N/A	N/A	308	491	686	470	10
			Average	229	717	32		126%	81							

Basin Index Calculation	Average SWE	717
	Average Normal	584
North Thompson Basin Index - March 2020		123%

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

SOUTH THOMPSON			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1F01A	ABERDEEN LAKE	1310	2020-03-03	75	207	28		156%	92	114	250	51	140	250	133	63
1F02	ANGLEMONT	1190	2020-02-28	142	469	33		145%	94	275	445	160	328	635	323	62
1F03P	Park Mountain	1890	2020-03-01	244	879	36		123%	89	554	863	393	690	1038	714	35
1F04P	Enderby	1950	2020-03-01	292	1056	36		N/A	N/A	648	854	648	712	854	N/A	3
1F06P	Celista Mountain	1500	2020-03-01	241	863	36		117%	96	702	830	545	717	908	739	14
			Average	199	695	34		135%	93							

Basin Index Calculation	Average SWE	605
	Average Normal	477
South Thompson Basin Index - March 2020		127%

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

UPPER COLUMBIA			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2A02	GLACIER	1250	2020-02-27	198	708	36		121%	81	612	682	251	585	952	585	80
2A03A	FIELD	1285	2020-02-24	72	184	26		125%	80	163	183	53	155	248	147	80
2A06P	Mount Revelstoke	1850	2020-03-01		1161			117%	88	898	1089	537	927	1494	992	25
2A07	KICKING HORSE	1650	2020-02-27	116	340	29		122%	68	292	367	140	305	462	279	73
2A11	BEAVERFOOT	1890	2020-02-28	78	208	27		125%	79	172	198	80	184	333	167	58
2A14	MOUNT ABBOT	2010	2020-02-27	307	1094	36		109%	71	1098	1077	508	991	1448	1000	60
2A16	GOLDSTREAM	1920	2020-03-01	309	1154	37		121%	88	953	974	553	940	1351	954	56
2A17	FIDELITY MOUNTAIN	1870	2020-02-26	339	1405	41		135%	93	995	1146	534	987	1703	1043	57
2A18	KEYSTONE CREEK	1890	2020-03-01	203	695	34		104%	56	626	712	357	656	1277	671	50
2A18P	Keystone Creek	1840	2020-03-01		808			N/A	N/A	733	821	733	771	821	N/A	4
2A19	VERMONT CREEK	1520	2020-02-28	112	345	31		97%	34	355	408	152	363	643	356	53
2A21P	Molson Creek	1935	2020-03-01		887			100%	53	880	961	437	866	1215	887	38
2A22	SUNBEAM LAKE	2010	2020-03-01	263	900	34		120%	79	728	922	389	759	1117	751	48
2A23	BUSH RIVER	1920	2020-03-01	236	813	34		119%	75	699	715	281	685	1078	682	48
2A25	KIRBYVILLE LAKE	1750	2020-03-01	307	1116	36		113%	77	1031	1059	526	967	1476	990	46
2A27	DOWNIE SLIDE (LOWER)	980	2020-03-01	232	856	37		139%	97	590	646	378	588	1018	618	36
2A29	DOWNIE SLIDE (UPPER)	1630	2020-03-01	320	1188	37		104%	66	1168	1190	614	1076	2120	1146	39
2A30P	Colpitt Creek	2131	2020-03-01		785			107%	89	641	836	423	646	836	734	10
2A31P	Caribou Creek Upper	2201	2020-03-01		832			N/A	N/A	717	890	717	760	890	N/A	4
2A32P	Wildcat Creek	2122	2020-03-01		664			N/A	N/A	542	526	434	486	542	N/A	4
			Average	221	807	34		116%	75							

Basin Index Calculation	Average SWE	814
	Average Normal	706
Upper Columbia Basin Index - March 2020		115%

Stations used in Basin Index:
2A02, 2A03A, 2A06P, 2A07, 2A11, 2A14, 2A16, 2A17, 2A18, 2A19, 2A21P, 2A22, 2A23, 2A25, 2A27, 2A29, 2A30P

WEST KOOTENAY			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2B02A	FARRON	1220	2020-02-27	103	279	27		101%	53	292	442	79	277	450	276	45
2B05	WHATSHAN (UPPER)	1525	2020-02-25	214	767	36		135%	96	412	730	285	558	918	570	57
2B06P	Barnes Creek	1620	2020-03-01		642			147%	97	410	632	227	439	690	437	27
2B07	KOCH CREEK	1860	2020-02-25	216	712	33		118%	78	N	736	269	599	996	601	53
2B08P	St. Leon Creek	1800	2020-03-01		1246			138%	98	845	1114	423	872	1392	900	26
2B09	RECORD MOUNTAIN	1890	2020-03-02	179	580	32		97%	51	490	734	147	574	1136	601	43
2D02	FERGUSON	880	2020-02-25	192	381	20		76%	10	N	N	283	517	796	502	64
2D03	SANDON	1070	2020-03-01	134	435	32		136%	96	285	438	196	303	475	319	40
2D04	NELSON	930	2020-02-28	94	313	33	A	95%	39	185	362	118	337	558	328	80
2D05	GRAY CREEK (LOWER)	1550	2020-02-25	149	471	32		125%	86	304	494	201	386	663	378	68

2D06	CHAR CREEK	1310	2020-02-28	136	443	33	99%	49	400	537	231	446	754	447	52
2D07A	DUNCAN LAKE NO. 2	630	2020-03-02	67	215	32	149%	90	91	N	52	132	322	144	27
2D07AP	Duncan Lake Dam 2	559	2020-03-01	36	201	56	N/A	N/A						N/A	0
2D08P	East Creek	2030	2020-03-01		893		122%	85	806	803	312	715	1167	732	38
2D09	MOUNT TEMPLEMAN	1860	N	N	N	N	N/A	N/A	843	1007	490	864	1534	859	42
2D10	GRAY CREEK (UPPER)	1940	2020-02-25	208	711	34	117%	73	487	739	343	604	955	607	47
2D14P	Redfish Creek	2104	2020-03-01	318	1316	41	138%	100	968	1231	615	1050	1296	954	18
			Average	157	600	34	120%	73							

*record high

Basin Index Calculation	Average SWE	627
	Average Normal	520
West Kootenay Basin Index - March 2020		121%

Stations used in Basin Index:

2B02A, 2B05, 2B06P, 2B07, 2B08P, 2B09, 2D02, 2D03, 2D04, 2D05, 2D06, 2D07A, 2D08P, 2D10, 2D14P

EAST KOOTENAY			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
2C01	SINCLAIR PASS	1370	2020-02-27	59	159		A	154%	79	123	134	44	116	262	103	72
2C04	SULLIVAN MINE	1550	2020-03-01	75	205	27		87%	20	210	318	53	267	465	235	74
2C09Q	Morrissey Ridge	1860	2020-03-01		548			96%	50	405	545	240	548	1074	571	36
2C10P	Moyie Mountain	1930	2020-03-01	103	401	39		120%	79	298	430	149	328	653	333	39
2C14P	Floe Lake	2090	2020-03-01		642			110%	71	510	698	254	572	893	581	24
2C15	MOUNT ASSINIBOINE	2230	2020-02-28	150	487	32		116%	69	448	506	185	424	680	421	46
2C16	MOUNT JOFFRE	1750	2020-02-28	111	353	32		121%	77	242	308	122	288	551	291	48
2C17	THUNDER CREEK	2010	2020-02-28	88	239	27		112%	56	192	256	91	234	378	214	48
			Average	98	379	32		115%	63							

Basin Index Calculation	Average SWE	379
	Average Normal	344
East Kootenay Basin Index - March 2020		110%

Stations used in Basin Index:

2C01, 2C04, 2C09Q, 2C10P, 2C14P, 2C15, 2C16, 2C17

BOUNDARY			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
2E01	MONASHEE PASS	1370	2020-02-25	129	411	32		146%	99	221	406	149	289	442	282	60
2E02	CARMI	1250	N	N	N	N	N	N/A	N/A	76	191	47	133	274	130	57
2E03	BIG WHITE MOUNTAIN	1680	N	N	N	N	N	N/A	N/A	272	514	208	381	676	402	54
2E07P	Grano Creek	1860	2020-03-01	152	518	34		126%	93	263	504	198	386	634	411	21
			Average	141	465	33		136%	96							

Basin Index Calculation	Average SWE	465
	Average Normal	347
Boundary Basin Index - March 2020		134%

Stations used in Basin Index:

2E01, 2E07P

OKANAGAN			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
2F01A	TROUT CREEK (West)	1430	2020-02-25	72	217	30		111%	79	109	271	109	176	271	196	9
2F01AP	Trout Creek West	1420	2020-03-01	76	241	32		N/A	N/A	156	N/A	156		156	N/A	1
2F02	SUMMERLAND RESERVOIR	1280	2020-02-27	90	256	28		135%	82	171	311	97	208	381	190	59
2F03	MCCULLOCH	1280	2020-02-27	84	229	27		157%	95	112	238	71	157	249	146	79
2F04	GRAYSTOKE LAKE	1840	2020-03-02	141	348	25		122%	66	270	412	128	298	605	285	34
2F05P	Mission Creek	1780	2020-03-01	178	566	32		144%	95	312	552	203	383	634	392	49
2F07	POSTILL LAKE	1370	2020-02-27	84	250	30		145%	94	132	252	98	183	274	173	70
2F08	GREYBACK RESERVOIR	1550	N	N	N	N	N	N/A	N/A	160	262	91	186	312	188	51
2F08P	Greyback Reservoir	1550	2020-03-01	100	265	27		N/A	N/A	158	298	158	159	298	N/A	3
2F09	WHITEROCKS MOUNTAIN	1830	N	N	N	N	N	N/A	N/A	428	538	180	448	809	450	63

2F10	Silver Star Mountain	1840	N	N	N	N	N	N/A	N/A	573	N	347	598	912	610	58
2F10P	Silver Star Mountain	1839	2020-03-01	206	773	38		N/A	N/A	569	659	445	596	659	N/A	4
2F11	ISINTOK LAKE	1680	2020-02-28	67	186	28		141%	80	92	245	53	142	358	132	55
2F12	MOUNT KOBAU	1810	2020-02-27	81	247	30		98%	47	172	336	61	259	488	253	53
2F13	ESPERON CR (UPPER)	1650	N	N	N	N	N	N/A	N/A	248	382	157	332	635	330	51
2F14	ESPERON CR (MIDDLE)	1430	N	N	N	N	N	N/A	N/A	234	348	132	286	513	287	27
2F18P	Brenda Mine	1460	2020-03-01		281			89%	47	214	331	186	285	435	315	24
2F19	OYAMA LAKE	1340	2020-02-28	80	198	25		138%	86	114	238	73	144	241	144	50
2F20	VASEUX CREEK	1400	2020-02-28	54	140	26		124%	71	114	180	52	116	284	113	48
2F21	BOULEAU LAKE	1400	2020-02-28	96	256	27		96%	51	176	318	165	252	432	267	49
2F23	MACDONALD LAKE	1740	2020-03-06	130	343	26		93%	45	322	508	170	349	583	368	43
2F24	ISLAHT LAKE	1480	2020-02-28	137	218	16		76%	27	214	184	161	271	497	285	38
2F25	POSTILL LAKE UPPER	1540	2020-02-27	86	248	29		N/A	N/A	138	274	112	198	274	N/A	9
			Average	104	292	28		119%	69							

Basin Index Calculation	Average SWE	267
	Average Normal	233
Okanagan Basin Index - March 2020		115%

Stations used in Basin Index:

2F01A, 2F02, 2F03, 2F04, 2F05P, 2F07, 2F11, 2F12, 2F18P, 2F19, 2F20, 2F21, 2F23, 2F24

SIMILKAMEEN			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
2G03P	Blackwall Peak	1940	2020-03-01	216	711	33		107%	60	532	832	229	648	1323	665	52
2G04	LOST HORSE MOUNTAIN	1920	2020-02-28	105	288	27		162%	94	135	301	92	184	508	178	57
2G05	MISSEZULA MOUNTAIN	1550	2020-02-28	66	182	28		100%	42	119	238	76	192	363	182	56
2G06	HAMILTON HILL	1490	2020-02-27	89	260	29		97%	40	142	289	102	281	676	267	57
			Average	119	360	29		117%	59							

Basin Index Calculation	Average SWE	360
	Average Normal	323
Similkameen Basin Index - March 2020		112%

Stations used in Basin Index:

2G03P, 2G04, 2G05, 2G06

SOUTH COAST			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
3A01	GROUSE MOUNTAIN	1100	2020-02-26	280	1078	39		112%	56	840	1425	0	973	2320	966	69
3A02	POWELL RIVER (UPPER)	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	868		868	N/A	1
3A05	POWELL RIVER (LOWER)	910	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	588		588	N/A	1
3A09	PALISADE LAKE	880	2020-03-01	253	962	38		87%	44	910	1485	0	1124	3150	1106	64
3A09P	Palisade Lake	900	2020-03-01	221.5	682	31		N/A	N/A	585	N/A	585		585	N/A	1
3A10	DOG MOUNTAIN	1080	2020-02-25	251	980	39		103%	51	672	1250	0	965	2146	952	36
3A19	ORCHID LAKE	1190	2020-03-01	355	1320	37		90%	31	1364	1805	190	1486	2960	1467	43
3A20	CALLAGHAN CREEK	1040	2020-03-02	198	686	35		98%	37	738	951	40	728	1260	702	42
3A20P	Callaghan	1017	2020-03-01		665			N/A	N/A	839		839		839	N/A	1
3A22P	Nostetuko River	1500	2020-03-01	127	448	35		97%	48	403	527	86	468	878	462	30
3A24P	Mosley Creek Upper	1650	2020-03-01	74	230	31		86%	38	218	358	98	240	555	266	31
3A25P	Squamish River Upper	1340	2020-03-01	363	1427	39		110%	73	1335	1567	558	1342	2312	1303	28
3A26	CHAPMAN CREEK	1022	2020-03-04	272	1180	43		114%	63	940	1360	662	990	1412	1038	10
3A27	EDWARDS LAKE	1070	2020-03-04	201	770	38		108%	63	540	964	380	652	964	713	8
3A28P	Tetrahedron	1420	2020-03-01	303	1155	38		N/A	N/A	953	1186	953		1186	N/A	2
			Average	242	891	37		100%	50							

Basin Index Calculation	Average SWE	908
	Average Normal	898
South Coast Basin Index - March 2020		101%

Stations used in Basin Index:

3A01, 3A09, 3A10, 3A19, 3A20, 3A22P, 3A24P, 3A25P, 3A26, 3A27

VANCOUVER ISLAND			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
3B01	FORBIDDEN PLATEAU	1100	2020-03-02	298	1214	41		101%	49	1169	1353	101	1250	2730	1203	64
3B02A	MOUNT COKELY	1190	N	N	N	N	N	N/A	N/A	N	N	14	664	1034	662	31
3B04	ELK RIVER	270	2020-03-01	25	92	37		159%	59	39	56	0	52	546	58	59
3B10	UPPER THELWOOD LAKE	990	2020-03-01	356	1014	28		90%	42	820	1016	0	1085	2440	1128	58
3B17P	Wolf River Upper	1490	2020-03-01		920			85%	29	959	1149	204	1033	2085	1085	32
3B18	WOLF RIVER (MIDDLE)	990	2020-03-01	138	462	33		91%	49	240	382	0	485	1344	509	49
3B19	WOLF RIVER (LOWER)	640	2020-03-01	91	352	39		117%	54	390	286	0	324	1064	301	48
3B23P	Jump Creek	1160	2020-03-01	223	701	31		83%	38	741	1246	20	912	2206	849	24
3B24P	Heather Mountain Upper	1190	2020-03-01	231	962	42		N/A	N/A	651	1557	651	1084	1557	N/A	4
3B26P	Mount Arrowsmith	1465	2020-03-01	216	743	34		N/A	N/A	780	1123	780	952	1123	N/A	2
			Average	197	718	36		103%	46							

Basin Index Calculation	Average SWE	679
	Average Normal	733
Vancouver Island Basin Index - March 2020		93%

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

CENTRAL COAST			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
3C07	WEDEENE RIVER SOUTH	220	2020-03-05	191	626	33		150%	90	318	527	119	377	945	418	31
3C08P	Burnt Bridge Creek	1330	2020-03-01	241	880	37		127%	79	546	694	285	635	1229	691	21
			Average	216	753	35		139%	85							

Basin Index Calculation	Average SWE	753
	Average Normal	555
Central Coast Basin Index - March 2020		136%

Stations used in Basin Index:
3C07, 3C08P

SKAGIT			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
3D01C	SUMALLO RIVER WEST	790	2020-03-01	103	308	30		141%	85	141	340	0	210	442	218	28
3D02	LIGHTNING LAKE	1220	2020-03-01	114	326	29		130%	85	186	322	36	248	497	250	46
3D03A	KLESILKWA	1175	2020-03-01	111	336	30		147%	71	192	N	0	237	759	228	66
			Average	109	323	30		140%	80							

Basin Index Calculation	Average SWE	323
	Average Normal	232
Skagit Basin Index - March 2020		139%

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

PEACE			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
4A02P	Pine Pass	1400	2020-03-01	344	1162	34		132%	87	890	881	606	900	1485	880	27
4A03	WARE (UPPER)	1575	2020-02-26	91	223	25		101%	62	216	233	114	203	360	220	59
4A03P	Ware Upper	1565	2020-03-01	84	196	23		N/A	N/A	204	223	145	204	223	N/A	3
4A04	WARE (LOWER)	970	2020-02-26	81	199	25		119%	81	184	177	66	151	246	167	54
4A04P	Ware Lower	971	2020-03-01	76	182	24		N/A	N/A	185	196	91	185	196	N/A	3
4A05	GERMANSEN (UPPER)	1480	2020-02-27	133	401	30		137%	92	363	287	174	287	520	293	59
4A06	TUTIZZI LAKE	1045	2020-02-27	105	268	26		117%	80	240	244	102	230	386	230	56
4A07	LADY LAURIER LAKE	1440	2020-02-26	147	428	29		95%	57	390	399	255	413	662	452	52
4A09	PULPIT LAKE	1335	2020-02-26	149	436	29		117%	85	361	345	233	350	531	372	55
4A09P	Pulpit Lake	1311	2020-03-01	124	383	31		101%	56	305	285	200	372	515	381	29

4A10	FREDRICKSON LAKE	1325	2020-02-27	112	306	27	144%	97	235	179	86	199	315	213	55	
4A11	TRYGVE LAKE	1410	2020-02-26	127	382	30	120%	85	296	267	186	295	453	319	55	
4A12	TSAYDAYCHI LAKE	1190	2020-02-27	145	430	30	126%	80	395	333	166	324	540	340	56	
4A13	PHILIP LAKE	1035	2020-02-27	99	284	29	117%	69	292	227	118	237	400	242	55	
4A13P	Philip Lake	1028	2020-03-01		276		N/A	N/A	N/A	N/A				N/A	0	
4A16	MORFEE MOUNTAIN	1430	2020-02-28	244	878	36	121%	82	816	623	312	694	1166	725	52	
4A18	MOUNT SHEBA	1490	2020-03-06	290	1008	35	142%	96	808	733	394	713	1123	712	47	
4A18P	MOUNT SHEBA	1484	2020-03-01	299	991	33	N/A	N/A	802	N/A	802		802	N/A	1	
4A20	MONKMAN CREEK	1570	2020-03-06	202	580	29	123%	78	468	554	211	470	925	472	35	
4A20P	Monkman Creek	1570	2020-03-01		371		N/A	N/A	390	N/A	390		390	N/A	1	
4A21	MOUNT STEARNS	1505	2020-02-26	59	124	21	100%	53	150	122	40	122	227	124	45	
4A25	FORT ST. JOHN A	690	2020-02-27	50	90	18	91%	48	124	152	38	96	191	99	45	
4A27P	Kwadacha North	1554	2020-03-01	120	312	26	112%	74	234	258	158	266	405	279	29	
4A30P	Aiken Lake	1050	2020-03-01	96	167	17	72%	16	211	166	117	221	363	232	32	
4A31P	Crying Girl Prairie	1358	2020-03-01		192		N/A	N/A	209	220	124	208	220	N/A	4	
4A33P	Muskwa-Kechika	1196	2020-03-01		62		N/A	N/A	92	74	33	83	96	N/A	4	
4A34P	Dowling Creek	1456	2020-03-01		1072		N/A	N/A	1288	1199	1199		1288	N/A	2	
4A36P	Parsnip Upper	790	2020-03-01	130	345	27	N/A	N/A	336	N/A	336		336	N/A	1	
			Average	144	420	27	115%	73								

Basin Index Calculation	Average SWE	424
	Average Normal	355
Peace Basin Index - March 2020		119%

Stations used in Basin Index:

4A02P, 4A03, 4A04, 4A05, 4A06, 4A07, 4A09, 4A09P, 4A10, 4A11, 4A12, 4A13, 4A16, 4A18, 4A20, 4A21, 4A25, 4A27P, 4A30P

SKEENA-NASS			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4B01	KIDPRICE LAKE	1370	2020-02-29	218	701	32		86%	41	645	697	429	744	1320	817	68
4B02	JOHANSON LAKE	1420	2020-02-27	115	331	29		131%	91	N	202	148	237	368	253	55
4B03A	HUDSON BAY MTN.	1480	2020-02-26	144	406	28		92%	41	419	478	287	420	719	443	48
4B04	CHAPMAN LAKE	1460	2020-02-28	123	370	30		91%	46	421	482	266	386	691	407	54
4B06	TACHEK CREEK	1140	2020-02-28	72	158	22		81%	24	196	224	117	186	332	195	51
4B07	MCKENDRICK CREEK	1050	2020-02-28	79	223	28		91%	34	242	326	155	254	391	246	50
4B08	MOUNT CRONIN	1480	2020-02-28	137	425	31		85%	22	486	557	345	478	869	498	50
4B10	NINGUNSAW PASS	690		N	N	N	N	N/A	N/A	296	239	210	371	629	397	44
4B11A	BEAR PASS	460		N	N	N	N	N/A	N/A	290	383	87	534	824	574	33
4B13A	TERRACE AIRPORT	1805	2020-03-06	61	230	38		163%	82	88	194	0	117	407	141	37
4B14	EQUITY MINE	1420	2020-02-27	115	352	31		106%	73	N	424	190	322	546	333	41
4B15	LU LAKE	1300	2020-02-27	79	216	27		85%	36	N	322	122	249	412	254	40
4B15P	Lu Lake	1300	2020-03-01	97	253	26		114%	69	236	374	120	236	402	221	22
4B16P	Shedin Creek	1480	2020-03-01	211	622	29		86%	41	502	479	393	683	957	723	23
4B17P	Tsai Creek	1360	2020-03-01		840			87%	41	821	850	587	876	1600	969	22
4B18P	Cedar-Kiteen	885	2020-03-01	169	502	30		86%	52	420	N/A	281	478	953	582	17
			Average	125	402	29		99%	50							

Basin Index Calculation	Average SWE	402
	Average Normal	434
Skeena-Nass Basin Index - March 2020		93%

Stations used in Basin Index:

4B01, 4B02, 4B03, 4B04, 4B06, 4B07, 4B08, 4B13A, 4B14, 4B15, 4B15P, 4B16P, 4B17P, 4B18P

LIARD			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4C01	SIKANNI LAKE	1385	2020-02-26	99	238	24		100%	66	200	190	106	211	335	238	54
4C01P	Sikanni Lake	1387	2020-03-01	110	255	23		N/A	N/A	192	283	114	192	283	N/A	3

4C02	SUMMIT LAKE	1280	2020-02-26	48	73	15	66%	24	114	106	0	99	190	111	49
4C03	DEASE LAKE	820	2020-03-02	63	102	16	82%	42	90	81	45	109	229	124	54
4C05	FORT NELSON AIRPORT	380	2020-02-26	42	59	14	64%	14	70	69	40	93	177	92	52
			Average	72	145	19	78%	37							

Basin Index Calculation	Average SWE	118
	Average Normal	141
Liard Basin Index - March 2020		84%

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

STIKINE			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
4D02	ISKUT	1000	2020-03-02	53	134	25		128%	82	60	62	33	94	176	105	44
4D10P	Tumeka Creek	1220	2020-03-01		519			99%	62	314	262	262	467	789	526	22
4D11P	Kinaskan Lake	1020	2020-03-01	116	367	32		106%	78	201	148	148	277	557	346	24
			Average	85	340	28		111%	74							

Basin Index Calculation	Average SWE	340
	Average Normal	326
Stikine Basin Index - March 2020		104%

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

NORTHWEST			March 2020 Data				March 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
4E01	LOG CABIN	900	2020-02-26	142	405	29		117%	85	232	247	124	320	529	347	59
4E02B	ATLIN LAKE	730	2020-02-25	29	54	19		N/A	N/A	66	70	66	88	166	N/A	14
			Average	N/A	N/A	N/A		N/A	N/A							

Basin Index Calculation	Average SWE	230
	Average Normal	347
Northwest Basin Index - March 2020		66%

Stations used in Basin Index:
4E01, 4E02B

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	529
	Average Normal	478
British Columbia Basin Index - March 2020		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

*record low

River Forecast Centre
Ministry of Forests, Lands and Natural Resource Operations
Volume Runoff Forecast March 2020

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				4198	3786	111	331	5878	5252	112	390	
	McGregor at Lower Canyon				4661	4087	114	490	5782	5132	113	639	
	Fraser at Shelley				19239	16310	118	1494	23588	20369	116	1832	
Middle Fraser Basin	Quesnel River at Quesnel				5148	4747	108	510	6628	6078	109	670	
Thompson Basin	N. Thompson at McLure				10006	9190	109	536	12484	11359	110	826	
	S. Thompson at Chase				7276	6111	119	566	9265	7678	121	832	
	Thompson at Spences Bridge				17253	15775	109	1174	21911	19755	111	1814	
Bulkley and Skeena	Bulkley at Quick				2555	2709	94	1361	3139	3306	95	1939	
	Skeena at Usk				18700	19187	97	1335	23062	23531	98	1809	
Nicola Lake	Inflows	82	126	65	31	94	143	65	35				
Nicola River	at Spences Bridge	378	523	72	82	417	591	70	103				
Similkameen River	at Nighthawk	1324	1342	99	158					1613	1652	98	184
	at Hedley	1264	1045	121	134					1492	1233	121	151
Okanagan and Kalamalka-Wood Lake	Okanagan Lake Inflow	710	470	151	89	770	497	155	110				
	Kalamalka-Wood Lake Inflow	44	31	143	12	48	33	147	15				

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

Snow Survey and Water Supply Bulletin – April 1st, 2020

Executive Summary

Despite cooler than normal temperatures, dry weather contributed to modest snow pack accumulation over the month of March. Most regions experienced small changes in snow basin index values in April compared with last month.

The provincial average of snow measurements is 112% of normal. Seasonal flood risk is elevated in many regions, including the Upper Fraser West, Upper Fraser East, North Thompson, South Thompson, West Kootenay, Boundary, Cariboo Mountains, Central Coast and Skagit. The snow basin index for the Fraser River is 116%, with high snow pack levels in its major tributaries. The likely peak flow forecast for the Fraser River at Hope this freshet is 8,000-11,500 m³/s, though higher flows are possible with extreme weather.

Typically, the provincial snow pack reaches its maximum level in mid-April. Significant changes to the current snow pack are not expected. However, continued cool weather can lead to a delay in the snowmelt season and lead to increased seasonal flood risks.

Snow pack is one element of seasonal flood risk in BC and alone does not predict whether flooding will occur. Spring weather is a critical factor determining the rate that snow melts, and extreme rainfall can also cause spring flooding. Spring freshet poses a seasonal risk across the BC Interior, irrespective of snow pack levels.

Overview

The April 1st snow survey is now complete. Data from 117 manual snow courses and 82 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. There were additional challenges accessing manual snow courses this year due to the COVID-19 situation, and 28 (19%) scheduled snow courses were not sampled, primarily within the South Coast and Bridge region of the Middle Fraser. This reduces the accuracy of the snow basin indices for certain regions; however, this is not expected to materially affect overall results.

Weather

March weather was characterized by generally stable patterns, interspersed with weaker periods of instability. Temperatures were below normal across the province, with monthly temperature anomalies typically in the -1°C to -3°C range.

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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March was dry across the province, with below-normal to well-below-normal precipitation in most areas (30-75% of normal). Some pockets of nearer to normal or above-normal precipitation were observed in the Kootenays, West-Central BC and the Central and North Coast.

Snowpack

Snow basin indices for April 1st, 2020 range from a low of 88% of normal on Vancouver Island to a high of 148% in the Skagit (Table 1 and Figure 1). Snow basin indices in many regions have remained steady or dropped slightly relative to March values. Despite cooler than normal temperatures, dry weather contributed to modest snow pack accumulation in March, where most regions remained similar or declined slightly relative to their March snow basin index values.

Table 1 - BC Snow Basin Indices – April 1, 2020

Basin	% of Normal (March values)	Basin	% of Normal (March values)
Upper Fraser West	129 (135)	Boundary	122 (134)
Upper Fraser East	147 (135)	Similkameen	112 (112)
Nechako	101 (104)	South Coast	103 (101)
Middle Fraser	111 (99)	Vancouver Island	88 (93)
Lower Fraser	97 (94)	Central Coast	132 (136)
North Thompson	117 (123)	Skagit	148 (139)
South Thompson	123 (127)	Peace	121 (119)
Upper Columbia	113 (115)	Skeena-Nass	95 (93)
West Kootenay	118 (121)	Stikine	102 (104)
East Kootenay	113 (110)	Liard	102 (84)
Okanagan	116 (115)	Northwest	124 (100)
Nicola	92 (88)	Fraser River (All)	116 (117)
		British Columbia	112 (111)

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The Upper Fraser East, Lower Fraser, East Kootenay, South Coast, Skagit, Peace, and Liard experienced modest increases in snow basin indices. Most notably, the Upper Fraser East region experienced significant accumulation in the first and last week of March, increasing its snow basin index from 135% of normal on March 1st up to 147% of normal for April 1st. As a result of snowpack growth in Interior mountainous areas, the overall average of province-wide measurements increased slightly from 111% of normal last month to 112% of normal for April 1st.

High snow packs are generally present in the mountainous interior ranges of the province and in the Central Coast region. Extremely high snowpack (>135%) is present in the Upper Fraser East, Upper Fraser West and the Cariboo Mountains (Quesnel River). Several snow measurement locations recorded an all-time record high Snow Water Equivalent (SWE) for April 1st. These include:

- 1A05 Longworth (Upper) 1378 mm with 61 years of record (Upper Fraser – East)
- 1C13A Horsefly Mountain 735 mm with 50 years of record (Middle Fraser/Quesnel)
- 1C41P Yanks Peak East 1215 mm with 23 years of record (Middle Fraser/Quesnel)
- 1E14P Cook Creek 789 mm with 11 years of record (North Thompson)

High snow packs (>120%) are present in the South Thompson, Boundary, Central Coast (Bella Coola), Skagit and Northwest basins. Moderately high snowpacks (110-120%) are also present in the North Thompson, Upper Columbia, West Kootenay, East Kootenay, Okanagan, Similkameen, and Peace.

The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) is 116%. During freshet, most of the flow (roughly two-thirds) in the Fraser River originates from the Upper Fraser East, North Thompson, South Thompson and Cariboo Mountains. Snowpack in these areas is very high (131% of normal). Snowpack in unregulated watersheds of the Fraser River upstream of Hope (e.g., excluding the Nechako and Bridge systems regulated by dams) are currently among the highest on record. For perspective, recent years with high snow basin indices for unregulated watersheds of the Fraser River upstream of Hope include 2018 (119%), 2012 (127%), 2007 (120%), and 1999 (121%).

Streamflow

Cool weather has led to a delay in the onset of low elevation snowmelt. This, combined with drier weather over the past several weeks, has led to below-normal to normal streamflow for early-April within most rivers across the province. Many smaller streams and northerly rivers are still under ice conditions. Warming weather this week is expected to lead to more

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general snowmelt at low elevations and will usher in the onset of the seasonal freshet season.

Outlook

Neutral El Niño Southern Oscillation (ENSO) conditions continue to persist with forecasts from the Climate Prediction Centre (CPC) indicating a high likelihood of neutral ENSO conditions continuing through the spring and early summer. Sea surface temperatures along the BC coast, extending offshore from the Washington, Oregon and California coasts, are below normal, with above-normal temperatures occurring further west and off-shore in the northern Pacific Ocean. It is important to keep in mind that El Niño conditions tend to have less of an influence on spring weather in BC.

Seasonal weather forecasts from Environment and Climate Change Canada indicate an increased likelihood of warmer than normal April-May-June temperatures for western BC, and an increased likelihood of cooler than normal temperatures over the same period for eastern BC. Longer range temperature forecasts shift towards a high likelihood of above normal temperatures throughout BC over the May-June-July period. Short-term weather forecasts are indicating dry and warm conditions into the Easter weekend, followed by a potential return to cooler weather, dominated by northerly flow and influence from colder continental and northern air. Mid-range forecasts over the next month are favouring cooler-than-normal to near-normal temperatures.

Increased seasonal flood risk based on snowpack is present in the Upper Fraser – West, Upper Fraser - East, Cariboo Mountains (Quesnel River), North Thompson, South Thompson, West Kootenay, Boundary, Peace, Central Coast (Bella Coola) and Skagit basins.

Historically, there are only a few years where the snow pack in the major tributaries of the Fraser River have all been high at the same time (these years include 1972, 1974 and 1999). Given the importance of the Upper Fraser and Thompson River for the overall freshet flow on the lower Fraser River, this means the seasonal flood risk for the entire Fraser River is elevated. The modelled peak flow forecast for the Fraser River at Hope is 9500 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 materialize in spring, such as extreme rainfall, extreme heat, or both.

Seasonal volume forecasts for select watersheds (appended to end of the report) are also mostly elevated as a result of the seasonal snow pack. Volume inflow forecasts for the Okanagan system are 132-134% of average and are significantly higher than the overall Okanagan snow basin index. Alternatively, runoff forecasts for the Similkameen River (at Hedley) are at 94%, below the snow basin index of 112%. In other areas, runoff forecasts are much more similar to the snow basin indices, with runoff forecasts for the Nicola at 93-

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109%, Skeena and Bulkley at 95-98%, and Upper Fraser, Middle Fraser and Thompson tributaries at 106-132%.

By early April, nearly 95% of the annual BC snowpack has typically accumulated. Peak provincial snow pack usually occurs in mid-April. Current short and medium range weather forecasts suggest that significant changes to the current snow pack are unlikely. Cooler weather over the next few weeks may delay the onset of melt, which can increase flood risks as more snow melts into May and June. Warmer temperatures into the Easter weekend is expected to bring the onset of the freshet season with low elevation snow melt and the start of rising streamflow, particularly in smaller creeks and low elevation areas.

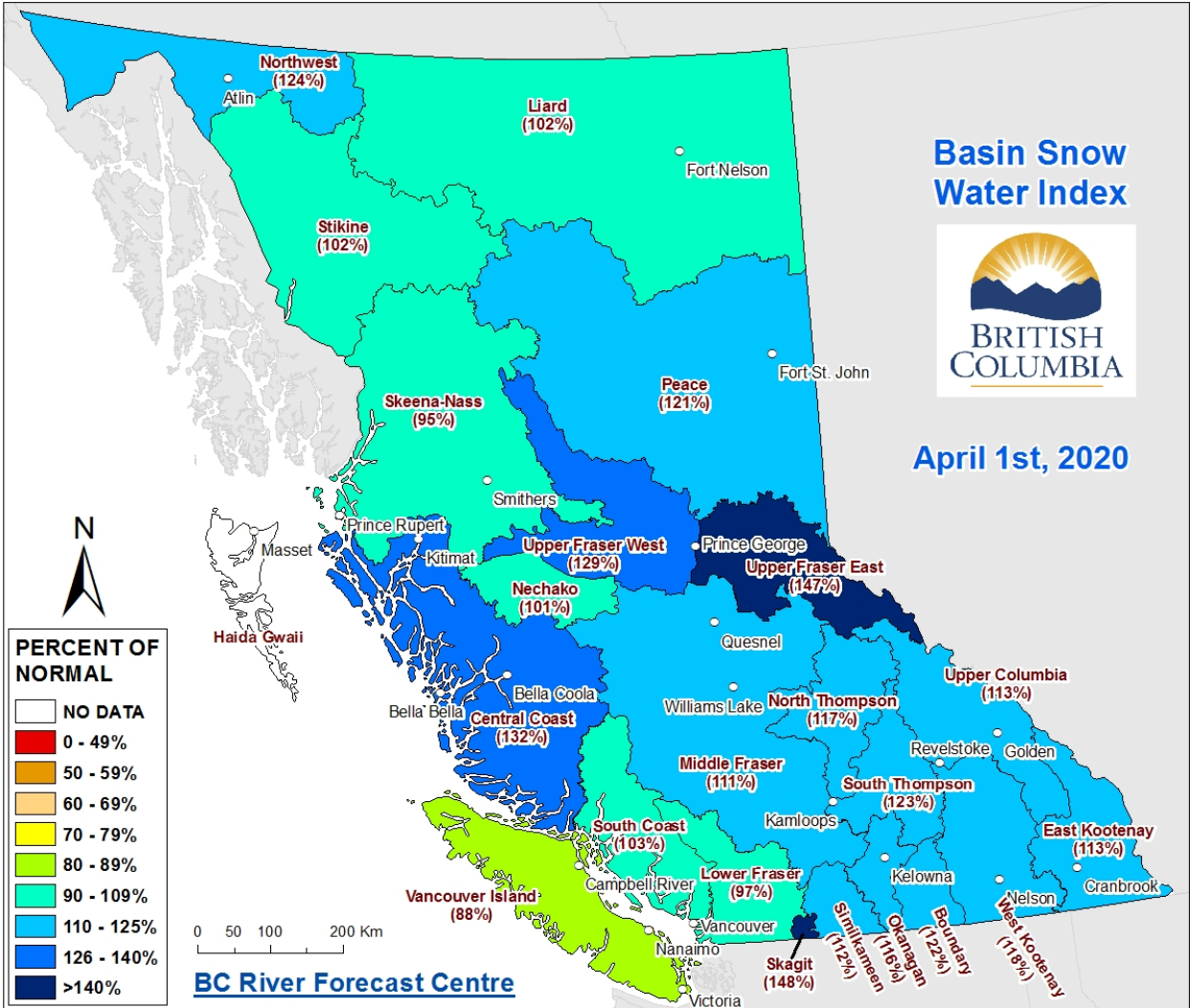
While snowpack is one risk factor for freshet flooding, snowpack alone cannot predict whether flooding will occur or not. Spring weather is also a critical flood risk factor, where the timing and severity of temperature and rainfall patterns are important drivers of flooding irrespective of snowpack levels. 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, 2020 bulletin, which is scheduled for release on May 8th.

