

Snow Survey and Water Supply Bulletin – January 1st, 2018

The January 1st snow survey is now complete. Data from 76 snow courses and 64 automated snow weather stations around the province, collected by the Ministry of Environment Snow Survey Program and partners, and climate data from Environment and Climate Change Canada 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 near-normal (-0.5 to 0.5°C) temperatures across most of the province, with areas of warmer temperatures in north-east BC. Wet conditions were prevalent in northern, central and eastern BC. During October an extreme rainfall event occurred on Vancouver Island, Central Coast and North Coast and led to flooding in some areas.

November was wet across most of the province, particularly in south-west and north-east BC. A series of atmospheric river events impacted south-west BC with heavy rain. Temperatures were generally near normal for southern BC, with warmer minimum temperatures in south-east BC. In northern BC temperatures were colder than normal, with most areas experiencing monthly average temperatures that were 2 - 5°C below normal.

Weather patterns flipped in December, ushering in the dominance of Arctic air across British Columbia. Temperature departures were variable across the province, with most areas experiencing slightly below normal temperatures. High pressure throughout the month deflected major weather systems away from the province, and led to drier than normal conditions. Weather transitioned into more westerly flow with increasing precipitation towards the end of the month.

Snowpack

Snow basin indices for January 1st 2018 range from a low of 52% of normal in the Stikine to a high of 141% in the Similkameen (Table 1 and Figure 1). Generally the province has near-normal snow pack for January 1st, with the average of all snow measurements across the province at 96%. Well below-normal snowpack ($<65\%$) is present in the Stikine. Above normal snow pack is present in the Okanagan and Similkameen. Near-normal snowpacks (80-110%) are present throughout the rest of the province.

Two key weather factors have been driving the seasonal snowpack development so far this year. First, cool and wet weather in November led to rapid development of the early-season snow pack. By late-November snow pack at ASWS was 120-125% of average across the province. The second key factor was the dominance of dry, Arctic air through December. While temperatures were low, precipitation was limited, and there was very limited accumulation of snow throughout the majority of the month. Towards the end of December westerly flow patterns brought back snow accumulation, including low elevation snow in southern BC.

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

Snow Survey and Water Supply Bulletin – January 1st, 2018

Table 1 - BC Snow Basin Indices – January 1, 2018

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	94	Boundary	97
Upper Fraser East	109	Similkameen	141
Nechako	98	South Coast	106
Middle Fraser	86	Vancouver Island	96
Lower Fraser	99	Central Coast	79
North Thompson	83	Skagit	63
South Thompson	90	Peace	82
Upper Columbia	91	Skeena-Nass	93
West Kootenay	92	Stikine	52
East Kootenay	106	Liard	97
Okanagan	123	Northwest	NO DATA

*Note January 1st snow basin index values are based on limited observation points

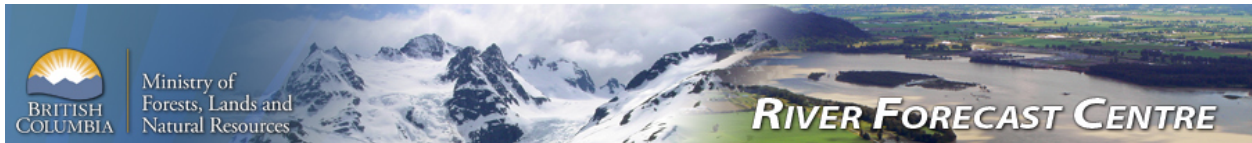
January's snow survey schedule features fewer individual snow survey measurements than occur in later survey periods in the year. Some January 1st snow basin indices are therefore based on a very limited number of surveys (e.g. 1-2 surveys within the snow basin) (Table 1) making the data interpretation less robust compared to survey periods later in the season. This is particularly relevant for assessing the low snow pack in the Stikine, and high snow pack in the Similkameen, where each basin index is only based on two surveys. All available January 1st snow measurements are provided at the end of this report.

Outlook

La Niña conditions are present in the equatorial Pacific Ocean. The Climate Prediction Centre (CPC) at the U.S. National Weather Service/NOAA has issued a La Nina Advisory and is forecasting a high likelihood of La Niña persisting through this winter. Typically, La Niña is linked to cooler winters across British Columbia. Snowpacks tend to be higher than normal; however, there has been a large range of variability in snowpack in BC during La Niña winters in the past.

Seasonal forecasts (January to March) from Environment and Climate Change Canada are indicating an increased likelihood of normal temperatures across western British Columbia and below normal temperatures in south-east BC. Short-to-medium term forecasts are suggesting warmer temperatures through January. A period of wetter weather is forecast for the province through the middle of the month, and will likely lead to increased snow accumulation over higher terrain.

By early January, nearly half of the annual BC snowpack has typically accumulated. At this early stage in the season snow accumulation is looking typical across the province. While high snow pack in the south-central part of the province (Okanagan and Similkameen) and



Snow Survey and Water Supply Bulletin – January 1st, 2018

low snow pack in the Stikine may be early indicators of flood and drought risk in those regions, it is still early in the snow season; with three or more months left for snow accumulation, these outlooks could change significantly. In recent La Niña winters, for example, increased snow packs have generally emerged later in the snow season (i.e April and May) despite modest January 1st snow basin indices.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the February 1st 2018 bulletin, which is scheduled for release on February 7th.

BC River Forecast Centre
January 8, 2018

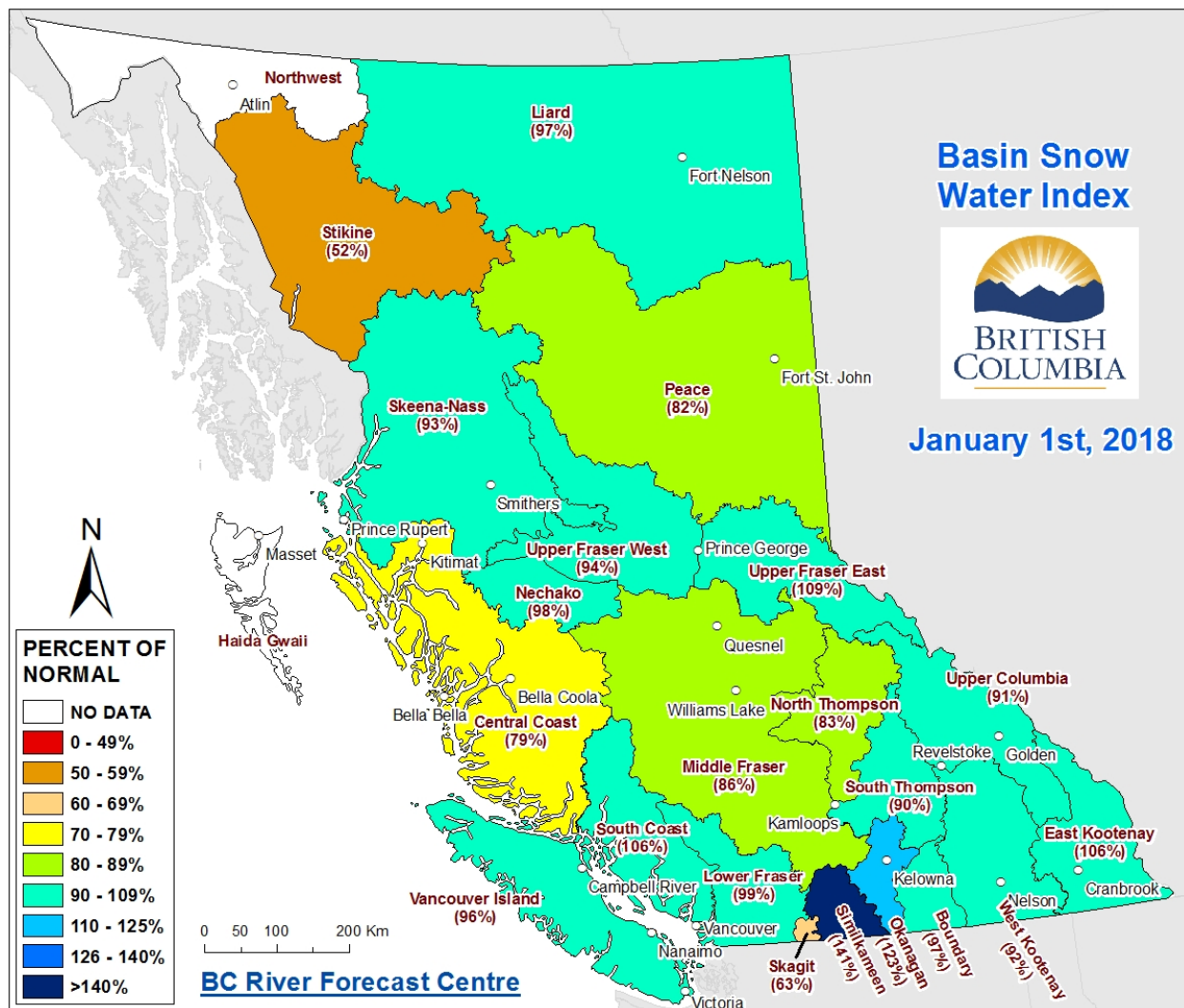


Ministry of
Forests, Lands and
Natural Resources

RIVER FORECAST CENTRE

Snow Survey and Water Supply Bulletin – January 1st, 2018

Figure 1: Basin Snow Water Index – January 1st, 2018



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.

2018 Automated Snow Weather Station/Manual Snow Survey Data				January					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	Yellowhead Lake	Upper Fraser East	1847	2017-01-01	109	350		118%	204	254	184	428	296	21
1A02P	McBride Upper	Upper Fraser East	1608	2017-01-01	75	228		115%	142	198	121	387	198	26
1A03P	Barkerville	Upper Fraser East	1483	2017-01-01	55	121		79%	114	123	21	312	154	43
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	N	N	N	N		202	296	114	422	411	22
1A05P	Longworth Upper	Upper Fraser East	1740	2017-01-01	121	347			192		192	192		1
1A06A	HANSARD	Upper Fraser East	622	NS	NS	NS	NS						0	
1A10	PRINCE GEORGE A	Upper Fraser East	684	2018-01-02	25	45		76%	31	81	0	156	59	49
1A11	PACIFIC LAKE	Upper Fraser East	756	2018-01-05	108	358		118%	186	165	56	577	303	30
1A12	KAZA LAKE	Upper Fraser West	1247	N	N	N	N		96	132	92	371	182	35
1A12P	Kaza Lake	Upper Fraser West	1248	2017-01-01	72	174			116	136	116	136		2
1A14P	Hedrick Lake	Upper Fraser East	1118	2017-01-01	112	330		95%	234	214	143	641	348	18
1A15	KNUDSEN LAKE	Upper Fraser East	1598	N	N	N	N		261		125	821	427	24
1A15P	Knudsen Lake	Upper Fraser East	1601	2017-01-01	157	363			311		311	311		1
1A16	BURNS LAKE	Upper Fraser West	820	2018-01-03	35	74		104%	46	50	10	192	71	37
1A17P	Revolution Creek	Upper Fraser East	1676	2017-01-01	129	373		99%	203	326	184	814	377	33
1A19P	Dome Mountain	Upper Fraser East	1768	2017-01-01	88	248		67%	215	298	171	581	372	12
1A23	BIRD CREEK	Upper Fraser West	1196	NS	NS	NS	NS				72	174	174	4
1B01	MOUNT WELLS	Nechako	1489	NS	NS	NS	NS				220	465	465	4
1B01P	Mount Wells	Nechako	1489	2017-01-01		290		92%	330	227	131	516	316	26
1B02	TAHTSA LAKE	Nechako	1319	NS	NS	NS	NS				444	1084	1084	4
1B02P	Tahtsa Lake	Nechako	1319	2017-01-01		617		89%	704	464	369	1168	693	26
1B05	SKINS LAKE	Nechako	877	2018-01-02	36	72		133%	48	53	0	127	54	27
1B06	MOUNT SWANNELL	Nechako	1596	NS	NS	NS	NS				134	247	247	4
1B07	NUTLI LAKE	Nechako	1502	NS	NS	NS	NS				173	527	527	4
1B08P	Mount Pondosy	Nechako	1413	2017-01-01		340		76%	293	363	204	670	448	26
1C01	BROOKMERE	Middle Fraser	994	NS	NS	NS	NS				22	170	97	12
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	2018-01-04	99	257		94%	250	239	140	458	274	20
1C06	PAVILION	Middle Fraser	1209	NS	NS	NS	NS				0	80	32	9
1C08	NAZKO	Middle Fraser	1029	NS	NS	NS	NS			31	0	92	41	27
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	NS	NS	NS	NS				12	104	51	12
1C12P	Green Mountain	Middle Fraser	1766	2017-01-01		392		84%	336	429	268	780	469	24
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	NS	NS	NS	NS						0	
1C14	BRALORNE	Middle Fraser	1382	2018-01-04	42	90		111%	70	77	0	158	81	19
1C17	MOUNT TIMOTHY	Middle Fraser	1632	N	N	N	N		90	161	38	350	160	18
1C18P	Mission Ridge	Middle Fraser	1903	2017-01-01		280		107%	259	237	148	659	261	48
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	NS	NS	NS	NS				24	93	53	6
1C20P	Boss Mountain Mine	Middle Fraser	1477	2017-01-01	84	169		52%	225	255	191	495	322	24