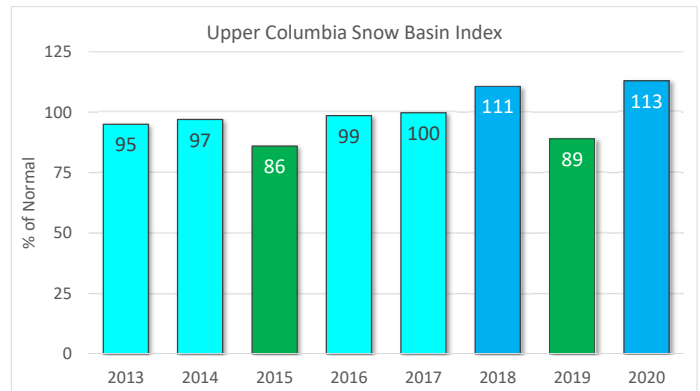
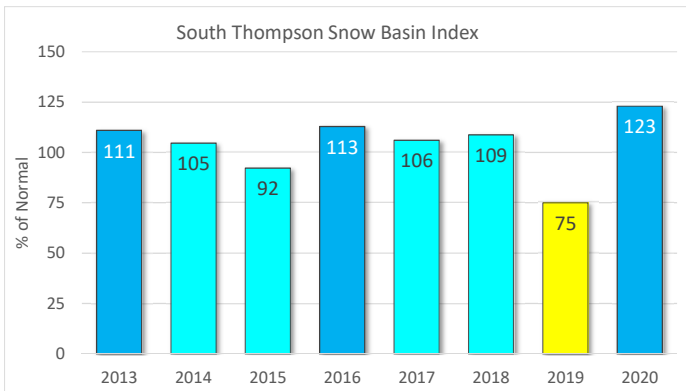
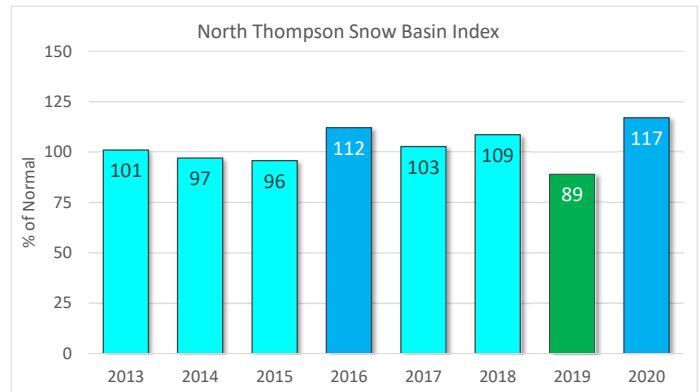
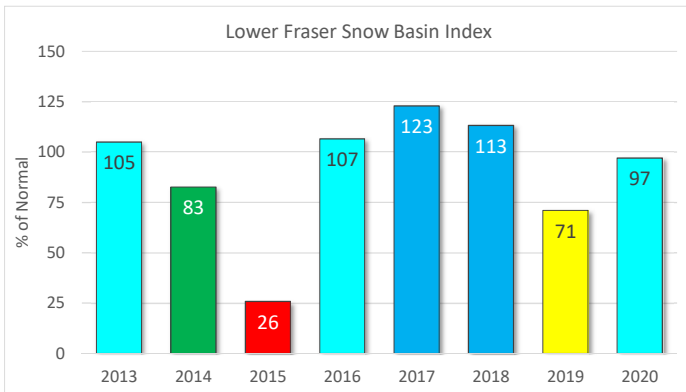
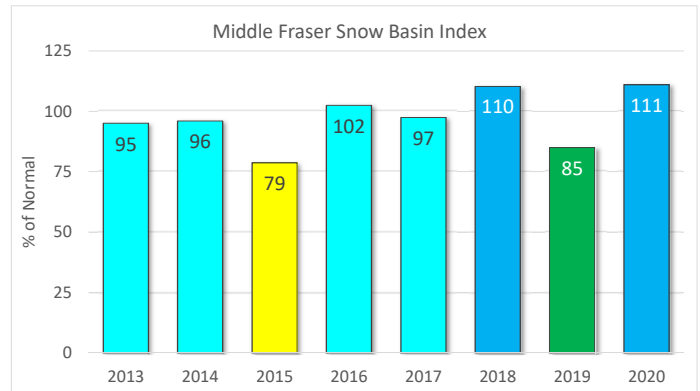
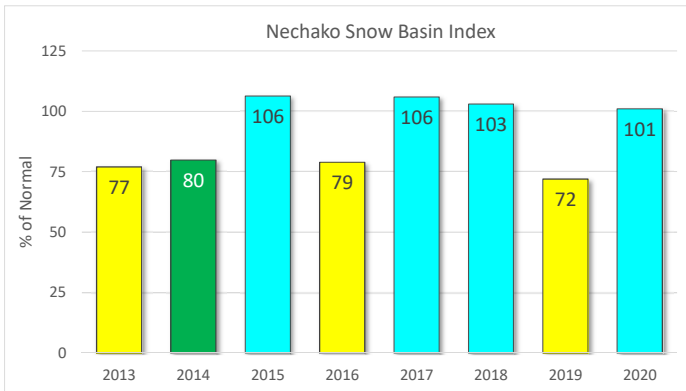
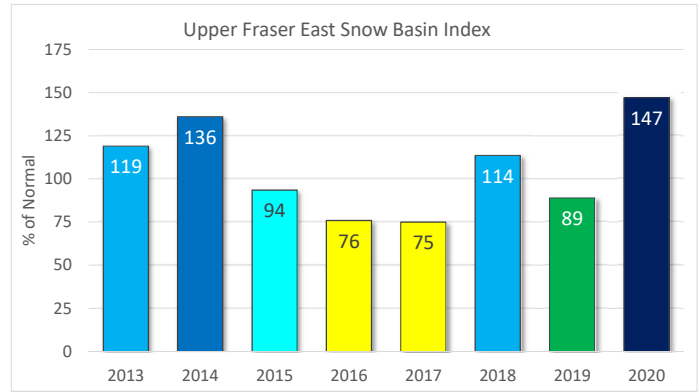
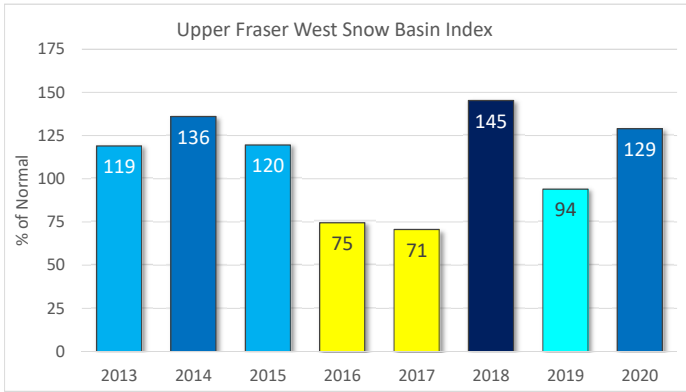
BC River Forecast Centre
April 8, 2020

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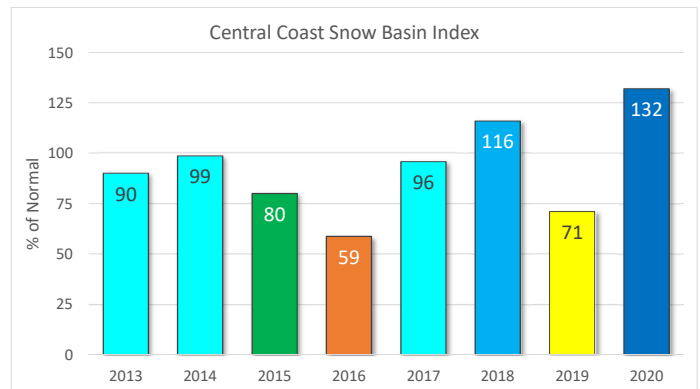
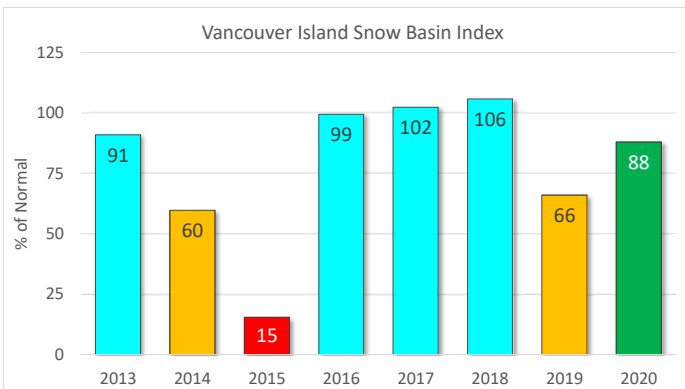
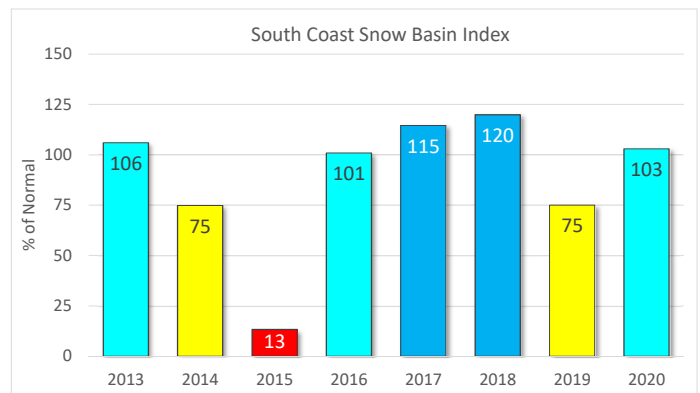
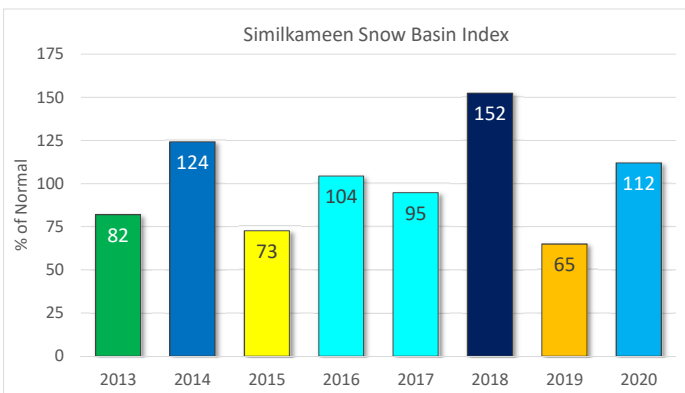
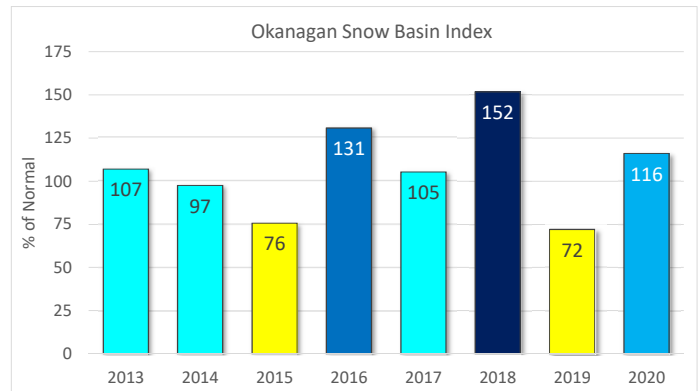
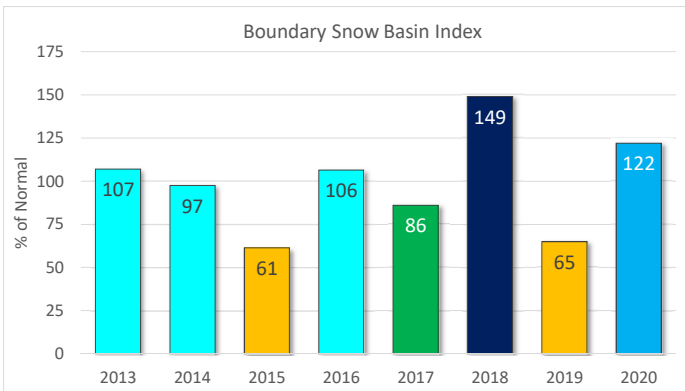
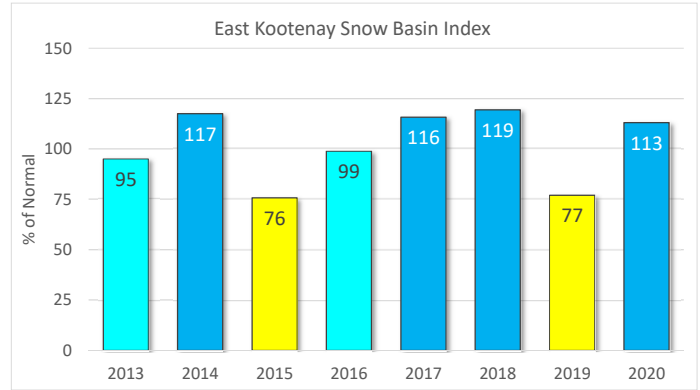
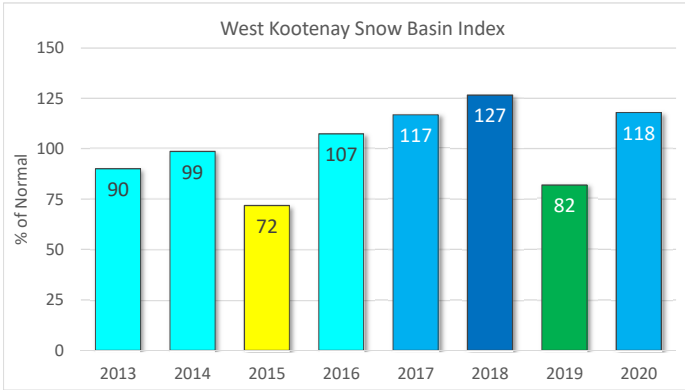
Figure 1: Basin Snow Water Index – April 1st, 2020



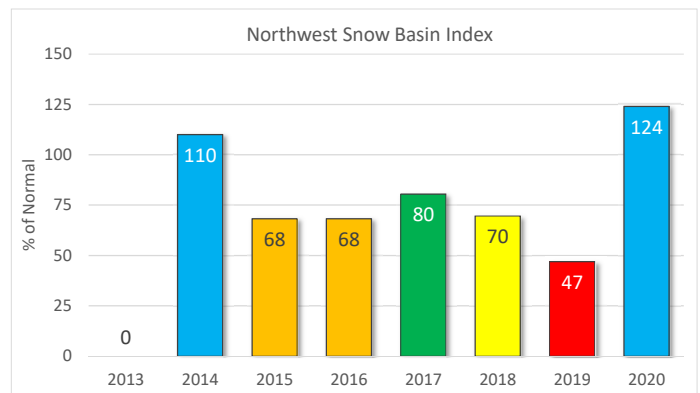
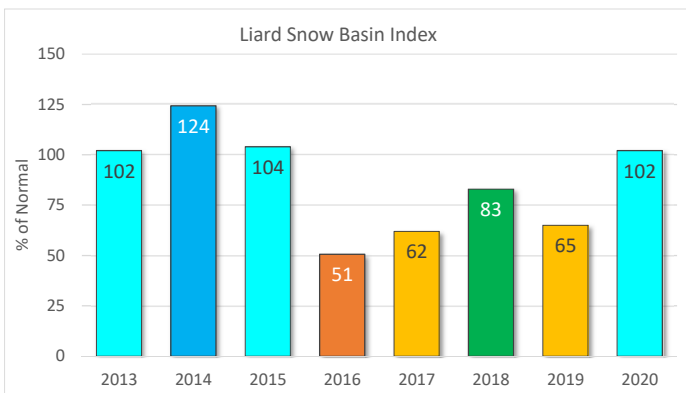
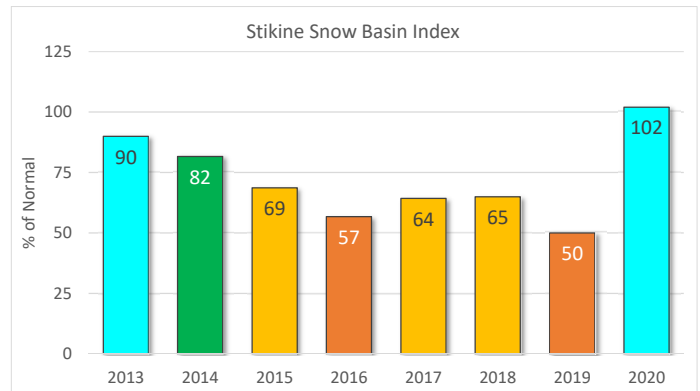
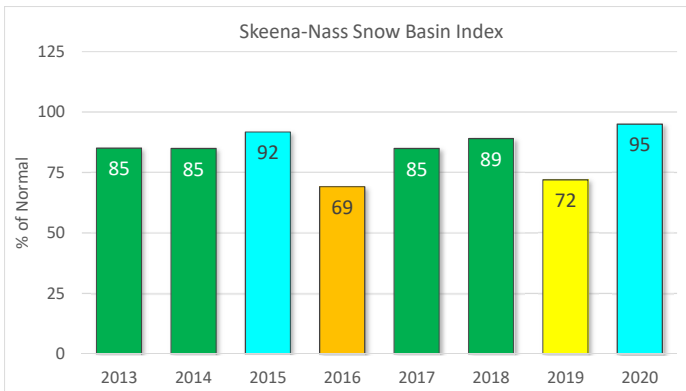
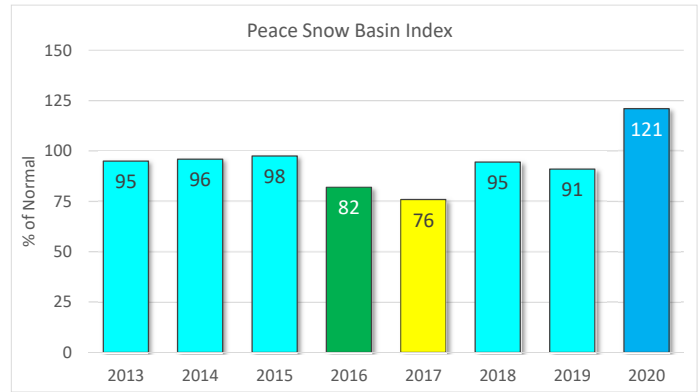
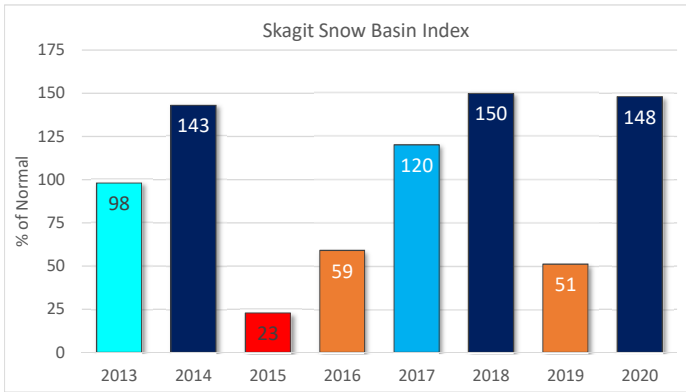
1. Every effort is made to ensure that data reported on these pages are accurate. However, in order to update the graphs and indices as quickly as possible, some data may have been estimated. Please note that data provided on these pages are preliminary and subject to revision upon review.



Snow Basin Index Graphs - April 1, 2020



Snow Basin Index Graphs - April 1, 2020



Ministry of Forests, Lands and Natural Resource Operations
River Forecast Centre
Volume Runoff Forecast April 2020

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				4027	3699	109%	307	5633	5166	109%	381	
	McGregor at Lower Canyon				5081	3964	128%	428	6271	5010	125%	564	
	Fraser at Shelley				20747	15670	132%	1179	25414	19730	129%	1562	
Middle Fraser Basin	Quesnel River at Quesnel				5489	4541	121%	418	7112	5872	121%	568	
Thompson Basin	N. Thompson at McLure				9440	8916	106%	481	11857	11085	107%	753	
	S. Thompson at Chase				6723	5792	116%	448	8640	7359	117%	686	
	Thompson at Spences Bridge				16558	15114	110%	973	21243	19094	111%	1560	
Bulkley and Skeena	Bulkley at Quick				2499	2625	95%	236	3089	3222	96%	272	
	Skeena at Usk				18253	18673	98%	1173	22546	23017	98%	1698	
Nicola Lake	Inflows	132	121	109%	30	150	138	109%	35				
Nicola River	at Spences Bridge	454	486	93%	82	514	554	93%	101				
Okanagan and Kalamalka-Wood Lake	Okanagan Lake Inflow	579	440	132%	88	621	465	134%	108				
	Kalamalka-Wood Lake Inflow	36	28	128%	11	34	29	115%	13				
Similkameen River	Similkameen at Nighthawk	1217	1273	96%	128					1500	1583	95%	156
	Similkameen at Hedley	933	989	94%	96					1100	1177	93%	96
Cowichan River	Cowichan Lake Inflows	201	248	81%	65					231	290	80%	84

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.

Cowichan Lake Inflows are based on a multi-variate regression analysis and reflects a normal scenario for summer weather conditions

The Standard Error in the Cowichan forecast reflects model error, and does not capture uncertainty over seasonal weather

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, 2020 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A01P	Yellowhead Lake	1860	2020-04-01	184	602	33		111%	75	N/A	N/A	345	540	799	541	21
1A02P	McBride Upper	1611	2020-04-01	186	608	33		138%	88	420	480	297	471	694	442	28
1A03P	Barkerville	1520	2020-04-01	160	487	30		134%	94	332	382	139	352	524	364	41
1A05	LONGWORTH (UPPER)	1693	2020-04-03	359	1378	38		179%	100	846	952	467	721	1274	768	61
1A05P	Longworth Upper	1740	2020-04-01	350	926	26		N/A	N/A	762	787	524	762	787	N/A	3
1A06A	HANSARD	608	2020-03-31	78	222	28		126%	69	156	194	72	190	442	176	21
1A10	PRINCE GEORGE A	689	2020-03-30	61	160	26		163%	71	70	N	0	116	313	98	57
1A11	PACIFIC LAKE	755	2020-04-03	235	863	37		142%	91	564	851	290	592	1060	608	57
1A14P	Hedrick Lake	1100	2020-04-01		1246		E	156%	98	578	796	406	803	1287	801	20
1A15	KNUDSEN LAKE	1602	2020-04-03	308	1195	39		149%	93	673	885	485	815	1264	801	50
1A15P	Knudsen Lake	1601	2020-04-01		732			N/A	N/A	462	659	442	482	659	N/A	4
1A17P	Revolution Creek	1690	2020-04-01	349	1282	37		164%	99	711	856	449	803	1293	783	31
1A19P	Dome Mountain	1774	2020-04-01	276	971	35		133%	88	637	673	243	752	1069	732	14
			Average	247	871	33		145%	88							

*record high

Basin Index Calculation	Average SWE	819
	Average Normal	556
Upper Fraser East Basin Index - April 1, 2020		147%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A05, 1A06A, 1A10, 1A11, 1A14P, 1A15, 1A17P, 1A19P

UPPER FRASER WEST			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A12	KAZA LAKE	1250	2020-04-02	144	415	29		122%	82	294	346	220	340	476	341	55
1A12P	Kaza Lake	1257	2020-04-01	151	393	26		N/A	N/A	297	323	269	290	323	N/A	4
1A16	BURNS LAKE	800	2020-04-06	54	156	29		131%	76	78	204	0	112	264	119	49
1A23	BIRD CREEK	1180	2020-03-31	74	204	28		146%	89	190	320	84	151	320	140	30
			Average	106	292	28		133%	82							

Basin Index Calculation	Average SWE	258
	Average Normal	200
Upper Fraser West Basin Index - April 1, 2020		129%

Stations used in Basin Index:
1A12, 1A16, 1A23

NECHAKO			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1B01	MOUNT WELLS	1490	2020-03-31	166	521	31		106%	58	373	660	273	486	960	490	65
1B01P	Mount Wells	1490	2020-04-01		637			114%	69	454	674	374	543	872	557	27
1B02	TAHTSA LAKE	1300	2020-03-31	283	1084	38		90%	38	851	1006	775	1131	1972	1202	66
1B02P	Tahtsa Lake	1300	2020-04-01		1176			92%	36	889	1215	860	1209	2234	1278	26
1B05	SKINS LAKE	890	2020-03-31	52	76	15		84%	20	17	233	0	101	233	90	56
1B06	MOUNT SWANNELL	1620	2020-03-31	128	380	30		135%	84	268	413	15	272	490	282	31
1B07	NUTLI LAKE	1490	2020-03-31	160	556	35		107%	71	367	549	301	498	834	518	29
1B08P	Mt. Pondosy	1400	2020-04-01		822			104%	61	556	820	504	742	1145	790	24
			Average	158	657	30		104%	55							

Basin Index Calculation	Average SWE	657
	Average Normal	651
Nechako Basin Index - April 1, 2020		101%

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

LOWER THOMPSON			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C01	BROOKMERE	980	2020-03-31	46	127	28		74%	16	95	223	45	193	399	171	75
1C06	PAVILION	1230	2020-03-31	10	30	30		136%	46	0	84	0	37	147	22	58
1C09A	HIGHLAND VALLEY	1510	N	N	N	N	N	N/A	N/A	54	166	3	90	249	83	52
1C25	LAC LE JEUNE	1509	2020-03-31	58	171	29		135%	76	37	162	0	127	264	127	47
1C29	SHOVELNOSE MOUNTAIN	1450	2020-03-31	74	228	31		103%	44	107	313	16	238	442	222	41
1C29P	Shovelnose Moutain	1460	2020-04-01	84	248	30		N/A	N/A	162	N/A	162		162	N/A	162
1C32	DEADMAN RIVER	1430	N	N	N	N	N	N/A	N/A	11	N	11	108	196	104	35
1C42	CAVERHILL LAKE NEW	1400	2020-03-30	104	340	33		N/A	34	160	290	160	236	290	N/A	15
			Average	63	191	30		112%	43							

Basin Index Calculation	Average SWE	139
	Average Normal	136
Lower Thompson Basin Index - April 1, 2020		103%

Stations used in Basin Index:

1C01, 1C06, 1C25, 1C29

*sub-region of Middle Fraser

BRIDGE			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C05	MCGILLIVRAY PASS	1725	N	N	N	N	N	N/A	N/A	428	513	322	570	1118	572	66
1C05P	McGillivray Pass	1718	2020-04-01		474			N/A	N/A	478	619	478		619	N/A	2
1C12P	Green Mountain	1780	2020-04-01		570			65%	5	683	732	466	859	1408	878	26
1C14	BRALORNE	1389	N	N	N	N	N	N/A	N/A	125	197	0	163	389	153	56
1C14P	Bralorne	1382	2020-04-01		183			N/A	N/A	170	270	170		270	N/A	2
1C18P	Mission Ridge	1850	2020-04-01		543			99%	56	393	615	158	527	1012	550	43
1C28	DUFFEY LAKE	1200	N	N	N	N	N	N/A	N/A	430	581	212	488	866	480	42
1C37	BRALORNE(UPPER)	1981	N	N	N	N	N	N/A	N/A	506	N	328	678	1010	665	21
1C38	DOWNTON LAKE (UPPER)	1887	N	N	N	N	N	N/A	N/A	754	N	422	814	1416	847	21
1C38P	Downton Lake Upper	1829	2020-04-01		653			N/A	N/A	713	681	681	747	810	N/A	4
1C39	BRIDGE GLACIER (LOWER)	1390	N	N	N	N	N	N/A	N/A	546	622	240	606	1086	580	24
1C40	TYAUGHTON CREEK (NORTH)	1947	N	N	N	N	N	N/A	N/A	382	504	264	406	844	440	24
1C40P	North Tyaughton	1969	2020-04-01		296			N/A	N/A	332	456	325	369	456	N/A	4
			Average	N/A	453	N/A		82%	31							

Basin Index Calculation	Average SWE	475
	Average Normal	664
Bridge Basin Index - April 1, 2020		72%

Stations used in Basin Index:

1C12P, 1C18P

*sub-region of Middle Fraser

CHILCOTIN			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1C08	NAZKO	1070	2020-04-03	48	122	25		265%	81	27	132	0	62	165	46	61
1C21	BIG CREEK	1140	2020-03-29	5	14	28		100%	67	0	68	0	0	119	14	49
1C22	PUNTZI MOUNTAIN	940	2020-03-30	0	0	N/A		0%	N/A	0	84	0	6	120	19	50
			Average	18	45	27		122%	74							

Basin Index Calculation	Average SWE	45
	Average Normal	26
Chilcotin Basin Index - April 1, 2020		172%

Stations used in Basin Index:

1C08, 1C21, 1C22

*sub-region of Middle Fraser

QUESNEL			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1C13A	HORSEFLY MOUNTAIN	1550	2020-04-01	207	735	36		158%	100	510	542	282	455	716	466	50
1C17	MOUNT TIMOTHY	1660	2020-04-01	118	299	25		101%	42	278	338	186	310	533	296	57
1C20P	Boss Mountain Mine	1460	2020-04-01	187	578	31		99%	50	517	649	326	578	866	585	26
1C23	PENFOLD CREEK	1685	N	N	N	N	N	N/A	N/A	857	N/A	641	995	1285	979	41
1C33A	GRANITE MOUNTAIN	1150	2020-03-31	98	243	25		129%	65	193	274	93	194	274	188	14
1C41P	Yanks Peak East	1670	2020-04-01	298	1215	41		153%	100	890	979	525	836	1029	794	23
			Average	182	614	31		128%	71							

*record high

*record high

Basin Index Calculation	Average SWE	614
	Average Normal	466
Quesnel Basin Index - April 1, 2020		132%

Stations used in Basin Index:
1C13A, 1C17, 1C20P, 1C33A, 1C41P
*sub-region of Middle Fraser

MIDDLE FRASER

Basin Index Calculation	Average SWE	348
	Average Normal	313
Middle River Basin Index - April 1, 2020		111%

Stations used in Basin Index:
1C01, 1C06, 1C25, 1C29, 1C12P, 1C18P, 1C08, 1C21, 1C22, 1C13A, 1C17, 1C20P, 1C33A, 1C41P

LOWER FRASER			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1D06P	Tenquille Lake	1680	2020-04-01	280	956	34		94%	41	890	1112	675	1031	1586	1014	19
1D08	STAVE LAKE	1250	2020-04-02	351	1404	40		97%	39	1030	1597	98	1597	2750	1448	49
1D09	WAHLEACH LAKE	1480	2020-04-02	197	694	35		118%	64	386	596	33	610	1270	588	49
1D09P	Wahleach Lake Upper	1480	2020-04-01		950			93%	56	630	1108	267	890	1642	1026	26
1D10	NAHATLATCH RIVER	1550	2020-04-02	310	1179	38	A	91%	34	1051	1377	468	1366	2410	1296	49
1D16	DICKSON LAKE	1160	2020-04-02	411	1608	39		107%	57	778	1913	56	1548	2990	1497	25
1D17P	Chilliwack River	1600	2020-04-01	388	1683	43		117%	66	1216	1747	666	1530	2418	1435	27
1D18P	Disappointment Lake	1050	2020-04-01	358	1112	31		77%	24	1474	819	405	1470	2129	1438	12
1D19P	Spuzzum Creek	1180	2020-04-01	317	1393	44		87%	29	1072	1577	166	1577	2752	1600	21
			Average	327	1220	38		98%	46							

Basin Index Calculation	Average SWE	1220
	Average Normal	1260
Lower Fraser Basin Index - April 1, 2020		97%

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

NORTH THOMPSON			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1E01B	BLUE RIVER	670	2020-03-31	100	378	38		139%	88	276	338	154	282	425	272	37
1E02P	Mount Cook	1550	2020-04-01	399	1453	36		120%	82	1153	1297	1001	1178	1837	1209	16
1E03A	TROPHY MOUNTAIN	1860	2020-03-26	186	674	36		126%	93	458	634	332	546	888	537	44
1E07	ADAMS RIVER	1720	2020-03-26	205	794	39		118%	80	598	786	435	688	1069	673	50
1E08P	Azure River	1652	2020-04-01	334	1252	37		110%	83	818	1129	716	1136	1538	1135	23
1E10P	Kostal Lake	1770	2020-04-01	267	802	30		94%	27	733	865	618	861	1169	850	34
1E14P	Cook Creek	1280	2020-04-01	190	789	42		136%	100	508	N/A	409	608	765	580	11
			Average	240	877	37		120%	79							

*record high

Basin Index Calculation	Average SWE	877
	Average Normal	751
North Thompson Basin Index - April 1, 2020		117%

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

SOUTH THOMPSON			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	SWE (mm)	
1F01A	ABERDEEN LAKE	1310	2020-03-25	76	229	30		185%	96	90	213	6	141	259	124	78	
1F02	ANGLEMONT	1190	2020-04-01	136	477	35		149%	92	224	486	142	338	561	321	61	
1F03P	Park Mountain	1890	2020-04-01	246	980	40		115%	83	611	1031	560	844	1208	852	35	
1F04P	Enderby	1950	2020-04-01	294	894	30		N/A	N/A	697	981	697		981	N/A	2	
1F06P	Celista Mountain	1500	2020-04-01	263	986	37		114%	76	764	1033	724	874	1132	867	14	
			Average	203	713	35		141%	87								

Basin Index Calculation	Average SWE	668
	Average Normal	541
South Thompson Basin Index - April 1, 2020		123%

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

UPPER COLUMBIA			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	SWE (mm)	
2A02	GLACIER	1250	2020-03-28	214	880	41		131%	91	630	709	371	663	1161	670	83	
2A03A	FIELD	1285	2020-03-31	66	197	30	A	144%	83	153	204	8	135	252	137	80	
2A06P	Mount Revelstoke	1850	2020-04-01		1312			108%	77	997	1273	709	1202	1692	1210	25	
2A07	KICKING HORSE	1650	2020-03-30	128	429	34		135%	88	293	394	185	340	589	317	71	
2A11	BEAVERFOOT	1890	2020-04-04	92	256	28		134%	78	166	236	105	211	460	191	60	
2A14	MOUNT ABBOT	2010	2020-03-26	311	1232	40		103%	59	1095	1300	698	1164	1849	1199	61	
2A16	GOLDSTREAM	1920	2020-04-02	348	1312	38		116%	83	983	1058	785	1106	1638	1133	56	
2A17	FIDELITY MOUNTAIN	1870	2020-03-27	341	1505	44		124%	84	1132	1248	730	1200	1951	1210	57	
2A18	KEYSTONE CREEK	1890	2020-04-02	229	797	35		101%	47	647	827	485	826	1388	788	52	
2A18P	Keystone Creek	1840	2020-04-01		952			N/A	N/A	772	998	772	982	1068	N/A	4	
2A19	VERMONT CREEK	1520	2020-04-04	129	413	32		104%	46	368	476	190	429	843	397	54	
2A21P	Molson Creek	1935	2020-04-01		974			95%	43	922	1081	651	998	1553	1029	37	
2A22	SUNBEAM LAKE	2010	2020-04-02	281	1018	36		115%	73	755	969	590	887	1384	885	53	
2A23	BUSH RIVER	1920	2020-04-02	244	883	36		109%	63	743	N/A	455	790	1331	809	51	
2A25	KIRBYVILLE LAKE	1750	2020-04-02	354	1330	38		114%	79	1047	1173	701	1160	1816	1163	47	
2A27	DOWNIE SLIDE (LOWER)	980	2020-04-02	231	898	39		135%	93	548	720	448	644	1062	664	41	
2A29	DOWNIE SLIDE (UPPER)	1630	2020-04-02	362	1412	39		106%	70	1166	1320	858	1299	2360	1334	42	
2A30P	Colpitti Creek	2131	2020-04-01		925			111%	93	666	957	552	724	957	834	10	
2A31P	Caribou Creek Upper	2201	2020-04-01		1027			N/A	N/A	771	1035	771	991	1053	N/A	4	
2A32P	Wildcat Creek	2122	2020-04-01		799			N/A	N/A	573	646	523	604	646	N/A	4	
			Average	238	928	36		117%	74								

Basin Index Calculation	Average SWE	928
	Average Normal	822
Upper Columbia Basin Index - April 1, 2020		113%

Stations used in Basin Index:
2A02, 2A03A, 2A06P, 2A07, 2A11, 2A14, 2A16, 2A17, 2A18, 2A19, 2A21P, 2A22, 2A23, 2A25, 2A27, 2A29, 2A30P

WEST KOOTENAY			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	SWE (mm)	
2B02A	FARRON	1220	2020-04-01	93	321	35		107%	58	287	465	127	307	480	300	47	
2B05	WHATSHAN (UPPER)	1525	2020-03-26	195	749	38		117%	82	417	780	350	634	964	638	61	
2B06P	Barnes Creek	1620	2020-04-01		732			138%	93	413	774	326	559	774	530	27	
2B07	KOCH CREEK	1860	2020-03-26	198	750	38		104%	50	599	810	397	750	1156	722	58	
2B08P	St. Leon Creek	1800	2020-04-01		1457			136%	97	937	1317	585	1148	1557	1072	26	
2B09	RECORD MOUNTAIN	1890	2020-04-01	212	704	33		99%	53	512	822	315	689	1307	708	44	
2D02	FERGUSON	880	2020-03-31	170	700	41		127%	82	542	669	142	562	881	550	82	
2D03	SANDON	1070	2020-04-01	122	454	37		138%	87	230	447	71	325	585	330	73	
2D04	NELSON	930	2020-03-31	80	278	35		83%	23	301	410	5	359	622	334	82	
2D05	GRAY CREEK (LOWER)	1550	N	N	N	N	N	N/A	N/A	348	579	276	466	688	440	71	

2D06	CHAR CREEK	1310	2020-04-01	149	516	35		98%	45	395	684	241	526	940	525	53
2D07A	DUNCAN LAKE NO. 2	630	N	N	N	N	N	N/A	N/A	60	N	0	110	223	83	26
2D07AP	Duncan Lake Dam 2	559	2020-04-01		52			N/A	N/A						N/A	
2D08P	East Creek	2030	2020-04-01		1051			122%	85	837	905	450	854	1252	863	39
2D09	MOUNT TEMPLEMAN	1860	2020-03-26	271	1097	40		108%	67	803	N	688	1019	1608	1013	40
2D10	GRAY CREEK (UPPER)	1940	N	N	N	N	N	N/A	N/A	543	920	492	729	1123	722	48
2D14P	Redfish Creek	2104	2020-04-01	359	1530	43		129%	84	1027	1477	807	1379	1756	1188	18
			Average	185	742	37		116%	70							

Basin Index Calculation	Average SWE	795
	Average Normal	675
West Kootenay Basin Index - April 1, 2020		118%

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

EAST KOOTENAY			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
2C01	SINCLAIR PASS	1370	2020-03-31	60	172	29	A	158%	81	114	161	36	111	262	109	82
2C04	SULLIVAN MINE	1550	2020-03-30	86	245	28		90%	25	226	347	134	322	538	272	74
2C09Q	Morrissey Ridge	1860	2020-04-01		659			94%	31	407	683	363	711	1224	704	35
2C10P	Moyie Mountain	1930	2020-04-01	138	526	38		128%	82	280	519	216	405	686	412	39
2C14P	Floe Lake	2090	2020-04-01		789			114%	65	566	829	360	683	1009	695	25
2C15	MOUNT ASSINIBOINE	2230	2020-04-04	184	601	33		117%	77	481	N/A	252	504	816	514	49
2C16	MOUNT JOFFRE	1750	2020-04-04	154	453	29		130%	75	256	444	179	342	711	349	50
2C17	THUNDER CREEK	2010	2020-04-04	118	307	26		119%	64	224	368	140	265	475	259	49
			Average	123	469	31		118%	63							

Basin Index Calculation	Average SWE	469
	Average Normal	414
East Kootenay Basin Index - April 1, 2020		113%

Stations used in Basin Index:
2C01, 2C04, 2C09Q, 2C10P, 2C14P, 2C15, 2C16, 2C17

BOUNDARY			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
2E01	MONASHEE PASS	1370	2020-03-26	126	437	35		135%	94	233	440	188	332	517	324	70
2E02	CARMI	1250	2020-03-26	59	155	26		135%	69	35	210	0	120	290	115	56
2E03	BIG WHITE MOUNTAIN	1680	2020-03-26	155	538	35		113%	75	322	671	319	457	762	476	54
2E07P	Grano Creek	1860	2020-04-01	167	618	37		120%	80	323	714	248	496	773	516	22
			Average	127	437	33		126%	80							

Basin Index Calculation	Average SWE	437
	Average Normal	358
Boundary Basin Index - April 1, 2020		122%

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

OKANAGAN			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
2F01A	TROUT CREEK (West)	1430	2020-03-25	76	250	33	A	128%	68	124	336	124	211	336	196	10
2F01AP	Trout Creek West	1420	2020-04-01	83	284	34		N/A	N/A	157	267	157		267	N/A	2
2F02	SUMMERLAND RESERVOIR	1280	2020-03-27	94	300	32		152%	85	143	360	96	224	389	197	83
2F03	MCCULLOCH	1280	2020-03-31	75	241	32		183%	96	90	265	6	155	265	132	82
2F04	GRAYSTOKE LAKE	1840	2020-04-03	129	532	41		157%	92	290	552	196	354	828	339	45
2F05P	Mission Creek	1780	2020-04-01	167	638	38		133%	92	356	706	270	465	746	478	49
2F07	POSTILL LAKE	1370	2020-03-31	83	272	33		135%	85	136	284	90	208	348	202	69
2F08	GREYBACK RESERVOIR	1550	2020-04-02	101	276	27		124%	75	N	360	114	229	360	223	63
2F08P	Greyback Reservoir	1550	2020-04-01	94	284	30		N/A	N/A	148	282	148	257	282	N/A	3
2F09	WHITEROCKS MOUNTAIN	1830	2020-04-01	162	589	36		113%	64	435	670	318	537	1021	521	65

2F10	Silver Star Mountain	1840	N	N	N	N	N	N/A	N/A	551	N	414	721	1115	723	58
2F10P	Silver Star Mountain	1839	2020-04-01	204	844	41		N/A	N/A	623	755	623	651	755	N/A	3
2F11	ISINTOK LAKE	1680	2020-03-31	79	217	27		147%	82	77	273	66	158	424	148	55
2F12	MOUNT KOBAU	1810	2020-03-31	91	285	31		94%	43	202	549	105	299	602	304	54
2F13	ESPERON CR (UPPER)	1650	2020-04-01	105	318	30		83%	22	250	478	244	386	805	383	51
2F14	ESPERON CR (MIDDLE)	1430	2020-04-01	96	272	28		83%	24	206	404	196	334	607	328	52
2F18P	Brenda Mine	1460	2020-04-01		305			88%	34	201	389	190	313	504	345	24
2F19	OYAMA LAKE	1340	2020-03-31	84	230	27		149%	92	116	236	61	167	255	154	48
2F20	VASEUX CREEK	1400	2020-03-28	57	160	28		121%	76	61	238	40	142	239	132	47
2F21	BOULEAU LAKE	1400	2020-03-30	96	324	34		106%	60	170	396	160	294	564	306	49
2F23	MACDONALD LAKE	1740	2020-04-01	130	343	26		80%	25	351	598	257	416	677	428	40
2F24	ISLAHT LAKE	1480	2020-04-02	122	394	32		128%	85	224	440	145	296	501	309	37
2F25	POSTILL LAKE UPPER	1540	2020-03-31	90	280	31		N/A	N/A	N	N	38	230	281	N/A	7
			Average	106	347	32		122%	67							

Basin Index Calculation	Average SWE	330
	Average Normal	285
Okanagan Basin Index - April 1, 2020		116%

Stations used in Basin Index:

2F01A, 2F02, 2F03, 2F04, 2F05P, 2F07, 2F08, 2F09, 2F11, 2F12, 2F13, 2F14, 2F18, 2F19, 2F20, 2F21, 2F23, 2F24

SIMILKAMEEN			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2G03P	Blackwall Peak	1940	2020-04-01	226	814	36		106%	60	567	944	404	747	1497	770	52
2G04	LOST HORSE MOUNTAIN	1920	2020-03-26	116	347	30		161%	95	166	408	138	221	533	216	56
2G05	MISSEZULA MOUNTAIN	1550	2020-03-26	78	208	27		106%	53	103	284	90	195	516	197	59
2G06	HAMILTON HILL	1490	2020-03-28	93	285	31		98%	38	121	354	83	310	851	291	59
			Average	128	414	31		117%	62							

Basin Index Calculation	Average SWE	414
	Average Normal	369
Similkameen Basin Index - April 1, 2020		112%

Stations used in Basin Index:

2G03P, 2G04, 2G05, 2G06

SOUTH COAST			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
3A01	GROUSE MOUNTAIN	1100	N	N	N	N	N	N/A	N/A	960	1750	0	1163	2670	1160	84
3A02	POWELL RIVER (UPPER)	1040	NS	NS	NS	NS	NS	N/A	N/A	708	N	15	1034	1813	969	55
3A05	POWELL RIVER (LOWER)	910	NS	NS	NS	NS	NS	N/A	N/A	408	N	8	771	1554	651	58
3A09	PALISADE LAKE	880	N	N	N	N	N	N/A	N/A	808	1720	0	1417	3560	1322	71
3A09P	Palisade Lake	900	2020-04-01	247	839	34		N/A	N/A	497	979	497		979	N/A	2
3A10	DOG MOUNTAIN	1080	N	N	N	N	N	N/A	N/A	890	1470	0	1198	2720	1137	74
3A19	ORCHID LAKE	1190	N	N	N	N	N	N/A	N/A	1420	2134	90	1836	3770	1769	46
3A20	CALLAGHAN CREEK	1040	N	N	N	N	N	N/A	N/A	706	981	24	866	1604	820	43
3A20P	Callaghan	1017	2020-04-01		751			N/A	N/A	883	N/A	883		883	N/A	1
3A22P	Nostetuko River	1500	2020-04-01	154	562	36		99%	49	435	589	221	576	1074	568	29
3A24P	Mosley Creek Upper	1650	2020-04-01	87	244	28		85%	42	202	385	135	263	567	288	31
3A25P	Squamish River Upper	1340	2020-04-01	399	1706	43		108%	70	1373	1745	714	1596	2758	1584	27
3A26	CHAPMAN CREEK	1022	N	N	N	N	N	N/A	N/A	924	1770	704	1545	1770	1344	12
3A27	EDWARDS LAKE	1070	N	N	N	N	N	N/A	N/A	548	1190	398	1068	1286	N/A	9
3A28P	Tetrahedron	1420	N/A	N/A	N/A	N/A	N/A	N/A	N/A	999	1416	999		1416	N/A	2
			Average	222	820	35		97%	54							

Basin Index Calculation	Average SWE	837
	Average Normal	813
South Coast Basin Index - April 1, 2020		103%

Stations used in Basin Index:

3A22P, 3A24P, 3A25P

VANCOUVER ISLAND			April 1, 2020 Data					April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
3B01	FORBIDDEN PLATEAU	1100	2020-04-01	312	1361	44		92%	36	1118	1394	30	1550	3550	1485	65
3B02A	MOUNT COKELY	1190	N	N	N	N	N	N	N	N	N	0	814	2100	831	34
3B04	ELK RIVER	270	2020-04-01	4	18	45		53%	73	0	0	0	0	607	34	58
3B10	UPPER THELWOOD LAKE	990	2020-04-01	346	1332	38		92%	36	894	1214	0	1480	3200	1455	60
3B17P	Wolf River Upper	1490	2020-04-01		1047			79%	33	960	1202	317	1240	2620	1320	32
3B18	WOLF RIVER (MIDDLE)	990	2020-04-01	155	522	34		84%	38	362	430	0	590	1706	618	48
3B19	WOLF RIVER (LOWER)	640	2020-04-01	84	320	38		102%	49	192	246	0	324	1198	315	47
3B23P	Jump Creek	1160	2020-04-01	292	948	32		87%	35	652	1440	0	1220	3040	1088	24
3B24P	Heather Mountain Upper	1190	N/A	N/A	N/A	N/A	N/A	N/A	N/A	818	1741	818	1585	1745	N/A	4
3B26P	Mount Arrowsmith	1465	2020-04-01	282	954	34		N/A	N/A	840	1186	840		1186	N/A	2
			Average	211	813	38		84%	43							

Basin Index Calculation	Average SWE	793
	Average Normal	902
Vancouver Island Basin Index - April 1, 2020		88%

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

CENTRAL COAST			April 1, 2020 Data					April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
3C07	WEDEENE RIVER SOUTH	220	N	N	N	N	N	N/A	N/A	264	520	36	361	981	383	34
3C08P	Burnt Bridge Creek	1330	2020-04-01	245	1057	43		132%	90	576	771	420	750	1388	802	21
			Average	245	1057	43		132%	90							

Basin Index Calculation	Average SWE	1057
	Average Normal	802
Central Coast Basin Index - April 1, 2020		132%

Stations used in Basin Index:
3C08P

SKAGIT			April 1, 2020 Data					April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
3D01C	SUMALLO RIVER WEST	790	2020-04-02	83	310	37		162%	78	85	337	0	181	512	191	27
3D02	LIGHTNING LAKE	1220	2020-03-26	106	354	33		127%	62	180	344	60	308	622	278	72
3D03A	KLESILKWA	1175	2020-04-02	111	372	34		161%	67	90	345	0	303	792	231	71
			Average	100	345	35		150%	69							

Basin Index Calculation	Average SWE	345
	Average Normal	233
Skagit Basin Index - April 1, 2020		148%

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

PEACE			April 1, 2020 Data					April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
4A02P	Pine Pass	1400	2020-04-01	370	1355	37		132%	86	967	1030	841	1033	1554	1026	27
4A03	WARE (UPPER)	1575	2020-04-01	105	259	25		100%	59	223	286	157	244	390	258	56
4A03P	Ware Upper	1565	2020-04-01	104	235	23		N/A	N/A	214	260	203	214	260	N/A	3
4A04	WARE (LOWER)	970	2020-04-01	94	229	24		118%	85	190	225	112	180	316	194	55
4A04P	Ware Lower	971	2020-04-01	90	227	25		N/A	N/A	203	235	153	203	235	N/A	3
4A05	GERMANSEN (UPPER)	1480	2020-04-02	141	456	32		131%	90	364	368	200	326	523	348	58
4A06	TUTIZZI LAKE	1045	2020-04-02	105	309	29		119%	82	226	291	166	254	406	259	57
4A07	LADY LAURIER LAKE	1440	2020-03-25	152	501	33	B	95%	58	437	465	342	484	854	529	56
4A09	PULPIT LAKE	1335	2020-04-01	151	502	33		118%	89	371	403	297	399	618	425	57
4A09P	Pulpit Lake	1311	2020-04-01	119	414	35		94%	38	314	316	282	430	622	439	29

4A10	FREDRICKSON LAKE	1325	2020-04-01	120	342	29		138%	98	233	235	149	240	351	247	57
4A11	TRYGVE LAKE	1410	2020-04-01	146	441	30		119%	86	302	N	253	348	511	370	56
4A12	TSAYDAYCHI LAKE	1190	2020-04-02	160	496	31		125%	83	398	417	234	373	639	398	57
4A13	PHILIP LAKE	1035	2020-04-02	110	316	29		113%	72	275	252	133	278	449	279	57
4A13P	Philip Lake	1028	2020-04-01		316			N/A	N/A						N/A	0
4A16	MORFEE MOUNTAIN	1430	2020-04-03	258	1021	40		123%	85	763	749	555	802	1158	833	50
4A18	MOUNT SHEBA	1490	2020-04-03	318	1178	37		143%	98	852	893	495	818	1294	823	50
4A18P	MOUNT SHEBA	1484	2020-04-01		1226			N/A	N/A	854	N/A	854		854	N/A	1
4A20	MONKMAN CREEK	1570	2020-04-03	236	733	31		136%	90	481	714	313	549	1067	540	40
4A20P	Monkman Creek	1570	2020-04-01		518			N/A	N/A	411	N/A	390		411	N/A	1
4A21	MOUNT STEARNS	1505	2020-03-25	67	131	20	B	89%	43	132	168	59	144	239	147	45
4A25	FORT ST. JOHN A	690	N	N	N	N	N	N/A	N/A	81	164	0	103	226	97	43
4A27P	Kwadacha North	1554	2020-04-01	138	361	26		110%	73	241	301	227	327	446	328	29
4A30P	Aiken Lake	1050	2020-04-01	100	280	28		104%	71	212	218	127	252	371	268	32
4A31P	Crying Girl Prairie	1358	2020-04-01		276			N/A	N/A	190	314	166	232	314	N/A	4
4A33P	Muskwa-Kechika	1196	2020-04-01		79			N/A	N/A	52	117	52	117	127	N/A	3
4A34P	Dowling Creek	1456	2020-04-01		1349			N/A	N/A	1471	1254	818	1254	1471	N/A	3
4A36P	Parsnip Upper	790	2020-04-01	160	444	28		N/A	N/A	303		303		303	N/A	1
			Average	154	518	30		117%	77							

Basin Index Calculation	Average SWE	518
	Average Normal	428
Peace Basin Index - April 1, 2020		121%

Stations used in Basin Index:
4A02P, 4A03, 4A04, 4A05, 4A06, 4A07, 4A09, 4A09P, 4A10, 4A11, 4A12, 4A13, 4A16, 4A18, 4A20, 4A21, 4A27P, 4A30P

SKEENA-NASS			April 1, 2020 Data				April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4B01	KIDPRICE LAKE	1370	2020-03-31	213	803	38		86%	33	645	845	622	874	1781	931	66
4B02	JOHANSON LAKE	1420	2020-04-02	126	362	29		120%	92	262	279	173	280	417	301	57
4B03A	HUDSON BAY MTN.	1480	2020-04-02	160	509	32		102%	56	425	530	356	480	846	499	48
4B04	CHAPMAN LAKE	1460	N	N	N	N	N	N/A	N/A	412	586	315	438	762	457	55
4B06	TACHEK CREEK	1140	2020-04-01	80	224	28		100%	50	216	244	112	222	362	223	52
4B07	MCKENDRICK CREEK	1050	2020-04-02	93	272	29		100%	46	250	421	183	282	427	271	52
4B08	MOUNT CRONIN	1480	N	N	N	N	N	N/A	N/A	457	714	415	552	1097	570	51
4B10	NINGUNSAW PASS	690	NS	NS	NS	NS	NS	N/A	N/A	234	251	199	408	730	434	44
4B11A	BEAR PASS	460	2020-03-31	170	675	40		105%	71	350	460	322	604	1013	642	33
4B13A	TERRACE AIRPORT	1805	2020-03-30	40	166	42		198%	72	0	182	0	35	333	84	38
4B14	EQUITY MINE	1420	2020-03-30	128	382	30		99%	57	354	546	258	364	640	385	43
4B15	LU LAKE	1300	2020-03-30	95	266	28		91%	40	266	420	162	296	504	291	43
4B15P	Lu Lake	1300	2020-04-01	104	279	27		106%	51	244	469	150	273	488	264	22
4B16P	Shedin Creek	1480	2020-04-01	249	778	31		87%	48	493	563	466	784	1096	896	22
4B17P	Tsai Creek	1360	2020-04-01	257	1009	39		87%	42	876	1025	802	1040	1834	1165	22
4B18P	Cedar-Kiteen	885	2020-04-01	163	603	37		85%	54	401	N/A	350	593	1129	712	18
			Average	144	487	33		105%	55							

Basin Index Calculation	Average SWE	509
	Average Normal	537
Skeena-Nass Basin Index - April 1, 2020		95%

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

LIARD			April 1, 2020 Data					April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4C01	SIKANNI LAKE	1385	2020-03-25	102	275	27	B	100%	59	199	251	158	256	380	276	56
4C01P	Sikanni Lake	1387	N/A	N/A	N/A	N/A	N/A	N/A	N/A	191	304	171	191	304	N/A	3
4C02	SUMMIT LAKE	1280	N	N	N	N	N	N/A	N/A	99	90	0	101	240	113	50
4C03	DEASE LAKE	820	2020-04-02	63	142	23		108%	62	75	99	0	124	259	132	53
4C05	FORT NELSON AIRPORT	380	N	N	N	N	N	N/A	N/A	28	52	23	84	198	94	53
			Average	83	209	25		104%	61							

Basin Index Calculation	Average SWE	209
	Average Normal	204
Liard Basin Index - April 1, 2020		102%

Stations used in Basin Index:
4C01, 4C03

STIKINE			April 1, 2020 Data					April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4D02	ISKUT	1000	2020-04-02	57	135	24		138%	83	0	72	0	103	180	98	44
4D10P	Tumeka Creek	1220	2020-04-01		583	N/A		97%	66	341	302	302	511	869	598	20
4D11P	Kinaskan Lake	1020	2020-04-01	121	405	33		100%	70	208	167	167	334	638	405	24
			Average	89	374	29		112%	73							

Basin Index Calculation	Average SWE	374
	Average Normal	367
Stikine Basin Index - April 1, 2020		102%

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

NORTHWEST			April 1, 2020 Data					April 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
4E01	LOG CABIN	900	2020-03-26	147	504	34		124%	90	228	285	213	363	610	407	60
4E02B	ATLIN LAKE	730	2020-03-27	33	70	21		N/A	8	0	75	0	100	243	N/A	15
			Average	N/A	N/A	N/A		N/A	N/A							

Basin Index Calculation	Average SWE	504
	Average Normal	407
Northwest Basin Index - April 1, 2020		124%

Stations used in Basin Index:
4E01

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	624
	Average Normal	560
British Columbia Basin Index - April 1, 2020		112%

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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Executive Summary

April was very dry throughout British Columbia with normal to below-normal temperature anomalies. A short warm spell in the third week of the month rapidly melted low elevation snow and caused flooding in areas surrounding Prince George, the Chilcotin Plateau, low-elevation rivers in the Cariboo and the Bonaparte River. Regions across the province experienced small accumulations in snow pack for the month, with snow basin index values generally remaining level or decreasing slightly compared to April 1st values.

The provincial average of snow measurements is 106% of normal. Seasonal flood risk is elevated in many regions, including the Upper Fraser East, North Thompson, South Thompson, West Kootenay, Boundary, Cariboo Mountains, Central Coast and Similkameen. The snow basin index for the Fraser River is 110%, with high snow pack levels in its major tributaries. The likely peak flow forecast for the Fraser River at Hope this freshet is 8,000-11,500 m³/s, though higher flows are possible with extreme weather.

Typically, the provincial snow pack reaches its maximum level in mid-April. Significant increases to the current snow pack are thus not expected.

Snow pack is one element of seasonal flood risk in BC and alone does not predict whether flooding will occur. Spring weather is a critical factor determining the rate that snow melts, and extreme rainfall can also cause spring flooding. Spring freshet poses a seasonal risk across the BC Interior, irrespective of snow pack levels.

Overview

The May 1st snow survey is now complete. Data from 108 manual snow courses and 81 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

April weather was dominated by a relatively stable pattern for the first 3 weeks of the month. Several weak low-pressure systems moved through the province in the last week of April. Temperatures were normal to below-normal across the province, with monthly temperature anomalies typically in the 0°C to -2°C range.

April was very dry throughout British Columbia, with below-normal to well-below-normal precipitation in most areas (15-70% of normal). Several locations in 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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experienced near or all-time record low precipitation accumulation for the month. April was the second consecutive month of cooler than normal and drier than normal conditions across the province.

Snowpack

Snow basin indices for May 1st, 2020 range from a low of 68% of normal on Vancouver Island to a high of 143% in the Upper Fraser East (Table 1 and Figure 1). Despite cooler than normal temperatures, very dry weather contributed to modest snow pack accumulation in April; additionally, a short warm spell in late April rapidly melted low-elevation snow, especially in the Middle Fraser. Most snow basin index values stayed level or dropped slightly relative to their April 1st values, while the overall average of province-wide measurements decreased from 112% of normal last month to 106% of normal for May 1st.

Table 1 - BC Snow Basin Indices – May 1, 2020

Basin	% of Normal (April values)	Basin	% of Normal (April values)
Upper Fraser West	109 (129)	Boundary	119 (122)
Upper Fraser East	143 (147)	Similkameen	119 (112)
Nechako	86 (101)	South Coast	102 (103)
Middle Fraser	91 (111)	Vancouver Island	68 (88)
Lower Fraser	89 (97)	Central Coast	124 (132)
North Thompson	118 (117)	Skagit	116 (148)
South Thompson	124 (123)	Peace	116 (121)
Upper Columbia	114 (113)	Skeena-Nass	83 (95)
West Kootenay	117 (118)	Stikine	101 (102)
East Kootenay	114 (113)	Liard	86 (102)
Okanagan	110 (116)	Northwest	114 (124)
Nicola	95 (92)	Fraser River (All)	110 (116)
		British Columbia	106 (112)

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High snow packs are generally present in the mountainous interior ranges of the province and in the Central Coast region. Extremely high snow pack (>130%) is present in the Upper Fraser East and the Cariboo Mountains (Quesnel River). Several snow measurement locations recorded all-time record high Snow Water Equivalent (SWE) values for May 1st.

These include:

- 1A17P (Revolution Creek): 1378 mm with 31 years of record (Upper Fraser – East)
- 1C13A (Horsefly Mountain): 712 mm with 48 years of record (Middle Fraser/Quesnel)
- 1C41P (Yanks Peak East): 1274 mm with 23 years of record (Middle Fraser/Quesnel)
- 1E14P (Cook Creek): 650 mm with 11 years of record (North Thompson)
- 2B08P (St. Leon Creek): 1595mm with 26 years of record (West Kootenay)

High snow packs (>120%) are present in the Central Coast and South Thompson. Moderately high snow packs (110-120%) are also present in the North Thompson, Upper Columbia, West Kootenay, East Kootenay, Okanagan, Boundary, Similkameen, Skagit, Peace and Northwest.

The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) is 110%. During freshet, most of the flow (roughly two-thirds) in the Fraser River originates from the Upper Fraser East, North Thompson, South Thompson and Cariboo Mountains. Snow pack in these areas is very high (130% of normal). The snow pack in unregulated watersheds of the Fraser River upstream of Hope (e.g., excluding the Nechako and Bridge systems, which are regulated by dams) are currently among the highest on record. For perspective, recent years with high May 1st snow basin indices for unregulated watersheds of the Fraser River upstream of Hope include 2018 (119%), 2012 (125%), 2007 (127%), and 1999 (126%).

Streamflow

Cool weather in the first half of April led to a delay in the onset of low elevation snowmelt. A moderate warm spell with slightly above normal temperatures resulted in rapid thaw of frozen rivers and quick melt of low elevation snow. Low-elevation rivers in the Chilcotin Plateau, the Cariboo Region near Williams Lake, rivers surrounding Prince George, and the Bonaparte River at Cache Creek experienced flood levels in late April. Extreme cold weather over the winter and early-spring may have also contributed to increased ice-jamming and rapid runoff during the warming in mid-April.

Many rivers in the province are experiencing above-normal flows for early-May. This reflects early melt of low-to-mid elevation snow, with flows 2-to-3 weeks ahead of normal in some areas. In watersheds with an increased proportion of high elevation, mountainous terrain, streamflow is more typical for this time of year and flows are expected to increase as high elevation melt proceeds.

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Outlook

Neutral El Niño Southern Oscillation (ENSO) conditions continue to persist, with forecasts from the Climate Prediction Centre (CPC) indicating a high likelihood of neutral ENSO conditions continuing through the summer and into autumn. Sea surface temperatures along the BC coast, extending offshore from the Washington, Oregon and California coasts, are near normal, with above-normal temperatures occurring further west and off-shore in the northern Pacific Ocean. El Niño conditions tend to have a minimal influence on spring weather in BC.

Seasonal weather forecasts from Environment and Climate Change Canada indicate an increased likelihood of warmer than normal May-June-July temperatures for most of the province. Short-term weather forecasts are indicating dry and warm conditions into the upcoming weekend, followed by a potential return to cooler weather.

Increased seasonal flood risk based on snow pack is present in the Upper Fraser - East, Cariboo Mountains (Quesnel River), North Thompson, South Thompson, West Kootenay, Boundary, Similkameen, Peace, Central Coast (Bella Coola) and Skagit basins. Other regions that are slightly above normal or near normal may still be at risk for flooding if heavy rains occur.

Historically, there are only a few years where the snow pack in the major tributaries of the Fraser River have been high at the same time; these years include 1972, 1974 and 1999. This means the seasonal flood risk for the entire Fraser River is elevated, given the importance of the Upper Fraser and Thompson River for the overall freshet flow on the lower Fraser River. The modelled peak flow forecast for the Fraser River at Hope is 9500 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

Seasonal volume forecasts for select watersheds (appended to end of the report) are also mostly elevated as a result of the seasonal snow pack. Volume inflow forecasts for the Okanagan system are 127-129% of average and are significantly higher than the overall Okanagan snow basin index. In contrast, runoff forecasts for the Similkameen River (at Hedley) are at 89-90%, below the snow basin index of 119%. Lower runoff forecasts relative to snow pack indices are also present for the Fraser River at McBride and the North Thompson River at McLure. In other areas, runoff forecasts are similar to snow basin indices, with runoff forecasts for the Nicola at 91-118%, Skeena and Bulkley at 92-95%, and Upper Fraser, Middle Fraser and Thompson tributaries at 100-133%.

Typically, 100% of the annual BC snow pack has accumulated by early May as the provincial snow pack normally peaks in mid-April. Lower elevation snow sites usually start to melt prior to May 1, while high elevation snow stations can continue to accumulate snow in May depending on weather conditions. Warm weather forecasted for this weekend (May 9-10) is

Snow Survey and Water Supply Bulletin – May 1st, 2020

expected to initiate high elevation melt, but it is not expected to substantially increase flows in most rivers. Seasonal temperatures the following week should keep most rivers fairly level.

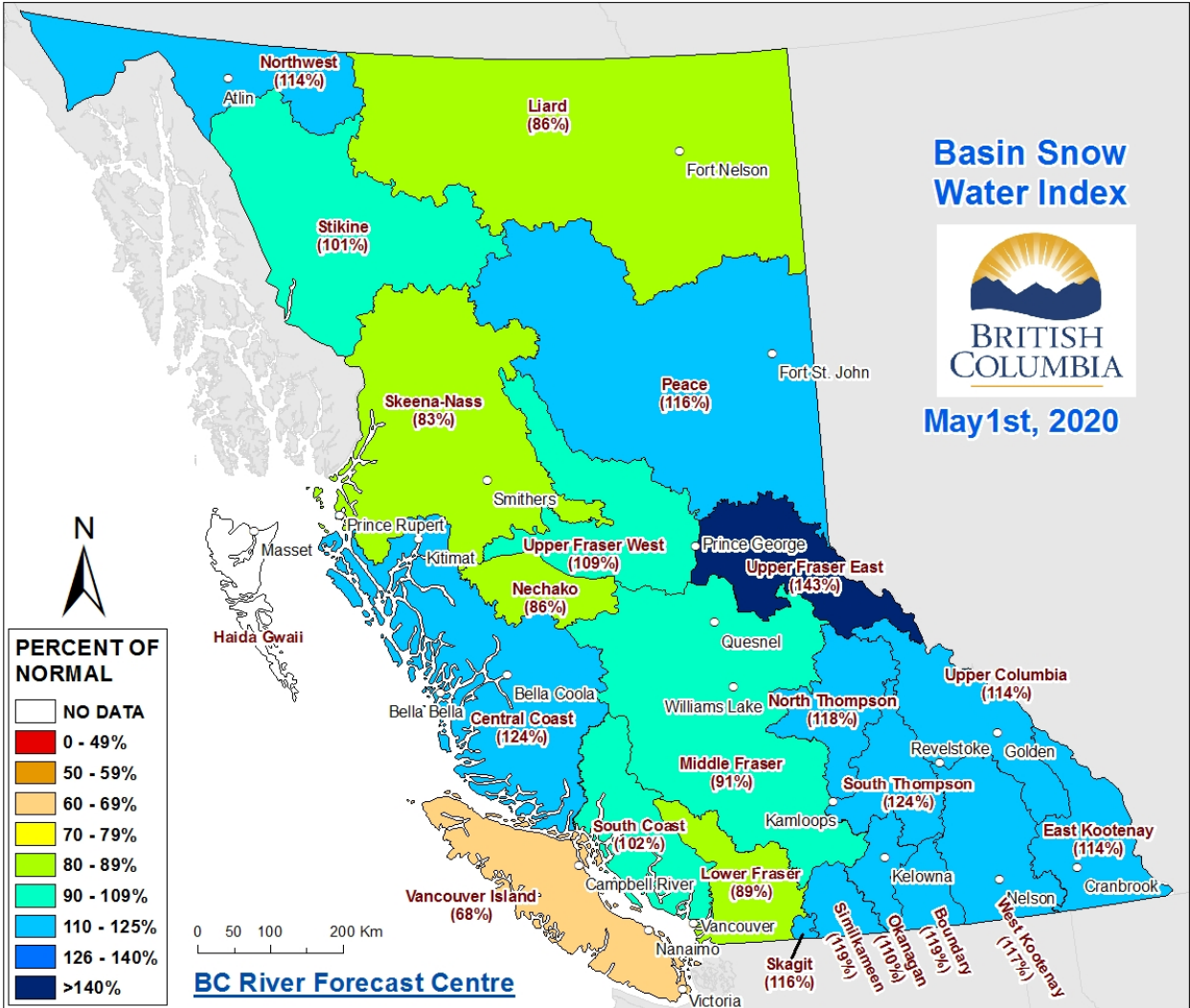
While snow pack is one risk factor for freshet flooding, snow pack alone cannot predict whether flooding will occur or not. Spring weather is also a critical flood risk factor, where the timing and severity of temperature and rainfall patterns are important drivers of flooding irrespective of snow pack levels. 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. Favourable scenarios would include continued dry weather and seasonal temperatures.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the May 15th, 2020 bulletin, which is scheduled for release on May 21st.

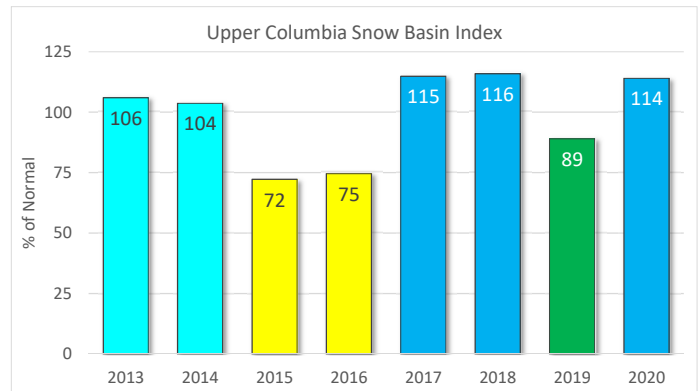
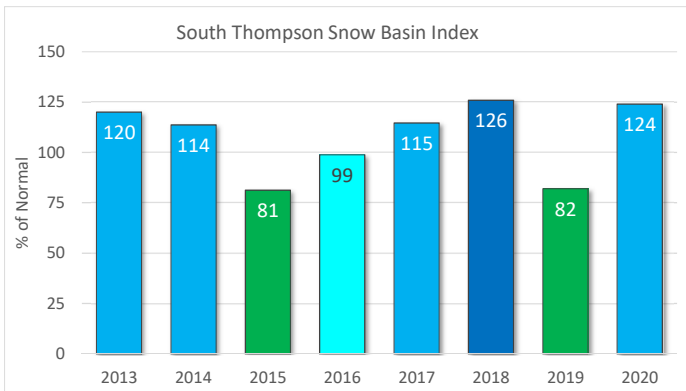
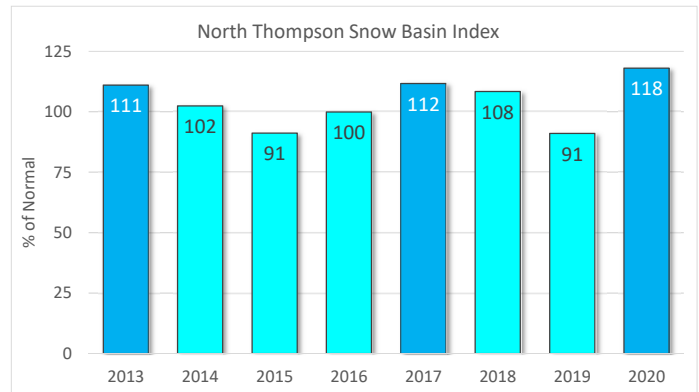
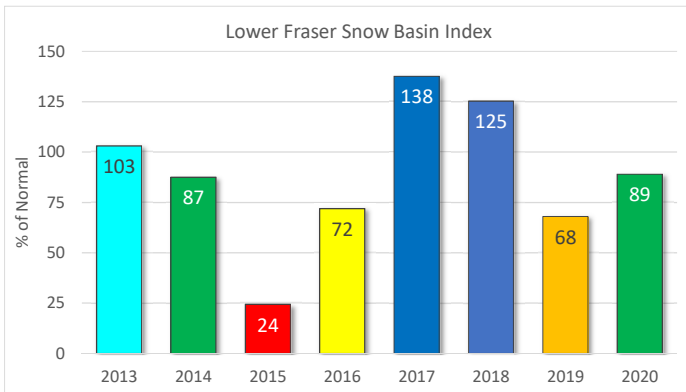
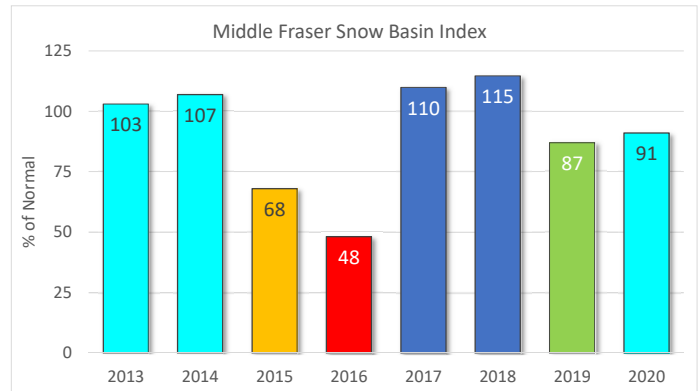
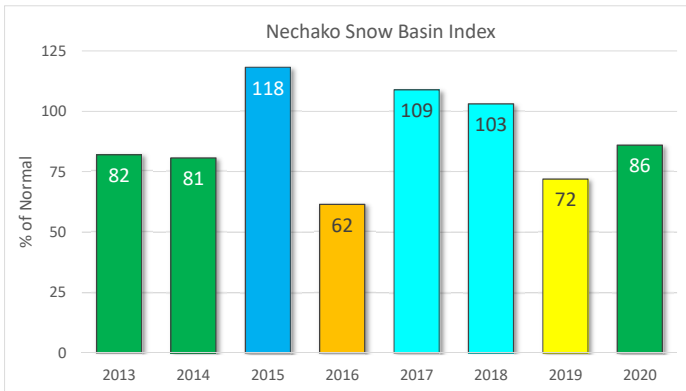
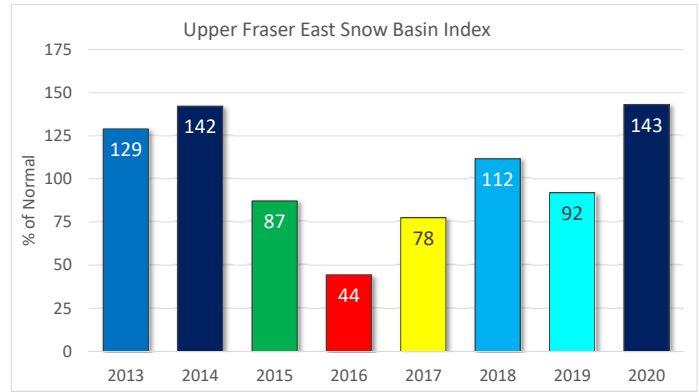
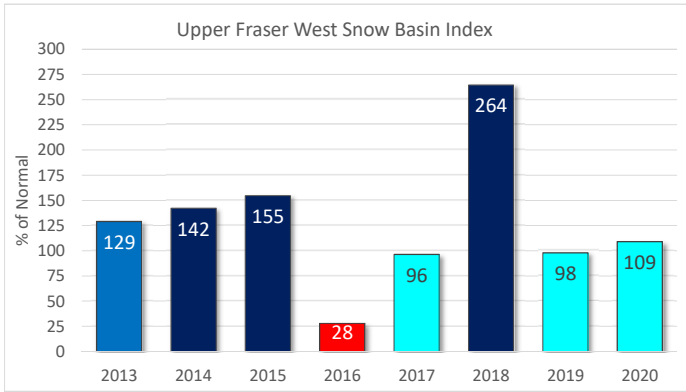
BC River Forecast Centre
May 8, 2020