1C21	BIG CREEK	Middle Fraser	1130	NS	NS	NS	NS			42	10	68	32	27
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	2017-12-31	22	36		100%	26	22	0	106	36	38
1C23	PENFOLD CREEK	Middle Fraser	1687	NS	NS	NS	NS			525	525	525	0	1
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	2017-12-29	46	84		122%	80	119	10	146	69	40
1C28	DUFFEY LAKE	Middle Fraser	1253	NS	NS	NS	NS						0	
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	NS	NS	NS	NS						0	
1C32	DEADMAN RIVER	Middle Fraser	1463	NS	NS	NS	NS				30	141	65	7
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	2017-12-27	32	62		67%	60	116	46	124	93	10
1C37	BRALORNE(UPPER)	Middle Fraser	1980	2018-01-04	113	338		109%	328	290	116	504	309	19
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	2018-01-04	128	396		81%	434		272	690	489	19
1C38P	Downton Lake Upper	Middle Fraser	1829	2017-01-01		390			419	451	419	451		2
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	2018-01-04	108	306		103%	276	300	74	466	298	19
1C40	TYAUGHTON	Middle Fraser	1946	2018-01-04	92	264		108%	206	198	92	418	244	18
1C40P	North Tyaughton	Middle Fraser	1969	2017-01-01		239			184	174	174	184		2
1C41P	Yanks Peak East	Middle Fraser	1683	2017-01-01	102	319		80%	304	365	207	510	397	21
1C42	CAVERHILL LAKE	Middle Fraser	1400	NS	NS	NS	NS							
1D06P	Tenquille Lake	Lower Fraser	1669	2017-01-01	194	503		104%	532	526	285	817	485	17
1D08	STAVE LAKE	Lower Fraser	1211	2017-12-26	168	602		104%	646	584	112	976	578	21
1D09	WAHLEACH LAKE	Lower Fraser	1395	N	N	N	N		250	224	46	417	240	23
1D09P	Wahleach Lake Upper	Lower Fraser	1408	2017-01-01		648		147%	308	290	214	650	442	26
1D10	NAHATLATCH RIVER	Lower Fraser	1530	2017-12-26	142	504		86%	438	634	219	975	585	22
1D16	DICKSON LAKE	Lower Fraser	1147	2017-12-26	174	604		98%	806	466	274	1196	616	19
1D17P	Chilliwack River	Lower Fraser	1621	2017-01-01	194	662		101%	620	809	353	1165	658	26
1D19P	Spuzzum Creek	Lower Fraser	1197	2017-01-01	191	613		93%	595	597	198	1268	662	19
1E01B	BLUE RIVER	North Thompson	673	2017-12-31	50	86		58%	122	160	0	263	149	26
1E02P	Mount Cook	North Thompson	1574	2017-01-01	175	510		82%	513	684	420	901	621	18
1E03A	TROPHY MOUNTAIN	North Thompson	1907	NS	NS	NS	NS						0	
1E05	KNOUFF LAKE	North Thompson	1189	NS	NS	NS	NS						0	
1E07	ADAMS RIVER	North Thompson	1769	NS	NS	NS	NS				205	475	324	13
1E08P	Azure River	North Thompson	1625	2017-01-01	535	567		96%	538	528	356	780	593	21
1E10P	Kostal Lake	North Thompson	1760	2017-01-01	81	322		72%	398	417	271	615	448	33
1E14P	Cook Creek	North Thompson	1280	2017-01-01	94		A		0	0	101	338	239	11
1F01A	ABERDEEN LAKE	South Thompson	1262	NS	NS	NS	NS			85	61	106	94	5
1F02	ANGLEMONT	South Thompson	1168	NS	NS	NS	NS				164	164	164	2
1F03P	Park Mountain	South Thompson	1857	2017-01-01	101	340		81%		379	256	632	421	32
1F04P	Enderby	South Thompson	1950	2017-01-01	171	448			552		552	552		1
1F06P	Celista Mountain	South Thompson	1533	2017-01-01	135	363		78%	357	506	307	577	468	13
2A01A	CANOE RIVER	Upper Columbia	866	NS	NS	NS	NS				29	86	48	5
2A02	GLACIER	Upper Columbia	1249	2017-12-27	86	234	A	77%	208	362	147	519	304	39
2A03A	FIELD	Upper Columbia	1310	NS	NS	NS	NS				38	127	80	11
2A06P	Mount Revelstoke	Upper Columbia	1770	2017-01-01		488		83%	600	595	303	861	587	25
2A07	KICKING HORSE	Upper Columbia	1648	2017-12-29	62	130		88%	90	160	66	257	147	35

2A11	BEAVERFOOT	Upper Columbia	1924	2018-01-03	51	96		89%	80	148	52	215	108	29
2A14	MOUNT ABBOT	Upper Columbia	2031	2017-12-28	174	568	A	97%	522	600	298	1065	584	27
2A16	GOLDSTREAM	Upper Columbia	1914	2017-12-31	174	530		90%	626	584	355	906	588	29
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	2017-12-26	164	530	A	89%	490	590	331	1228	596	37
2A18	KEYSTONE CREEK	Upper Columbia	1839	2017-12-31	136	370		91%	385	414	217	577	405	28
2A18P	Keystone Creek	Upper Columbia	1850	2017-01-01		415			518	475	475	518		2
2A19	VERMONT CREEK	Upper Columbia	1533	2018-01-03	87	207		100%	185	286	91	328	207	28
2A21P	Molson Creek	Upper Columbia	1930	2017-01-01		625		111%	484	481	286	1072	563	37
2A22	SUNBEAM LAKE	Upper Columbia	2066	2017-12-31	166	493		105%	466	469	243	1131	471	29
2A23	BUSH RIVER	Upper Columbia	1982	2017-12-31	143	408		98%	399	483	216	940	417	29
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	2017-12-31	183	525		86%	620	671	273	1472	613	30
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	2017-12-31	89	194		65%	230	338	166	504	298	28
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	2017-12-31	201	642		91%	664	335	335	1022	706	28
2A30P	Colpitti Creek	Upper Columbia	2131	2017-01-01		491			465	403	403	465		2
2A31P	Caribou Creek Upper	Upper Columbia	2201	2017-01-01		511			484	465	465	484		2
2A32P	Wildcat Creek	Upper Columbia	2122	2017-01-01		295			258	271	271	258		2
2B02A	FARRON	Lower Columbia	1229	2017-12-27	62	148		101%	110	157	40	330	146	26
2B05	WHATSHAN (UPPER)	Lower Columbia	1476	2018-01-01	116	267		83%	191		169	543	323	29
2B06P	Barnes Creek	Lower Columbia	1595	2017-01-01		250		94%	130	272	130	405	265	25
2B07	KOCH CREEK	Lower Columbia	1813	2018-01-01	118	307		89%	336	415	170	473	346	28
2B08P	St. Leon Creek	Lower Columbia	1822	2017-01-01		475		97%	501	536	221	855	488	25
2B09	RECORD MOUNTAIN	Lower Columbia	1906	2018-01-03	111	318		100%	324	320	134	575	319	27
2C01	SINCLAIR PASS	East Kootenay	1374	NS	NS	NS	NS				25	107	54	12
2C04	SULLIVAN MINE	East Kootenay	1580	2018-01-02	78	152		122%	84	114	29	226	125	30
2C07	FERNIE EAST	East Kootenay	1213	2018-01-04	66	149		113%	112	98	28	330	132	32
2C09Q	Morrissey Ridge	East Kootenay	1966	2017-01-01		200		65%	212	308	124	706	306	38
2C10P	Moyie Mountain	East Kootenay	1840	2017-01-01	80	193		112%	180	184	76	354	172	39
2C14P	Floe Lake	East Kootenay	2110	2017-01-01		325		92%	396	331	173	503	352	25
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	2018-01-03	122	331		124%	286	270	111	567	267	29
2C16	MOUNT JOFFRE	East Kootenay	1763	2018-01-03	77	160		96%	98	206	73	364	166	29
2C17	THUNDER CREEK	East Kootenay	2062	2018-01-03	69	154		122%	115	190	61	276	126	29
2D02	FERGUSON	West Kootenay	929	2018-01-02	94	199		78%	125	320	93	409	256	34
2D03	SANDON	West Kootenay	1072	NS	NS	NS	NS				157	157	157	2
2D04	NELSON	West Kootenay	952	2017-12-28	60	108		65%	87	121	61	366	167	51
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	NS	NS	NS	NS				69	372	205	23
2D06	CHAR CREEK	West Kootenay	1290	2018-01-03	103	264		110%	118	221	110	480	239	30
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS	NS	NS	NS						0	0
2D08P	East Creek	West Kootenay	2004	2017-01-01		411		93%	443	525	206	858	442	37
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	N	N	N	N		447	520	277	902	496	30
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	NS	NS	NS	NS				222	612	358	16
2D14P	Redfish Creek	West Kootenay	2086	2017-01-01	234	551		107%	704	751	401	751	514	16
2E01	MONASHEE PASS	Kettle	1387	2018-01-01	72	152		93%	92	165	84	239	163	34