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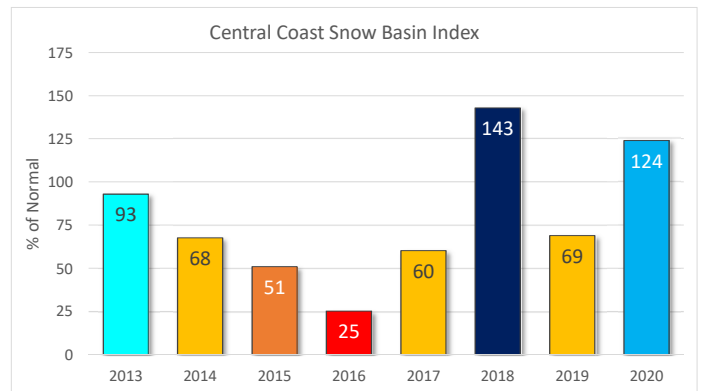
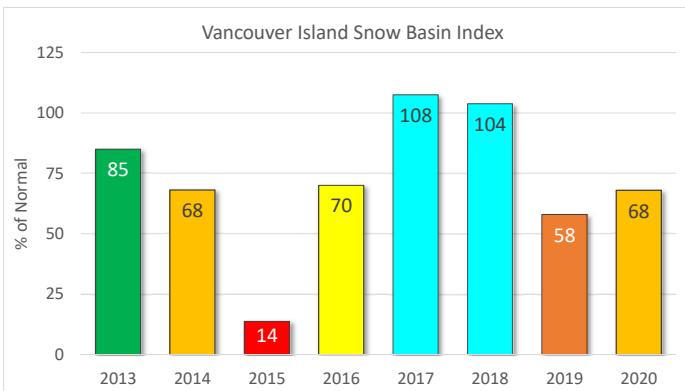
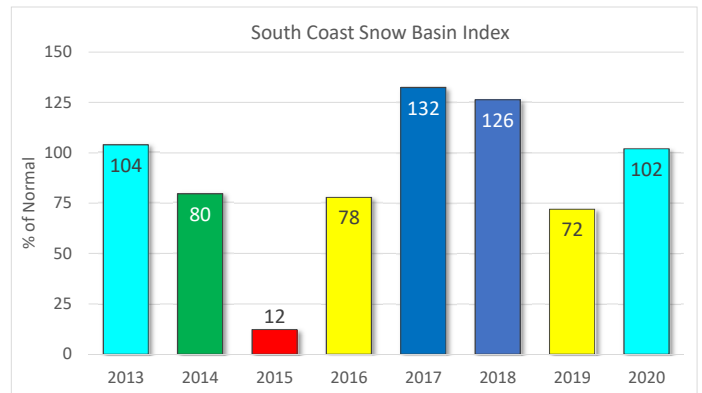
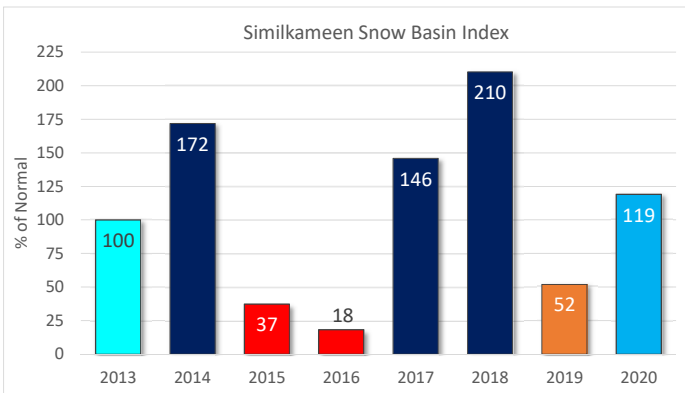
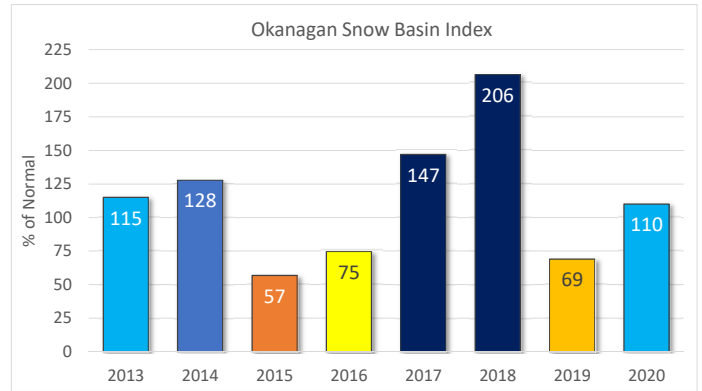
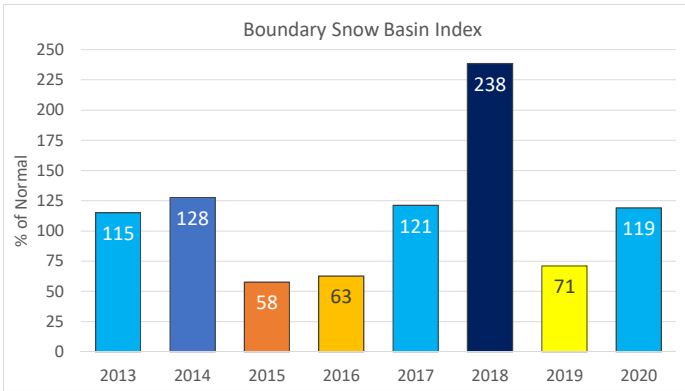
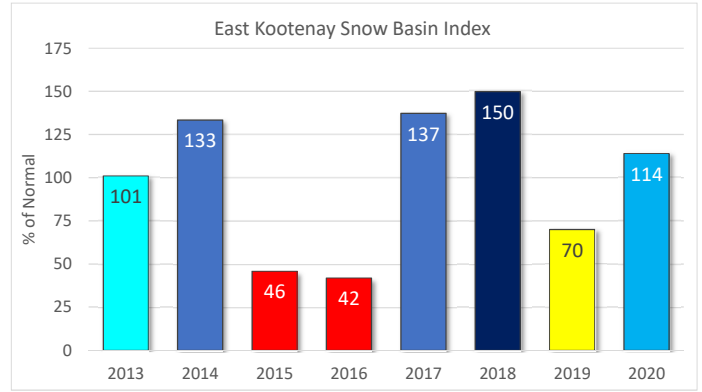
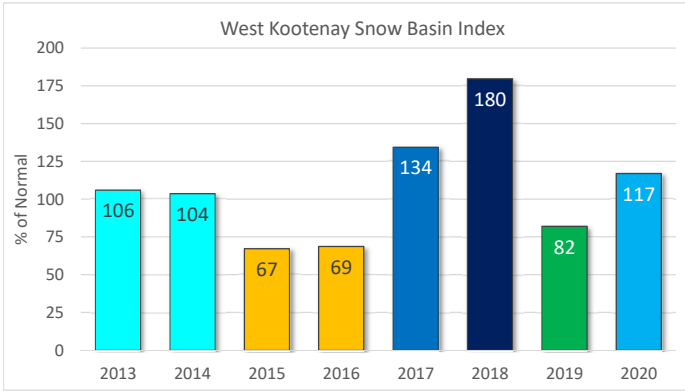
Figure 1: Basin Snow Water Index – May 1st, 2020



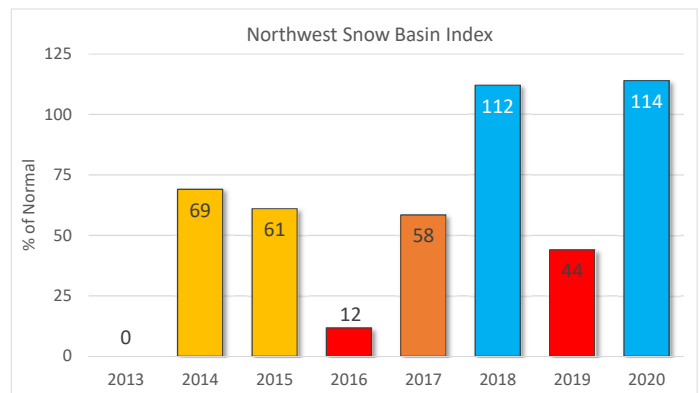
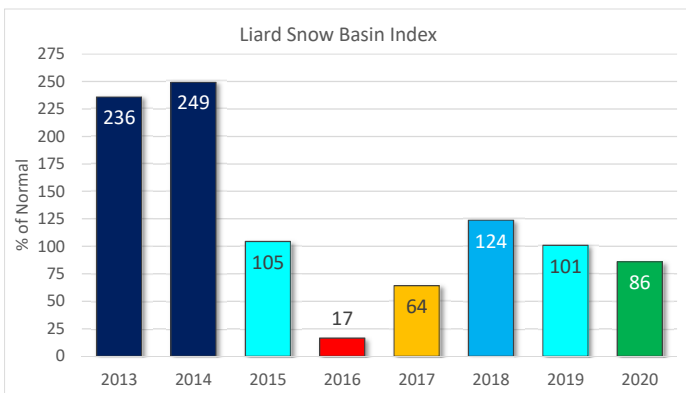
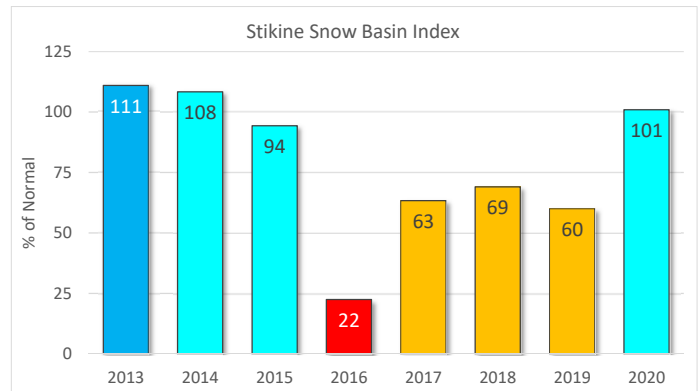
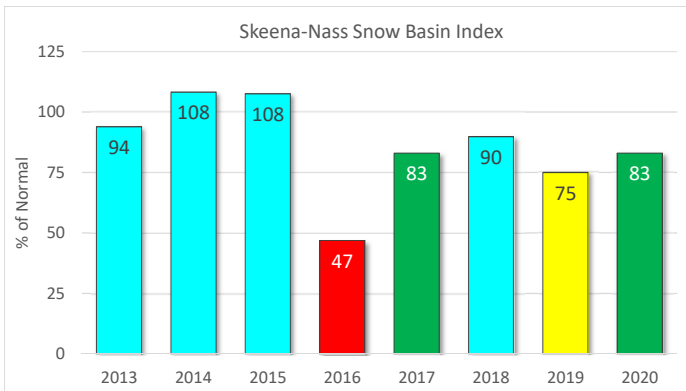
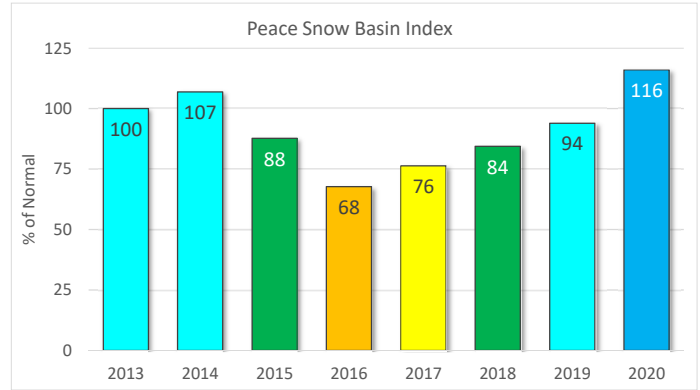
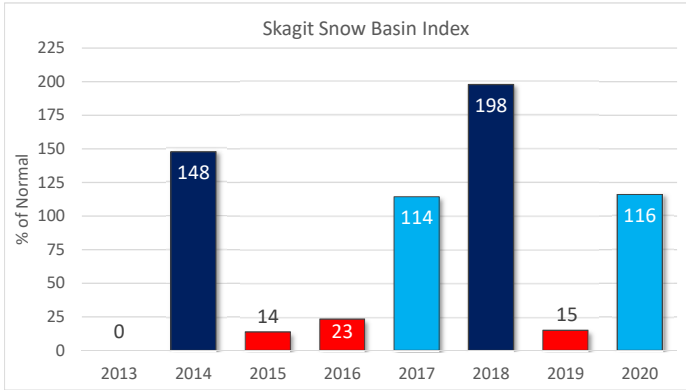
1. Every effort is made to ensure that data reported on these pages are accurate. However, in order to update the graphs and indices as quickly as possible, some data may have been estimated. Please note that data provided on these pages are preliminary and subject to revision upon review.



Snow Basin Index Graphs - May 1, 2020



Snow Basin Index Graphs - May 1, 2020



Ministry of Forests, Lands and Natural Resource Operations
River Forecast Centre
Volume Runoff Forecast May 2020

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				3523	3534	100%	297	5025	5000	101%	373
	McGregor at Lower Canyon				4498	3552	127%	376	5661	4598	123%	563
	Fraser at Shelley				18141	13672	133%	1070	21422	17732	121%	1657
Middle Fraser Basin	Quesnel River at Quesnel				4885	4117	119%	396	6448	5448	118%	574
Thompson Basin	N. Thompson at McLure				8431	8209	103%	425	10766	10379	104%	785
	S. Thompson at Chase				6136	5298	116%	403	8033	6865	117%	659
	Thompson at Spences Bridge				15209	13923	109%	825	19794	17903	111%	1510
Bulkley and Skeena	Bulkley at Quick				2196	2383	92%	185	2784	2980	93%	220
	Skeena at Usk				16495	17317	95%	964	20647	21661	95%	1463
Nicola Lake	Inflows	113	105	108%	28	144	122	118%	33			
Nicola River	at Spences Bridge	374	409	91%	76	434	476	91%	98			
Okanagan and Kalamalka-Wood Lake	Okanagan Lake Inflow	445	349	127%	81	486	376	129%	103			
	Kalamalka-Wood Lake Inflow	26	19	136%	8	29	20	141%	11			
Similkameen River	Similkameen at Nighthawk	1265	1101	115%	152				1646	1411	117%	193
	Similkameen at Hedley	744	827	90%	91				903	1015	89%	105
Cowichan River	Cowichan Lake Inflows	86	118	73%	32				117	153	76%	50

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.

Cowichan Lake Inflows are based on a multi-variate regression analysis and reflects a normal scenario for summer weather conditions

The Standard Error in the Cowichan forecast reflects model error, and does not capture uncertainty over seasonal weather

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, 2020 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A01P	Yellowhead Lake	1860	2020-05-01	148	625	42		111%	75	648	514	383	571	833	565	21
1A02P	McBride Upper	1611	2020-05-01	139	613	44		133%	85	487	490	203	490	754	462	28
1A03P	Barkerville	1520	2020-05-01	101	447	44		129%	86	274	280	2	328	541	346	41
1A05	LONGWORTH (UPPER)	1693	2020-04-28	296	1310	44		158%	98	866	806	391	825	1476	830	65
1A05P	Longworth Upper	1740	2020-05-01	282	993	35		N/A	N/A	826	768	657	768	826	N/A	3
1A06A	HANSARD	608	2020-05-01	10	30	30	NS	N/A	N/A	0	NS	0		100	N/A	2
1A10	PRINCE GEORGE A	689	2020-05-01	0	0	N/A	NS, T	0%	N/A	0	NS	0	0	216	10	41
1A11	PACIFIC LAKE	755	2020-04-28	173	782	45		154%	87	419	732	0	512	976	507	54
1A14P	Hedrick Lake	1100	2020-05-01	223	1174	53	E	143%	86	560	787	248	743	1268	820	20
1A15	KNUDSEN LAKE	1602	2020-04-28	276	1230	45		142%	91	741	1001	501	895	1346	868	49
1A15P	Knudsen Lake	1601	2020-05-01		786			N/A	N/A	513	641	284	520	641	N/A	4
1A17P	Revolution Creek	1690	2020-05-01	297	1378	46		171%	100	804	871	480	838	1353	804	31
1A19P	Dome Mountain	1774	2020-05-01	246	1042	42		129%	83	728	715	314	821	1166	810	14
			Average	198	865	44		127%	88							

* record high

Basin Index Calculation	Average SWE	860
	Average Normal	602
Upper Fraser East Basin Index - May 1, 2020		143%

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

UPPER FRASER WEST			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A12	KAZA LAKE	1250	2020-05-01	94	358	38		109%	56	298	N	166	338	481	328	52
1A12P	Kaza Lake	1257	2020-05-01		361			N/A	N/A	331	328	192	284	331	N/A	4
1A16	BURNS LAKE	800		N	N	N	N	N/A	N/A	2	124	0	0	148	26	42
1A23	BIRD CREEK	1180		N	N	N	N	N/A	N/A	84	218	0	10	218	39	28
			Average	94	360	38		109%	56							

Basin Index Calculation	Average SWE	358
	Average Normal	328
Upper Fraser West Basin Index - May 1, 2020		109%

Stations used in Basin Index:
1A12

NECHAKO			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1B01	MOUNT WELLS	1490		N	N	N	N	N/A	N/A	380	627	201	514	958	487	63
1B01P	Mount Wells	1490						N/A	N/A	484	725	305	552	917	569	28
1B02	TAHTSA LAKE	1300		N	N	N	N	N/A	N/A	819	1060	701	1175	2073	1256	66
1B02P	Tahtsa Lake	1300	2020-05-01		1168			86%	28	990	1236	823	1280	2356	1362	27
1B05	SKINS LAKE	890		N	N	N	N	N/A	N/A	0	42	0	0	100	3	48
1B06	MOUNT SWANNELL	1620		N	N	N	N	N/A	N/A	248	337	0	301	499	287	30
1B07	NUTLI LAKE	1490		N	N	N	N	N/A	N/A	349	481	227	480	870	513	27
1B08P	Mt. Pondosy	1400	2020-05-01		687			87%	44	499	827	490	747	1267	794	24
			Average	N/A	928	N/A		86%	36							

Basin Index Calculation	Average SWE	928
	Average Normal	1078
Nechako Basin Index - May 1, 2020		86%

Stations used in Basin Index:
1B02P, 1B08P

LOWER THOMPSON			May 1, 2020 Data					May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1C01	BROOKMERE	980	2020-04-30	7	34	49		52%	26	0	97	0	74	419	65	73
1C06	PAVILION	1230	NS	NS	NS	NS	NS	N/A	N/A	NS	0	0	0	0	0	16
1C09A	HIGHLAND VALLEY	1510	2020-04-28	0	0			0%	0	0	181	0	0	181	20	52
1C25	LAC LE JEUNE (UPPER)	1509	2020-04-30	17	50	29		167%	71	37	162	0	21	168	30	46
1C29	SHOVELNOSE MOUNTAIN	1450	2020-04-30	25	95	38		116%	73	0	255	0	39	305	82	37
1C29P	Shovelnose Moutain	1460	2020-05-01	16	40	25		N/A	N/A	162	N/A	162		162	N/A	1
1C32	DEADMAN RIVER	1430	2020-05-01	20	100	50		313%	89	0	140	0	8	194	32	36
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	172		172	#N/A	1
			Average	14	53	38		129%	52							

Basin Index Calculation	Average SWE	56
	Average Normal	46
Lower Thompson Basin Index - May 1, 2020		122%

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

BRIDGE / LILLOOET			May 1, 2020 Data					May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1C05	MCGILLIVRAY PASS	1725	2020-05-05	94	388	41		68%	11	414	544	270	590	1118	573	67
1C05P	McGillivray Pass	1718	2020-05-01		374			N/A	N/A	410	618	410	514	618	N/A	2
1C12P	Green Mountain	1780	2020-05-01		565			62%	4	740	771	488	827	1369	909	26
1C14	BRALORNE	1389	2020-05-05	0	0			0%	0	38	133	0	60	255	58	56
1C14P	Bralorne	1382	2020-05-01		0			N/A	N/A	0	58	0	29	58	N/A	2
1C18P	Mission Ridge	1850	2020-05-01		485			98%	45	336	643	147	490	1029	496	43
1C28	DUFFEY LAKE	1200	N	N	N	N	N	N/A	N/A	230	N	206	365	624	377	14
1C37	BRALORNE(UPPER)	1981	2020-05-05	115	454	39		67%	12	550	N	0	684	1092	676	23
1C38	DOWNTON LAKE (UPPER)	1887	2020-05-05	156	678	43		79%	21	840	N	450	856	1340	856	22
1C38P	Downton Lake Upper	1829	2020-05-01		617			N/A	N/A	718	684	684	763	869	N/A	4
1C39	BRIDGE GLACIER (LOWER)	1390	2020-05-05	106	416	39		69%	11	598	654	244	605	1018	600	24
1C40	TYAUGHTON CREEK (NORTH)	1947	2020-05-05	83	330	40		74%	31	398	532	258	413	806	443	24
1C40P	North Tyaughton	1969	2020-05-01		299			N/A	N/A	387	438	217	378	438	N/A	4
			Average	92	384	41		65%	17							

Basin Index Calculation	Average SWE	415
	Average Normal	576
Bridge/Lillooet Basin Index - May 1, 2020		72%

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

CHILCOTIN			May 1, 2020 Data					May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1C08	NAZKO	1070	2020-05-01	0	0	N/A		0%	N/A	0	N	0	0	46	3	25
1C21	BIG CREEK	1140	2020-04-30	0	0	N/A		0%	N/A	0	0	0	0	48	12	8
1C22	PUNTZI MOUNTAIN	940	2020-04-30	0	0	N/A		N/A	N/A	0	0	0	0	0	0	12
			Average	0	0	N/A		0%	N/A							

Basin Index Calculation	Average SWE	0
	Average Normal	5
Chilcotin Basin Index - May 1, 2020		0%

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

QUESNEL			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1C13A	HORSEFLY MOUNTAIN	1550	2020-04-29	158	712	45		175%	100	518	612	136	443	690	408	48
1C17	MOUNT TIMOTHY	1660	2020-05-01	55	204	37		79%	25	232	370	90	302	536	257	57
1C20P	Boss Mountain Mine	1460	2020-05-01	110	506	46		85%	38	535	616	259	558	821	597	26
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	NS	N/A	N/A	N	991	710	1080	1420	1064	44
1C33A	GRANITE MOUNTAIN	1150	2020-05-01	32	129	40		145%	81	53	114	0	59	221	89	14
1C41P	Yanks Peak East	1670	2020-05-01	228	1274	56		154%	100	972	922	529	922	1192	825	23
			Average	117	565	45		128%	69							

*record high
*record high

Basin Index Calculation	Average SWE	565
	Average Normal	435
Quesnel Basin Index - May 1, 2020		130%

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

MIDDLE FRASER

Basin Index Calculation	Average SWE	321
	Average Normal	352
Middle River Basin Index - May 1, 2020		91%

Stations used in Basin Index:
1C01, 1C09A, 1C25, 1C29, 1C32, 1C05, 1C12P, 1C14, 1C18P, 1C37, 1C38, 1C39, 1C40, 1C08, 1C21, 1C22, 1C13A, 1C17, 1C20P, 1C33A, 1C41P

LOWER FRASER			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1D06P	Tenquille Lake	1680	2020-05-01	208	912	44		87%	28	920	1189	653	1061	1699	1047	19
1D08	STAVE LAKE	1250	2020-05-01	261	1267	49		84%	31	1026	2323	62	1606	3120	1513	53
1D09	WAHLEACH LAKE	1480	2020-05-01	147	643	44		105%	49	326	N	4	645	1417	615	51
1D09P	Wahleach Lake Upper	1480	2020-05-01		958			92%	44	682	1200	344	986	1757	1043	27
1D10	NAHATLATCH RIVER	1550	2020-05-01	232	1142	49		84%	24	1018	N	468	1355	2720	1361	50
1D16	DICKSON LAKE	1160	2020-05-01	309	1526	49		98%	54	754	2002	4	1516	3180	1553	27
1D17P	Chilliwack River	1600	2020-05-01	534	1737	33		115%	59	1244	1871	675	1575	2445	1513	27
1D18P	Disappointment Lake	1050	2020-05-01	257	954	37		66%	22	630	1566	375	1524	2460	1437	11
1D19P	Spuzzum Creek	1180	2020-05-01	227	1324	58		81%	36	1030	1660	162	1660	2940	1635	21
			Average	272	1163	45		90%	39							

Basin Index Calculation	Average SWE	1163
	Average Normal	1302
Lower Fraser Basin Index - May 1, 2020		89%

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

NORTH THOMPSON			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1E01B	BLUE RIVER	670	2020-04-27	55	240	44		828%	98	78	186	0	0	265	29	35
1E02P	Mount Cook	1550	2020-05-01	311	1511	49		112%	73	1305	1395	1007	1332	2006	1346	16
1E03A	TROPY MOUNTAIN	1860	2020-04-30	184	714	39		118%	81	596	654	417	608	960	607	42
1E07	ADAMS RIVER	1720	2020-04-30	185	852	46		117%	82	670	864	396	737	1173	726	48
1E08P	Azure River	1652	2020-05-01	261	1328	51		109%	62	930	1200	776	1275	1635	1214	23
1E10P	Kostal Lake	1770	2020-05-01	191	832	44		93%	32	809	909	641	936	1268	891	35
1E14P	Cook Creek	1280	2020-05-01	102	650	64		178%	100	293	N/A	101	416	599	365	11
			Average	184	875	48		222%	75							

*record high

Basin Index Calculation	Average SWE	875
	Average Normal	740
North Thompson Basin Index - May 1, 2020		118%

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

SOUTH THOMPSON			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	SWE (mm)	
1F01A	ABERDEEN LAKE	1310	2020-04-24	28	105	38		553%	87	0	114	0	6	165	19	62	
1F02	ANGLEMONT	1190	2020-05-01	75	376	50		235%	83	108	376	0	221	496	160	59	
1F03P	Park Mountain	1890	2020-05-01	197	1023	52		107%	61	712	1175	669	952	1340	955	35	
1F04P	Enderby	1950	2020-05-01	260	981	38		N/A	N/A	835	1167	835	1147	1167	N/A	3	
1F06P	Celista Mountain	1500	2020-05-01	202	1029	51		113%	49	895	1173	799	1032	1173	914	13	
			Average	152	703	46		252%	70								

Basin Index Calculation	Average SWE	633
	Average Normal	512
South Thompson Basin Index - May 1, 2020		124%

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

UPPER COLUMBIA			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	SWE (mm)	
2A02	GLACIER	1250	2020-04-26	165	838	51		130%	86	612	676	320	652	1247	643	74	
2A03A	FIELD	1285	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	178	20	49	
2A06P	Mount Revelstoke	1850	2020-05-01		1323			105%	65	1105	1316	874	1251	1668	1265	26	
2A07	KICKING HORSE	1650	2020-04-29	94	384	41		130%	77	265	426	63	307	589	296	69	
2A11	BEAVERFOOT	1890	2020-04-28	76	235	31		138%	66	118	238	0	199	495	170	59	
2A14	MOUNT ABBOT	2010	2020-04-28	337	1470	44		109%	66	1143	1460	853	1323	1885	1345	59	
2A16	GOLDSTREAM	1920	2020-05-01	305	1408	46		117%	83	1114	1193	784	1175	1781	1200	57	
2A17	FIDELITY MOUNTAIN	1870	2020-04-25	338	1627	48		125%	85	1210	1420	817	1288	1986	1306	57	
2A18	KEYSTONE CREEK	1890	2020-05-01	190	843	44		102%	52	702	903	514	819	1421	823	53	
2A18P	Keystone Creek	1840	2020-05-01		1020			N/A	N/A	902	1068	737	985	1288	N/A	4	
2A19	VERMONT CREEK	1520	2020-04-28	84	347	41		106%	42	248	449	0	364	1026	327	54	
2A21P	Molson Creek	1935	2020-05-01		1053			96%	44	947	1187	742	1080	1677	1100	37	
2A22	SUNBEAM LAKE	2010	2020-05-01	266	1143	43		122%	81	833	1083	611	937	1562	939	53	
2A23	BUSH RIVER	1920	2020-05-01	220	979	45		117%	76	782	870	492	838	1392	834	52	
2A25	KIRBYVILLE LAKE	1750	2020-05-01	278	1378	50		111%	73	1167	1341	770	1191	1797	1243	47	
2A27	DOWNIE SLIDE (LOWER)	980	2020-05-01	153	732	48		142%	88	404	698	0	484	910	517	41	
2A29	DOWNIE SLIDE (UPPER)	1630	2020-05-01	300	1454	48		104%	71	1330	1564	802	1344	2242	1402	41	
2A30P	Colpitti Creek	2131	2020-05-01		1045			121%	85	754	1101	452	678	1122	861	10	
2A31P	Caribou Creek Upper	2201	2020-05-01		1094			N/A	N/A	862	1186	796	1024	1214	N/A	4	
2A32P	Wildcat Creek	2122	2020-05-01		844			N/A	N/A	692	691	440	692	751	N/A	4	
			Average	216	1011	45		117%	71								

Basin Index Calculation	Average SWE	1016
	Average Normal	892
Upper Columbia Basin Index - May 1, 2020		114%

Stations used in Basin Index:
2A02, 2A06P, 2A07, 2A11, 2A14, 2A16, 2A17, 2A18, 2A19, 2A21P, 2A22, 2A23, 2A25, 2A27, 2A29, 2A30P

WEST KOOTENAY			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	SWE (mm)	
2B02A	FARRON	1220	2020-04-30	37	152	41		83%	40	130	437	0	180	437	183	47	
2B05	WHATSHAN (UPPER)	1525	2020-04-26	157	723	46		130%	78	360	831	255	566	983	557	58	
2B06P	Barnes Creek	1620	2020-05-01		654			121%	71	345	794	345	559	821	541	27	
2B07	KOCH CREEK	1860	2020-04-26	184	816	44		105%	56	644	974	391	784	1201	778	58	
2B08P	St. Leon Creek	1800	2020-05-01		1595			143%	100	1017	1403	705	1120	1512	1113	26	
2B09	RECORD MOUNTAIN	1890	2020-05-01	131	582	44		80%	31	552	914	157	692	1278	727	45	
2D02	FERGUSON	880	2020-04-30	123	622	51		145%	89	N	586	160	423	773	429	71	
2D03	SANDON	1070	2020-05-01	41	199	49		442%	81	0	266	0	48	399	45	65	
2D04	NELSON	930	2020-04-29	32	139	43	A	97%	51	27	299	0	137	508	143	63	
2D05	GRAY CREEK (LOWER)	1550	N	N	N	N	N	N/A	N/A	359	600	229	450	726	429	70	

*record high

2D06	CHAR CREEK	1310	NS	NS	NS	NS	NS	N/A	N/A	320	660	79	441	838	449	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	2020-05-01	0	0			N/A	N/A	N/A	N/A				N/A	0
2D08P	East Creek	2030	2020-05-01		1055			116%	77	961	1033	483	913	1349	910	38
2D09	MOUNT TEMPLEMAN	1860	2020-04-26	256	1143	45		106%	58	N	N	731	1069	1679	1075	50
2D10	GRAY CREEK (UPPER)	1940	N	N	N	N	N	N/A	N/A	627	987	505	757	1300	767	49
2D14P	Redfish Creek	2104	2020-05-01	305	1447	47		111%	44	1165	1769	890	1493	2036	1298	18
Average				127	702	46		140%	65							

Basin Index Calculation	Average SWE	761
	Average Normal	650
West Kootenay Basin Index - May 1, 2020		117%

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

EAST KOOTENAY			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record	
2C01	SINCLAIR PASS	1370	2020-04-29	26	88			238%	81	0	74	0	40	246		37	73
2C04	SULLIVAN MINE	1550	2020-05-01	56	178	32		98%	28	84	416	0	257	518	182	74	
2C09Q	Morrissey Ridge	1860	2020-05-01		655			98%	47	389	735	317	678	1332	670	35	
2C10P	Moyie Mountain	1930	2020-05-01	92	497	54		147%	79	232	532	0	355	674	338	39	
2C14P	Floe Lake	2090	2020-05-01		872			114%	54	641	951	481	803	1196	767	25	
2C15	MOUNT ASSINIBOINE	2230	2020-04-28	171	632	37		112%	67	515	650	339	555	930	566	48	
2C16	MOUNT JOFFRE	1750	N	N	N	N	N	N/A	N/A	217	447	36	342	772	346	50	
2C17	THUNDER CREEK	2010	N	N	N	N	N	N/A	N/A	246	362	163	293	556	271	48	
Average				86	487	41		134%	59								

Basin Index Calculation	Average SWE	487
	Average Normal	427
East Kootenay Basin Index - May 1, 2020		114%

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

BOUNDARY			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data								
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record	
2E01	MONASHEE PASS	1370	2020-04-26	92	386	42		145%	81	189	487	67	290	505	266	60	
2E02	CARMI	1250	2020-04-30	0	0	N/A		0%	0	0	623	0	0	173	12	56	
2E03	BIG WHITE MOUNTAIN	1680	2020-04-30	121	485	40		108%	52	334	723	237	474	762	451	53	
2E07P	Grano Creek	1860	2020-05-01	138	664	48		118%	66	398	878	295	560	878	561	22	
Average				88	384	43		93%	50								

Basin Index Calculation	Average SWE	384
	Average Normal	323
Boundary Basin Index - May 1, 2020		119%

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

OKANAGAN			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2F01A	TROUT CREEK (West)	1430	2020-05-03	21	8	4		7%	0	20	298	20	142	298	112	10
2F01AP	Trout Creek West	1420	2020-05-01	16	81	51		N/A	N/A	0	240	0	120	240	N/A	2
2F02	SUMMERLAND RESERVOIR	1280	N	N	N	N	N	N/A	N/A	0	305	0	106	368	84	54
2F03	MCCULLOCH	1280	2020-04-29	5	25	50		208%	58	0	82	0	19	188	12	73
2F04	GRAYSTOKE LAKE	1840	2020-05-07	141	512	36		149%	87	308	564	120	380	940	343	45
2F05P	Mission Creek	1780	2020-05-01	149	710	48		148%	92	411	803	138	510	803	481	49
2F07	POSTILL LAKE	1370	2020-05-01	45	157	35		130%	52	0	268	0	155	282	121	67
2F08	GREYBACK RESERVOIR	1550	NS	NS	NS	NS	NS	N/A	N/A	N	354	0	172	386	158	45
2F08P	Greyback Reservoir	1550	2020-05-01	94	139	15		N/A	N/A	52	269	52	266	269	N/A	3
2F09	WHITEROCKS MOUNTAIN	1830	N	N	N	N	N	N/A	N/A	415	647	175	498	1013	470	49

2F10	Silver Star Mountain	1840	NS	NS	NS	NS	NS	N/A	N/A	595	1070	371	760	1135	734	59
2F10P	Silver Star Mountain	1839	2020-05-01	169	883	52		N/A	N/A	711	839	711	796	839	N/A	4
2F11	ISINTOK LAKE	1680	N	N	N	N	N	N/A	N/A	0	318	0	125	437	98	54
2F12	MOUNT KOBAU	1810	2020-04-29	59	220	37		71%	22	168	568	53	299	597	309	54
2F13	ESPERON CR (UPPER)	1650	2020-04-26	96	344	36		99%	44	256	464	119	354	805	346	50
2F14	ESPERON CR (MIDDLE)	1430	2020-04-26	70	244	35		113%	41	198	390	0	284	551	216	33
2F18P	Brenda Mine	1460	2020-05-01		54			42%	29	2	259	0	143	344	128	24
2F19	OYAMA LAKE	1340	N	N	N	N	N	N/A	N/A	0	154	0	59	233	55	50
2F20	VASEUX CREEK	1400	2020-04-28	15	30	20		73%	52	38	186	0	24	195	41	48
2F21	BOULEAU LAKE	1400	2020-04-26	65	280	43		112%	55	N	476	16	268	488	251	47
2F23	MACDONALD LAKE	1740	N	N	N	N	N	N/A	N/A	N	581	198	421	650	421	37
2F24	ISLAHT LAKE	1480	2020-05-01	68	280	41		120%	61	143	428	64	257	433	234	38
2F25	POSTILL LAKE UPPER	1540	N	N	N	N	N	N/A	N/A	N	N	0	36	250	N/A	4
Average				72	264	36		106%	49							

Basin Index Calculation	Average SWE	239
	Average Normal	216
Okanagan Basin Index - May 1, 2020		110%

Stations used in Basin Index:
2F01A, 2F03, 2F04, 2F05P, 2F07, 2F12, 2F13, 2F14, 2F18P, 2F20, 2F21, 2F24

SIMILKAMEEN			May 1, 2020 Data					May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2G03P	Blackwall Peak	1940	2020-05-01	183	838	46		109%	63	548	1000	376	731	1570	768	52
2G04	LOST HORSE MOUNTAIN	1920	2020-04-26	106	370	35		172%	91	N	455	10	240	554	215	56
2G05	MISSEZULA MOUNTAIN	1550	2020-04-26	42	138	33		135%	53	0	229	0	114	323	102	55
2G06	HAMILTON HILL	1490	2020-04-27	49	177	36		93%	35	0	304	0	230	838	190	60
Average				95	381	37		127%	61							

Basin Index Calculation	Average SWE	381
	Average Normal	319
Similkameen Basin Index - May 1, 2020		119%

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

SOUTH COAST			May 1, 2020 Data					May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
3A01	GROUSE MOUNTAIN	1100	N	N	N	N	N	N/A	N/A	858	1730	0	1190	2870	1170	70
3A02	POWELL RIVER (UPPER)	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	1110	533	813	1712	783	6
3A05	POWELL RIVER (LOWER)	910	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	183	399	585	349	4
3A09	PALISADE LAKE	880	N	N	N	N	N	N/A	N/A	632	1524	0	1413	3600	1291	66
3A09P	Palisade Lake	900	2020-05-01	141	473	34		N/A	N/A	316	499	316	408	499	N/A	2
3A10	DOG MOUNTAIN	1080	2020-05-01	242	1185	49		104%	54	702	1514	0	1158	2760	1137	36
3A19	ORCHID LAKE	1190	N	N	N	N	N	N/A	N/A	1350	2240	100	1913	3845	1866	47
3A20	CALLAGHAN CREEK	1040	N	N	N	N	N	N/A	N/A	486	990	0	688	1568	711	42
3A20P	Callaghan	1017	2020-05-01		567			N/A	N/A	646	N/A	646		646	N/A	1
3A22P	Nostetuko River	1500	2020-05-01	107	544	51		100%	55	457	608	202	518	1065	542	28
3A24P	Mosley Creek Upper	1650	2020-05-01	36	231	64		91%	42	203	379	16	240	533	254	31
3A25P	Squamish River Upper	1340	2020-05-01	297	1642	55		103%	56	1573	1803	695	1568	2911	1597	27
3A26	CHAPMAN CREEK	1022	NS	NS	NS	NS	NS	N/A	N/A	960	1873	756	1430	1873	1275	9
3A27	EDWARDS LAKE	1070	NS	NS	NS	NS	NS	N/A	N/A	512	N	400	806	1180	N/A	7
3A28P	Tetrahedron	1420						N/A	N/A	1101	1484	1101	1293	1484	N/A	2
Average				165	774	51		100%	52							

Basin Index Calculation	Average SWE	901
	Average Normal	883
South Coast Basin Index - May 1, 2020		102%

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

VANCOUVER ISLAND			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
3B01	FORBIDDEN PLATEAU	1100	2020-05-01	232	1140	49		76%	23	1114	1562	0	1562	3500	1507	63
3B02A	MOUNT COKELY	1190	N	N	N	N	N	N/A	N/A	590	962	0	768	2062	813	35
3B04	ELK RIVER	270	2020-05-01	0	0	N/A		N/A	N/A	0	0	0	0	0	0	36
3B10	UPPER THELWOOD LAKE	990	2020-05-01	227	1100	48		74%	22	716	1248	0	1492	3560	1484	58
3B17P	Wolf River Upper	1490	2020-05-01		894			66%	12	1040	1300	374	1183	2696	1356	31
3B18	WOLF RIVER (MIDDLE)	990	2020-05-01	69	320	46		59%	26	226	422	0	523	1652	546	49
3B19	WOLF RIVER (LOWER)	640	2020-05-01	0	0	N/A		0%	0	0	54	0	27	1118	134	50
3B23P	Jump Creek	1160	2020-05-01	190	793	42		67%	32	415	1316	0	1090	3485	1180	24
3B24P	Heather Mountain Upper	1190	2020-05-01	274	1182	43		N/A	N/A	822	1891	822	1570	1933	N/A	4
3B26P	Mount Arrowsmith	1465	2020-05-01	187	880	47		N/A	N/A	781	1218	781	1000	1218	N/A	2
			Average	147	701	46		57%	19							

Basin Index Calculation	Average SWE	708
	Average Normal	1035
Vancouver Island Basin Index - May 1, 2020		68%

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

CENTRAL COAST			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
3C07	WEDEENE RIVER SOUTH	220	N	N	N	N	N	N/A	N/A	30	280	0	43	749	136	32
3C08P	Burnt Bridge Creek	1330	2020-05-01	163	959	59		124%	83	602	757	392	729	1474	776	21
			Average	163	959	59		124%	83							

Basin Index Calculation	Average SWE	959
	Average Normal	776
Central Coast Basin Index - May 1, 2020		124%

Stations used in Basin Index:
3C08P

SKAGIT			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
3D01C	SUMALLO RIVER WEST	790	2020-05-01	25	107	43		162%	70	0	N	0	0	371	66	26
3D02	LIGHTNING LAKE	1220	2020-05-06	55	223	41		100%	49	57	332	7	226	599	223	48
3D03A	KLESILKWA	1175	2020-05-01	29	126	43		122%	63	0	254	0	34	752	103	47
			Average	36	152	42		128%	61							

Basin Index Calculation	Average SWE	152
	Average Normal	131
Skagit Basin Index - May 1, 2020		116%

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

PEACE			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
4A02P	Pine Pass	1400	2020-05-01	291	1429	49		133%	87	1072	1051	894	1088	1706	1072	27
4A03	WARE (UPPER)	1575	2020-04-30	84	255	30		93%	52	241	237	141	251	402	274	56
4A03P	Ware Upper	1565	2020-05-01	50	210	42		N/A	N/A	236	251	215	236	251	#N/A	3
4A04	WARE (LOWER)	970	2020-04-30	29	95	33		77%	28	150	104	0	119	229	124	53
4A04P	Ware Lower	971	2020-05-01	0	38			N/A	N/A	154	113	39	113	154	#N/A	3
4A05	GERMANSEN (UPPER)	1480	2020-04-30	116	407	35		115%	78	393	295	181	341	597	355	58
4A06	TUTIZZI LAKE	1045	2020-04-30	31	111	36		72%	29	86	134	0	149	325	155	56
4A07	LADY LAURIER LAKE	1440	2020-04-26	134	502	37		90%	44	450	501	305	521	926	555	57
4A09	PULPIT LAKE	1335	2020-04-30	118	468	40		112%	72	399	N	270	406	623	418	53
4A09P	Pulpit Lake	1311	2020-05-01	81	407	50		100%	60	360	307	182	384	637	407	29

4A10	FREDRICKSON LAKE	1325	2020-04-29	84	310	37	134%	95	236	155	87	232	358	231	56	
4A11	TRYGVE LAKE	1410	2020-04-29	116	429	37	113%	78	335	282	220	368	599	381	56	
4A12	TSAYDAYCHI LAKE	1190	2020-04-29	105	428	41	111%	71	402	349	168	377	700	386	57	
4A13	PHILIP LAKE	1035	2020-04-29	55	215	39	110%	58	172	109	0	195	406	196	56	
4A13P	Philip Lake	1028	2020-05-01		72		N/A	N/A	N/A	N/A				N/A	0	
4A16	MORFEE MOUNTAIN	1430	2020-04-28	209	985	47	121%	84	788	674	410	810	1181	812	49	
4A18	MOUNT SHEBA	1490	2020-05-01	265	1233	47	138%	95	920	958	503	889	1371	891	51	
4A18P	MOUNT SHEBA	1484	2020-05-01	281	1274	45	N/A	N/A	957	N/A	957		957	N/A	1	
4A20	MONKMAN CREEK	1570	2020-04-28	195	784	40	135%	86	N	768	329	576	1042	580	38	
4A20P	Monkman Creek	1570	2020-05-01		564		N/A	N/A	467	N/A	467		467	N/A	1	
4A21	MOUNT STEARNS	1505	2020-04-26	55	156	28	107%	63	148	135	0	140	271	146	46	
4A25	FORT ST. JOHN A	690	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	56	0	27	
4A27P	Kwadacha North	1554	2020-05-01	107	344	32	97%	51	259	305	259	343	476	355	28	
4A30P	Aiken Lake	1050	2020-05-01	31	151	49	83%	41	143	143	16	170	315	181	32	
4A31P	Crying Girl Prairie	1358	2020-05-01		155		N/A	N/A	186	215	0	201	310	N/A	4	
4A33P	Muskwa-Kechika	1196	2020-05-01		0		N/A	N/A	0	30	0	30	101	N/A	3	
4A34P	Dowling Creek	1456	2020-05-01		1334		N/A	N/A	1425	1254	160	1254	1425	N/A	3	
4A36P	Parsnip Upper	790	2020-05-01	81	157	19	N/A	N/A	13	N/A	13		13	N/A	1	
			Average	114	463	39	108%	65								

Basin Index Calculation	Average SWE	484
	Average Normal	418
Peace Basin Index - May 1, 2020		116%

Stations used in Basin Index:
4A02P, 4A03, 4A04, 4A05, 4A06, 4A07, 4A09, 4A09P, 4A10, 4A11, 4A12, 4A13, 4A16, 4A18, 4A20, 4A21, 4A27P, 4A30P

SKEENA-NASS			May 1, 2020 Data					May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4B01	KIDPRICE LAKE	1370	N	N	N	N	N	N/A	N/A	634	913	551	884	1591	951	65
4B02	JOHANSON LAKE	1420	2020-04-29	103	352	34		117%	79	267	187	143	287	433	301	57
4B03A	HUDSON BAY MTN.	1480	2020-04-30	111	442	40		87%	30	478	585	272	510	795	509	48
4B04	CHAPMAN LAKE	1460	N	N	N	N	N	N/A	N/A	416	630	286	463	749	473	53
4B06	TACHEK CREEK	1140	2020-05-02	33	72	22		41%	4	166	288	55	166	363	175	49
4B07	MCKENDRICK CREEK	1050	2020-04-30	49	182	37		82%	28	233	453	72	235	453	223	52
4B08	MOUNT CRONIN	1480	N	N	N	N	N	N/A	N/A	491	789	422	596	1125	616	50
4B10	NINGUNSAW PASS	690	NS	NS	NS	NS	NS	N/A	N/A	0	164	0	262	676	263	41
4B11A	BEAR PASS	460	2020-05-07	78	390	50		72%	41	N	N	0	508	860	541	23
4B13A	TERRACE AIRPORT	180	2020-05-06	0	0			0%	N/A	0	0	0	0	58	14	8
4B14	EQUITY MINE	1420	2020-04-28	102	388	38		104%	60	326	N	212	356	690	373	41
4B15	LU LAKE	1300	2020-04-28	54	200	37		75%	21	258	N	132	258	528	267	39
4B15P	Lu Lake	1300	2020-05-01	52	214	41		94%	35	278	430	67	278	514	227	22
4B16P	Shedin Creek	1480	2020-05-01	183	816	45		84%	45	611	584	487	863	1226	972	22
4B17P	Tsai Creek	1360	2020-05-01	204	1066	52		82%	42	1026	1183	834	1162	2083	1307	22
4B18P	Cedar-Kiteen	885	2020-05-01	85	390	46		64%	33	295	402	11	498	1076	612	19
			Average	88	376	40		75%	38							

Basin Index Calculation	Average SWE	444
	Average Normal	533
Skeena-Nass Basin Index - May 1, 2020		83%

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

LIARD			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
4C01	SIKANNI LAKE	1385	2020-04-26	84	273	33		103%	57	246	145	88	261	404	266	56
4C01P	Sikanni Lake	1387						N/A	N/A	231	275	159	231	275	N/A	3
4C02	SUMMIT LAKE	1280	N	N	N	N	N	N/A	N/A	116	115	0	0	200	44	51
4C03	DEASE LAKE	820	2020-05-01	0	0			0%	N/A	0	0	0	0	192	38	51
4C05	FORT NELSON AIRPORT	380	2020-05-06	0	0			0%	N/A	0	24	0	0	103	12	33
Average				28	91	33		34%	57							

Basin Index Calculation	Average SWE	91
	Average Normal	105
Liard Basin Index - May 1, 2020		86%

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

STIKINE			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
4D02	ISKUT	1000	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	146	18	24
4D10P	Tumeka Creek	1220	2020-05-01		582			102%	67	367	315	315	482	838	571	20
4D11P	Kinaskan Lake	1020	2020-05-01	81	349	43		99%	65	184	111	111	313	609	352	24
Average				81	466	43		101%	66							

Basin Index Calculation	Average SWE	466
	Average Normal	462
Stikine Basin Index - May 1, 2020		101%

Stations used in Basin Index:
4D10P, 4D11P

NORTHWEST			May 1, 2020 Data				May 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
4E01	LOG CABIN	900	2020-04-28	111	430	39		114%	84	164	319	127	345	571	376	61
4E02B	ATLIN LAKE	730	2020-04-27	0	0	N/A		N/A	N/A	37	0	0	18	140	N/A	13
Average				N/A	N/A	N/A		N/A	N/A							

Basin Index Calculation	Average SWE	430
	Average Normal	376
Northwest Basin Index - May 1, 2020		114%

Stations used in Basin Index:
4E01

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	611
	Average Normal	579
British Columbia Basin Index - May 1, 2020		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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Executive Summary

Weather during the first two weeks of May was variable throughout the province. A strong high-pressure ridge dominated temperatures along coastal BC on the weekend of May 9/10. Regions in the Interior were less affected by the ridge of high pressure and temperatures were seasonal. Most rivers in British Columbia were flowing at normal or above normal for early-May. There have been no Flood Watches or Flood Warnings issued by the River Forecast Centre in May; however, many regions have been under High Streamflow Advisory for several weeks.

Most snow basin indices for May 15th dropped relative to May 1st values. The overall average of province-wide measurements decreased from 106% of normal on May 1st to 97% of normal for May 15th. The May 15th Snow Survey is less comprehensive than May 1st, with only 17 manual snow surveys conducted for May 15th compared to 108 manual snow courses for May 1st. Thus, the May 15 bulletin is most useful in determining if the snowmelt is early, delayed or seasonal. Spring snowmelt for 2020 is considered seasonal in nature.

Larger river systems have yet to reach their peak levels for the year and are still at risk for flooding this Spring due to snowmelt and/or heavy rainfall. These include areas in the Upper Fraser, Cariboo Mountains, North Thompson, South Thompson, West Kootenay, East Kootenay, Upper Columbia and Lower Fraser Valley. Rivers in other areas of the province remain high and are sensitive to flooding from heavy rainfall.

Overview

The May 15th snow survey is now complete. Data from 17 manual snow courses and 81 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 during the first two weeks of May was variable throughout the province. A strong high-pressure ridge dominated coastal BC on the weekend of May 9th and 10th, with well above normal temperatures. Regions in the Interior were less affected by the ridge of high pressure and temperatures were seasonal.

In the Interior, early May was dominated by several low-pressure storm systems. Seasonal temperatures in the Interior resulted in minor accumulation of snow at higher elevations.

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 for May 15th, 2020 range from a low of 52% of normal on Vancouver Island to a high of 133% in the Upper Fraser East (Table 1 and Figure 1). Significant heat on May 9th and 10th along coastal B.C. resulted in major melt to the snow pack from Vancouver Island to the Skeena-Nass region. Seasonal temperatures in the Interior and several storm systems contributed to minor snow accumulation at higher elevations in the Columbia, Kootenay, and Boundary. Most snow basin indices dropped relative to May 1st values, while the overall average of province-wide measurements decreased from 106% of normal on May 1st to 97% of normal for May 15th.

Generally, 15-25% of the accumulated snow pack has melted by mid-May. Most sites have melted at seasonal rates this year. Most lower elevation areas are now snow-free (approximately below 800-1000m in coastal BC, below 1600m in southern BC and below 1200-1300m in northern BC), while higher elevation snow pack has experienced limited melt.

Snowmelt observations from automated snow weather stations over the past week (since May 15th) indicate continued seasonal melt, with the average of all real-time stations at nearly 100% of average for May 21st.

Table 1 - BC Snow Basin Indices – May 15, 2020

Basin	% of Normal (May 1 st values)	Basin	% of Normal (May 1 st values)
Upper Fraser West	N/A (109)	Boundary	127 (119)
Upper Fraser East	133 (143)	Similkameen	103 (119)
Nechako	71 (86)	South Coast	89 (102)
Middle Fraser	85 (91)	Vancouver Island	52 (68)
Lower Fraser	78 (89)	Central Coast	102 (124)
North Thompson	112 (118)	Skagit	N/A (116)
South Thompson	110 (124)	Peace	104 (116)
Upper Columbia	116 (114)	Skeena-Nass	66 (83)
West Kootenay	117 (117)	Stikine	83 (101)

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East Kootenay	115 (114)	Liard	N/A (86)
Okanagan	99 (110)	Northwest	N/A (114)
Fraser River (All)	98 (110)	British Columbia	97 (106)

The May 15th Snow Survey is comprised of fewer manual snow sampling sites than the May 1st bulletin; specifically, 17 manual snow surveys were conducted for May 15th, compared to 108 manual snow courses for May 1st. Seven of these 17 manual snow surveys measured 0 mm of Snow Water Equivalent for May 15th.

Extremely high snow pack (>130%) is present in the Upper Fraser East. High snow pack (>120%) is present in the Boundary. Moderately high snow packs (110-120%) are also present in the North Thompson, South Thompson, Upper Columbia, West Kootenay, and East Kootenay.

The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) is 98%. During freshet, most of the flow (roughly two-thirds) in the Fraser River originates from the Upper Fraser East, North Thompson, South Thompson and Cariboo Mountains. Snow pack in these areas is high (117% of normal). The snow pack in unregulated watersheds of the Fraser River upstream of Hope (e.g., excluding the Nechako and Bridge systems, which are regulated by dams) were among the highest on record this year.

Streamflow

Most rivers in British Columbia were flowing at normal or above normal for early-May. There have been no Flood Watches or Flood Warnings issued by the River Forecast Centre in May; however, many regions have been under High Streamflow Advisories for several weeks. Regions with rivers and creeks under advisory include: the Cariboo, North Thompson, Bonaparte, Okanagan, Nicola, Boundary, Shuswap, & Salmon River.

The larger river systems in the Interior (Upper Fraser, Quesnel, North Thompson, South Thompson, Kootenay, Columbia) are rising, but not forecast to reach high levels through the following week. They will likely reach peak flows in early to mid-June, or possibly later for higher elevation watersheds or with wetter weather.

Outlook

Seasonal weather forecasts from Environment and Climate Change Canada indicate an increased likelihood of warmer than normal May-June-July temperatures for most of the province. Short-term weather forecasts indicate seasonal temperatures and several active

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storm systems over the next 7 days. Longer range forecasts indicate the possibility of a high-pressure ridge building the weekend of May 30/31.

Seasonal flood risk remains in many regions in the province. Areas currently under High Streamflow Advisory (Cariboo, North Thompson, Shuswap, Nicola, Okanagan, Boundary) are vulnerable to short-term heavy rain events as river levels are relatively high. Some of these regions still have significant high elevation snow remaining, including the North Thompson, Shuswap, Mission Creek in the Okanagan and the Boundary region. Larger river systems are still at risk for flooding this Spring due to snowmelt and/or heavy rainfall. These include areas in the Upper Fraser, Cariboo Mountains, North Thompson, South Thompson, West Kootenay, East Kootenay, Upper Columbia and Lower Fraser Valley. Areas in the Peace are vulnerable to spring flooding from heavy rainfall arising from strong low-pressure systems. Other regions that are slightly above normal or near normal may still be at risk for flooding if heavy rains occur.

Historically, there are only a few years where the snow pack in the major tributaries of the Fraser River have been high at the same time, including 1972, 1974 and 1999. This means the seasonal flood risk for the entire Fraser River is elevated, given the importance of the Upper Fraser and Thompson River for the overall freshet flow on the lower Fraser River. The modelled peak flow forecast for the Fraser River at Hope is 9,500 m³/s, with a likely range of 8,000-11,500 m³/s. However, these are only estimates, where higher flows are possible particularly if adverse weather patterns, such as extreme rainfall or heat, materialize in spring.

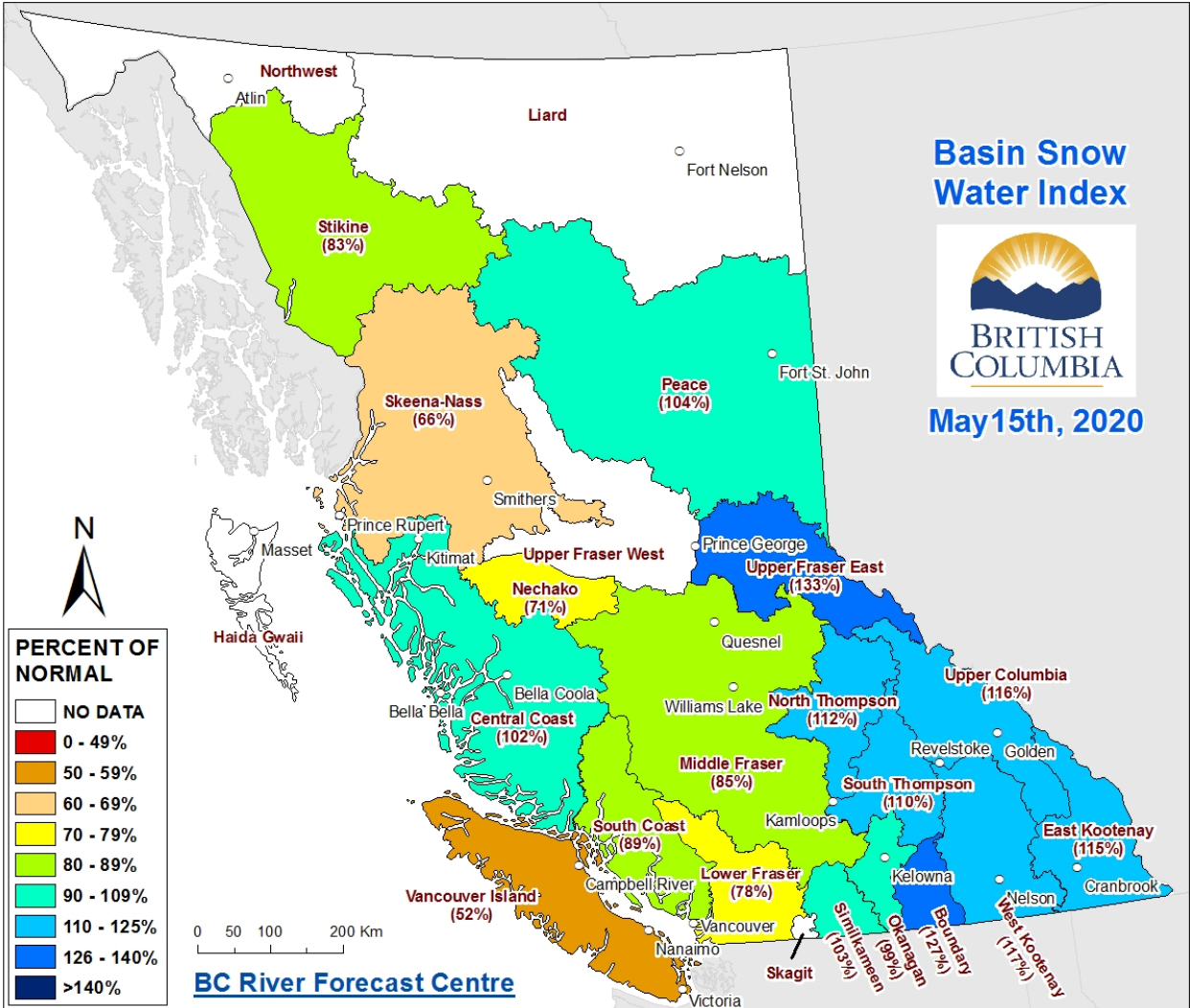
In recent years, hot temperatures in April & May have resulted in earlier than normal freshets. If cooler than normal or seasonal temperatures continue into June, the freshet period can continue into July.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the June 1st, 2020 bulletin, which is scheduled for release on June 8th.

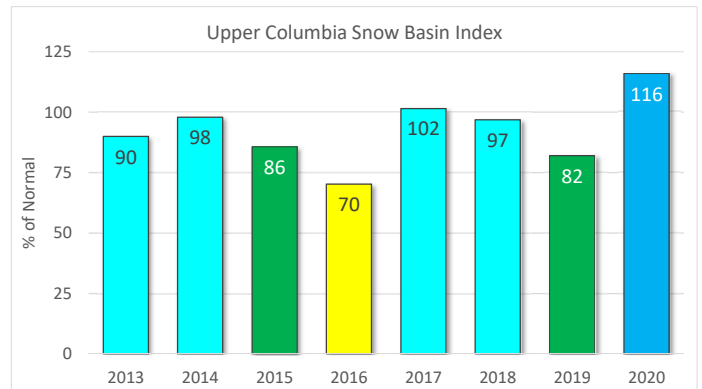
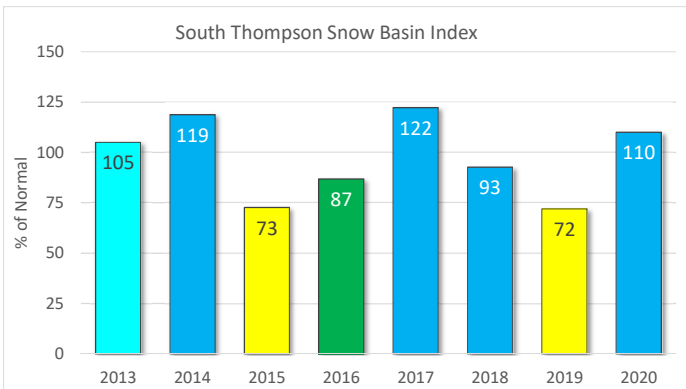
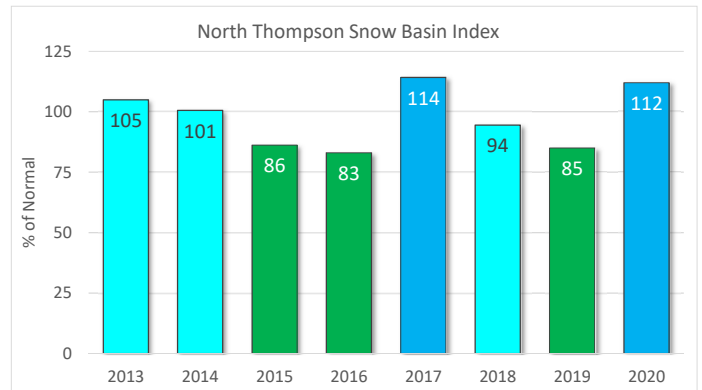
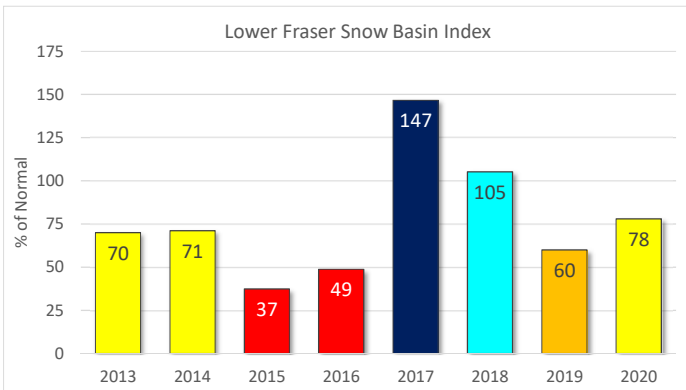
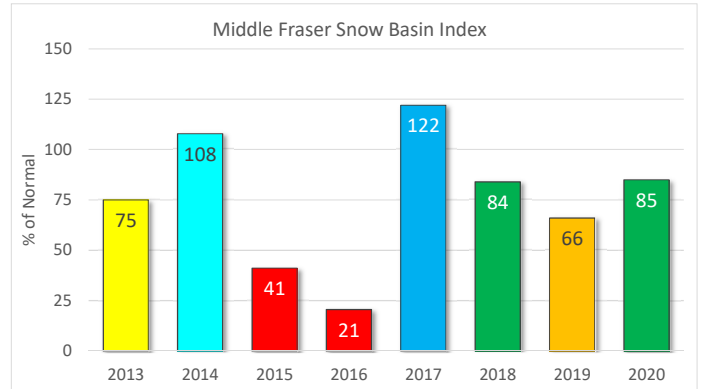
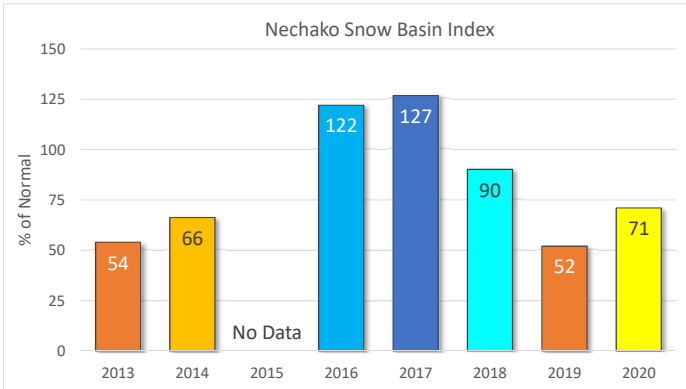
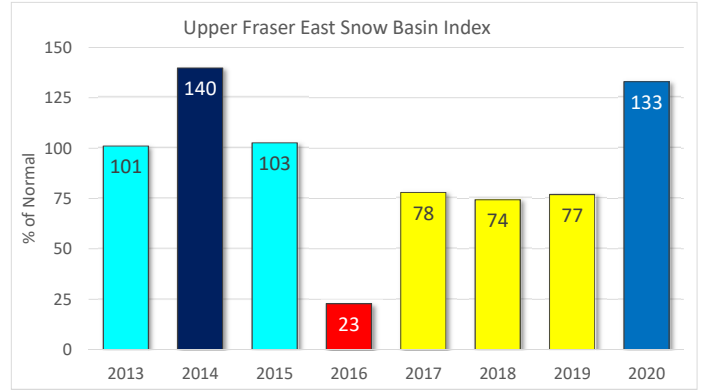
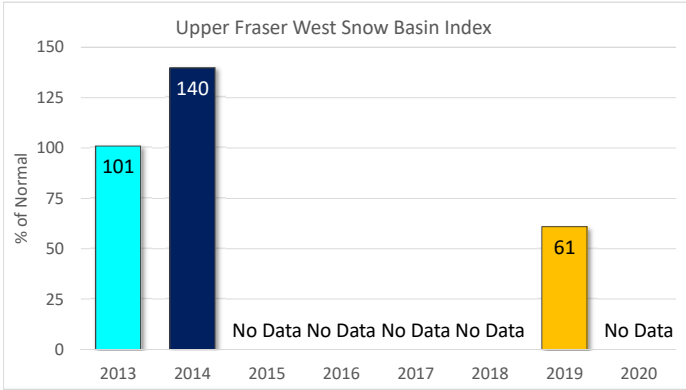
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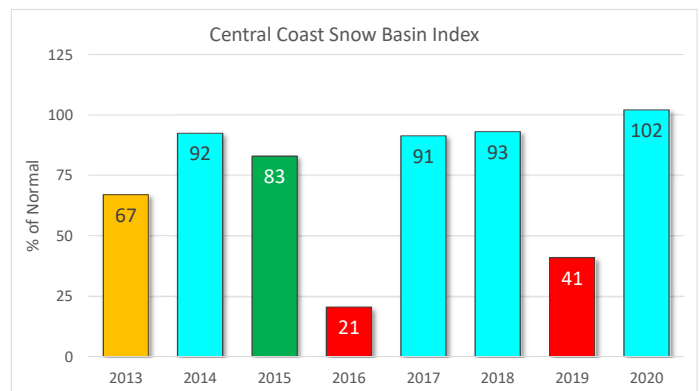
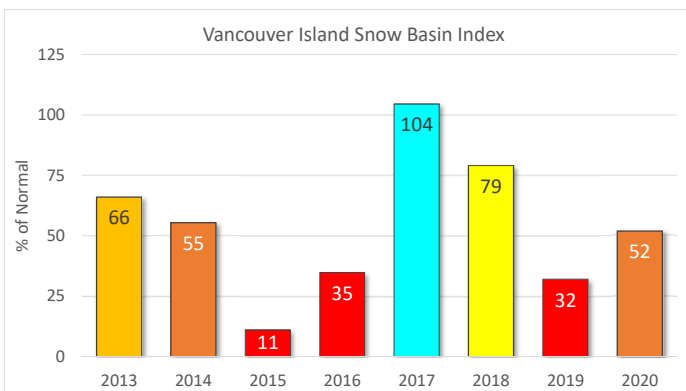
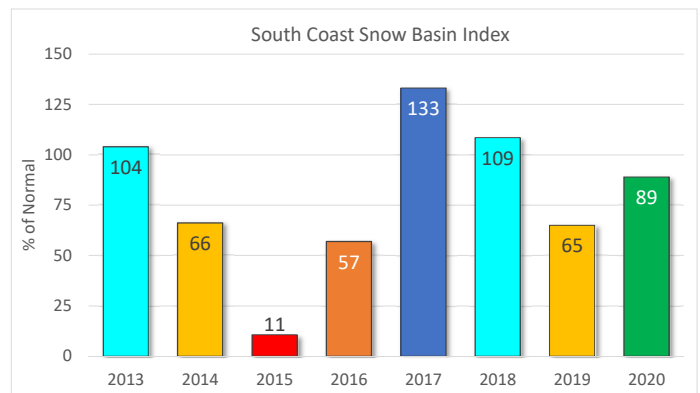
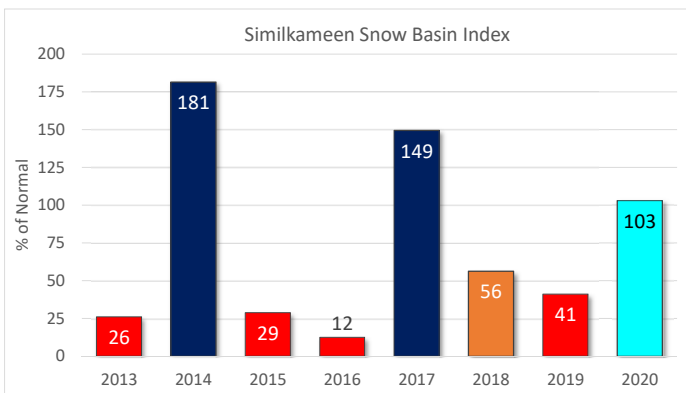
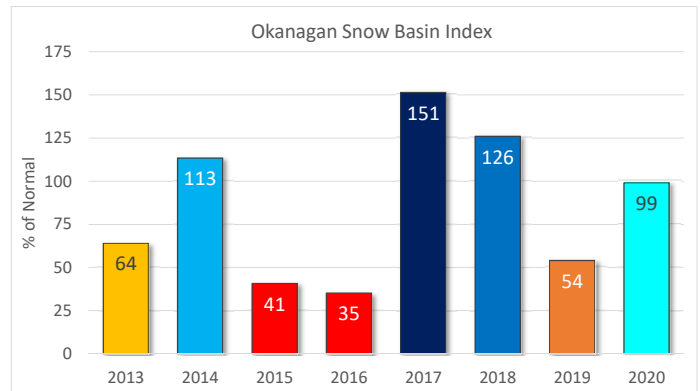
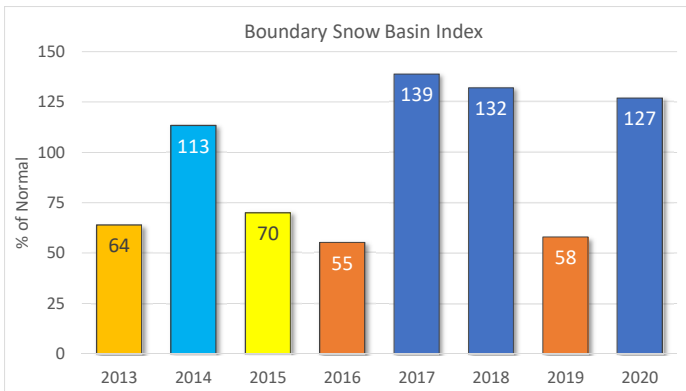
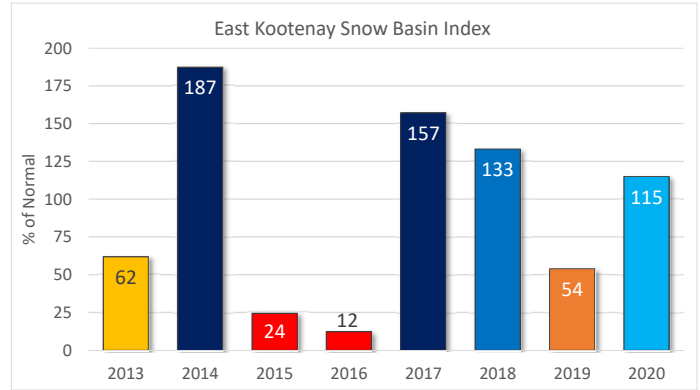
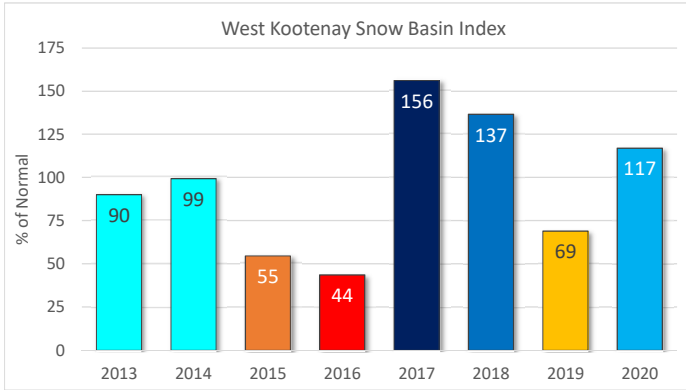
Figure 1: Basin Snow Water Index – May 15th, 2020



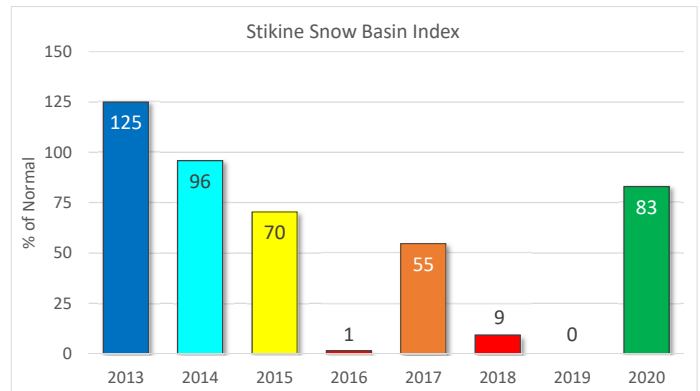
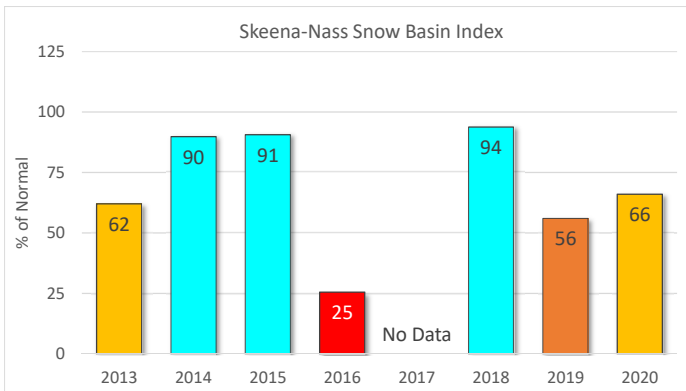
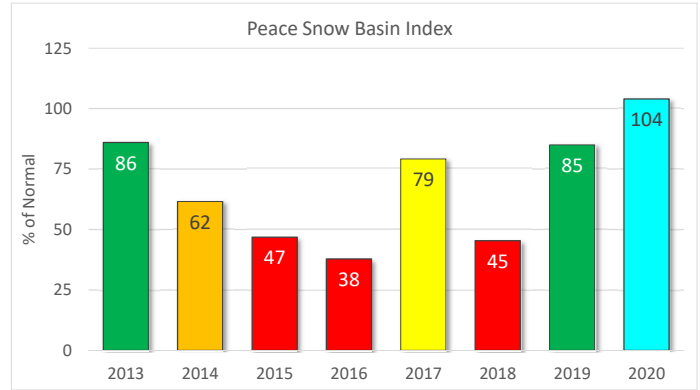
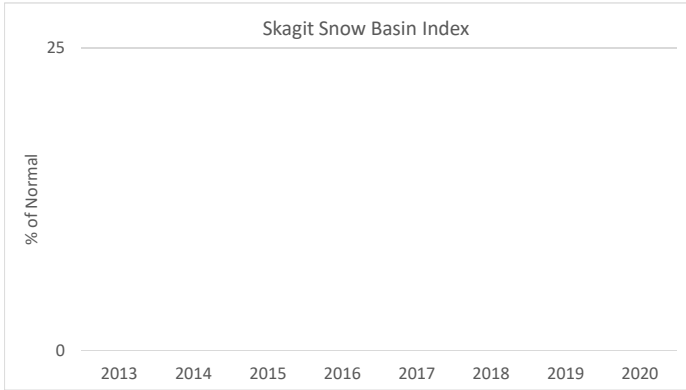
1. Every effort is made to ensure that data reported on these pages are accurate. However, in order to update the graphs and indices as quickly as possible, some data may have been estimated. Please note that data provided on these pages are preliminary and subject to revision upon review.