2E02	CARMI	Kettle	1254	NS	NS	NS	NS				86	102	0	3
2E03	BIG WHITE MOUNTAIN	Kettle	1672	NS	NS	NS	NS				112	326	235	17
2E07P	Grano Creek	Kettle	1874	2017-01-01	98	229		102%	189	285	143	315	225	20
2F01A	TROUT CREEK (West)	Okanagan	1430	NS	NS	NS	NS			93	68	140	0	3
2F01P	Trout Creek West	Okanagan			66	126								0
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	2018-01-03	69	147		147%	104	172	42	198	100	48
2F03	MC CULLOCH	Okanagan	1266	NS	NS	NS	NS				28	144	78	28
2F04	GRAYSTOKE LAKE	Okanagan	1818	2018-01-03	70	202		137%	128	168	96	282	147	13
2F05P	Mission Creek	Okanagan	1794	2017-01-01	95	221		97%	176	242	104	398	227	48
2F07	POSTILL LAKE	Okanagan	1358	NS	NS	NS	NS						0	0
2F08P	Greyback Reservoir	Okanagan	1550	2017-01-01	56	137			102		102	102		1
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	NS	NS	NS	NS				122	447	271	20
2F10P	Silver Star Mountain	Okanagan	1839	2017-01-01	145	359			314	344	314	344		2
2F11	ISINTOK LAKE	Okanagan	1651	2018-01-04	56	117		170%	77	108	16	196	69	48
2F12	MOUNT KOBAN	Okanagan	1817	2017-12-31	76	170		122%	70	185	28	261	139	38
2F13	ESPERON CR (UPPER)	Okanagan	1634	NS	NS	NS	NS						0	
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	NS	NS	NS	NS						0	
2F18P	Brenda Mine	Okanagan	1453	2017-01-01		151		82%	125	217	85	304	185	25
2F19	OYAMA LAKE	Okanagan	1365	NS	NS	NS	NS						0	
2F20	VASEUX CREEK	Okanagan	1403	NS	NS	NS	NS				32	117	56	19
2F21	BOULEAU LAKE	Okanagan	1405	NS	NS	NS	NS				160	351	0	2
2F23	MACDONALD LAKE	Okanagan	1742	NS	NS	NS	NS				81	328	189	16
2F24	ISLAHT LAKE	Okanagan	1492	NS	NS	NS	NS						0	
2F25	POSTILL LAKE UPPER	Okanagan	1500	NS	NS	NS	NS						0	
2G03P	Blackwall Peak	Similkameen	1934	2017-01-01	170	426		112%	333	488	108	923	379	50
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	NS	NS	NS	NS				54	120	93	7
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	NS	NS	NS	NS				21	197	96	15
2G06	HAMILTON HILL	Similkameen	1477	NS	NS	NS	NS				55	313	168	15
3A01	GROUSE MOUNTAIN	South Coast	1126	2017-12-27	145	566		117%	732	596	24	878	485	29
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS	NS	NS	NS						0	
3A05	POWELL RIVER (LOWER)	South Coast	882	NS	NS	NS	NS						0	
3A09	PALISADE LAKE	South Coast	898	NS	NS	NS	NS				86	334	334	3
3A10	DOG MOUNTAIN	South Coast	1007	2017-12-28	155	520		107%	754	586	78	879	488	24
3A19	ORCHID LAKE	South Coast	1178	2018-01-02	234	829		112%	808	832	180	1360	739	27
3A20	CALLAGHAN CREEK	South Coast	1009	NS	NS	NS	NS				100	638	289	13
3A22P	Nostetuko River	South Coast	1457	2017-01-01	82	254		98%	169	268	32	544	258	29
3A24P	Mosley Creek Upper	South Coast	1655	2017-01-01	94	216		111%	181	159	85	491	194	29
3A25P	Squamish River Upper	South Coast	1387	2017-01-01	223	740		100%	584	726	391	1160	742	28
3A26	CHAPMAN CREEK	South Coast	1022	NS	NS	NS	NS						0	
3A27	EDWARDS LAKE	South Coast	1070	NS	NS	NS	NS						0	
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	2018-01-02	158	535		86%	619	660	0	1287	621	31
3B02A	MOUNT COKELY	Vancouver Island	1267	NS	NS	NS	NS						0	

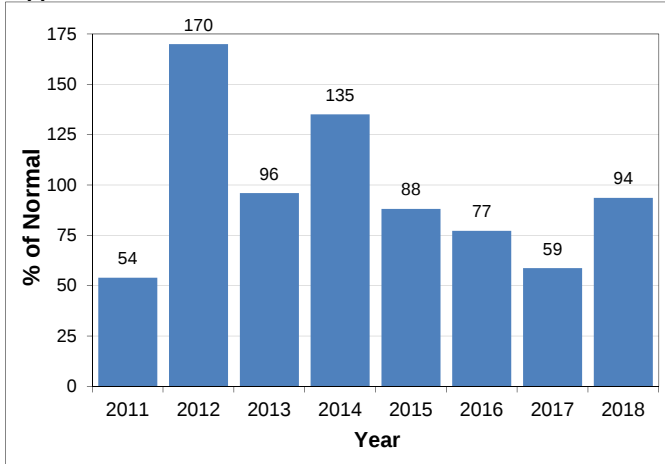
3B04	ELK RIVER	Vancouver Island	270	2018-01-02	21	65		133%	123	40	0	264	49	30
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	NS	NS	NS	NS				546	734	587	5
3B17P	Wolf River Upper	Vancouver Island	1422	2017-01-01		584		105%	518	582	43	1057	555	36
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	2018-01-02	32	68		26%	310	230	0	774	262	24
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	N	N	N	N		204	160	0	388	161	24
3B23P	Jump Creek	Vancouver Island	1134	2017-01-01	118		A		460	287	63	1025	459	22
3B24P	Heather Mountain Upper	Vancouver Island	1190	2017-01-01	137	558			661	647	647	661		2
3B26P	Mount Arrowsmith	Vancouver Island	1465	2017-01-01	164	376			373		373	373		1
3C07	WEDEENE RIVER SOUTH	North Coast	196	NS	NS	NS	NS				242	242	242	1
3C08P	Burnt Bridge Creek	North Coast	1329	2017-01-01	111	337		79%	279	382	139	702	429	20
3D01C	SUMALLO RIVER WEST	Skagit	801	NS	NS	NS	NS			82	47	82		2
3D02	LIGHTNING LAKE	Skagit	1254	NS	NS	NS	NS						0	
3D03A	KLESILKWA	Skagit	1134	2017-12-26	43	78		63%	135	134	0	386	123	21
4A02P	Pine Pass	Peace	1386	2017-01-01	149	472		86%	101	363	101	1016	549	29
4A03	WARE (UPPER)	Peace	1563	2018-01-03	66	161		107%	92	90	64	248	151	29
4A03P	Ware Upper	Peace	1565	2017-01-01	61	139			68		68	68		1
4A04	WARE (LOWER)	Peace	969	2018-01-03	52	115		105%	46	89	46	240	110	27
4A04P	Ware Lower	Peace	971	2017-01-01	127	117			134		134	134		1
4A05	GERMANSEN (UPPER)	Peace	1489	2018-01-04	71	184		99%	115	156	93	364	186	36
4A06	TUTIZZI LAKE	Peace	1043	2018-01-04	59	144		101%	69	106	69	223	142	28
4A07	LADY LAURIER LAKE	Peace	1460	2018-01-02	94	260		88%	178	194	140	472	295	35
4A09	PULPIT LAKE	Peace	1331	2018-01-03	74	170		72%	136	152	130	398	235	29
4A09P	Pulpit Lake	Peace	1331	2017-01-01	59	129		52%	110	133	110	344	250	28
4A10	FREDRICKSON LAKE	Peace	1323	2018-01-03	46	65		51%	70	93	54	250	128	29
4A11	TRYGVE LAKE	Peace	1409	2018-01-03	69	158		76%	121	119	119	299	207	33
4A12	TSAYDAYCHI LAKE	Peace	1173	2018-01-04	79	245		113%	148	166	128	393	217	36
4A13	PHILIP LAKE	Peace	1013	2018-01-04	46	128		83%		137	48	288	154	35
4A16	MORFEE MOUNTAIN	Peace	1427	2018-01-05	95	299		70%	239	265	199	710	425	29
4A18	MOUNT SHEBA	Peace	1480	2018-01-05	126	444		101%	279	369	106	793	438	24
4A20	MONKMAN CREEK	Peace	1566	2018-01-05	108	381		138%		190	107	546	277	23
4A21	MOUNT STEARNS	Peace	1514	2018-01-02	44	87		106%	92	41	14	151	82	29
4A25	FORT ST. JOHN A	Peace	692	2018-01-04	34	82		158%	50	34	0	134	52	33
4A27P	Kwadacha North	Peace	1554	2017-01-01	0	173			80		80	80		1
4A30P	Aiken Lake	Peace	1061	2017-01-04		96		70%	117	90	71	262	138	33
4A31P	Crying Girl Prairie	Peace	1358	2017-01-01		125			75	86	75	86		2
4A33P	Muskwa-Kechika	Peace	1196	2017-01-01		69			301	23	23	301		2
4A34P	Dowling Creek	Peace	1456	2017-01-01		461			78		78	78		1
4B01	KIDPRICE LAKE	Skeena-Nass	1415	NS	NS	NS	NS				369	894	894	4
4B02	JOHANSON LAKE	Skeena-Nass	1480	2018-01-04	54	121		72%	103	108	84	282	167	33
4B03A	HUDSON BAY MTN.	Skeena-Nass	1452	2018-01-04	93	286		110%	218	168	135	470	264	35
4B04	CHAPMAN LAKE	Skeena-Nass	1485	NS	NS	NS	NS						0	
4B06	TACHEK CREEK	Skeena-Nass	1133	NS	NS	NS	NS						0	

4B07	MCKENDRICK CREEK	Skeena-Nass	1048	NS	NS	NS	NS						0	
4B08	MOUNT CRONIN	Skeena-Nass	1491	NS	NS	NS	NS						0	
4B10	NINGUNSAW PASS	Nass	647	NS	NS	NS	NS				277	277	0	1
4B11A	BEAR PASS	Nass	437	2018-01-04	78	170							0	
4B12P	Granduc Mine	Skeena-Nass	790	2017-01-01	192		A		157		157	157		1
4B13A	TERRACE A	Skeena-Nass	219	2018-01-03	18	58		79%	46	68	0	264	73	32
4B14	EQUITY MINE	Skeena-Nass	1434	NS	NS	NS	NS				118	228	166	11
4B15	LU LAKE	Skeena-Nass	1296	NS	NS	NS	NS				96	182	130	11
4B15P	Lu Lake	Skeena-Nass	1308	2017-01-01	54	163		116%	204	119	41	291	141	20
4B16P	Shedin Creek	Skeena-Nass	1320	2017-01-01	108	279		66%	441	195	195	598	425	22
4B17P	Tsai Creek	Skeena-Nass	1360	2017-01-01	125	456		76%	165	302	165	983	599	20
4B18P	Cedar-Kiteen	Skeena-Nass	912	2017-01-01			A		72	178	72	568	307	17
4C01	SIKANNI LAKE	Liard	1390	2018-01-03	62	140		97%	71	78	44	257	145	34
4C01P	Sikanni Lake	Liard	1400	2017-01-01	68	161			109		109	109		1
4C02	SUMMIT LAKE	Liard	1291	NS	NS	NS	NS				58	58	0	3
4C03	DEASE LAKE	Liard	805	NS	NS	NS	NS				20	168	68	38
4C05	FORT NELSON AIRPORT	Liard	368	NS	NS	NS	NS			38	15	112	57	45
4C15	JADE CITY	Liard	943	N	N	N	N						0	
4D01	TELEGRAPH CREEK	Stikine	490	NS	NS	NS	NS						0	
4D02	ISKUT	Stikine	931	NS	NS	NS	NS				76	76	0	2
4D11P	Kinaskan Lake	Stikine	1020	2017-01-01		96		48%		94	94	97	202	21
4E02B	ATLIN LAKE	Yukon	730	NS	NS	NS	NS						0	

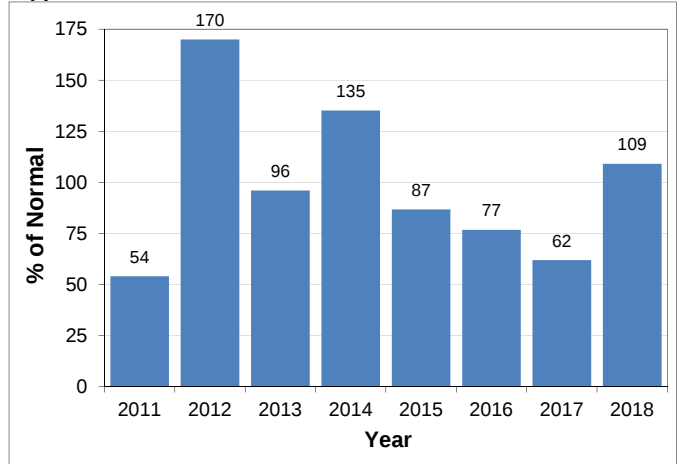
Code	Description
A	Sampling problems were encountered
B	Early or late sampling
C	Early or late sampling w/problems encountered
E	Estimate
N	Scheduled, but not sampled
NA	Not available
NS	Not scheduled
SD	Snow Depth
SWE	Snow Water Equivalent
T	Trace Amount