Snow Basin Index Graphs - May 15, 2020



Snow Basin Index Graphs - May 15, 2020



May 15, 2020 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1A01P	Yellowhead Lake	1860	2020-05-15	117	555	47		106%	53	N/A	632	143	506	839	522	21
1A02P	McBride Upper	1611	2020-05-15	104	488	47		121%	79	363	266	7	386	653	403	27
1A03P	Barkerville	1520	2020-05-15	52	230	44		108%	58	42	12	0	203	503	213	41
1A05	LONGWORTH (UPPER)	1693	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	292	768	1219	798	55
1A05P	Longworth Upper	1740	2020-05-15	246	1081	44		N/A	N/A	767	553	553	633	767	N/A	3
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		5
1A11	PACIFIC LAKE	755	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	387	728	339	36
1A14P	Hedrick Lake	1100	2020-05-15	181	945	52	E	125%	65	406	532	118	676	1303	754	20
1A15	KNUDSEN LAKE	1602	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	359	804	1271	836	35
1A15P	Knudsen Lake	1601	2020-05-15	223	665	30		N/A	N/A	440	454	173	447	455	N/A	4
1A17P	Revolution Creek	1690	2020-05-15	246	1280	52		179%	99	732	658	215	741	1300	716	31
1A19P	Dome Mountain	1774	2020-05-15	222	1064	48		129%	87	708	623	363	825	1219	828	14
			Average	174	788	46		128%	74							

Basin Index Calculation	Average SWE	760
	Average Normal	573
Upper Fraser East Basin Index - May 15, 2020		133%

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

UPPER FRASER WEST			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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	212		212	N/A	1
1A12P	Kaza Lake	1257	2020-05-15	49	187	38		N/A	N/A	130	N/A	130		174	N/A	2
1A16	BURNS LAKE	800	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	0	17
1A23	BIRD CREEK	1180	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
			Average	49	187	38		N/A	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Upper Fraser West Basin Index - May 15, 2020		N/A

Stations used in Basin Index:
N/A

NECHAKO			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1B01	MOUNT WELLS	1490	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	164	396	869	280	3
1B01P	Mount Wells	1490						N/A	N/A	296	535	152	448	957	491	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	2020-05-15		927			72%	22	710	1001	662	1216	2356	1287	27
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	166	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	2020-05-15		440			70%	24	234	521	234	544	1200	628	24
			Average	N/A	684	N/A		71%	23							

Basin Index Calculation	Average SWE	684
	Average Normal	958
Nechako Basin Index - May 15, 2020		71%

Stations used in Basin Index:
1B02P, 1B08P

LOWER THOMPSON			May 15, 2020 Data					May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	SWE (mm)	
1C01	BROOKMERE	980	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	6	208	22	28	
1C06	PAVILION	1230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	0	6	
1C09A	HIGHLAND VALLEY	1510	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	30	3	25	
1C19	GNAWED MOUNTAIN	1580	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	157	23	22	
1C25	LAC LE JEUNE (UPPER)	1509	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	67	127	5	
1C29	SHOVELNOSE MOUNTAIN	1450	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0	
1C29P	Shovelnose Moutain	1460	2020-05-15	6	3	5		N/A	N/A	0	N/A	0		0	N/A	1	
1C32	DEADMAN RIVER	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0	
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0	
			Average	6	3	5		N/A	N/A								

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Lower Thompson Basin Index - May 15, 2020		N/A

Stations used in Basin Index:
N/A

BRIDGE / LILLOOET			May 15, 2020 Data					May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	SWE (mm)	
1C05	MCGILLIVRAY PASS	1725	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	184	479	965	455	20	
1C05P	McGillivray Pass	1718	2020-05-15		175			N/A	N/A	148	286	148	217	286	N/A	2	
1C12P	Green Mountain	1780	2020-05-15		395			49%	0	421	485	421	714	1369	803	26	
1C14	BRALORNE	1389	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	80	11	20	
1C14P	Bralorne	1382	2020-05-15		1			N/A	N/A	0	0	0		0	N/A	2	
1C18P	Mission Ridge	1850	2020-05-15		258			77%	33	50	318	0	362	973	336	43	
1C28	DUFFEY LAKE	1200	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0	
1C37	BRALORNE(UPPER)	1981	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0	
1C38	DOWNTON LAKE (UPPER)	1887	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0	
1C38P	Downton Lake Upper	1829	2020-05-15		523			N/A	N/A	636	519	519	668	810	N/A	4	
1C39	BRIDGE GLACIER (LOWER)	1390	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0	
1C40	TYAUGHTON CREEK (NORTH)	1947	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0	
1C40P	North Tyaughton	1969	2020-05-15		181			N/A	N/A	204	229	0	217	335	N/A	4	
			Average	N/A	256	N/A	N/A	63%	17								

Basin Index Calculation	Average SWE	327
	Average Normal	570
Bridge/Lillooet Basin Index - May 15, 2020		57%

Stations used in Basin Index:
1C12P, 1C18P

CHILCOTIN			May 15, 2020 Data					May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	SWE (mm)	
1C08	NAZKO	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
1C21	BIG CREEK	1140	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
1C22	PUNTZI MOUNTAIN	940	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 - May 15, 2020		N/A

Stations used in Basin Index:
N/A

QUESNEL			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 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	2020-05-15	26	102	39	NS	56%	N/A	78	273	0	211	466	181	45
1C20P	Boss Mountain Mine	1460	2020-05-15	49	247	50		54%	20	284	342	147	399	746	455	26
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	585	1049	1400	1022	44
1C33A	GRANITE MOUNTAIN	1150	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C41P	Yanks Peak East	1670	2020-05-15	180	1158	64		150%	98	838	784	386	838	1188	774	23
			Average	85	502	51		87%	59							

Basin Index Calculation	Average SWE	502
	Average Normal	470
Quesnel Basin Index - May 15, 2020		107%

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

MIDDLE FRASER

Basin Index Calculation	Average SWE	432
	Average Normal	510
Middle River Basin Index - May 15, 2020		85%

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

LOWER FRASER			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1D06P	Tenquille Lake	1680	2020-05-15	150	701	47		72%	29	631	908	468	908	1686	973	19
1D08	STAVE LAKE	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	2438		2438	N/A	1
1D09	WAHLEACH LAKE	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	102	451	656	428	9
1D09P	Wahleach Lake Upper	1480	2020-05-15		819			82%	31	506	956	299	963	1793	1001	26
1D10	NAHATLATCH RIVER	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	1202	1348	2423	1467	3
1D16	DICKSON LAKE	1160	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1D17P	Chilliwack River	1600	2020-05-15	262	1476	56		106%	44	1039	1590	379	1609	2540	1398	27
1D18P	Disappointment Lake	1050	2020-05-15	192	759	40		58%	20	428	1366	76	1396	2370	1300	11
1D19P	Spuzzum Creek	1180	2020-05-15	168	1057	63		69%	35	750	1358	0	1523	2900	1533	21
			Average	193	962	51		77%	32							

Basin Index Calculation	Average SWE	962
	Average Normal	1241
Lower Fraser Basin Index - May 15, 2020		78%

Stations used in Basin Index:
1D06P, 1D09P, 1D17P, 1D18P, 1D19P

NORTH THOMPSON			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1E01B	BLUE RIVER	670	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	78	0	10
1E02P	Mount Cook	1550	2020-05-15	259	1509	58		113%	77	1205	1316	863	1292	2069	1334	16
1E03A	TROPY MOUNTAIN	1860	2020-05-13	176	780	44		126%	86	496	590	301	637	1114	618	37
1E07	ADAMS RIVER	1720	2020-05-11	174	832	48		121%	73	602	705	280	715	1158	690	48
1E08P	Azure River	1652	2020-05-15	208	1215	58		105%	55	882	1088	739	1189	1684	1152	23
1E10P	Kostal Lake	1770	2020-05-15	152	765	50	E	88%	29	766	845	568	879	1358	870	35
1E14P	Cook Creek	1280	2020-05-15	33	323	98		178%	80	0	N/A	0	243	401	181	11
			Average	167	904	60		122%	67							

Basin Index Calculation	Average SWE	904
	Average Normal	808
North Thompson Basin Index - May 15, 2020		112%

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

SOUTH THOMPSON			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										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	NS	NS	0	0	28	14	11
1F02	ANGLEMONT	1190	NS	NS	NS	NS		N/A	N/A	NS	NS	0	147	361	99	21
1F03P	Park Mountain	1890	2020-05-15	177	1067	60		115%	69	604	1101	474	941	1341	929	35
1F04P	Enderby	1950	2020-05-15	249	1353	54		N/A	N/A	704	1169	704	1169	1216	N/A	3
1F06P	Celista Mountain	1500	2020-05-15	161	883	55		105%	50	728	884	476	884	1155	841	13
			Average	196	1101	56		110%	60							

Basin Index Calculation	Average SWE	975
	Average Normal	885
South Thompson Basin Index - May 15, 2020		110%

Stations used in Basin Index:
1F03P, 1F06P

FRASER RIVER

Basin Index Calculation	Average SWE	780
	Average Normal	797
Fraser River Basin Index - May 15, 2020		98%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A14P, 1A17P, 1A19P, 1B02P, 1B08P, 1C12P, 1C18P, 1C17, 1C20P, 1C41P, 1D06P, 1D09P, 1D17P, 1D18P, 1D19P, 1E02P, 1E03A, 1E07, 1E08P, 1E10P, 1E14P, 1F03P, 1F06P

UPPER COLUMBIA			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2A02	GLACIER	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	114	493	1034	498	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	2020-05-15		1287			104%	63	959	1207	700	1151	1786	1235	26
2A07	KICKING HORSE	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	229	521	229	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	1319	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	1271	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	2020-05-15		954			N/A	N/A	721	849	548	774	1204	N/A	5
2A19	VERMONT CREEK	1520	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	225	519	813	N/A	2
2A21P	Molson Creek	1935	2020-05-15		1198			110%	82	935	1041	602	1041	1707	1085	37
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	297	8
2A29	DOWNIE SLIDE (UPPER)	1630	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	582	1245	1334	1284	8
2A30P	Colpitt Creek	2131	2020-05-15		1017			147%	99	637	872	99	529	1023	690	10
2A31P	Caribou Creek Upper	2201	2020-05-15		1087			N/A	N/A	757	1033	656	788	1087	N/A	5
2A32P	Wildcat Creek	2122	2020-05-15		833			N/A	N/A	635	604	346	604	700	N/A	5
			Average	N/A	1063	N/A		121%	81							

Basin Index Calculation	Average SWE	1167
	Average Normal	1003
Upper Columbia Basin Index - May 15, 2020		116%

Stations used in Basin Index:
2A06P, 2A21P, 2A30P

WEST KOOTENAY			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2B02A	FARRON	1220	2020-05-12	9	36	40		57%	54	7	154	0	30	222	63	40
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	2020-05-15	521				119%	55	31	538	31	495	758	438	27
2B07	KOCH CREEK	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	675		1148	N/A	2
2B08P	St. Leon Creek	1800	2020-05-15	1499				149%	97	837	1297	639	1025	1572	1004	26
2B09	RECORD MOUNTAIN	1890	2020-05-16	95	443	47	NS	69%	33	76	660	76	586	1367	645	45
2D02	FERGUSON	880	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	20	234	640	302	37
2D03	SANDON	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	218	0	8
2D04	NELSON	930	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	8	243	46	41
2D05	GRAY CREEK (LOWER)	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	408	709	330	49
2D06	CHAR CREEK	1310	NS	NS	NS	NS	NS	N/A	N/A	N	N	0	252	715	272	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	2020-05-15	0	0			N/A	N/A	N/A	N/A				N/A	0
2D08P	East Creek	2030	2020-05-15	1113				127%	84	914	923	461	912	1387	874	37
2D09	MOUNT TEMPLEMAN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	978		978	N/A	1
2D10	GRAY CREEK (UPPER)	1940	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	311	726	1194	709	30
2D14P	Redfish Creek	2104	2020-05-15	273	1477	54		113%	58	1117	1510	972	1364	2206	1309	18
			Average	94	727	47		106%	64							

Basin Index Calculation	Average SWE	848
	Average Normal	722
West Kootenay Basin Index - May 15, 2020		117%

2B02A, 2B06P, 2B08P, 2B09, 2D08P, 2D14P

EAST KOOTENAY			May 15, 2020 Data					May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
2C01	SINCLAIR PASS	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	107	0	22
2C04	SULLIVAN MINE	1550	2020-05-16	0	0	N/A	T	0%	0	0	220	0	112	457	80	67
2C09Q	Morrissey Ridge	1860	2020-05-15		569			118%	55	41	388	0	486	1114	484	35
2C10P	Moyie Mountain	1930	2020-05-15	60	351	59		156%	75	0	158	0	217	596	225	39
2C14P	Floe Lake	2090	2020-05-15		846			113%	57	568	811	326	811	1084	752	25
2C15	MOUNT ASSINIBOINE	2230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	534		534	534	1
2C16	MOUNT JOFFRE	1750	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	338		338	338	1
2C17	THUNDER CREEK	2010	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	220		220	220	1
			Average	30	442	59		97%	47							

Basin Index Calculation	Average SWE	442
	Average Normal	385
East Kootenay Basin Index - May 15, 2020		115%

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

BOUNDARY			May 15, 2020 Data					May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
2E01	MONASHEE PASS	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	207	363	206	27
2E02	CARMI	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	0	14
2E03	BIG WHITE MOUNTAIN	1680	2020-05-12	100	403	40		110%	46	166	444	0	421	732	366	53
2E07P	Grano Creek	1860	2020-05-15	127	725	57		139%	84	335		313	547	855	520	22
			Average	114	564	49		125%	65							

Basin Index Calculation	Average SWE	564
	Average Normal	443
Boundary Basin Index - May 15, 2020		127%

Stations used in Basin Index:
2E03, 2E07P

OKANAGAN			May 15, 2020 Data					May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
2F01A	TROUT CREEK (West)	1430	2020-05-14	0	0	N/A	T	0%	0	0	30	0	40	243	58	10
2F01AP	Trout Creek West	1420	2020-05-15	11	1	1		N/A	N/A	0	0	0		0	N/A	2

2F02	SUMMERLAND RESERVOIR	1280	2020-05-13	0	0	N/A	0%	N/A	N	0	0	0	218	13	51
2F03	MCCULLOCH	1280	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	102	0	37
2F04	GRAYSTOKE LAKE	1840	NS	NS	NS	NS	N/A	N/A	NS	432	0	420	742	360	18
2F05P	Mission Creek	1780	2020-05-15	137	676	49	175%	94	298	629	0	418	855	386	49
2F07	POSTILL LAKE	1370	NS	NS	NS	NS	N/A	N/A	NS	NS	71	130	180	143	7
2F08	GREYBACK RESERVOIR	1550	NS	NS	NS	NS	N/A	N/A	NS	NS	0	60	323	79	45
2F08P	Greyback Reservoir	1550	2020-05-15	0	0	N/A	N/A	N/A	52	269	52	266	269	N/A	3
2F09	WHITEROCKS MOUNTAIN	1830	N	N	N	N	N/A	N/A	261	415	0	375	968	357	49
2F10	Silver Star Mountain	1840	NS	NS	NS	NS	N/A	N/A	NS	NS	100	685	1054	665	57
2F10P	Silver Star Mountain	1839	2020-05-15	146	817	56	N/A	N/A	721	823	721	788	823	N/A	3
2F11	ISINTOK LAKE	1680	2020-05-14	0	0	N/A	0%	0	0	0	0	33	386	46	53
2F12	MOUNT KOBAN	1810	2020-05-14	28	100	36	40%	24	12	490	0	248	516	253	54
2F13	ESPERON CR (UPPER)	1650	NS	NS	NS	NS	N/A	N/A	NS	284	66	310	625	306	13
2F14	ESPERON CR (MIDDLE)	1430	NS	NS	NS	NS	N/A	N/A	NS	172	0	128	380	164	15
2F18P	Brenda Mine	1460	2020-05-15	0	0	N/A	0%	N/A	0	0	0	0	208	20	24
2F19	OYAMA LAKE	1340	NS	NS	NS	NS	N/A	N/A	NS	NS	97	97	N/A	N/A	1
2F20	VASEUX CREEK	1400	2020-05-15	0	0	N/A	0%	0	0	0	0	0	80	7	46
2F21	BOULEAU LAKE	1400	NS	NS	NS	NS	N/A	N/A	NS	NS	173	224	328	N/A	3
2F23	MACDONALD LAKE	1740	NS	NS	NS	NS	N/A	N/A	NS	368	0	368	652	334	21
2F24	ISLAHT LAKE	1480	NS	NS	NS	NS	N/A	N/A	0	NS	0	157	352	221	9
2F25	POSTILL LAKE UPPER	1540	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	N/A	0
			Average	36	159	35	31%	24							

Basin Index Calculation	Average SWE	111
	Average Normal	112
Okanagan Basin Index - May 15, 2020		99%

Stations used in Basin Index:
2F01A, 2F02, 2F05P, 2F11, 2F12, 2F18P, 2F20

SIMILKAMEEN			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
2G03P	Blackwall Peak	1940	2020-05-15	148	704	48		105%	54	331	776	188	675	1481	671	52
2G04	LOST HORSE MOUNTAIN	1920	2020-05-13	75	303	40		179%	87	N	N	0	206	577	169	50
2G05	MISSEZULA MOUNTAIN	1550	2020-05-13	0	0	N/A		0%	N/A	0	0	0	0	218	32	56
2G06	HAMILTON HILL	1490	2020-05-12	0	0	N/A		0%	0	0	120	0	112	434	110	40
			Average	56	252	44		71%	47							

Basin Index Calculation	Average SWE	252
	Average Normal	246
Similkameen Basin Index - May 15, 2020		103%

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

SOUTH COAST			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
3A01	GROUSE MOUNTAIN	1100	2020-05-11	239	1150	48	NS	N/A	N/A	NS	NS	528	1450	1714	N/A	3
3A02	POWELL RIVER (UPPER)	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	816	816	816	N/A	1
3A05	POWELL RIVER (LOWER)	910	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	378	378	378	N/A	1
3A09	PALISADE LAKE	880	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	336	1349	3600	1968	4
3A09P	Palisade Lake	900	2020-05-15	50	209	42		N/A	N/A	0	99	0	50	99	N/A	2
3A10	DOG MOUNTAIN	1080	2020-05-14	163	850	52		82%	45	471	1220	0	960	2920	1041	33
3A19	ORCHID LAKE	1190	N	N	N	N	N	N/A	N/A	1030	1780	0	1656	3730	1729	36
3A20	CALLAGHAN CREEK	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	55	336	1311	444	16
3A20P	Callaghan	1017	2020-05-15	288	288			N/A	N/A	290	N/A	290	290	290	N/A	1
3A22P	Nostetuko River	1500	2020-05-15	70	391	56		110%	61	256	374	0	351	943	355	28
3A24P	Mosley Creek Upper	1650	2020-05-15	9	25	28		17%	27	2	112	0	112	454	149	31
3A25P	Squamish River Upper	1340	2020-05-15	232	1430	62		96%	52	1312	1567	474	1384	2980	1486	27
3A26	CHAPMAN CREEK	1022	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	1450	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						N/A	N/A	934	1425	934		1425	N/A	2
Average			127	620	48			76%	46							

Basin Index Calculation	Average SWE	674
	Average Normal	758
South Coast Basin Index - May 15, 2020		89%

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

VANCOUVER ISLAND			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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	1874	2631	1576	26
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	1731	7
3B17P	Wolf River Upper	1490	2020-05-15		704			57%	12	723	941	137	1024	2719	1229	31
3B18	WOLF RIVER (MIDDLE)	990	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	447	1148	481	13
3B19	WOLF RIVER (LOWER)	640	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	549	78	12
3B23P	Jump Creek	1160	2020-05-15	139	503	36		46%	29	29	892	0	873	3500	1097	24
3B24P	Heather Mountain Upper	1190	2020-05-15	274	1028	38		N/A	N/A	476	1589	476	1261	1859	N/A	4
3B26P	Mount Arrowsmith	1465	2020-05-15	125	642	51		N/A	N/A	449	965	449		965	N/A	2
Average				179	719	42		52%	21							

Basin Index Calculation	Average SWE	604
	Average Normal	1163
Vancouver Island Basin Index - May 15, 2020		52%

Stations used in Basin Index:
3B17P, 3B23P

CENTRAL COAST			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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	232		232	N/A	1
3C08P	Burnt Bridge Creek	1330	2020-05-15	111	649	58		102%	71	261	378	130	544	1448	634	21
Average				111	649	58		102%	71							

Basin Index Calculation	Average SWE	649
	Average Normal	634
Central Coast Basin Index - May 15, 2020		102%

Stations used in Basin Index:
3C08P

SKAGIT			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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	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, 2020		N/A

Stations used in Basin Index:
N/A

PEACE			May 15, 2020 Data				May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4A02P	Pine Pass	1400	2020-05-15	251	1200	48		120%	76	945	814	740	1033	1664	999	27
4A03	WARE (UPPER)	1575	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	114		114	114	1

4A03P	Ware Upper	1565	2020-05-15	15	68	45		N/A	N/A	146	0	0	146	215	#N/A	3
4A04	WARE (LOWER)	970	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
4A04P	Ware Lower	971	2020-05-15	0	0	N/A		N/A	N/A	0	0	0	0	0	#N/A	3
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	2020-05-15	42	218	52		82%	47	180	24	4	271	561	267	29
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
4A13	PHILIP LAKE	1035	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	128		128	N/A	1
4A13P	Philip Lake	1028	2020-05-15	0	0	N/A		N/A	N/A	N/A	N/A				N/A	0
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	2020-05-15	240	1216	51		N/A	N/A	903	N/A	903		903	N/A	1
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	2020-05-15		524			N/A	N/A	438	N/A	438		438	N/A	1
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	2020-05-15	78	307	39		92%	46	251	88	88	316	468	334	28
4A30P	Aiken Lake	1050	2020-05-15	0	0	N/A		0%	N/A	0	0	0	8	203	55	32
4A31P	Crying Girl Prairie	1358	2020-05-15		0			N/A	N/A	10	0	0	4	224	N/A	5
4A33P	Muskwa-Kechika	1196	2020-05-15		0			N/A	N/A	0	0	0		0	N/A	2
4A34P	Dowling Creek	1456	2020-05-15		907			N/A	N/A	1457	628				N/A	
4A36P	Parsnip Upper	790	2020-05-15	41	8	2		N/A	N/A	0	N/A	0		0	N/A	1
			Average	74	342	40		73%	56							

Basin Index Calculation	Average SWE	431
	Average Normal	414
Peace Basin Index - May 15, 2020		104%

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

SKEENA-NASS			May 15, 2020 Data					May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010		
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %								Code	Normal SWE (mm)	Years of Record
4B01	KIDPRICE LAKE	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	534	906	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	2020-05-14	70	316	45		75%	28	279	398	108	421	822	424	46
4B04	CHAPMAN LAKE	1460	NS	NS	NS	NS	NS	N/A	N/A	NS	401	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	251	0	149	320	127	22
4B08	MOUNT CRONIN	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	592	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	2020-05-15	6	10	17		7%	19	21	125	0	120	495	144	22
4B16P	Shedin Creek	1480	2020-05-15	124	726	59		77%	40	557	461	253	844	1264	940	22
4B17P	Tsai Creek	1360	2020-05-15	151	949	63		74%	19	948	1010	666	1086	2146	1275	22
4B18P	Cedar-Kiteen	885	2020-05-15	23	100	43		24%	23	0	113	0	330	979	422	19
			Average	75	420	45		51%	26							

Basin Index Calculation	Average SWE	420
	Average Normal	641
Skeena-Nass Basin Index - May 15, 2020		66%

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

LIARD			May 15, 2020 Data					May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 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						N/A	N/A	181	0	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				N/A	N/A	N/A	N/A	N/A	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Liard Basin Index - May 15, 2020		N/A

Stations used in Basin Index:
N/A

STIKINE			May 15, 2020 Data					May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
4D02	ISKUT	1000	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	0	15
4D10P	Tumeka Creek	1220						N/A	N/A	254	163	163	412	771	436	20
4D11P	Kinaskan Lake	1020	2020-05-15	52	174	33		83%	44	0	0	0	198	540	210	24
Average				52	174	33		83%	44							

Basin Index Calculation	Average SWE	174
	Average Normal	210
Stikine Basin Index - May 15, 2020		83%

Stations used in Basin Index:
4D11P

NORTHWEST			May 15, 2020 Data					May 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 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, 2020		N/A

Stations used in Basin Index:
N/A

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	619
	Average Normal	636
British Columbia Basin Index - May 15, 2020		97%

Stations used in Basin Index:
All stations with measurements in British Columbia

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 June 1st snow survey is now complete. Data from 8 manual snow courses and 82 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 in May were primarily seasonal. Temperature anomalies were normal to slightly above normal for the month (0°C to +1.5°C). Precipitation was variable across the province. Most locations were near normal to wetter than normal. Areas that experienced wetter than normal conditions include Victoria, Cranbrook, Kamloops, Vernon, Prince George and Fort Nelson. Smithers was slightly drier than normal.

A strong high-pressure ridge dominated coastal British Columbia on the weekend of May 9th and 10th, with well above normal temperatures. In the final week of May, a moderate high-pressure ridge formed over the Interior and increased the rate of snowmelt. It was immediately followed by a heavy rain event (May 30th and 31st) for various parts of the Interior. This event led to flood conditions in areas of the Kootenay, Columbia, Boundary, Nicola and Similkameen.

Snowpack

Snow basin indices on June 1st, 2020 range from a low of 22% of normal on Vancouver Island to a high of 211% in the Boundary (Table 1 and Figure 1). Significant heat on May 9th and 10th along coastal B.C. resulted in major melt of the snow pack for coastal regions from Vancouver Island to the Skeena-Nass region. Seasonal temperatures in the Interior and multiple storm systems delayed significant snow melt and even contributed to days of minor snow accumulation at higher elevations in the Interior. Most coastal snow basin indices dropped relative to May 15th values, while some regions in the Interior increased relative to % of normal. The increase relative to normal is more indicative of delayed melt of the higher elevation snow pack. The overall average of province-wide measurements decreased from 97% of normal on May 15th to 93% of normal for June 1st.

By June 1st, on average, approximately half of the accumulated seasonal snow pack has melted. Most sites have melted at seasonal rates this year. However, higher elevation snow pack has experienced limited melt with several storms in May contributing to momentary increases in snow accumulation.

Snowmelt observations from automated snow weather stations over the past week (since June 1st) indicate continued seasonal melt.

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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Table 1 - BC Snow Basin Indices – June 1, 2020

Basin	% of Normal (May 15 th values)	Basin	% of Normal (May 15 th values)
Upper Fraser West	N/A (N/A)	Boundary	211 (127)
Upper Fraser East	142 (133)	Similkameen	106 (103)
Nechako	50 (71)	South Coast	73 (89)
Middle Fraser	69 (85)	Vancouver Island	22 (52)
Lower Fraser	73 (78)	Central Coast	78 (102)
North Thompson	110 (112)	Skagit	N/A (N/A)
South Thompson	111 (110)	Peace	97 (104)
Upper Columbia	133 (116)	Skeena-Nass	45 (66)
West Kootenay	128 (117)	Stikine	148 (83)
East Kootenay	104 (115)	Liard	N/A (N/A)
Okanagan	193 (99)	Northwest	N/A (N/A)
Fraser River (All)	90 (98)	British Columbia	93 (97)

The June 1st Snow Survey is comprised of fewer manual snow sampling sites than the May 15th and May 1st bulletin; specifically, 8 manual snow surveys were conducted for June 1st, compared to 17 manual snow surveys for May 15th and 108 surveys for May 1st. The June 1st Snow Bulletin is primarily composed of automated snow weather stations. Snow basin indices can be skewed higher in areas where higher elevation snowmelt has been delayed.

The highest snow basin indices (~200%) for June 1st are found in the Okanagan and Boundary. The relatively high numbers compared to normal are reflective of a delay of snowmelt at higher elevation automated snow weather stations; specifically, [Grano Creek](#) (2E07P) at 228% of normal and [Mission Creek](#) (2F05P) at 336% of normal. Also, many of the lower elevation snow surveys are not sampled for the June 1st period. Automated snow weather stations in the region below 1600m have been snow-free for several weeks.

Areas of high elevation that still have relatively high snow basin indices (125-145%) include the Upper Fraser East, Upper Columbia and West Kootenay. Slightly above normal snow

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pack for this time of year include the North Thompson, South Thompson, East Kootenay and Similkameen.

The overall snow basin index for the entire Fraser River basin (e.g. upstream of the Lower Mainland) is 90%. During freshet, most of the flow (roughly two-thirds) in the Fraser River originates from the Upper Fraser East, North Thompson, South Thompson and Cariboo Mountains. Snow pack in these areas is high (121% of normal). The snow pack in unregulated watersheds of the Fraser River upstream of Hope (e.g., excluding the Nechako and Bridge systems, which are regulated by dams) were among the highest on record earlier this year.

Streamflow

Most rivers in British Columbia flowed at normal or above normal throughout May. Many regions maintained very high streamflow relative to normal and were under High Streamflow Advisories for most of the month. Regions with rivers and creeks under lengthy advisories included: the Cariboo, North Thompson, Bonaparte, Okanagan, Nicola, Boundary, Shuswap, and Salmon River. May inflows into Okanagan Lake were 189% of normal.

A significant warm period near the end of the month, followed by heavy rain in the Interior, led to Flood Watches and Flood Warnings in several regions including the Bonaparte, the Salmon, the Okanagan, the Similkameen, the Nicola, the Boundary, the West Kootenay and East Kootenay.

The larger river systems in the Interior (Upper Fraser, Quesnel, North Thompson, South Thompson, Kootenay, Columbia) did not reach peak flows in May. They will likely reach peak flows in early to mid-June, or possibly later for higher elevation watersheds or if wetter weather in June occurs.

Outlook

Seasonal weather forecasts from Environment and Climate Change Canada indicate an increased likelihood of warmer than normal June-July-August temperatures for the west side of B.C., while there is an increased likelihood of cooler temperatures in Northeast B.C. Short-term weather forecasts indicate below seasonal temperatures and continued seasonal unsettled weather. There is no immediate agreement among weather models for additional heavy rainfall events.

Seasonal flood risk remains in many regions of the province. Areas currently under High Streamflow Advisory and Flood Watch (Middle Fraser, Upper Fraser East, Peace, Northeast, North Thompson, Bonaparte, Nicola, South Thompson, Okanagan, Salmon, Shuswap, Boundary, Upper Columbia, West Kootenay and East Kootenay) are vulnerable to short-term heavy rain events as river levels are relatively high. Some of these regions still have



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significant high elevation snow remaining, including the Upper Fraser East, North Thompson, Shuswap and South Thompson, the Cariboo Mountains, the West Kootenay, Mission Creek in the Okanagan and the Boundary region. The Lower Fraser River remains at minor risk of flooding due to the combined effects of snowmelt and rainfall. Other regions in the Interior may still be at risk for flooding if heavy rainfall occurs.

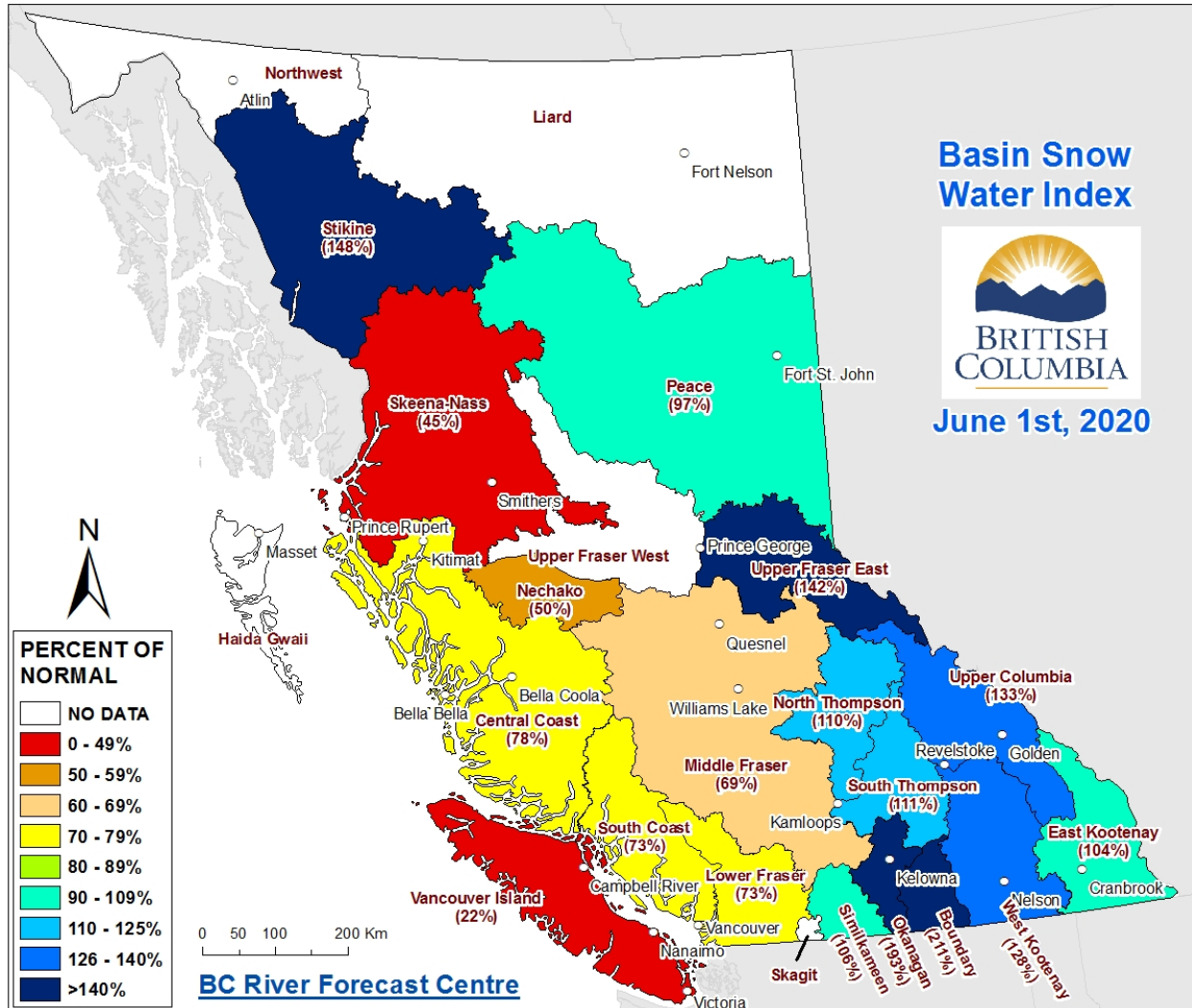
In recent years, hot temperatures in April & May have resulted in earlier than normal freshets. If cooler than normal or seasonal temperatures continue throughout June, the freshet period can continue into mid-July.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the June 15th, 2020 bulletin, which is scheduled for release on June 19th.

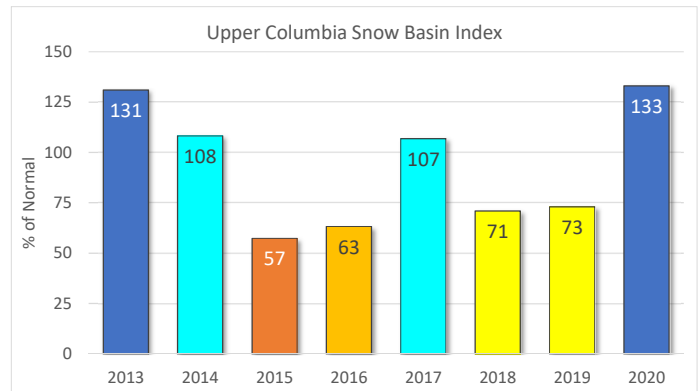
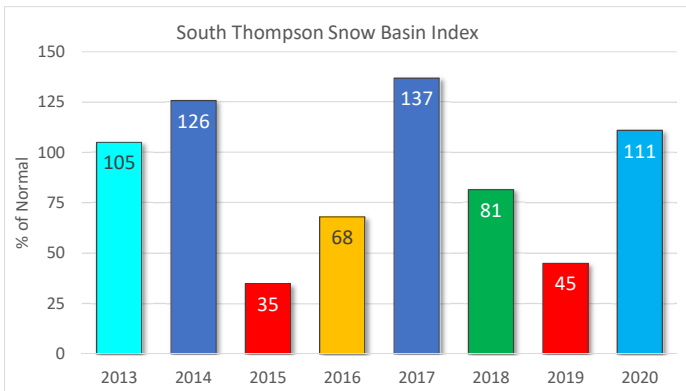
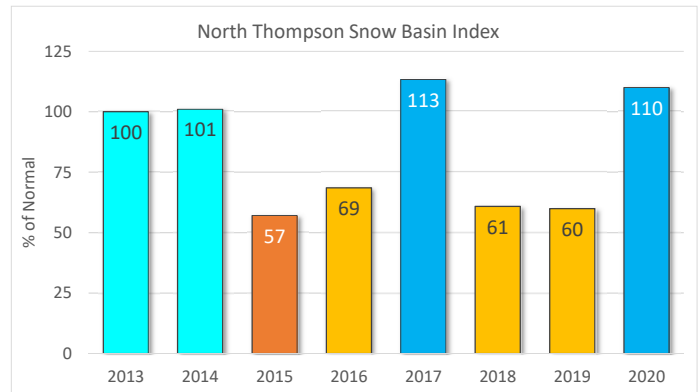
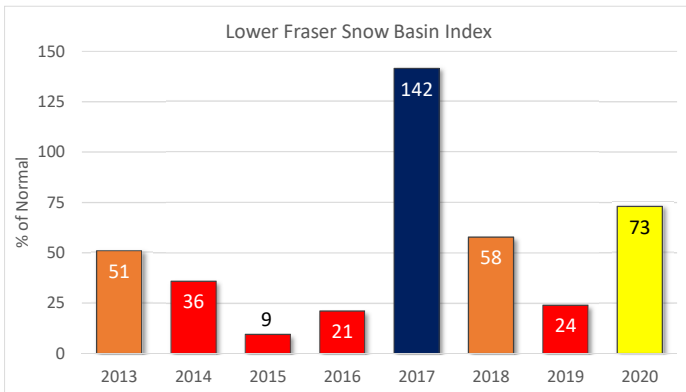
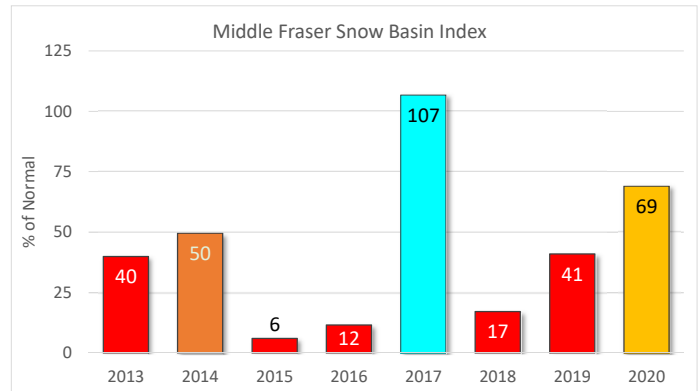
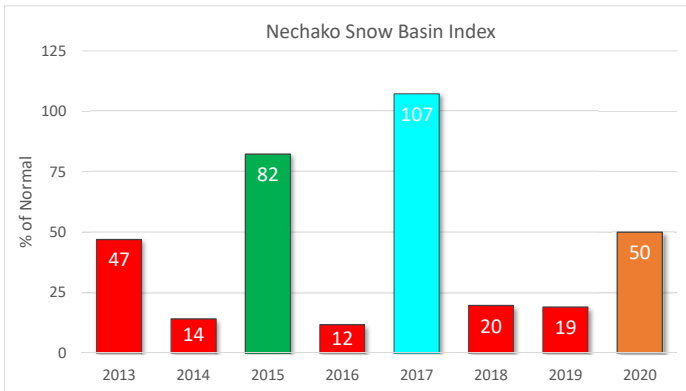
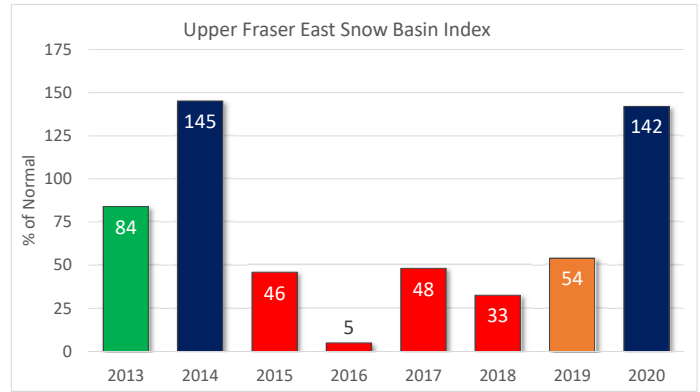
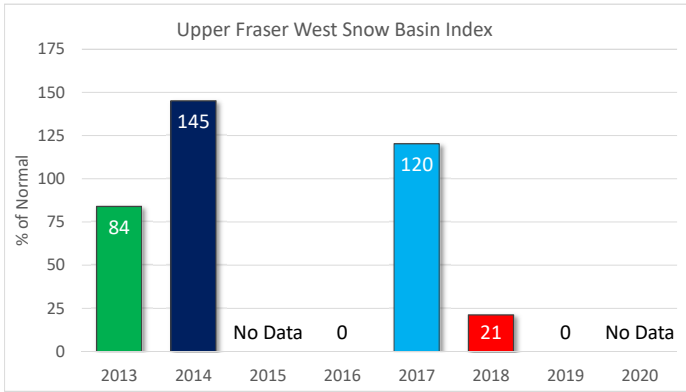
BC River Forecast Centre
June 8th, 2020