Snow Basin Index Graphs - January 1, 2018

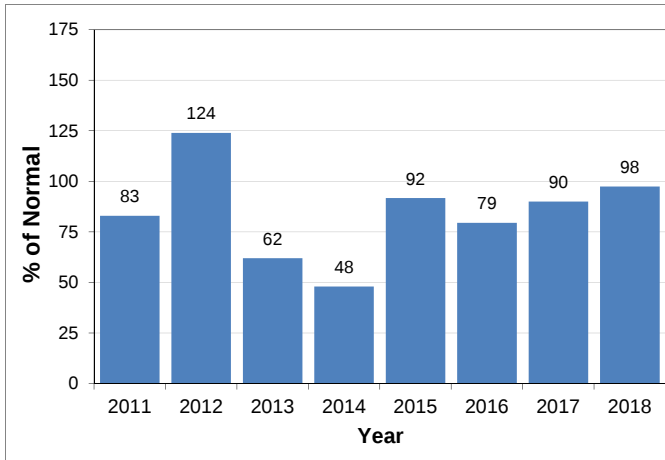
Upper Fraser West



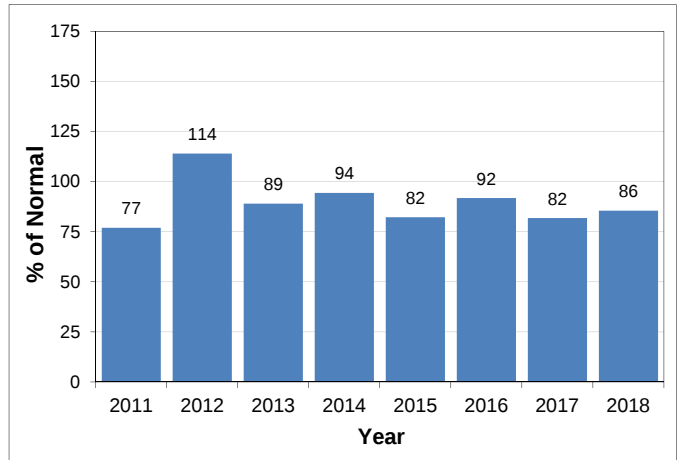
Upper Fraser East



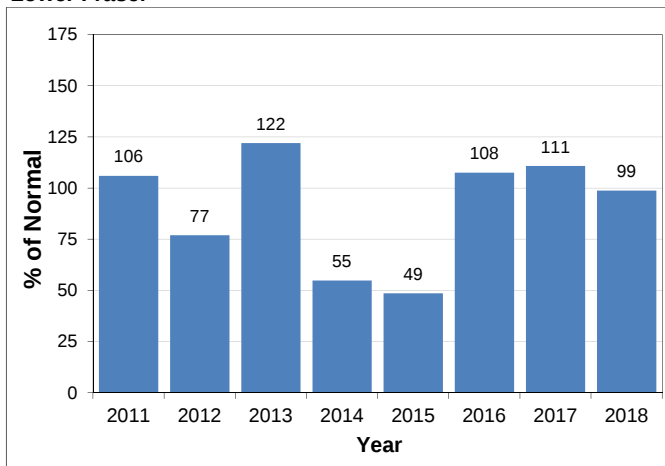
Nechako



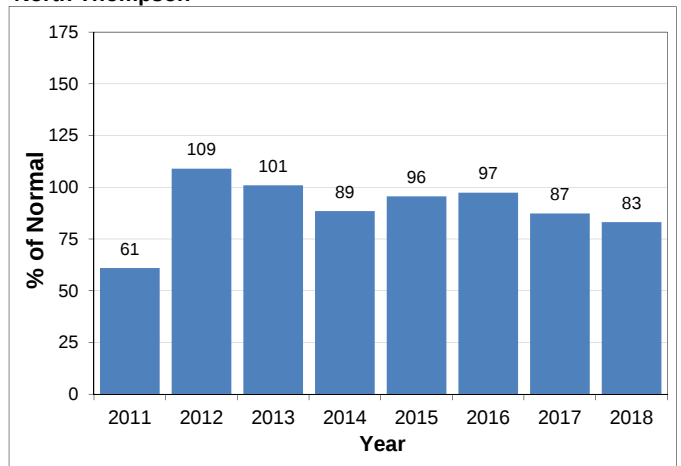
Middle Fraser



Lower Fraser

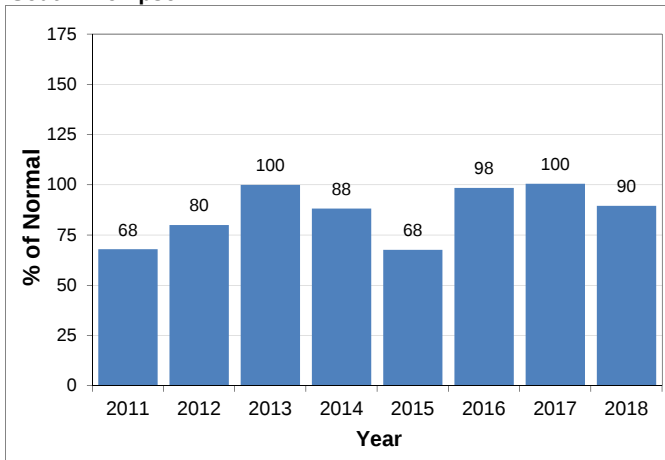


North Thompson

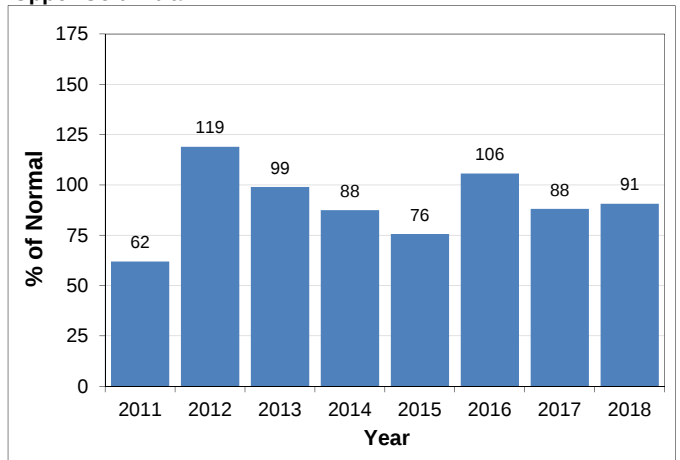


Snow Basin Index Graphs - January 1, 2018

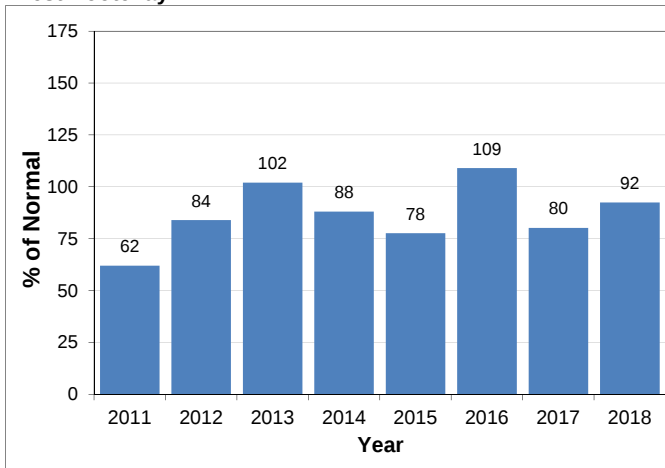
South Thompson



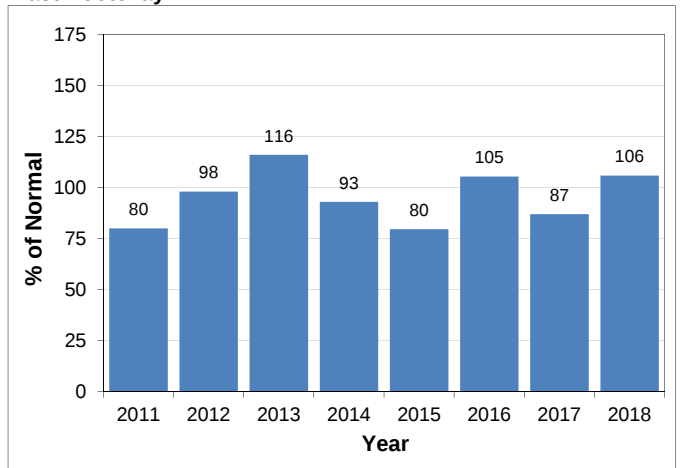
Upper Columbia



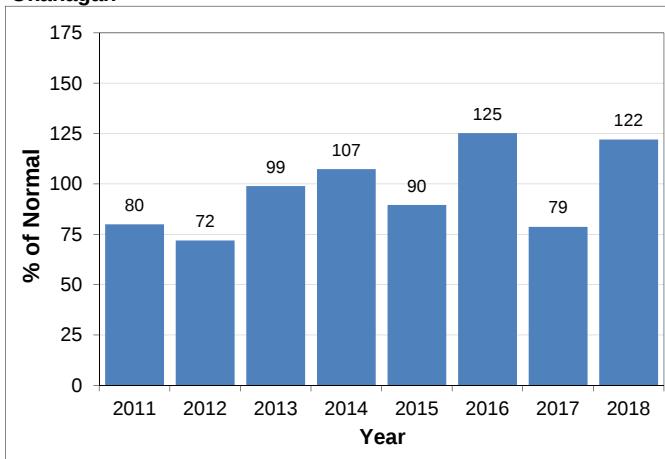
West Kootenay



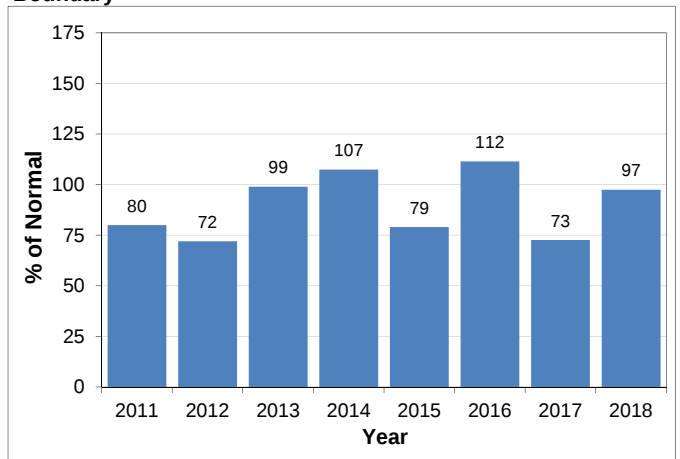
East Kootenay



Okanagan

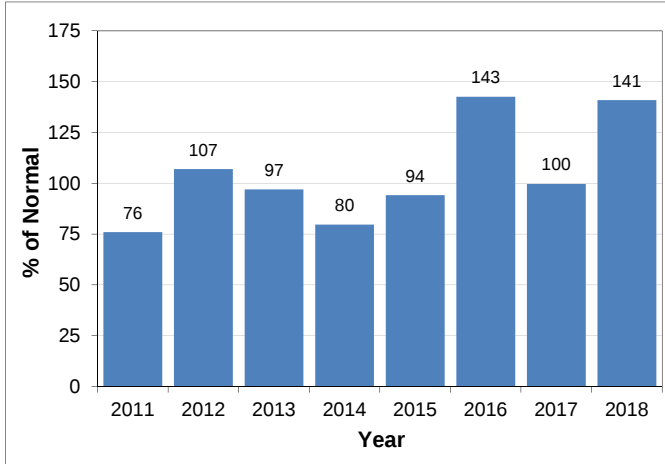


Boundary

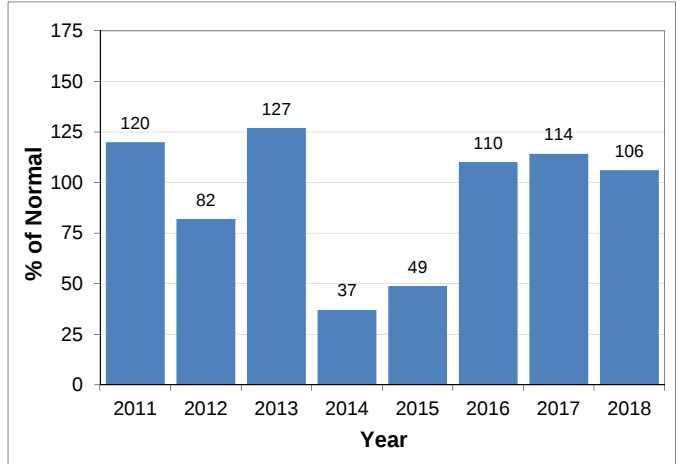


Snow Basin Index Graphs - January 1, 2018

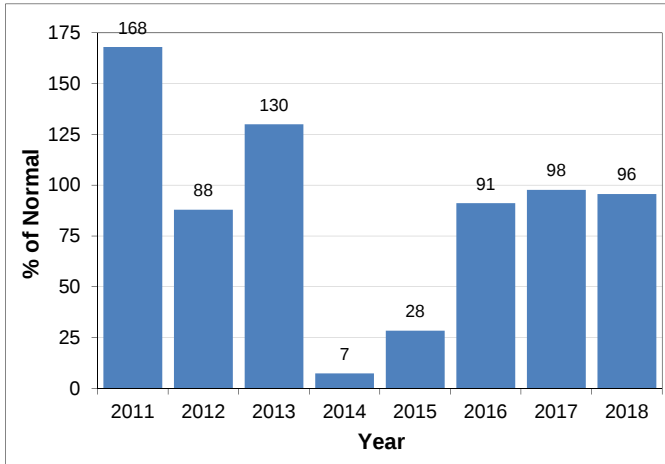
Similkameen



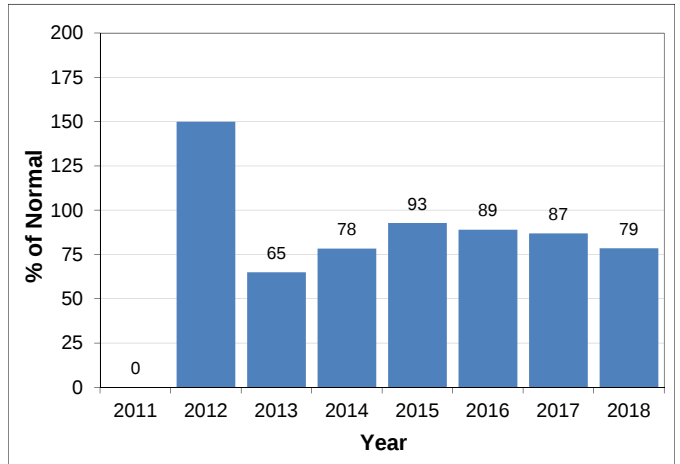
South Coast



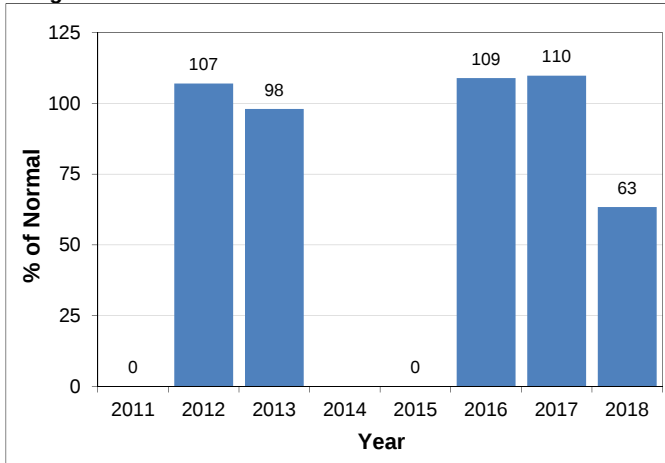
Vancouver Island



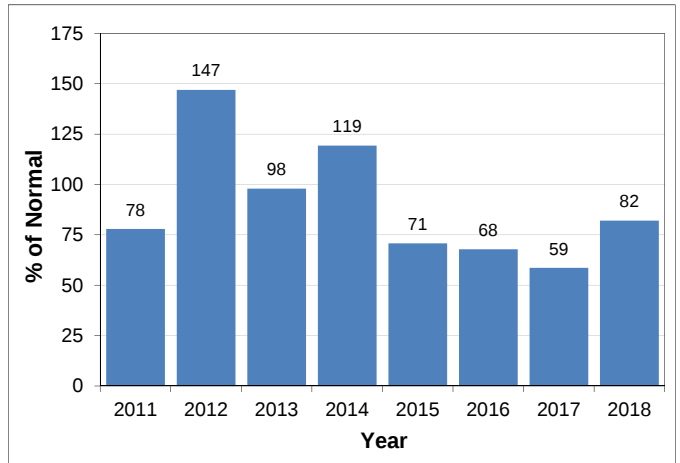
Central Coast



Skagit

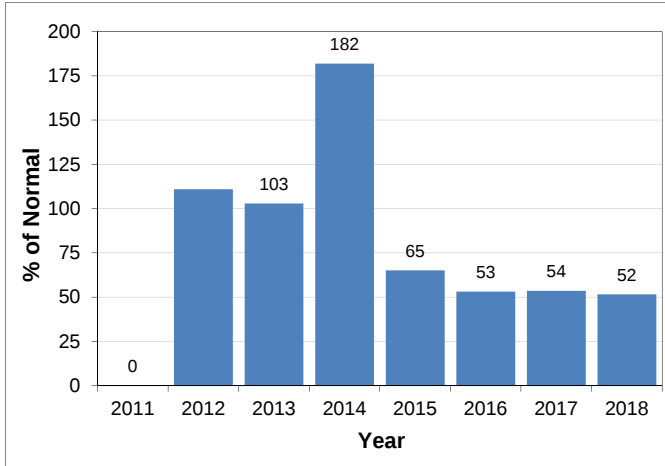


Peace

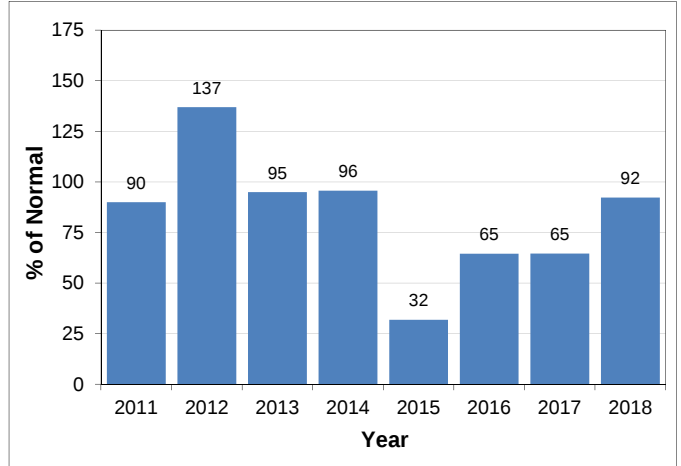


Snow Basin Index Graphs - January 1, 2018

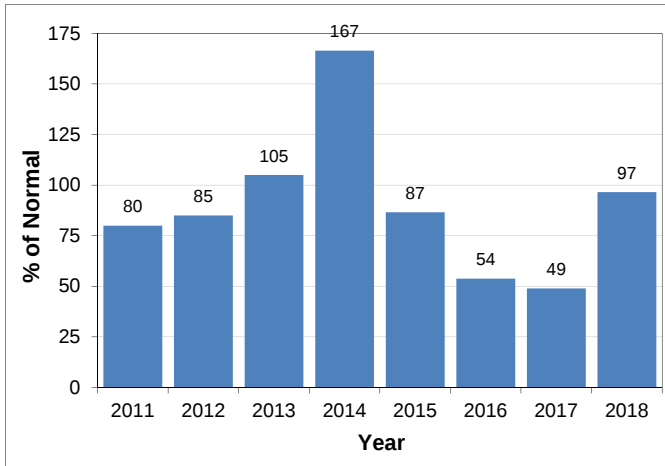
Stikine



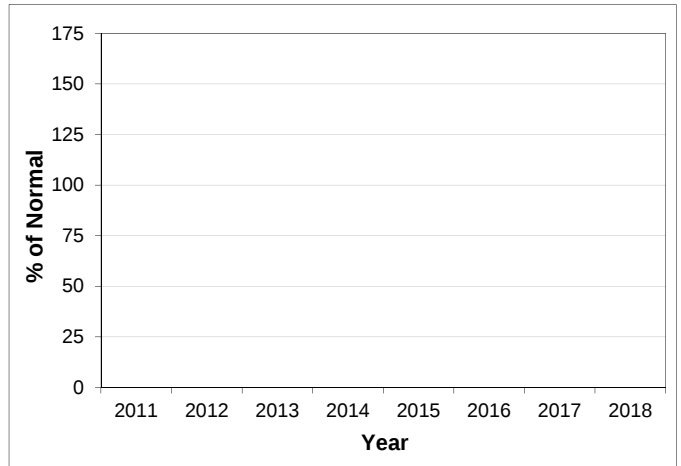
Skeena-Nass



Liard



Northwest



Snow Survey and Water Supply Bulletin – February 1st, 2018

The February 1st snow survey is now complete. Data from 86 snow courses and 69 automated snow weather stations around the province, collected by the Ministry of Environment Snow Survey Program and partners, and climate data from Environment and Climate Change Canada have been used to form the basis of the following report¹.

Weather

January weather patterns affecting British Columbia were mixed. Generally, the month featured above-normal (+0.5 to 2.0°C) temperatures across most of the province, with areas of warmer temperatures in the Kootenays. The first half of the month was mild with light precipitation and subdued snow accumulation. Several significant storm events affected the province in the second half of January, especially for the southern half of the province. An atmospheric river in late January created flood conditions on Vancouver Island. January precipitation totals were well above normal for the southern half of BC, while the Northwest and North Coast regions were below normal.

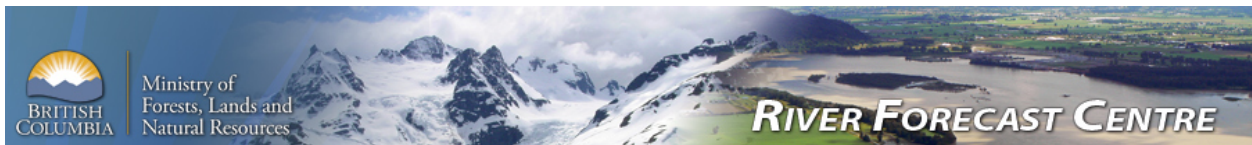
Snowpack

Snow basin indices for February 1st 2018 range from a low of 51% of normal in the Northwest to a high of 165% in the Skagit (Table 1 and Figure 1). Overall, the province has a slightly-above normal snow pack for February 1st, with the average of all snow measurements across the province at 108%, increasing significantly from 96% of normal on January 1st. Well-below normal snowpack is present in the Stikine (67%) and Northwest (51%). Well-above normal snow pack (>130%) is present in the Okanagan, Similkameen, Lower Fraser, South Coast, Skagit and Vancouver Island. Above normal snow pack (110-120%) is present in the East Kootenay, West Kootenay and Boundary regions. Near normal snowpacks (80-110%) are present throughout the rest of the province. The Fraser River snow index as an entire watershed is 101% of normal.

Table 1 - BC Snow Basin Indices – February 1, 2018

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	92	Boundary	116
Upper Fraser East	101	Similkameen	135
Nechako	84	South Coast	139
Middle Fraser	96	Vancouver Island	148
Lower Fraser	141	Central Coast	82
North Thompson	92	Skagit	165
South Thompson	104	Peace	90
Upper Columbia	101	Skeena-Nass	90
West Kootenay	117	Stikine	67
East Kootenay	115	Liard	84
Okanagan	131	Northwest	51

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, 2018

The persistent unsettled weather in late-January for the southern half of the province increased the snow pack considerably. The most dramatic increases occurred for south coastal regions. Vancouver Island increased from 96% on January 1st to 148% of normal, the South Coast from 106% to 139% of normal, and the Lower Fraser from 99% to 141% of normal.

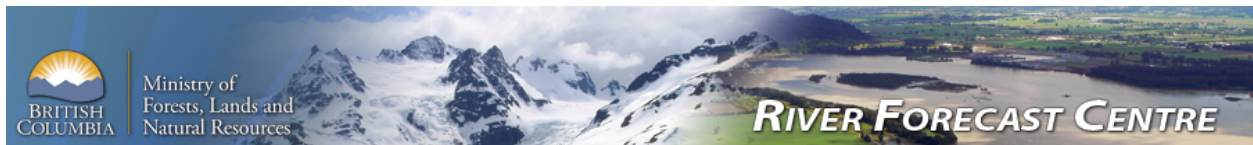
Outlook

La Niña conditions are present, with negative sea surface temperature anomalies across much of the eastern and central sections of the equatorial Pacific Ocean. Over the past month sea surface temperature anomalies have steeply declined in the northern Pacific Ocean off the coast of the BC, with cooler than normal temperatures now dominant. The Climate Prediction Centre (CPC) at the U.S. National Weather Service/NOAA is forecasting a high likelihood of La Niña persisting through the winter, with a transition to ENSO-neutral conditions expected during the spring. Typically, La Niña is linked to cooler winters across British Columbia and snowpacks tend to be higher than normal. Over the past 6 weeks weather patterns have aligned with typical La Niña weather, bringing significant growth to the provincial snow pack.

Seasonal forecasts (February to April) from Environment and Climate Change Canada are indicating an increased likelihood of normal temperatures across western and southern British Columbia and below normal temperatures in south-east and northern BC. Short-to-medium term forecasts are suggesting near normal temperatures through February. A storm event is currently impacting the Interior, Central Coast and North Coast, with significant snow accumulation occurring in many areas.

By early February, nearly two-thirds of the annual BC snowpack has typically accumulated. High snow packs in the South Interior, including the Skagit, Similkameen and Okanagan, may be an early indication of increased seasonal flood risk for the upcoming freshet season. In coastal areas, including Vancouver Island and South Coast flooding on local river systems generally occurs in the fall-winter period, and spring flood risk is minimal. In the Lower Fraser, high snow pack can contribute to increased spring flood risk on the Lillooet River and tributaries, and increased seasonal runoff in the spring can also contribute higher local inflows to the lower reaches of the Fraser River.

Seasonal volume runoff forecasts (see below) are near-normal (85-105%) for the Upper Fraser, Middle Fraser, Thompson and Skeena/Bulkley basins, and well above-normal (>120%) for areas of the South Interior, including the Okanagan, Similkameen and Nicola. Similarly the snowmelt component of seasonal runoff on Vancouver Island, South Coast, Lower Fraser and Skagit is expected to be higher than normal given the high snow pack in those regions. Well below normal snow packs in the North-west and Stikine are an early indication of the potential for below normal seasonal runoff.



Snow Survey and Water Supply Bulletin – February 1st, 2018

While other areas of the province remain below 120% of normal snow pack, the trend in weather patterns and snow accumulation over the past month has been significant, with considerable growth in the snow pack across the province. This pattern has continued into early-February, with recent storm paths having a more northerly track than earlier this season, delivering increased snow accumulation into central and northern BC. Given the current seasonal weather forecasts, and ocean temperature trends, on-going above average snow accumulation appears to be a probable scenario over the remaining period of the snow accumulation season. The amount of snow accumulation and locations which receive the most snow will depend on the on-going weather patterns through the next 2-3 months.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the March 1st 2018 bulletin, which is scheduled for release on March 8th.

BC River Forecast Centre
February 7, 2018

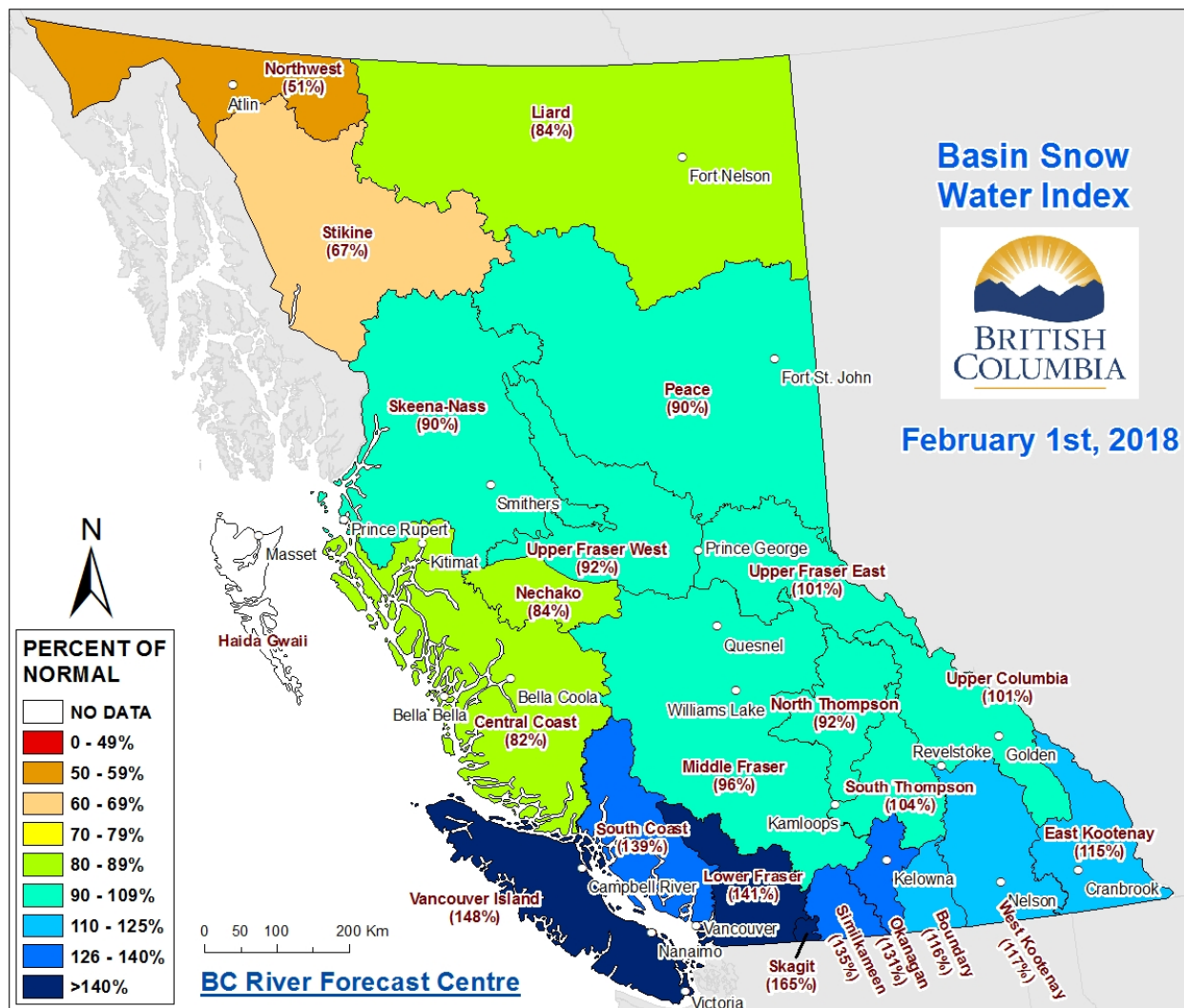


Ministry of
Forests, Lands and
Natural Resources

RIVER FORECAST CENTRE

Snow Survey and Water Supply Bulletin – February 1st, 2018

Figure 1: Basin Snow Water Index – February 1st, 2018



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.

2018 Automated Snow Weather Station/Manual Snow Survey Data				February					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	Yellowhead Lake	Upper Fraser East	1847	2018-02-01	140	397		100%	258	322	233	596	396	21
1A02P	McBride Upper	Upper Fraser East	1608	2018-02-01	109	275		90%	212	248	195	522	306	26
1A03P	Barkerville	Upper Fraser East	1483	2018-02-01	74	173		81%	168	173	116	368	214	42
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	N	N	N	N		346	426	236	1042	559	46
1A05P	Longworth Upper	Upper Fraser East	1740	2018-02-01	160	444			296		296	296		1
1A06A	HANSARD	Upper Fraser East	622	NS	NS	NS	NS				112	326	180	20
1A10	PRINCE GEORGE A	Upper Fraser East	684	2018-01-31	35	61	0	64%	44	106	0	224	96	56
1A11	PACIFIC LAKE	Upper Fraser East	756	2018-02-04	192	521	0	121%	312	221	165	679	430	50
1A12	KAZA LAKE	Upper Fraser West	1247	N	N	N	N		147	161	125	440	240	50
1A12P	Kaza Lake	Upper Fraser West	1248	2018-02-01	101	228			169	164	164	169		2
1A14P	Hedrick Lake	Upper Fraser East	1118	2018-02-01	171	435		83%		282	214	934	524	17
1A15	KNUDSEN LAKE	Upper Fraser East	1598	2018-02-04	215	687	0	124%	367	362	284	899	554	47
1A15P	Knudsen Lake	Upper Fraser East	1601	2018-02-01	201	415			445		445	445		1
1A16	BURNS LAKE	Upper Fraser West	820	2018-02-01	57	104	0	94%	60	70	44	232	111	48
1A17P	Revolution Creek	Upper Fraser East	1676	2018-02-01	179	498		87%	330	461	295	1042	574	33
1A19P	Dome Mountain	Upper Fraser East	1768	2018-02-01		328		65%	308	378	298	853	501	12
1A23	BIRD CREEK	Upper Fraser West	1196	N	N	N	N		82	108	56	220	103	28
1B01	MOUNT WELLS	Nechako	1489	N	N	N	N		364	267	188	606	365	34
1B01P	Mount Wells	Nechako	1489	2018-02-01		363		88%	408	290	210	656	411	26
1B02	TAHTSA LAKE	Nechako	1319	2018-02-05	210	530	0	62%	875	612	508	1442	853	66
1B02P	Tahtsa Lake	Nechako	1319	2018-02-01		894		96%	979	789	464	1532	929	26
1B05	SKINS LAKE	Nechako	877	N	N	N	N		67	89	35	224	83	51
1B06	MOUNT SWANNELL	Nechako	1596	N	N	N	N		199	178	88	353	211	29
1B07	NUTLI LAKE	Nechako	1502	N	N	N	N		414	262	218	729	378	27
1B08P	Mount Pondosy	Nechako	1413	2018-02-01		526		91%	655	460	273	877	578	26
1C01	BROOKMERE	Middle Fraser	994	NS	NS	NS	NS				41	297	142	46
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	2018-02-06	156	453	0	114%	346	280	150	645	397	66
1C05P	McGillivray Pass	Middle Fraser	1766	2018-02-01		484								
1C06	PAVILION	Middle Fraser	1209	NS	NS	NS	NS				0	130	49	38
1C08	NAZKO	Middle Fraser	1029	2018-02-01	25	52	0	91%	38	51	6	132	57	41
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	NS	NS	NS	NS				20	188	67	26
1C12P	Green Mountain	Middle Fraser	1766	2018-02-01		654		105%	409	603	278	985	620	24
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	NS	NS	NS	NS				204	475	310	12
1C14	BRALORNE	Middle Fraser	1382	2018-02-06	64	166	0	133%	92	190	0	338	125	47
1C14P	Bralorne	Middle Fraser	1382	2018-02-01	46.2	222								
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2018-01-31	75	186	0	84%	160	244	92	384	221	56
1C18P	Mission Ridge	Middle Fraser	1903	2018-02-01		451		113%	341	300	185	794	398	48