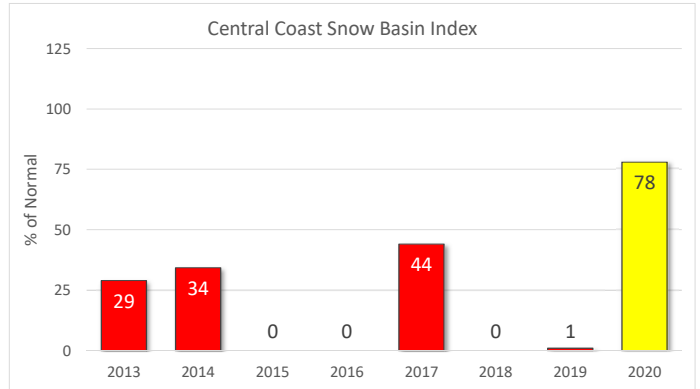
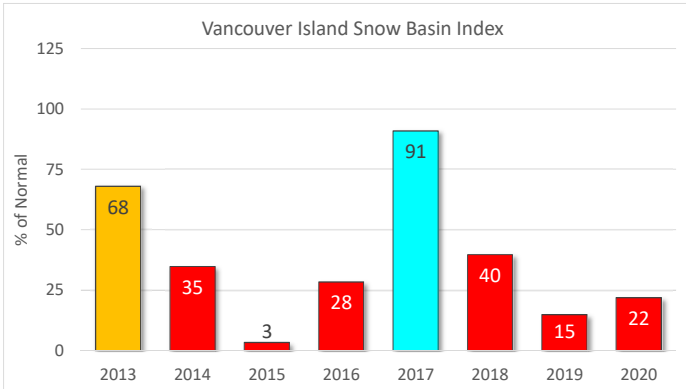
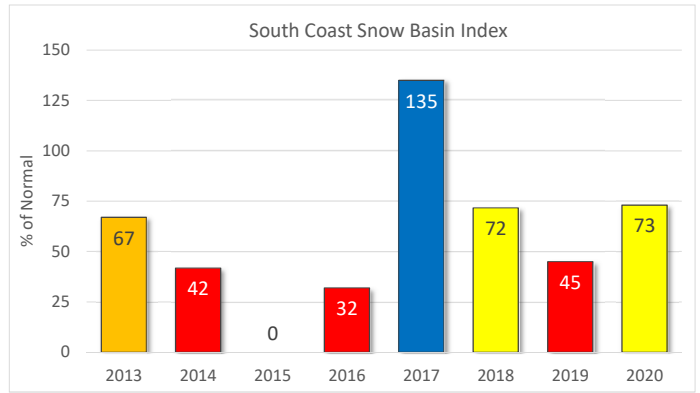
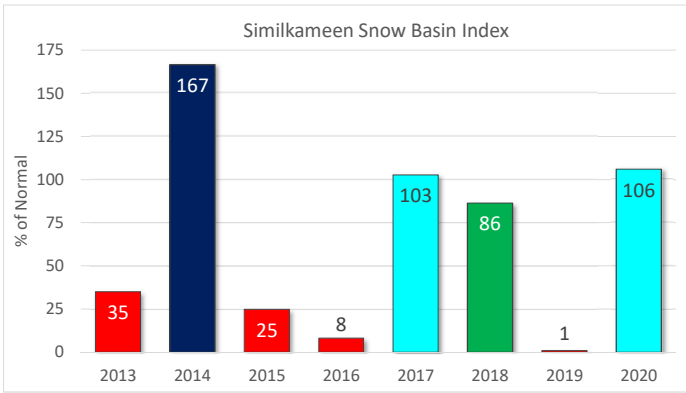
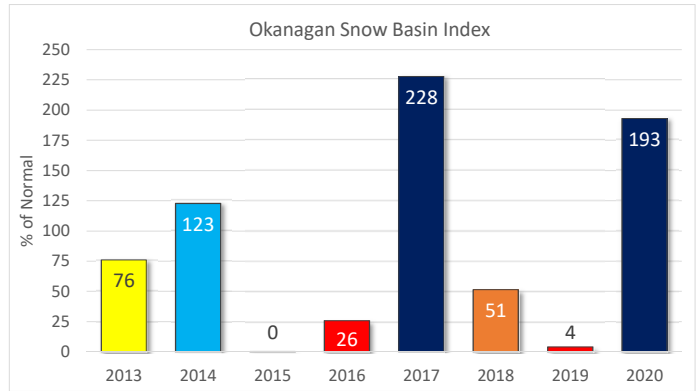
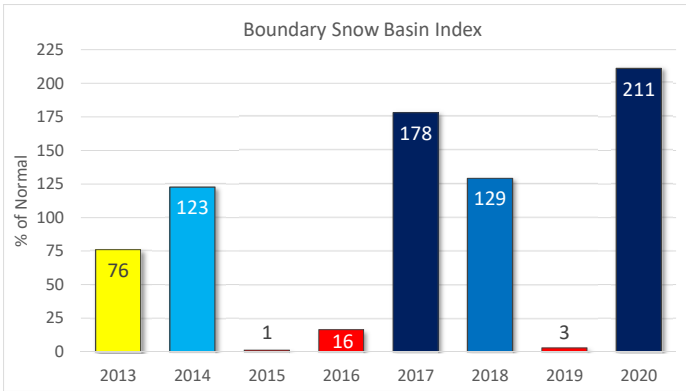
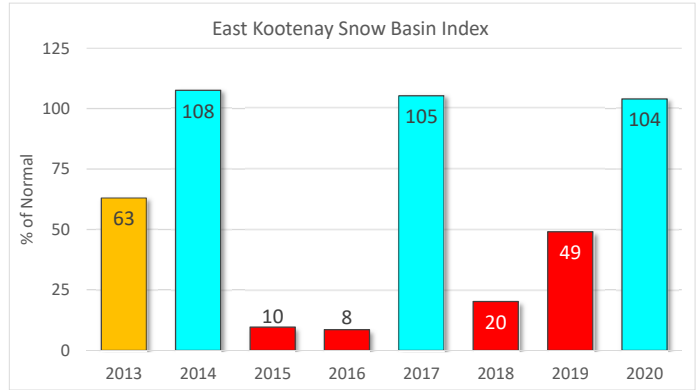
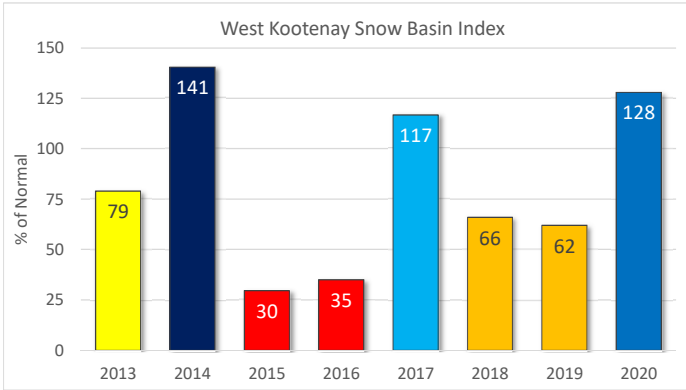
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Figure 1: Basin Snow Water Index – June 1st, 2020

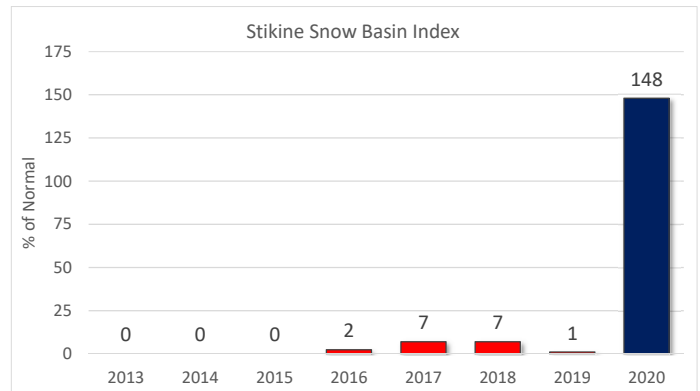
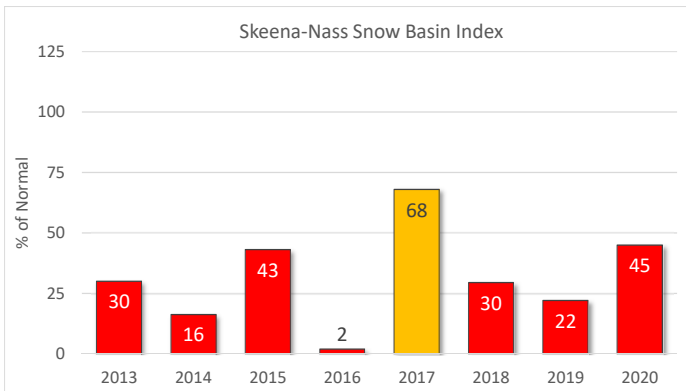
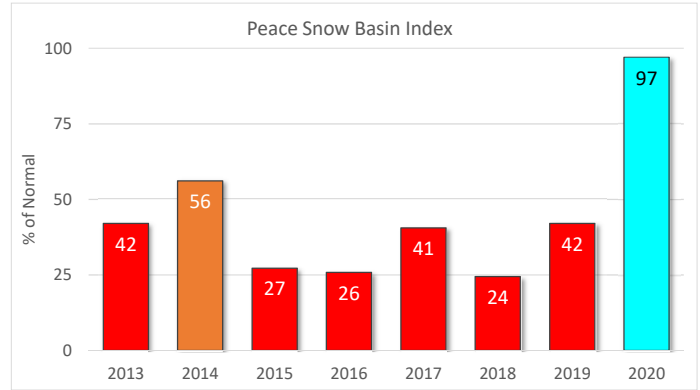
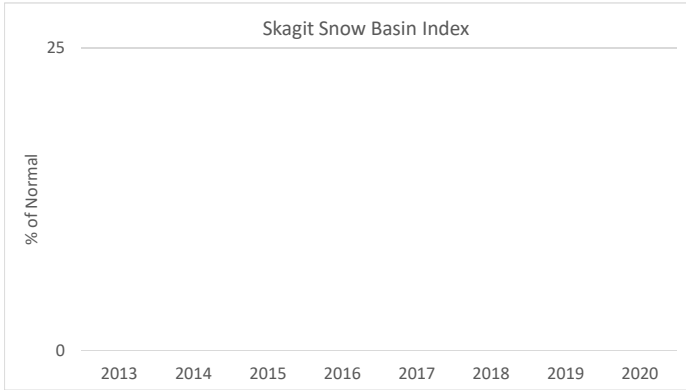


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Snow Basin Index Graphs - June 1, 2020



June 1, 2020 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			June 1, 2020 Data				June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1A01P	Yellowhead Lake	1860	2020-06-01	68	306	45		86%	45	N/A	N/A	0	361	843	354	20
1A02P	McBride Upper	1611	2020-06-01	34	161	47		104%	56	4	0	0	112	401	155	27
1A03P	Barkerville	1520	2020-06-01	1	2	20		4%		0	0	0	1	291	46	41
1A05	LONGWORTH (UPPER)	1693	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	668	1194	613	53
1A05P	Longworth Upper	1740	2020-06-01	168	760	45		N/A	N/A	425	149	149	371	425	N/A	3
1A06A	HANSARD	608	NS	NS	NS	NS	NS	N/A	N/A	0	NS	0	0	0	N/A	1
1A10	PRINCE GEORGE A	689	NS	NS	NS	NS	NS	N/A	N/A	0	NS	0	0	0	N/A	3
1A11	PACIFIC LAKE	755	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	462	96	35
1A14P	Hedrick Lake	1100	2020-06-01	113	538	48	E	147%	66	35	208	0	244	1020	365	19
1A15	KNUDSEN LAKE	1602	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	734	1113	652	35
1A15P	Knudsen Lake	1601	2020-06-01	159	492	31		N/A	N/A	123	267	9	181	267	N/A	4
1A17P	Revolution Creek	1690	2020-06-01	176	1002	57		210%	97	381	352	0	443	1117	478	30
1A19P	Dome Mountain	1774	2020-06-01	161	874	54		137%	82	440	384	283	522	1076	639	14
			Average	110	517	43		115%	69							

Basin Index Calculation	Average SWE	481
	Average Normal	340
Upper Fraser East Basin Index - June 1, 2020		142%

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

UPPER FRASER WEST			June 1, 2020 Data				June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 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	2020-06-01	0	0			N/A	N/A	0	0	0	0	0	N/A	4
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	N	N	N	N	N	N/A	N/A	0	0	0	0	0	N/A	23
			Average	0	0	N/A		N/A	N/A							

Basin Index Calculation	Average SWE	0
	Average Normal	#DIV/0!
Upper Fraser West Basin Index - June 1, 2020		N/A

Stations used in Basin Index:
N/A

NECHAKO			June 1, 2020 Data				June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
1B01	MOUNT WELLS	1490	N	N	N	N	N	N/A	N/A	0	46	0	205	529	217	42
1B01P	Mount Wells	1490						N/A	N/A	68	187	0	183	720	231	28
1B02	TAHTSA LAKE	1300	N	N	N	N	N	N/A	N/A	315	N	309	922	1828	N/A	43
1B02P	Tahtsa Lake	1300	2020-06-01		560			56%	22	205	620	205	842	2158	992	27
1B05	SKINS LAKE	890	N	N	N	N	N	N/A	N/A	0	0	0	0	0	N/A	25
1B06	MOUNT SWANNELL	1620	N	N	N	N	N	N/A	N/A	0	0	0	0	350	N/A	27
1B07	NUTLI LAKE	1490	N	N	N	N	N	N/A	N/A	0	0	0	93	618	N/A	28
1B08P	Mt. Pondosy	1400	2020-06-01		101			32%	32	0	95	0	252	929	320	23
			Average	N/A	331	N/A		44%	27							

Basin Index Calculation	Average SWE	331
	Average Normal	656
Nechako Basin Index - June 1, 2020		50%

Stations used in Basin Index:
1B02P, 1B08P

LOWER THOMPSON			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record	
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %										Code
1C01	BROOKMERE	980	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	N/A	5	
1C06	PAVILION	1230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C09A	HIGHLAND VALLEY	1510	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	N/A	8	
1C19	GNAWED MOUNTAIN	1580	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	N/A	2	
1C25	LAC LE JEUNE (UPPER)	1509	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C29	SHOVELNOSE MOUNTAIN	1450	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C29P	Shovelnose Moutain	1460	2020-06-01	5	2	4		N/A	N/A	0	N/A	0	0	N/A	0	
1C32	DEADMAN RIVER	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
Average				5	2	4		#DIV/0!	#DIV/0!							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Lower Thompson Basin Index - June 1, 2020		N/A

Stations used in Basin Index:
N/A

BRIDGE / LILLOOET			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record	
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %										Code
1C05	MCGILLIVRAY PASS	1725	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	280	757	264	22
1C05P	McGillivray Pass	1718	2020-06-01		0			N/A	N/A	0	0	0	0	0	N/A	2
1C12P	Green Mountain	1780	2020-06-01		37			7%	5	13	8	8	375	1186	537	26
1C14	BRALORNE	1389	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C14P	Bralorne	1382	2020-06-01	10	0	0		N/A	N/A	0	0	0	0	0	N/A	2
1C18P	Mission Ridge	1850	2020-06-01		0			0%		0	0	0	3	710	98	43
1C28	DUFFEY LAKE	1200	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C37	BRALORNE(UPPER)	1981	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C38	DOWNTON LAKE (UPPER)	1887	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C38P	Downton Lake Upper	1829	2020-06-01		277			N/A	N/A	302	278	278	452	655	N/A	4
1C39	BRIDGE GLACIER (LOWER)	1390	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C40	TYAUGHTON CREEK (NORTH)	1947	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C40P	North Tyaughton	1969	2020-06-01		1			N/A	N/A	0	0	0	0	0	N/A	4
Average				10	53	0		3%	5							

Basin Index Calculation	Average SWE	19
	Average Normal	318
Bridge/Lillooet Basin Index - June 1, 2020		6%

Stations used in Basin Index:
1C12P, 1C18P

CHILCOTIN			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record	
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %										Code
1C08	NAZKO	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C21	BIG CREEK	1140	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C22	PUNTZI MOUNTAIN	940	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, 2020		N/A

Stations used in Basin Index:
N/A

QUESNEL			June 1, 2020 Data				June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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	363		363	N/A	1
1C17	MOUNT TIMOTHY	1660	2020-05-28	8	32	40		62%	64	N	0	0	0	332	52	46
1C20P	Boss Mountain Mine	1460	2020-06-01		6			5%	30	0	0	0	70	401	126	26
1C23	PENFOLD CREEK	1685	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	353	844	1354	841	44
1C33A	GRANITE MOUNTAIN	1150	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1C41P	Yanks Peak East	1670	2020-06-01	111	809	73		170%	83	444	309	56	461	979	475	23
			Average	60	282	56		79%	59							

Basin Index Calculation	Average SWE	282
	Average Normal	218
Quesnel Basin Index - June 1, 2020		130%

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

MIDDLE FRASER

Basin Index Calculation	Average SWE	177
	Average Normal	258
Middle River Basin Index - June 1, 2020		69%

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

LOWER FRASER			June 1, 2020 Data				June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1D06P	Tenquille Lake	1680	2020-06-01	41	388	95		54%	27	122	496	122	548	1399	719	19
1D08	STAVE LAKE	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	635	1718	3150	N/A	6
1D09	WAHLEACH LAKE	1480	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	327	544	266	10
1D09P	Wahleach Lake Upper	1480	2020-06-01		570			79%	35	68	476	0	710	1525	720	26
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	2020-06-01	198	1161	59		107%	46	557	1105	0	1212	2208	1082	26
1D18P	Disappointment Lake	1050	2020-06-01	113	679	60		71%	31	51	1022	0	1032	2177	957	11
1D19P	Spuzzum Creek	1180	2020-06-01	97	652	67		52%	26	149	816	0	1248	2630	1248	21
			Average	112	690	70		73%	33							

Basin Index Calculation	Average SWE	690
	Average Normal	945
Lower Fraser Basin Index - June 1, 2020		73%

Stations used in Basin Index:
1D06P, 1D09P, 1D17P, 1D18P, 1D19P

NORTH THOMPSON			June 1, 2020 Data				June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
1E01B	BLUE RIVER	670	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	78	N/A	5
1E02P	Mount Cook	1550	2020-06-01	188	1200	64		112%	71	797	924	587	1061	2062	1071	16
1E03A	TROPHY MOUNTAIN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	935		935	N/A	1
1E07	ADAMS RIVER	1720	2020-05-28	120	638	53		118%	66	426	293	0	518	1155	540	50
1E08P	Azure River	1652	2020-06-01	141	918	65		102%	60	407	546	407	819	1729	902	22
1E10P	Kostal Lake	1770	2020-06-01	92	773	84		113%	66	386	417	155	640	1386	683	35
1E14P	Cook Creek	1280	2020-06-01		0		E	0%		0	N/A	0	0	195	8	11
			Average	135	706	67		89%	66							

Basin Index Calculation	Average SWE	706
	Average Normal	641
North Thompson Basin Index - June 1, 2020		110%

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

SOUTH THOMPSON			June 1, 2020 Data				June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
			Depth (cm)	SWE (mm)	Density %	Code									
1F01A	ABERDEEN LAKE	1310	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	1
1F02	ANGLEMONT	1190	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	61	8	11
1F03P	Park Mountain	1890	2020-06-01	125	869	70	117%	74	208	622	208	710	1260	740	35
1F04P	Enderby	1950	2020-06-01	205	853	42	N/A	N/A	455	777	455	777	1045	N/A	3
1F06P	Celista Mountain	1500	2020-06-01	87	503	58	102%	42	203	265	97	567	892	495	13
Average				139	742	56	110%	58							

Basin Index Calculation	Average SWE	686
	Average Normal	618
South Thompson Basin Index - June 1, 2020		111%

Stations used in Basin Index:
1F03P, 1F06P

FRASER RIVER

Basin Index Calculation	Average SWE	499
	Average Normal	555
Fraser River Basin Index - June 1, 2020		90%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A14P, 1A17P, 1A19P, 1B02P, 1B08P, 1C12P, 1C18P, 1C17, 1C20P, 1C41P, 1D06P, 1D09P, 1D17P, 1D18P, 1D19P, 1E02P, 1E07, 1E08P, 1E10P, 1E14P, 1F03P, 1F06P

UPPER COLUMBIA			June 1, 2020 Data				June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
			Depth (cm)	SWE (mm)	Density %	Code									
2A02	GLACIER	1250	NS	NS	NS	NS	N/A	N/A	NS	NS	0	282	737	263	46
2A03A	FIELD	1285	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	N/A	2
2A06P	Mount Revelstoke	1850	2020-06-01		1044		102%	62	676	843	240	849	2109	1025	26
2A07	KICKING HORSE	1650	NS	NS	NS	NS	N/A	N/A	NS	NS	0	31	226	66	33
2A11	BEAVERFOOT	1890	NS	NS	NS	NS	N/A	N/A	NS	NS	254		254	N/A	1
2A14	MOUNT ABBOT	2010	NS	NS	NS	NS	N/A	N/A	NS	NS	471	1266	1951	1162	36
2A16	GOLDSTREAM	1920	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A17	FIDELITY MOUNTAIN	1870	NS	NS	NS	NS	N/A	N/A	NS	NS	439	1095	2045	1121	35
2A18	KEYSTONE CREEK	1890	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A18P	Keystone Creek	1840	2020-06-01		708		N/A	N/A	425	480	391	431	914	N/A	5
2A19	VERMONT CREEK	1520	NS	NS	NS	NS	N/A	N/A	NS	NS	505		505	N/A	1
2A21P	Molson Creek	1935	2020-06-01		987		116%	78	678	505	98	857	1470	849	37
2A22	SUNBEAM LAKE	2010	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A23	BUSH RIVER	1920	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A25	KIRBYVILLE LAKE	1750	NS	NS	NS	NS	N/A	N/A	NS	NS	969		969	N/A	1
2A27	DOWNIE SLIDE (LOWER)	980	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	443	99	9
2A29	DOWNIE SLIDE (UPPER)	1630	NS	NS	NS	NS	N/A	N/A	NS	NS	0	984	1330	1130	8
2A30P	Colpitti Creek	2131	2020-06-01		804		305%	100	416	504	0	218	699	264	11
2A31P	Caribou Creek Upper	2201	2020-06-01		863		N/A	N/A	594	513	359	513	825	N/A	5
2A32P	Wildcat Creek	2122	2020-06-01		727		N/A	N/A	413	321	172	321	544	N/A	5
Average				N/A	856	N/A	174%	80							

Basin Index Calculation	Average SWE	945
	Average Normal	713
Upper Columbia Basin Index - June 1, 2020		133%

Stations used in Basin Index:
2A06P, 2A21P, 2A30P

WEST KOOTENAY			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)					SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)		
2B02A	FARRON	1220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	34	3	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	2020-06-01		165			105%	60	0	0	0	24	630	157	27
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	2020-06-01		1428			172%	96	521	864	225	775	1557	830	26
2B09	RECORD MOUNTAIN	1890	2020-05-30		40	205		53%	44	0	N	0	235	1073	384	42
2D02	FERGUSON	880	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	18	400	65	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	1	17
2D05	GRAY CREEK (LOWER)	1550	NS	NS	NS	NS	NS	N/A	N/A	9	89	0	194	551	148	65
2D06	CHAR CREEK	1310	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	15	362	82	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	2020-06-01		0	2		N/A	N/A							N/A
2D08P	East Creek	2030	2020-06-01		806			113%	66	580	434	111	694	1240	713	36
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	270	387	0	542	1120	470	47
2D14P	Redfish Creek	2104	2020-06-01		214	1515	71	134%	81	741	1183	741	1190	1804	1127	18
Average				85	687	71		116%	69							

Basin Index Calculation	Average SWE	824
	Average Normal	642
West Kootenay Basin Index - June 1, 2020		128%

Stations used in Basin Index:
2B06P, 2B08P, 2B09, 2D08P, 2D14P

EAST KOOTENAY			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
			YYYY-MM-DD	Depth (cm)	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	0	14
2C04	SULLIVAN MINE	1550	2020-06-02		0	0		0%		0	0	0	0	137	6	37
2C09Q	Morrissey Ridge	1860	2020-06-01		82			48%	60	0	0	0	23	878	171	35
2C10P	Moyie Mountain	1930	2020-06-01		0			0%		0	0	0	0	475	30	40
2C14P	Floe Lake	2090	2020-06-01		722			128%	75	357	445	94	566	971	565	25
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				0	201	N/A		44%	68							

Basin Index Calculation	Average SWE	201
	Average Normal	193
East Kootenay Basin Index - June 1, 2020		104%

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

BOUNDARY			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
			YYYY-MM-DD	Depth (cm)	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	8	221	62	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	2020-05-26		66	268	41	177%	67	0	115	0	126	658	151	53
2E07P	Grano Creek	1860	2020-06-01		88	655	74	228%	93	8	451	0	329	769	287	22
Average				77	462	58		203%	80							

Basin Index Calculation	Average SWE	462
	Average Normal	219
Boundary Basin Index - June 1, 2020		211%

Stations used in Basin Index:
2E03, 2E07P

OKANAGAN			June 1, 2020 Data				June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010	
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %								Code	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	2020-06-01	0	0			N/A	N/A	0	0	0	0	N/A	2
2F02	SUMMERLAND RESERVOIR	1280	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	25	0
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	194	0	214	584	236
2F05P	Mission Creek	1780	2020-06-01	104	564	54		336%	95	6	259	0	218	621	168
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	11
2F08P	Greyback Reservoir	1550	2020-06-01	0	0			N/A	N/A	0	0	0	0	N/A	3
2F09	WHITEROCKS MOUNTAIN	1830	N	N	N	N	N	N/A	N/A	0	0	0	71	848	128
2F10	Silver Star Mountain	1840	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	447	980	460
2F10P	Silver Star Mountain	1839	2020-06-01	102	928	91		N/A	N/A	191	460	191	460	937	N/A
2F11	ISINTOK LAKE	1680	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	211	1
2F12	MOUNT KOBAN	1810	2020-05-27	0	0	N/A		0%	0	0	0	0	41	488	121
2F13	ESPERON CR (UPPER)	1650	NS	NS	NS	NS	NS	N/A	N/A	0	0	0	144	490	173
2F14	ESPERON CR (MIDDLE)	1430	NS	NS	NS	NS	NS	N/A	N/A	0	0	0	0	127	27
2F18P	Brenda Mine	1460	2020-06-01	0				0%		0	0	0	0	9	3
2F19	OYAMA LAKE	1340	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		391	N/A
2F20	VASEUX CREEK	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	8
2F21	BOULEAU LAKE	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	112	N/A
2F23	MACDONALD LAKE	1740	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	131	428	172
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				41	249	73		112%	48						

Basin Index Calculation	Average SWE	188
	Average Normal	97
Okanagan Basin Index - June 1, 2020		193%

Stations used in Basin Index:
2F05P, 2F12, 2F18P

SIMILKAMEEN			June 1, 2020 Data				June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010	
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %								Code	Normal SWE (mm)
2G03P	Blackwall Peak	1940	2020-06-01	83	427	51		106%	53	3	348	0	406	1253	403
2G04	LOST HORSE MOUNTAIN	1920	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	104	330	106
2G05	MISSEZULA MOUNTAIN	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	18
2G06	HAMILTON HILL	1490	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	401	2
Average				83	427	51		106%	53						

Basin Index Calculation	Average SWE	427
	Average Normal	403
Similkameen Basin Index - June 1, 2020		106%

Stations used in Basin Index:
2G03P

SOUTH COAST			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
			YYYY-MM-DD	Depth (cm)	SWE (mm)					SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record	
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	1
3A09P	Palisade Lake	900	2020-06-01	0	0			N/A	N/A	0	0	0		0	N/A	2
3A10	DOG MOUNTAIN	1080	2020-06-01	88	465		53	65%	38	146	744	0	637	2480	714	33
3A19	ORCHID LAKE	1190	N	N	N	N	N	N/A	N/A	NS	1254	0	1302	3648	1409	38
3A20	CALLAGHAN CREEK	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	0	0	80	1228	233	35
3A20P	Callaghan	1017	2020-06-01		33			N/A	N/A	95	N/A	95		95	N/A	1
3A22P	Nostetuko River	1500	2020-06-01	0	0			0%		0	0	0	6	677	102	28
3A24P	Mosley Creek Upper	1650	2020-06-01	0	0			0%		0	0	0	0	233	27	31
3A25P	Squamish River Upper	1340	2020-06-01	153	1009		66	85%	40	752	1106	0	1110	2780	1184	26
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	2020-06-01	206	1039		50	N/A	N/A	639	1171	639		1171	N/A	2
Average				75	364	56		38%	39							

Basin Index Calculation	Average SWE	369
	Average Normal	507
South Coast Basin Index - June 1, 2020		73%

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

VANCOUVER ISLAND			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
			YYYY-MM-DD	Depth (cm)	SWE (mm)					SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record	
3B01	FORBIDDEN PLATEAU	1100	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	74	1427	2438	1222	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				N/A	13
3B17P	Wolf River Upper	1490	2020-06-01		345			35%	13	245	506	33	713	2790	981	31
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	2020-06-01	44	25		6	4%	27	0	193	0	285	3142	694	24
3B24P	Heather Mountain Upper	1190	2020-06-01	274	573		21	N/A	N/A	0	962	0	737	1573	N/A	4
3B26P	Mount Arrowsmith	1465	2020-06-01	37	193		52	N/A	N/A	0	503	0		503	N/A	2
Average				118	284	26		19%	20							

Basin Index Calculation	Average SWE	185
	Average Normal	838
Vancouver Island Basin Index - June 1, 2020		22%

Stations used in Basin Index:
3B17P, 3B23P

CENTRAL COAST			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
			YYYY-MM-DD	Depth (cm)	SWE (mm)					SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record	
3C07	WEDEENE RIVER SOUTH	220	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
3C08P	Burnt Bridge Creek	1330	2020-06-01	41	236		58	78%	68	0	0	0	134	1121	304	21
Average				41	236	58		78%	68							

Basin Index Calculation	Average SWE	236
	Average Normal	304
Central Coast Basin Index - June 1, 2020		78%

Stations used in Basin Index:
3C08P

SKAGIT			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
			YYYY-MM-DD	Depth (cm)	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	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, 2020		N/A

Stations used in Basin Index:
N/A

PEACE			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow			Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)					SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)		
4A02P	Pine Pass	1400	2020-06-01	171	868	51		122%	68	387	297	168	671	1508	713	27
4A03	WARE (UPPER)	1575	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A03P	Ware Upper	1565	2020-06-01	0	0			N/A	N/A	0	0	0	0	0	N/A	3
4A04	WARE (LOWER)	970	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A04P	Ware Lower	971	2020-06-01	0	0			N/A	N/A	0	0	0	0	0	N/A	3
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	2020-06-01	0	0			0%		0	0	0	0	219	43	29
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
4A13	PHILIP LAKE	1035	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A13P	Philip Lake	1028	2020-06-01		0			N/A	N/A	N/A	N/A				N/A	0
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	2020-06-01	166	1010	61		N/A	N/A	903	N/A	903		903	N/A	1
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	2020-06-01		312			N/A	N/A	158	N/A	158		158	N/A	1
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	2020-06-01	9	54	60		28%	42	0	0	0	148	417	192	28
4A30P	Aiken Lake	1050	2020-06-01	0	0			0%		0	0	0	0	14	5	32
4A31P	Crying Girl Prairie	1358	2020-06-01		0			N/A	N/A	0	0	0	0	0	N/A	5
4A33P	Muskwa-Kechika	1196	2020-06-01		0			N/A	N/A	0	0	0	0	0	N/A	3
4A34P	Dowling Creek	1456	2020-06-01					N/A	N/A						N/A	
4A36P	Parsnip Upper	790	2020-06-01	0	0			N/A	N/A	0	N/A	0		0	N/A	1
Average				43	187	57		37%	55							

Basin Index Calculation	Average SWE	231
	Average Normal	238
Peace Basin Index - June 1, 2020		97%

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

SKEENA-NASS			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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	40	114	0	567	1359	N/A	44
4B02	JOHANSON LAKE	1420	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4B03A	HUDSON BAY MTN.	1480	2020-06-01	10	40	40		15%	15	0	106	0	260	729	259	47
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	251	0	0	149	22	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	2020-06-01	0	0			0%		0	0	0	1	158	24	22
4B16P	Shedin Creek	1480	2020-06-01	48	339	71		48%	33	11	180	4	481	1270	703	22
4B17P	Tsai Creek	1360	2020-06-01	110	599	54		58%	25	514	632	289	852	2132	1028	22
4B18P	Cedar-Kiteen	885	2020-06-01	0	0			0%	0	0	0	0	10	622	166	19
			Average	34	196	55		24%	18							

Basin Index Calculation	Average SWE	196
	Average Normal	436
Skeena-Nass Basin Index - June 1, 2020		45%

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

LIARD			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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	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, 2020		N/A

Stations used in Basin Index:
N/A

STIKINE			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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	2020-06-01		271			175%	90	0	0	0	140	510	155	20
4D11P	Kinaskan Lake	1020	2020-06-01		0			0%	0	0	0	0	0	248	28	24
			Average	N/A	136	N/A		87%	45							

Basin Index Calculation	Average SWE	136
	Average Normal	92
Stikine Basin Index - June 1, 2020		148%

Stations used in Basin Index:
4D10P, 4D11P

NORTHWEST			June 1, 2020 Data					June 1, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow			SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010	
			Depth (cm)	Yyyy-MM-DD	NS											NS	NS
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	N/A								

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Northwest Basin Index - June 1, 2020		N/A

Stations used in Basin Index:
N/A

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	432
	Average Normal	465
British Columbia Basin Index - June 1, 2020		93%

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, 2020

The June 15th snow survey is now complete. Data from three manual snow courses and 81 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

The weather for the first two weeks of June has been dominated by cold upper low systems, which have delivered wet weather through most of British Columbia. Precipitation has been mostly normal to above normal for this time of year. Temperatures have been near normal through most areas.

Snowpack

Snow basin indices on June 15th, 2020 range from a low of 0% of normal for the Nechako to a high of 636% in the Okanagan (Table 1 and Figure 1). Most coastal snow basin indices are well below normal for this time of year, whereas many of the Interior basins are well above normal. The high snow basin indices relative to normal for June 15th in the Interior are indicative of a relative high winter season snowpack and delayed melt of higher elevation snow by several weeks. The overall average of province-wide measurements increased from 93% of normal on June 1st to 104% of normal on June 15th.

By June 15th, on average, approximately three-quarters of the accumulated seasonal snow pack has melted. Most sites have melted at seasonal rates this year. However, higher elevation snow pack in the Interior has experienced limited melt. Higher elevation Automated Snow Weather Stations in the Upper Fraser East have melted 40-60% of their seasonal peak. Elsewhere, the North and South Thompson sites have melted 30-60%, the Upper Columbia stations have melted 40-50%, the Okanagan/Boundary sites have melted 60-70% and the Kootenays have melted 25-60% of their respective higher elevation peak snow for the year.

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 be exercised when interpreting snow basin indices at this time of the year.

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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Table 1 - BC Snow Basin Indices – June 15, 2020

Basin	% of Normal (June 1 st values)	Basin	% of Normal (June 1 st values)
Upper Fraser West	N/A (N/A)	Boundary	332 (211)
Upper Fraser East	229 (142)	Similkameen	118 (106)
Nechako	0 (50)	South Coast	77 (73)
Middle Fraser	122 (69)	Vancouver Island	11 (22)
Lower Fraser	59 (73)	Central Coast	1 (78)
North Thompson	138 (110)	Skagit	N/A (N/A)
South Thompson	129 (111)	Peace	126 (97)
Upper Columbia	162 (133)	Skeena-Nass	27 (45)
West Kootenay	139 (128)	Stikine	633 (148)
East Kootenay	134 (104)	Liard	N/A (N/A)
Okanagan	636 (193)	Northwest	N/A (N/A)
Fraser River (All)	107 (90)	British Columbia	104 (93)

Streamflow

A significant warm period at the end of May, followed by heavy rain in the Interior on May 30th and 31st, led to Flood Watches and Flood Warnings in several regions including the Bonaparte, the Salmon, the Okanagan, the Similkameen, the Nicola, the Boundary, the West Kootenay and East Kootenay. Several of those rivers reached their highest flows for the year in early June.

Upper level lows distributed more precipitation across the province over the first two weeks of June and maintained flows at normal to well above normal for this time of year in the Interior. Other regions that were under advisory during the first half the month include the Upper Columbia, Upper Fraser, Cariboo, Nicola Lake, Peace and Liard.

Earlier seasonal melt and lower peak snow accumulation in areas of the province have seen some rivers trend towards an earlier freshet and below normal seasonal streamflow. This is most prominent in West-Central BC, Chilcotin, Central Coast, and South Coast.

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Lake systems in the Interior, including Nicola Lake, Okanagan Lake, and Shuswap Lake, are relatively high for this time of year. These systems are susceptible if moderate to heavy precipitation persists for several more weeks.

The Fraser River in the Lower Fraser Valley has been high relative to normal for nearly two months. Fortunately, there were no extended periods of very hot weather, allowing the higher than normal snowpack to gradually melt. The cumulative flow for the Fraser River at Hope has been very high for the season, but favourable weather conditions prevented significant peaks and avoided major flooding.

Outlook

Seasonal weather forecasts from Environment and Climate Change Canada indicate an increased likelihood of warmer than normal June-July-August temperatures for the west side of B.C., while there is an increased likelihood of cooler temperatures in Northeast B.C. Short-term weather forecasts indicate slightly above seasonal temperatures and continued seasonal unsettled weather in some regions.

Seasonal flood risk is diminishing throughout the province as snow melts and weather conditions become more stable. However, flood risk remains in regions where flows or lake levels are high relative to normal for this time of year (Peace, Northeast, Upper Fraser East, Cariboo, Nicola, North Thompson, South Thompson, Southeast), and thus remain vulnerable to short-term heavy rainfall events. The Lower Fraser River remains at minor risk of flooding due to the combined effects of snowmelt and rainfall. Other Interior regions may still be at risk for flooding if heavy rainfall occurs; in recent years rain-driven flooding unrelated to snow conditions or snowmelt has occurred in the Chilcotin and in North-East BC in late-June and early-July

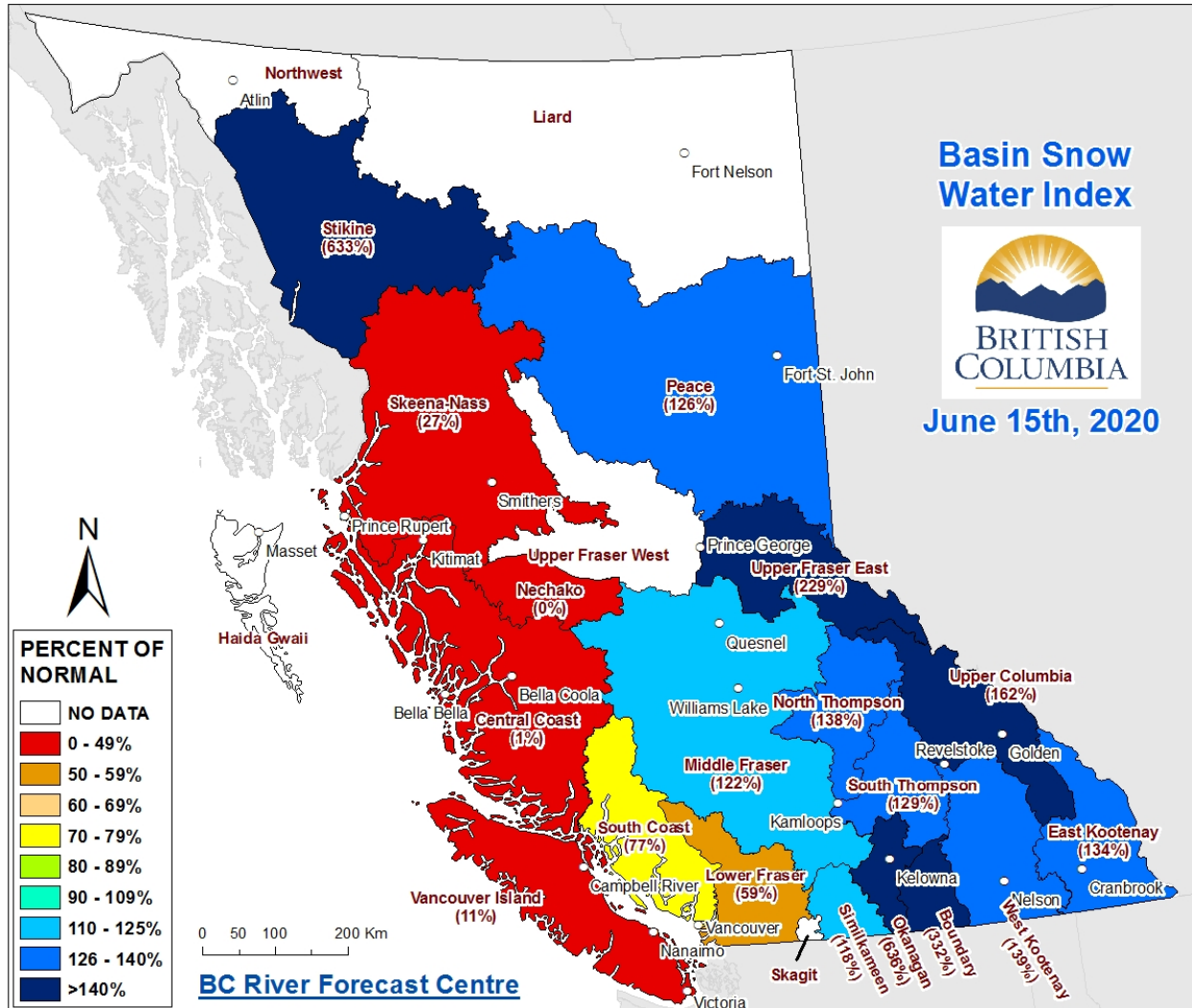
In recent years, hot and dry weather conditions in April & May have resulted in earlier than normal freshets. If cooler than normal or seasonal temperatures and wetter conditions continue throughout June, the freshet period can continue into mid-July. This season has seen a mix of snowmelt conditions, with early melt in low and mid-elevation areas and a delay in the melt of high elevation snowpack. In areas with early melt, including the Skeena-Nass, Nechako, Central Coast, South Coast, Lower Fraser tributaries, and higher elevation rivers on Vancouver Island, snowmelt influence on streamflow is expected to lead to an earlier low flow season and may increase risk of low flows later in the summer. Summer weather remains the critical factor for drought, and persistent dry and hot weather can lead to low summer streamflow in any region.