1C19	GNAWED MOUNTAIN	Middle Fraser	1617	NS	NS	NS	NS				18	198	76	25
1C20P	Boss Mountain Mine	Middle Fraser	1477	2018-02-01	137	323		79%	271	414	255	611	411	24
1C21	BIG CREEK	Middle Fraser	1130	2018-01-28	29	57	0	116%	16	54	0	94	49	46
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	2018-01-29	32	64	0	123%	32	44	0	126	52	47
1C23	PENFOLD CREEK	Middle Fraser	1687	NS	NS	NS	NS				525	663	663	3
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	2018-02-02	67	151	0	154%	117	154	13	177	98	45
1C28	DUFFEY LAKE	Middle Fraser	1253	NS	NS	NS	NS						0	1
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	2018-02-04	84	241	0	143%	130	163	48	307	169	37
1C32	DEADMAN RIVER	Middle Fraser	1463	NS	NS	NS	NS				50	130	81	8
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	2018-01-30	54	124	0	89%	79	140	79	175	139	12
1C37	BRALORNE(UPPER)	Middle Fraser	1980	N	N	N	N		416		178	724	434	23
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	2018-02-06	206	654	0	101%	588	650	208	980	646	23
1C38P	Downton Lake Upper	Middle Fraser	1829	2018-02-01		560			537	616	537	616		2
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	2018-02-06	183	560	0	126%	416	422	112	688	444	23
1C40	TYAUGHTON	Middle Fraser	1946	N	N	N	N		244	230	128	654	331	22
1C40P	North Tyaughton	Middle Fraser	1969	2018-02-01		355			211	221	211	221		2
1C41P	Yanks Peak East	Middle Fraser	1683	2018-02-01	135	443		78%	405	493	312	803	565	21
1C42	CAVERHILL LAKE	Middle Fraser	1400	NS	NS	NS	NS							
1D06P	Tenquille Lake	Lower Fraser	1669	2018-02-01	307	871		123%	712	735	344	1092	708	17
1D08	STAVE LAKE	Lower Fraser	1211	N	N	N	N		815	715	163	2010	881	49
1D09	WAHLEACH LAKE	Lower Fraser	1395	N	N	N	N		286	271	33	665	364	51
1D09P	Wahleach Lake Upper	Lower Fraser	1408	2018-02-01		683		106%	338	401	246	1061	644	26
1D10	NAHATLATCH RIVER	Lower Fraser	1530	N	N	N	N		765	794	262	1359	833	46
1D16	DICKSON LAKE	Lower Fraser	1147	N	N	N	N		950	576	122	1538	918	25
1D17P	Chilliwack River	Lower Fraser	1621	2018-02-01	296	1105		111%	750	991	368	1659	992	26
1D19P	Spuzzum Creek	Lower Fraser	1197	2018-02-01	301	1181		110%	797	832	300	1902	1074	19
1E01B	BLUE RIVER	North Thompson	673	2018-01-31	90	172	0	70%	202	230	98	380	245	33
1E02P	Mount Cook	North Thompson	1574	2018-02-01	297	817		92%	642	942	642	1098	890	18
1E03A	TROPHY MOUNTAIN	North Thompson	1907	NS	NS	NS	NS						0	
1E05	KNOUFF LAKE	North Thompson	1189	N	N	N	N		82	105	38	229	109	62
1E07	ADAMS RIVER	North Thompson	1769	2018-01-28	165	455	0	100%	450	580	285	654	457	37
1E08P	Azure River	North Thompson	1625	2018-02-01	247	802		99%	722	730	506	1043	814	21
1E10P	Kostal Lake	North Thompson	1760	2018-02-01		483		79%	509	593	417	790	611	33
1E14P	Cook Creek	North Thompson	1280	2018-02-01	158					0	248	589	379	11
1F01A	ABERDEEN LAKE	South Thompson	1262	2018-01-31	68	147	0	137%	108	151	48	193	107	61
1F02	ANGLEMONT	South Thompson	1168	2018-01-31	133	332	0	122%	167	217	130	483	272	59
1F03P	Park Mountain	South Thompson	1857	2018-02-01	215	623		105%		532	331	867	593	32
1F04P	Enderby	South Thompson	1950	2018-02-01	272	712			607		607	607		1
1F06P	Celista Mountain	South Thompson	1533	2018-02-01	225	638		99%	421	679	421	788	643	13
2A01A	CANOE RIVER	Upper Columbia	866	NS	NS	NS	NS		72	128	17	140	74	43
2A02	GLACIER	Upper Columbia	1249	2018-01-28	131	434	0	93%	289	467	241	828	468	77
2A03A	FIELD	Upper Columbia	1310	2018-01-29	57	116	0	94%	87	119	46	233	123	78

2A06P	Mount Revelstoke	Upper Columbia	1770	2018-02-01		822		100%	695	810	464	1190	819	25
2A07	KICKING HORSE	Upper Columbia	1648	2018-01-30	106	254	0	112%	131	178	102	384	227	71
2A11	BEAVERFOOT	Upper Columbia	1924	N	N	N	N		118	170	78	244	142	68
2A14	MOUNT ABBOT	Upper Columbia	2031	2018-01-27	253	840	0	102%	692	810	396	1209	822	59
2A16	GOLDSTREAM	Upper Columbia	1914	2018-02-05	266	781	0	96%	708	736	460	1136	816	51
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	2018-01-28	235	750	0	88%	638	733	430	1376	854	55
2A18	KEYSTONE CREEK	Upper Columbia	1839	2018-02-05	213	577	0	105%	485	534	290	866	548	51
2A18P	Keystone Creek	Upper Columbia	1850	2018-02-01		652			608	638	608	638		2
2A19	VERMONT CREEK	Upper Columbia	1533	N	N	N	N		252	350	102	574	287	51
2A21P	Molson Creek	Upper Columbia	1930	2018-02-01		812		107%	619	632	417	1155	759	37
2A22	SUNBEAM LAKE	Upper Columbia	2066	2018-02-05	247	716	0	114%	559	541	348	886	629	51
2A23	BUSH RIVER	Upper Columbia	1982	N	N	N	N		525		292	902	577	50
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	2018-02-05	288	862	0	104%	739	844	381	1472	827	46
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	2018-02-05	200	486	0	97%	324	480	256	740	501	41
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	2018-02-05	335	1022	0	106%	804		335	1422	965	40
2A30P	Colpitti Creek	Upper Columbia	2131	2018-02-01		682			523	515	515	523		2
2A31P	Caribou Creek Upper	Upper Columbia	2201	2018-02-01		739			570	619	570	619		2
2A32P	Wildcat Creek	Upper Columbia	2122	2018-02-01		428			325	334	325	334		2
2B02A	FARRON	Lower Columbia	1229	2018-01-30	125	318	0	145%	178	275	63	346	219	45
2B05	WHATSHAN (UPPER)	Lower Columbia	1476	2018-01-31	200	517	0	109%	242	428	242	759	475	49
2B06P	Barnes Creek	Lower Columbia	1595	2018-02-01		418		113%	150	377	150	566	369	25
2B07	KOCH CREEK	Lower Columbia	1813	2018-01-31	200	550	0	111%	418	569	203	708	497	57
2B08P	St. Leon Creek	Lower Columbia	1822	2018-02-01		803		105%	579	738	311	1130	767	25
2B09	RECORD MOUNTAIN	Lower Columbia	1906	2018-01-30	206	565	0	117%	440	585	117	802	481	42
2C01	SINCLAIR PASS	East Kootenay	1374	NS	NS	NS	NS				33	208	77	45
2C04	SULLIVAN MINE	East Kootenay	1580	2018-01-30	98	237	0	127%	128	192	46	397	187	72
2C07	FERNIE EAST	East Kootenay	1213	2018-01-30	101	269	0	127%	158	156	51	467	212	66
2C09Q	Morrissey Ridge	East Kootenay	1966	2018-02-01		411		89%	249	439	173	886	463	38
2C10P	Moyie Mountain	East Kootenay	1840	2018-02-01	94	319		112%	216	285	104	518	286	39
2C14P	Floe Lake	East Kootenay	2110	2018-02-01		563		120%	457	434	221	746	471	25
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	N	N	N	N		336	325	140	592	351	49
2C16	MOUNT JOFFRE	East Kootenay	1763	N	N	N	N		146	257	96	439	240	48
2C17	THUNDER CREEK	East Kootenay	2062	N	N	N	N		134	232	69	335	175	47
2D02	FERGUSON	West Kootenay	929	2018-02-03	182	443	0	109%	280	440	237	616	407	45
2D03	SANDON	West Kootenay	1072	NS	NS	NS	NS				328	328	0	3
2D04	NELSON	West Kootenay	952	2018-02-01	116	296	0	112%	142	208	79	508	264	80
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	2018-02-06	143	364	B	120%	185	310	127	511	304	69
2D06	CHAR CREEK	West Kootenay	1290	2018-02-02	168	481	0	130%	218	317	117	650	371	52
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	2018-01-31	62	166	0	126%	104	68	60	283	132	27
2D08P	East Creek	West Kootenay	2004	2018-02-01		659		107%	518	692	274	1012	616	37
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	N	N	N	N		605		409	1115	701	50
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	N	N	N	N		413	514	268	792	497	49