This is the final snow bulletin for the 2020 season; the first snow bulletin of the 2021 snow season will be released in early January 2021. Thank you to our partners for their contributions to these bulletins.

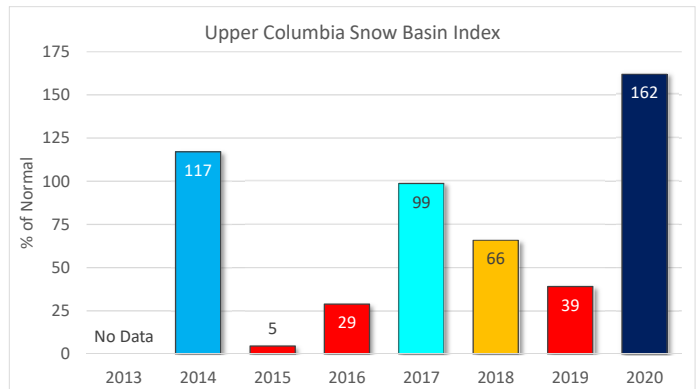
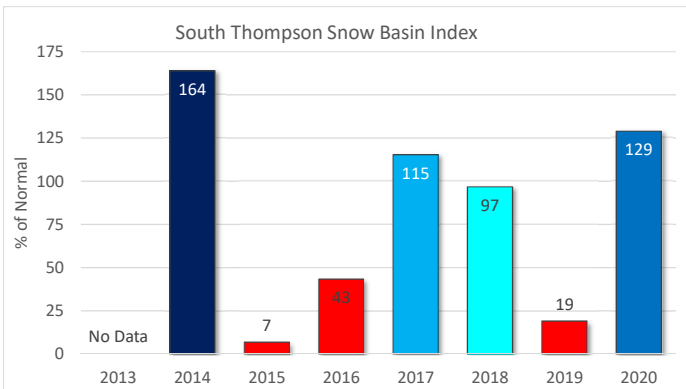
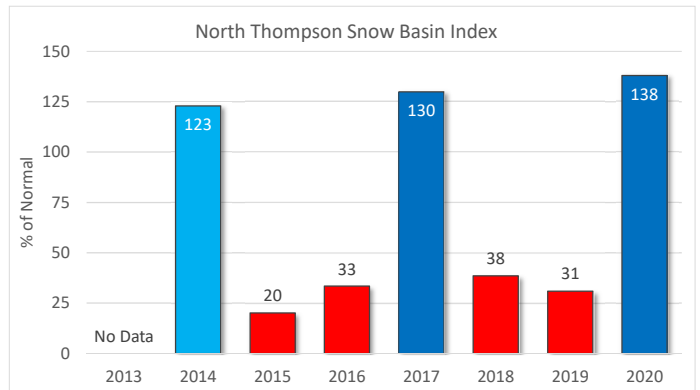
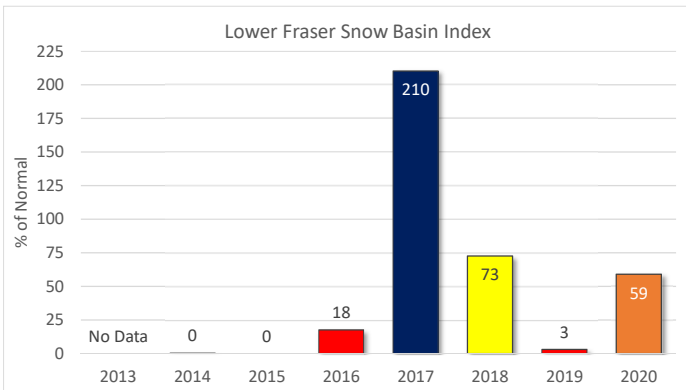
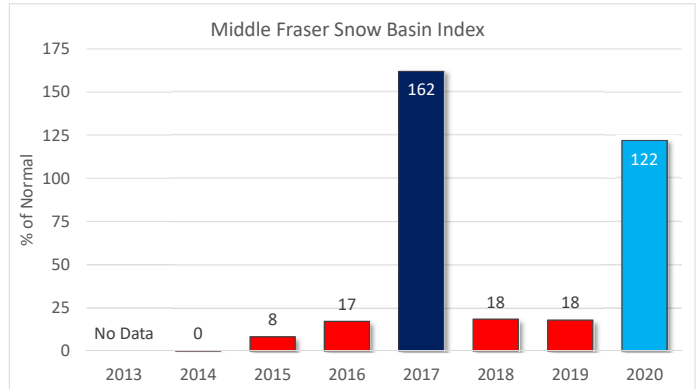
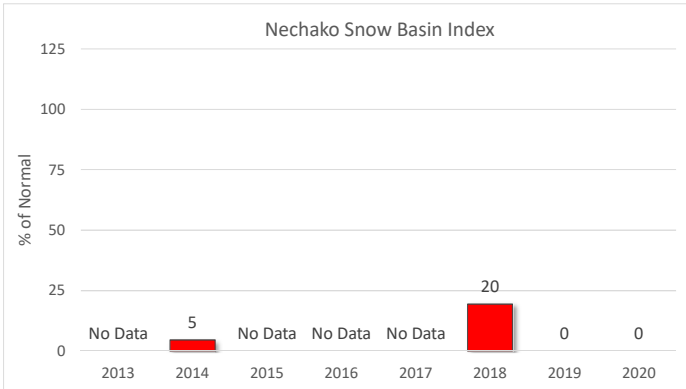
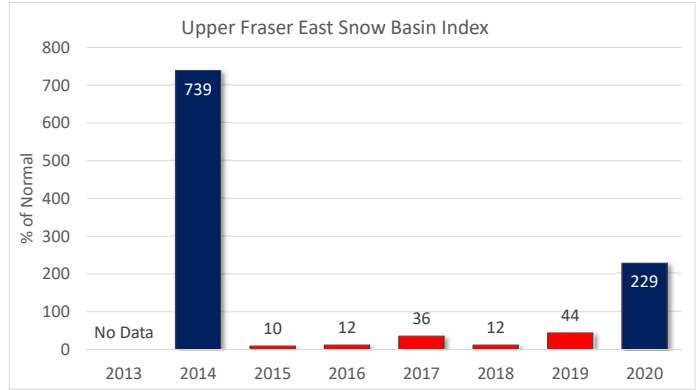
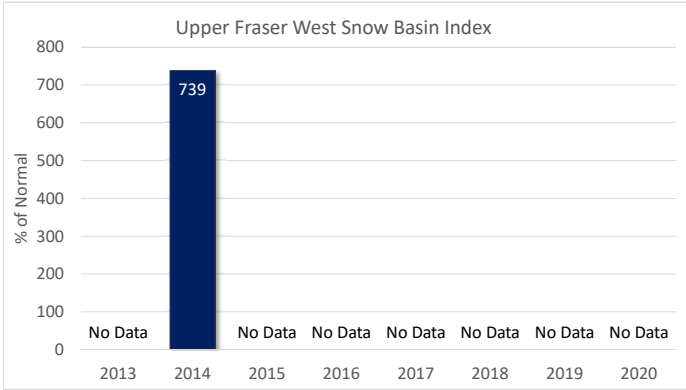
BC River Forecast Centre, June 19th, 2020

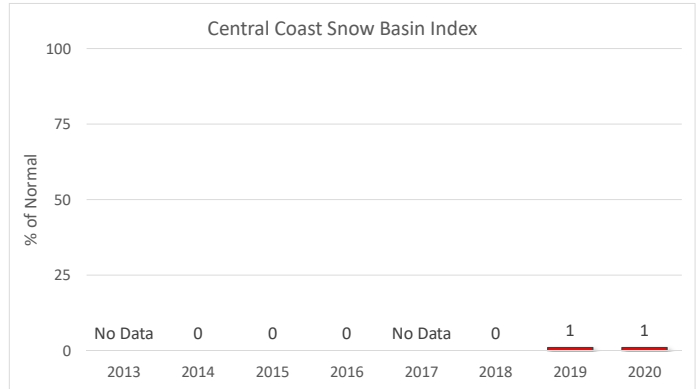
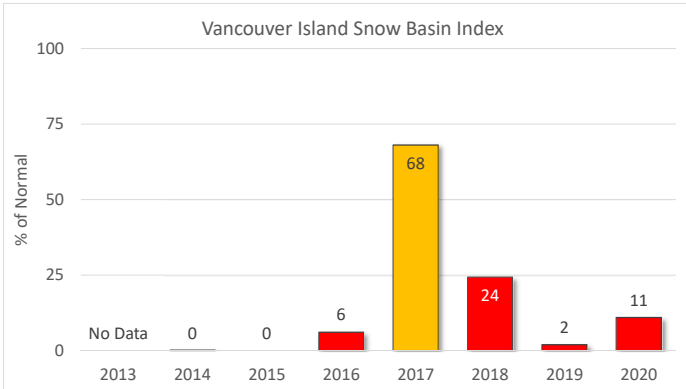
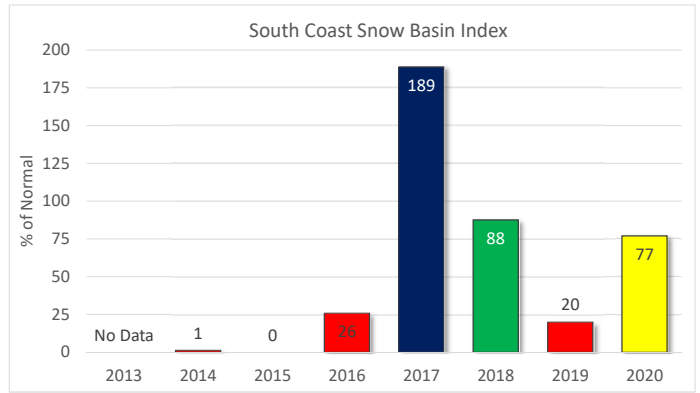
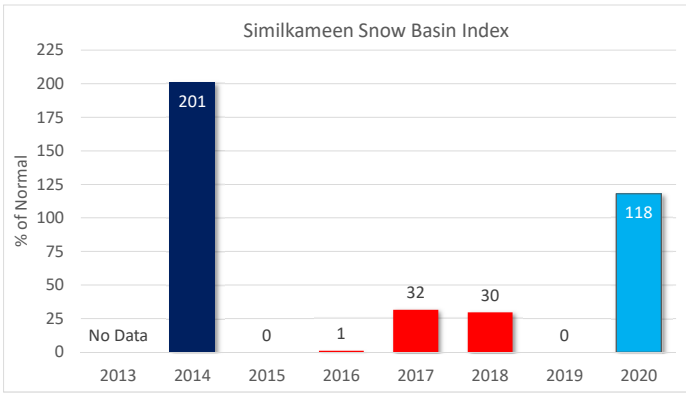
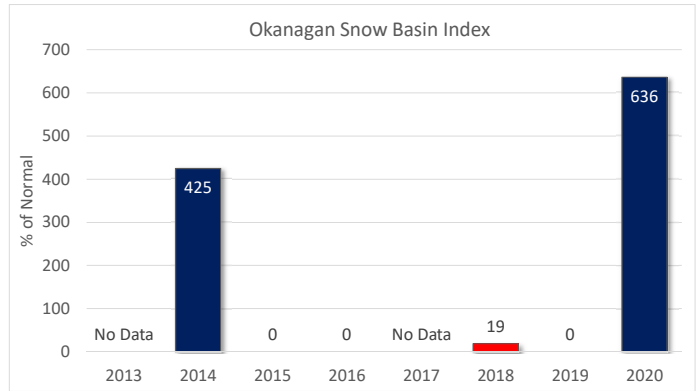
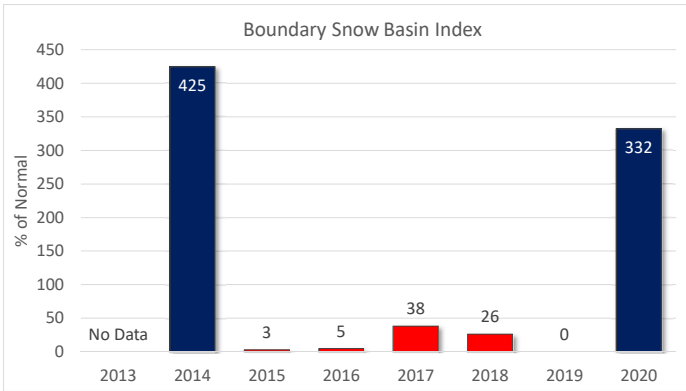
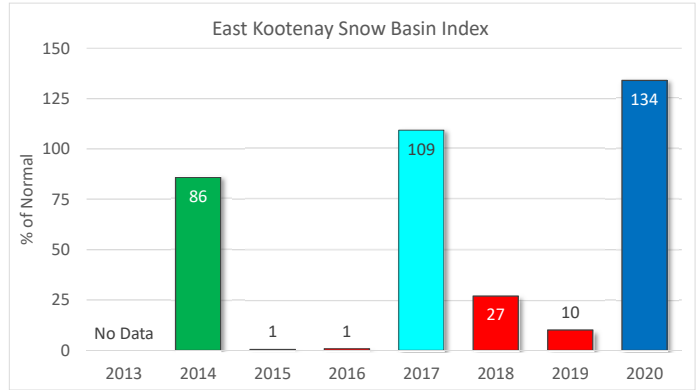
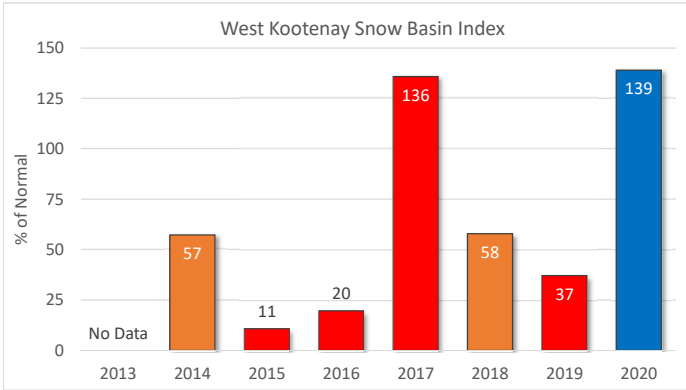
Snow Survey and Water Supply Bulletin – June 15th, 2020

Figure 1: Basin Snow Water Index – June 15th, 2020

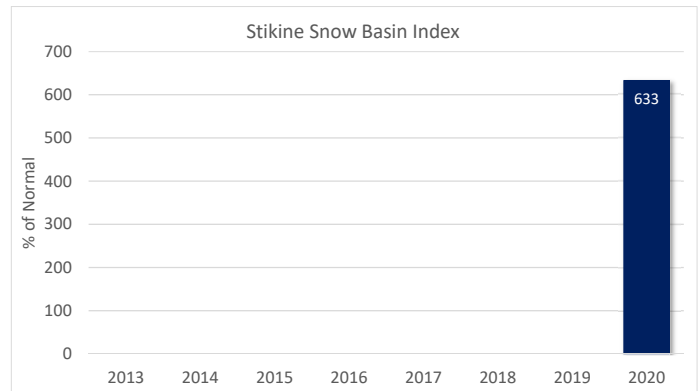
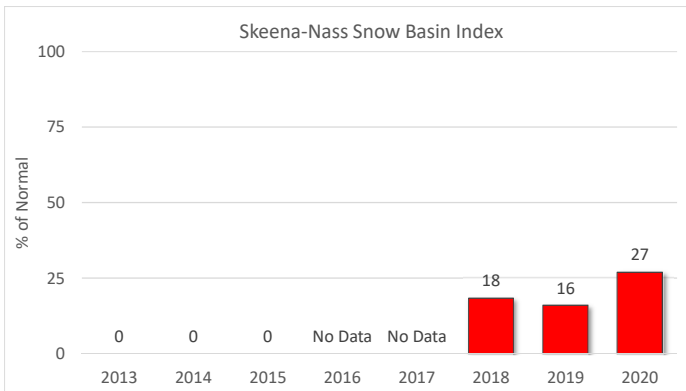
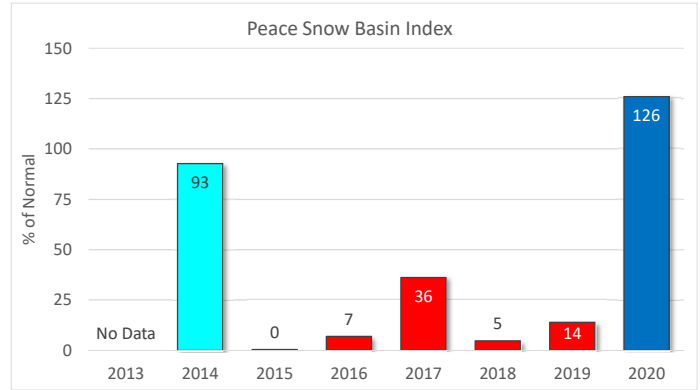
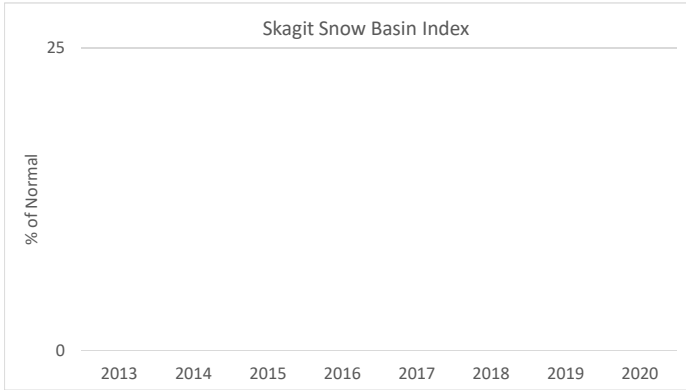


1. Every effort is made to ensure that data reported on these pages are accurate. However, in order to update the graphs and indices as quickly as possible, some data may have been estimated. Please note that data provided on these pages are preliminary and subject to revision upon review.





Snow Basin Index Graphs - June 15, 2020



June 15, 2020 Automated Snow Weather Station / Manual Snow Survey Data

UPPER FRASER EAST			June 15, 2020 Data				June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	Years of Record
1A01P	Yellowhead Lake	1860	2020-06-15	13	51	39		38%	46	N/A	N/A	20	70	574	135	20
1A02P	McBride Upper	1611	2020-06-15		0			0%		0	0	0	0	159	1	27
1A03P	Barkerville	1520	2020-06-15	1	1	10		33%		0	0	0	0	37	3	40
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	2020-06-15	126	578	46		N/A	N/A	145	0	0	58	145	N/A	3
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	0	4
1A14P	Hedrick Lake	1100	2020-06-15	53	190	36		500%	78	0	0	0	8	625	38	20
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	2020-06-15	114	346	30		N/A	N/A	0	147	0	40	147	N/A	4
1A17P	Revolution Creek	1690	2020-06-15	129	815	63		365%	98	77	81	0	143	901	223	30
1A19P	Dome Mountain	1774	2020-06-15	122	701	57		191%	92	197	137	0	308	901	367	14
			Average	80	335	40		188%	79							

Basin Index Calculation	Average SWE	293
	Average Normal	128
Upper Fraser East Basin Index - June 15, 2020		229%

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

UPPER FRASER WEST			June 15, 2020 Data				June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	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	2020-06-15	0	0			N/A	N/A	0	0	0	0	0	N/A	4
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	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 15, 2020		N/A

Stations used in Basin Index:
N/A

NECHAKO			June 15, 2020 Data				June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	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						N/A	N/A	5	0	0	2	308	44	28
1B02	TAHTSA LAKE	1300	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
1B02P	Tahtsa Lake	1300						N/A	N/A	0	360	0	425	1881	617	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	2020-06-15		0			0%		0	0	0	0	497	75	23
			Average	N/A	N/A	N/A		0%	N/A							

Basin Index Calculation	Average SWE	0
	Average Normal	75
Nechako Basin Index - June 15, 2020		0%

Stations used in Basin Index:
1B08P

LOWER THOMPSON			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record	
			Depth (cm)	SWE (mm)	Density %	Code										
1C01	BROOKMERE	980	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C06	PAVILION	1230	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C09A	HIGHLAND VALLEY	1510	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C19	GNAWED MOUNTAIN	1580	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	N/A	N/A	NS	NS			127	0	
1C29	SHOVELNOSE MOUNTAIN	1450	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C29P	Shovelnose Moutain	1460	2020-06-15	4	2	5		N/A	N/A	0	N/A	0		0	N/A	1
1C32	DEADMAN RIVER	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C42	CAVERHILL LAKE NEW	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
Average				4	2	5		N/A	N/A							

Basin Index Calculation	Average SWE	N/A
	Average Normal	N/A
Lower Thompson Basin Index - June 15, 2020		N/A

Stations used in Basin Index:
N/A

BRIDGE / LILLOOET			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record	
			Depth (cm)	SWE (mm)	Density %	Code										
1C05	MCGILLIVRAY PASS	1725	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C05P	McGillivray Pass	1718	2020-06-15		0			N/A	N/A	0	0	0		0	N/A	2
1C12P	Green Mountain	1780	2020-06-15		2			1%		0	0	0	113	887	272	26
1C14	BRALORNE	1389	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C14P	Bralorne	1382	2020-06-15		0			N/A	N/A	0	0	0		0	N/A	2
1C18P	Mission Ridge	1850	2020-06-15		2			13%	24	0	0	0	0	387	15	43
1C28	DUFFEY LAKE	1200	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C37	BRALORNE(UPPER)	1981	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C38	DOWNTON LAKE (UPPER)	1887	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C38P	Downton Lake Upper	1829	2020-06-15		170			N/A	N/A	28	167	28	312	513	N/A	4
1C39	BRIDGE GLACIER (LOWER)	1390	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C40	TYAUGHTON CREEK (NORTH)	1947	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C40P	North Tyaughton	1969	2020-06-15		0			N/A	N/A	0	0	0	0	0	N/A	4
Average				N/A	N/A	N/A		7%	24							

Basin Index Calculation	Average SWE	2
	Average Normal	144
Bridge/Lillooet Basin Index - June 15, 2020		1%

Stations used in Basin Index:
1C12P, 1C18P

CHILCOTIN			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record	
			Depth (cm)	SWE (mm)	Density %	Code										
1C08	NAZKO	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C21	BIG CREEK	1140	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	0	
1C22	PUNTZI MOUNTAIN	940	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, 2020		N/A

Stations used in Basin Index:
N/A

QUESNEL			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow			SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record	
				Depth (cm)	SWE (mm)	Density %			Code	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	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	140	N/A	5
1C20P	Boss Mountain Mine	1460	2020-06-15		5			83%		0	0	0	0	83	6	26
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	2020-06-15	75	582	78		305%	96	79	10	0	101	698	191	23
			Average	75	294	78		194%	96							

Basin Index Calculation	Average SWE	294
	Average Normal	99
Quesnel Basin Index - June 15, 2020		298%

Stations used in Basin Index:
1C20P, 1C41P

MIDDLE FRASER

Basin Index Calculation	Average SWE	148
	Average Normal	121
Middle River Basin Index - June 15, 2020		122%

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

LOWER FRASER			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow			SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record	
				Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)		Normal SWE (mm)
1D06P	Tenquille Lake	1680	2020-06-15	30	183	61		42%	39	0	320	0	334	1173	434	19
1D08	STAVE LAKE	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	2040	2040	N/A	N/A	1
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	2020-06-15		333			52%	49	0	304	0	353	1281	643	26
1D10	NAHATLATCH RIVER	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	697	2256	N/A	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	2020-06-15	165	990	60		124%	62	66	790	0	763	2022	797	24
1D18P	Disappointment Lake	1050	2020-06-15	57	178	31		33%	29	0	691	0	601	1922	532	12
1D19P	Spuzzum Creek	1180	2020-06-15	46	270	59		30%	31	0	479	0	763	2320	886	21
			Average	75	391	53		56%	42							

Basin Index Calculation	Average SWE	391
	Average Normal	658
Lower Fraser Basin Index - June 15, 2020		59%

Stations used in Basin Index:
1D06P, 1D09P, 1D17P, 1D18P, 1D19P

NORTH THOMPSON			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow			SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record	
				Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)		Normal SWE (mm)
1E01B	BLUE RIVER	670	NS	NS	NS	NS	NS	N/A	N/A	NS	NS			N/A	N/A	0
1E02P	Mount Cook	1550	2020-06-15	140	931	67		137%	78	436	691	206	673	1771	681	16
1E03A	TROPY MOUNTAIN	1860	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	800	800	N/A	N/A	1
1E07	ADAMS RIVER	1720	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	233	1046	255	21
1E08P	Azure River	1652	2020-06-15	98	584	60		117%	63	24	193	24	390	1500	499	22
1E10P	Kostal Lake	1770	2020-06-15	53	603	114		172%	81	5	32	0	355	1248	351	35
1E14P	Cook Creek	1280	2020-06-15	1	89	890		N/A	95	0	N/A	0	0	161	0	11
			Average	73	552	282		142%	79							

Basin Index Calculation	Average SWE	706
	Average Normal	510
North Thompson Basin Index - June 15, 2020		138%

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

SOUTH THOMPSON			June 15, 2020 Data				June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010		
			Depth (cm)	SWE (mm)	Density %	Code								Normal SWE (mm)	Years of Record	
1F01A	ABERDEEN LAKE	1310	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0
1F02	ANGLEMONT	1190	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0
1F03P	Park Mountain	1890	2020-06-15	89	627	70		137%	69	0	428	0	352	1045	458	35
1F04P	Enderby	1950	2020-06-15	166	728	44		N/A	N/A	255	656	255	656	775	N/A	3
1F06P	Celista Mountain	1500	2020-06-15	110	194	18		108%	58	0	5	0	143	545	179	13
Average				122	516	44		123%	64							

Basin Index Calculation	Average SWE	411
	Average Normal	319
South Thompson Basin Index - June 15, 2020		129%

Stations used in Basin Index:
1F03P, 1F06P

FRASER RIVER

Basin Index Calculation	Average SWE	345
	Average Normal	323
Fraser River Basin Index - June 15, 2020		107%

Stations used in Basin Index:
1A01P, 1A02P, 1A03P, 1A14P, 1A17P, 1A19P, 1B08P, 1C12P, 1C18P, 1C20P, 1C41P, 1D06P, 1D09P, 1D17P, 1D18P, 1D19P, 1E02P, 1E08P, 1E10P, 1F03P, 1F06P

UPPER COLUMBIA			June 15, 2020 Data				June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	Snow				SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010		
			Depth (cm)	SWE (mm)	Density %	Code								Normal SWE (mm)	Years of Record	
2A02	GLACIER	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	47	462	47	24
2A03A	FIELD	1285	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A06P	Mount Revelstoke	1850	2020-06-15		800			114%	79	222	607	0	585	1737	700	26
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	841	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	816	25
2A18	KEYSTONE CREEK	1890	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A18P	Keystone Creek	1840	2020-06-15		547			N/A	N/A	97	286	3	97	594	N/A	5
2A19	VERMONT CREEK	1520	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
2A21P	Molson Creek	1935	2020-06-15		763			133%	82	277	257	0	540	1136	575	37
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	Colpitti Creek	2131	2020-06-15		588			1131%	100	105	282	0	0	389	52	11
2A31P	Caribou Creek Upper	2201	2020-06-15		601			N/A	N/A	113	355	0	113	469	N/A	5
2A32P	Wildcat Creek	2122	2020-06-15		531			N/A	N/A	166	177	0	166	320	N/A	5
Average				N/A	638	N/A		459%	87							

Basin Index Calculation	Average SWE	717
	Average Normal	442
Upper Columbia Basin Index - June 15, 2020		162%

Stations used in Basin Index:
2A06P, 2A21P, 2A30P

WEST KOOTENAY			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow			Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010	
				Depth (cm)	SWE (mm)	Density %									Normal SWE (mm)	Years of Record
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	2020-06-15		1			10%		0	0	0	0	210	10	27
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	2020-06-15		988			194%	89	144	519	0	434	1336	509	26
2B09	RECORD MOUNTAIN	1890	2020-06-17	0	0			0%		0	0	0	17	949	127	31
2D02	FERGUSON	880	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	61	30	3
2D03	SANDON	1070	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0
2D04	NELSON	930	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0
2D05	GRAY CREEK (LOWER)	1550	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	282	28	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	2020-06-15	0	3			N/A	N/A						N/A	0
2D08P	East Creek	2030	2020-06-15		472			102%	59	237	116	0	391	1135	464	36
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	201	16
2D14P	Redfish Creek	2104	2020-06-15	163	1232	76		148%	79	292	863	292	874	1702	831	18
			Average	54	449	76		91%	76							

Basin Index Calculation	Average SWE	539
	Average Normal	388
West Kootenay Basin Index - June 15, 2020		139%

Stations used in Basin Index:
2B06P, 2B08P, 2B09, 2D08P, 2D14P

EAST KOOTENAY			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow			Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010	
				Depth (cm)	SWE (mm)	Density %									Normal SWE (mm)	Years of Record
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	0	1
2C09Q	Morrissey Ridge	1860	2020-06-15		0			0%		0	0	0	0	454	34	35
2C10P	Moyie Mountain	1930	2020-06-15	2	0	0		0%		0	0	0	0	59	1	40
2C14P	Floe Lake	2090	2020-06-15		494			148%	74	31	269	0	371	821	334	25
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	165	0		49%	74							

Basin Index Calculation	Average SWE	165
	Average Normal	123
East Kootenay Basin Index - June 15, 2020		134%

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

BOUNDARY			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow			Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010	
				Depth (cm)	SWE (mm)	Density %									Normal SWE (mm)	Years of Record
2E01	MONASHEE PASS	1370	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	2
2E02	CARMI	1250	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	0
2E03	BIG WHITE MOUNTAIN	1680	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	356	46	21
2E07P	Grano Creek	1860	2020-06-15	47	279	59		332%	92	0	61	0	13	502	84	22
			Average	47	279	59		332%	92							

Basin Index Calculation	Average SWE	279
	Average Normal	84
Boundary Basin Index - June 15, 2020		332%

Stations used in Basin Index:
2E07P

OKANAGAN			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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	2020-06-15	11	9	8		N/A	N/A	0	0	0		0	N/A	2	
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				0	0	
2F04	GRAYSTOKE LAKE	1840	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0	
2F05P	Mission Creek	1780	2020-06-15	71	355	50		670%	99	0	28	0	0	383	53	49	
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	0	1	
2F08P	Greyback Reservoir	1550	2020-06-15		0			N/A	N/A	0	0	0	0	0	0	N/A	3
2F09	WHITEROCKS MOUNTAIN	1830	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	533	26	20	
2F10	Silver Star Mountain	1840	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	109	747	195	33	
2F10P	Silver Star Mountain	1839	2020-06-15	63	496	79		N/A	N/A	0	397	0	397	493	N/A	3	
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	72	7	
2F13	ESPERON CR (UPPER)	1650	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	104		104	0	1	
2F14	ESPERON CR (MIDDLE)	1430	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		0	0	1	
2F18P	Brenda Mine	1460	2020-06-15		1			33%		0	0	0	0	8	3	24	
2F19	OYAMA LAKE	1340	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0		391	N/A	2	
2F20	VASEUX CREEK	1400	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				0	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				0	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	48	172	46		352%	99								

Basin Index Calculation	Average SWE	178
	Average Normal	28
Okanagan Basin Index - June 15, 2020		636%

Stations used in Basin Index:
2F05P, 2F18P

SIMILKAMEEN			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	Years of Record
										SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
2G03P	Blackwall Peak	1940	2020-06-15	51	257	50		118%	65	0	66	0	68	1031	218	52
2G04	LOST HORSE MOUNTAIN	1920	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	178	25	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	51	257	50		118%	65							

Basin Index Calculation	Average SWE	257
	Average Normal	218
Similkameen Basin Index - June 15, 2020		118%

Stations used in Basin Index:
2G03P

SOUTH COAST			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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	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	2020-06-15	1.9	3	16		N/A	N/A	0	0	0		0		N/A	2
3A10	DOG MOUNTAIN	1080	2020-06-15	37	218	59		55%	41	0	285	0	298	2088	399		32
3A19	ORCHID LAKE	1190	N	N	N	N	N			175	890	0	838	1910	1002		36
3A20	CALLAGHAN CREEK	1040	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	0	0	0	0		8
3A20P	Callaghan	1017	2020-06-15		29			N/A	N/A	88	N/A	88		88		N/A	1
3A22P	Nostetuko River	1500	2020-06-15	2	2	10		10%		0	0	0	0	273		20	29
3A24P	Mosley Creek Upper	1650	2020-06-15		0			0%		0	0	0	0	2		1	31
3A25P	Squamish River Upper	1340	2020-06-15	108	707	65		90%	50	272	816	0	701	2505		786	26
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	2020-06-15	166	868	52		N/A	N/A	357	1043	357		1043		N/A	2
Average				63	261	40		39%	46								

Basin Index Calculation	Average SWE	232
	Average Normal	302
South Coast Basin Index - June 15, 2020		77%

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

VANCOUVER ISLAND			June 15, 2020 Data				June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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	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				N/A	0
3B17P	Wolf River Upper	1490	2020-06-15		107			18%	30	7	297	0	346	2400	609	31
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	2020-06-15	4	0	0		0%		0	0	0	8	2700	337	24
3B24P	Heather Mountain Upper	1190	2020-06-15		274	196	7	N/A	N/A	0	609	0	357	1296	N/A	4
3B26P	Mount Arrowsmith	1465	2020-06-15		4			N/A	N/A	0	301	0	151	301	N/A	2
Average				139	77	4		9%	30							

Basin Index Calculation	Average SWE	54
	Average Normal	473
Vancouver Island Basin Index - June 15, 2020		11%

Stations used in Basin Index:
3B17P, 3B23P

CENTRAL COAST			June 15, 2020 Data				June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Density %	Code	SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010	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				N/A	0
3C08P	Burnt Bridge Creek	1330	2020-06-15	2	1	5		1%		0	0	0	0	720	99	21
Average				2	1	5		1%	N/A							

Basin Index Calculation	Average SWE	1
	Average Normal	99
Central Coast Basin Index - June 15, 2020		1%

Stations used in Basin Index:
3C08P

SKAGIT			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow					SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %	Code									
3D01C	SUMMALO 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, 2020		N/A

Stations used in Basin Index:
N/A

PEACE			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow					SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %	Code									
4A02P	Pine Pass	1400	2020-06-15	110	434	39		134%	63	37	31	0	240	1114	324	27
4A03	WARE (UPPER)	1575	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A03P	Ware Upper	1565	2020-06-15	0	0			N/A	N/A	0	0	0	0	0	N/A	3
4A04	WARE (LOWER)	970	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A04P	Ware Lower	971	2020-06-15	0	1			N/A	N/A	0	0	0	0	0	N/A	3
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	2020-06-15	1	16	160		800%		0	0	0	0	2	2	29
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
4A13	PHILIP LAKE	1035	NS	NS	NS	NS	NS	N/A	N/A	NS	NS				N/A	0
4A13P	Philip Lake	1028	2020-06-15		0			N/A	N/A	N/A	N/A				N/A	0
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	2020-06-15	116	814	70		N/A	N/A	380	N/A				N/A	1
4A20	MONKMAN CREEK	1570	NS	NS	NS	NS	NS	N/A	N/A	NS	NS	599		599	N/A	1
4A20P	Monkman Creek	1570	2020-06-15		69			N/A	N/A	0	N/A	0		0	N/A	1
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	2020-06-15	0	7			21%		0	0	0	0	225	33	28
4A30P	Aiken Lake	1050	2020-06-15	0	0			0%		0	0	0	0	14	5	32
4A31P	Crying Girl Prairie	1358	2020-06-15		0			N/A	N/A	0	0	0	0	1	N/A	5
4A33P	Muskwa-Kechika	1196	2020-06-15		0			N/A	N/A	0	0	0	0	0	N/A	4
4A34P	Dowling Creek	1456	2020-06-15					N/A	N/A						N/A	
4A36P	Parsnip Upper	790	2020-06-15	12	8	7		N/A	N/A	0	N/A	0		0	N/A	1
Average				30	112	69		239%	63							

Basin Index Calculation	Average SWE	114
	Average Normal	91
Peace Basin Index - June 15, 2020		126%

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

SKEENA-NASS			June 15, 2020 Data					June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data						
Station ID	Name	Elevation (masl)	Snow					SWE % of Normal (1981-2010)	Percentile of Historic Record	2019 SWE (mm)	2018 SWE (mm)	Minimum SWE (mm)	Median SWE (mm)	Maximum SWE (mm)	1981-2010 Normal SWE (mm)	Years of Record
			YYYY-MM-DD	Depth (cm)	SWE (mm)	Density %	Code									
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	2020-06-17	0	0			0%		0	NS	0	28	673	96	36
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	2020-06-15	3	4	13		N/A		0	0	0	0	14	0	22
4B16P	Shedin Creek	1480	2020-06-15			11		3%	39	0	0	0	114	905	340	22
4B17P	Tsai Creek	1360	2020-06-15	66	271	41		44%	37	134	337	0	385	1778	612	22
4B18P	Cedar-Kiteen	885	2020-06-15	6	5	8		71%		0	0	0	0	125	7	19
Average				19	58	21		30%	38							

Basin Index Calculation	Average SWE	72
	Average Normal	264
Skeena-Nass Basin Index - June 15, 2020		27%

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

LIARD			June 15, 2020 Data				June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow			SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
				Depth (cm)	SWE (mm)	Density %			Code	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						N/A	N/A	0	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				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 15, 2020		N/A

Stations used in Basin Index:
N/A

STIKINE			June 15, 2020 Data				June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow			SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
				Depth (cm)	SWE (mm)	Density %			Code	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
4D10P	Tumeka Creek	1220	2020-06-15			38		633%	96	0	0	0	0	67	6	20
4D11P	Kinaskan Lake	1020	2020-06-15			0		N/A		0	0	0	0	15	0	24
Average				N/A	19	N/A		633%	96							

Basin Index Calculation	Average SWE	19
	Average Normal	3
Stikine Basin Index - June 15, 2020		633%

Stations used in Basin Index:
4D10P

NORTHWEST			June 15, 2020 Data				June 15, 2020 Statistics		Historic Snow Water Equivalent (SWE) Data							
Station ID	Name	Elevation (masl)	YYYY-MM-DD	Snow			SWE % of Normal (1981-2010)	Percentile of Historic Record	2019	2018	Minimum	Median	Maximum	1981-2010		Years of Record
				Depth (cm)	SWE (mm)	Density %			Code	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	SWE (mm)	Normal SWE (mm)	
4E01	LOG CABIN	900	NS	NS	NS	NS	NS			NS	NS				N/A	0
4E02B	ATLIN LAKE	730	NS	NS	NS	NS	NS			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 15, 2020		N/A

Stations used in Basin Index:
N/A

BRITISH COLUMBIA

Basin Index Calculation	Average SWE	294
	Average Normal	282
British Columbia Basin Index - June 15, 2020		104%

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