2D14P	Redfish Creek	West Kootenay	2086	2018-02-01	362	939			114%	791	990	667	1067	821	16
2E01	MONASHEE PASS	Kettle	1387	2018-01-31	100	244	0		103%	103	238	103	364	236	58
2E02	CARMI	Kettle	1254	NS	NS	NS	NS					51	196	97	29
2E03	BIG WHITE MOUNTAIN	Kettle	1672	2018-01-31	155	411	0		128%	179	379	178	483	322	50
2E07P	Grano Creek	Kettle	1874	2018-02-01	131	382			116%	245	414	156	476	330	20
2F01A	TROUT CREEK (West)	Okanagan	1430	2018-01-28	70	181	0		123%		153	93	212	147	7
2F01P	Trout Creek West	Okanagan	1420	2018-02-01	77	193									0
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	2018-01-25	89	219	0		140%		196	65	307	156	53
2F03	MC CULLOCH	Okanagan	1266	2018-01-31	78	167	0		143%	91	91	63	196	117	81
2F04	GRAYSTOKE LAKE	Okanagan	1818	2018-02-01	105	248	0		113%		268	128	324	219	17
2F05P	Mission Creek	Okanagan	1794	2018-02-01	136	378			118%	200	353	164	503	320	48
2F07	POSTILL LAKE	Okanagan	1358	N	N	N	N			97	174	73	243	138	68
2F08P	Greyback Reservoir	Okanagan	1550	2018-02-01	81	222				119					0
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2018-02-01	149	435	0		119%	274	539	135	693	366	46
2F10P	Silver Star Mountain	Okanagan	1839	2018-02-01	222	530				359	483	359	483		2
2F11	ISINTOK LAKE	Okanagan	1651	2018-01-29	69	172	0		158%		110	26	307	109	51
2F12	MOUNT KOBAU	Okanagan	1817	2018-01-31	100	269	0		137%	204	295	43	400	196	51
2F13	ESPERON CR (UPPER)	Okanagan	1634	NS	NS	NS	NS					156	457		6
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	NS	NS	NS	NS					146	399	208	12
2F18P	Brenda Mine	Okanagan	1453	2018-02-01		252			101%	159	312	148	368	249	25
2F19	OYAMA LAKE	Okanagan	1365	2018-01-30	81	157	0		132%	80	131	31	193	119	49
2F20	VASEUX CREEK	Okanagan	1403	2018-01-28	61	122	0		140%	54	140	44	208	87	30
2F21	BOULEAU LAKE	Okanagan	1405	NS	NS	NS	NS					168	396	216	10
2F23	MACDONALD LAKE	Okanagan	1742	2018-02-01	141	410	0		150%		408	132	411	273	18
2F24	ISLAHT LAKE	Okanagan	1492	2018-02-01	113	230	0		102%	119	180	119	364	225	35
2F25	POSTILL LAKE UPPER	Okanagan	1500	N	N	N	N				210	120	210		5
2G03P	Blackwall Peak	Similkameen	1934	2018-02-01	226	639			116%	398	624	158	1076	553	50
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	2018-01-30	90	225	B		162%	108	183	70	335	139	57
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2018-01-30	76	184	B		128%	106	149	60	284	144	56
2G06	HAMILTON HILL	Similkameen	1477	2018-01-29	90	241	B		113%	150	144	91	411	213	58
3A01	GROUSE MOUNTAIN	South Coast	1126	2018-02-01	305	1224			161%	988	648	50	1530	761	68
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS	NS	NS	NS							0	
3A05	POWELL RIVER (LOWER)	South Coast	882	NS	NS	NS	NS					620	620	620	3
3A09	PALISADE LAKE	South Coast	898	NS	NS	NS	NS					318	914	616	4
3A10	DOG MOUNTAIN	South Coast	1007	2018-02-02	259	1033			144%	842	598	77	1243	715	34
3A19	ORCHID LAKE	South Coast	1178	2018-01-31	384	1495			134%	998	1000	273	1855	1114	40
3A20	CALLAGHAN CREEK	South Coast	1009	2018-02-01	245	836	0		154%		570	50	1040	542	34
3A22P	Nostetuko River	South Coast	1457	2018-02-01	134	485			132%	266	393	120	780	368	29
3A24P	Mosley Creek Upper	South Coast	1655	2018-02-01	127	308			127%	198	190	106	509	242	29
3A25P	Squamish River Upper	South Coast	1387	2018-02-01	398	1350			124%	858	1016	503	1543	1087	28
3A26	CHAPMAN CREEK	South Coast	1022	2018-01-31	329	1306	0		155%	830		540	1250	844	8
3A27	EDWARDS LAKE	South Coast	1070	N	N	N	N					410	944	168	5

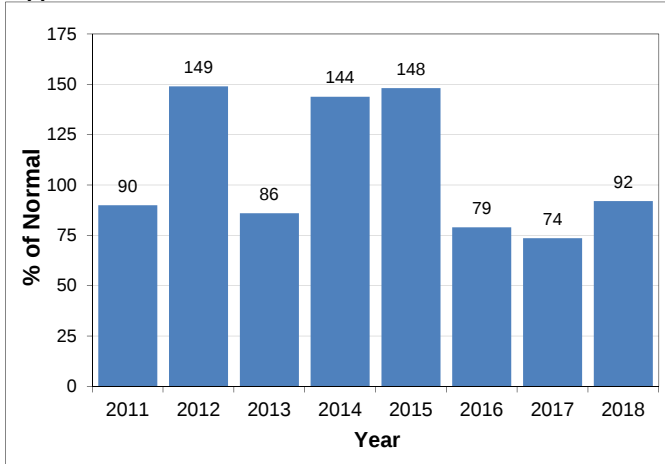
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	2018-01-31	344	1257		136%	791	944	42	1640	922	64
3B02A	MOUNT COKELY	Vancouver Island	1267	NS	NS	NS	NS				234	1050	586	7
3B04	ELK RIVER	Vancouver Island	270	2018-02-01	24	76	0	125%	102	0	0	544	61	62
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	NS	NS	NS	NS				28	1534	285	24
3B17P	Wolf River Upper	Vancouver Island	1422	2018-02-01		1065		124%	689	803	162	1383	858	36
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	N	N	N			336	298	0	742	400	47
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	N	N	N	N		178	208	0	572	244	47
3B23P	Jump Creek	Vancouver Island	1134	2018-02-01	266	1122	E	182%	466	366	0	1367	616	22
3B24P	Heather Mountain Upper	Vancouver Island	1190	2018-02-01	304	1282			878	859	859	878		2
3B26P	Mount Arrowsmith	Vancouver Island	1465	2018-02-01	298	886								0
3C07	WEDEENE RIVER SOUTH	North Coast	196	NS	NS	NS	NS				105	497	304	14
3C08P	Burnt Bridge Creek	North Coast	1329	2018-02-01	156	475		82%	515	460	248	1124	577	20
3D01C	SUMALLO RIVER WEST	Skagit	801	2018-02-02	87	265	0	165%	182	80	0	368	161	26
3D02	LIGHTNING LAKE	Skagit	1254	NS	NS	NS	NS				67	242	154	5
3D03A	KLESILKWA	Skagit	1134	N	N	N			153	140	0	508	180	70
4A02P	Pine Pass	Peace	1386	2018-02-01	241	700		94%	525	529	363	1250	745	29
4A03	WARE (UPPER)	Peace	1563	2018-02-01	91	195		106%	130	114	90	289	184	55
4A03P	Ware Upper	Peace	1565	2018-02-01	86	182			130		130	130		1
4A04	WARE (LOWER)	Peace	969	2018-02-01	73	142		99%		122	63	286	143	54
4A04P	Ware Lower	Peace	971	2018-02-01		168			89		89	89		1
4A05	GERMANSEN (UPPER)	Peace	1489	2018-02-03	116	263		111%	144	189	140	371	237	51
4A06	TUTIZZI LAKE	Peace	1043	2018-02-03	102	206		111%	95	122	95	348	186	50
4A07	LADY LAURIER LAKE	Peace	1460	2018-01-31	128	314		85%	275	224	194	679	369	50
4A09	PULPIT LAKE	Peace	1331	2018-02-01	118	256		82%	208	231	152	530	312	50
4A09P	Pulpit Lake	Peace	1331	2018-02-01	115	218		67%	183	182	133	405	324	28
4A10	FREDRICKSON LAKE	Peace	1323	2018-02-03	98	131		73%	105	105	93	309	179	50
4A11	TRYGVE LAKE	Peace	1409	2018-02-01	100	210		80%	175	160	119	434	264	50
4A12	TSAYDAYCHI LAKE	Peace	1173	2018-02-03	125	307		111%		217	146	507	277	50
4A13	PHILIP LAKE	Peace	1013	2018-02-03	88	180		90%		173	118	355	199	50
4A16	MORFEE MOUNTAIN	Peace	1427	2018-02-03	170	466		78%	373	385	265	952	597	50
4A18	MOUNT SHEBA	Peace	1480	2018-02-04	202	617		109%	447	423	299	932	566	49
4A20	MONKMAN CREEK	Peace	1566	2018-02-04	168	500		133%	344	220	163	775	376	42
4A21	MOUNT STEARNS	Peace	1514	2018-01-31	59	94		91%	117	46	40	196	103	44
4A25	FORT ST. JOHN A	Peace	692	2018-02-05	65	70		88%	72	58	22	154	80	43
4A27P	Kwadacha North	Peace	1554	2018-02-01		221			137		137	137		1
4A30P	Aiken Lake	Peace	1061	2018-02-01	63	124		64%	122	111	90	330	193	33
4A31P	Crying Girl Prairie	Peace	1358	2018-02-01		190			165	100	100	165		2
4A33P	Muskwa-Kechika	Peace	1196	2018-02-01		81			84	23	23	84		2
4A34P	Dowling Creek	Peace	1456	2018-02-01		574			661		661	661		1
4B01	KIDPRICE LAKE	Skeena-Nass	1415	N	N	N	N		725	403	420	1220	664	64
4B02	JOHANSON LAKE	Skeena-Nass	1480	2018-02-03	103	176	0	83%	133	130	108	355	211	50
4B03A	HUDSON BAY MTN.	Skeena-Nass	1452	2018-01-29	123	364	E	101%	326	210	168	665	361	46

4B04	CHAPMAN LAKE	Skeena-Nass	1485	NS	NS	NS	NS						0	
4B06	TACHEK CREEK	Skeena-Nass	1133	N	N	N	N		120		99	298	156	20
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	NS	NS	NS	NS				264	264	0	2
4B08	MOUNT CRONIN	Skeena-Nass	1491	NS	NS	NS	NS						0	
4B10	NINGUNSAW PASS	Nass	647	NS	NS	NS	NS		178		171	603	312	42
4B11A	BEAR PASS	Nass	437	2018-01-30	115	340	0	75%	270		192	821	455	31
4B12P	Granduc Mine	Skeena-Nass	790	2018-02-01	325		E		80		80	80		1
4B13A	TERRACE A	Skeena-Nass	219	2018-02-02	60	146	0	114%	22	84	0	330	128	37
4B14	EQUITY MINE	Skeena-Nass	1434	NS	NS	NS	NS				174	444	265	15
4B15	LU LAKE	Skeena-Nass	1296	NS	NS	NS	NS				134	352	214	15
4B15P	Lu Lake	Skeena-Nass	1308	2018-02-01	80	218		114%	213	163	90	351	192	20
4B16P	Shedin Creek	Skeena-Nass	1320	2018-02-01	155	384		62%	324	262	195	878	617	22
4B17P	Tsai Creek	Skeena-Nass	1360	2018-02-01	198	644		78%	640	423	302	1489	827	20
4B18P	Cedar-Kiteen	Skeena-Nass	912	2018-02-01					297	233	178	856	486	17
4C01	SIKANNI LAKE	Liard	1390	2018-02-01	84	162	0	84%	95	106	78	325	193	50
4C01P	Sikanni Lake	Liard	1400	2018-02-01	103	237			93		93	93		1
4C02	SUMMIT LAKE	Liard	1291	NS	NS	NS	NS		60	61	36	146	91	21
4C03	DEASE LAKE	Liard	805	NS	NS	NS	NS				36	218	101	51
4C05	FORT NELSON AIRPORT	Liard	368	2018-02-05	45	51	0	67%	60	54	35	128	76	51
4C15	JADE CITY	Liard	943	N	N	N	N			106	102	260	165	14
4D01	TELEGRAPH CREEK	Stikine	490	NS	NS	NS	NS				51	244	110	22
4D02	ISKUT	Stikine	931	NS	NS	NS	NS				30	162	82	41
4D11P	Kinaskan Lake	Stikine	1020	2018-02-01	43	113		39%	188	130	94	194	288	22
4E02B	ATLIN LAKE	Yukon	730	2018-01-30	28	50	0							

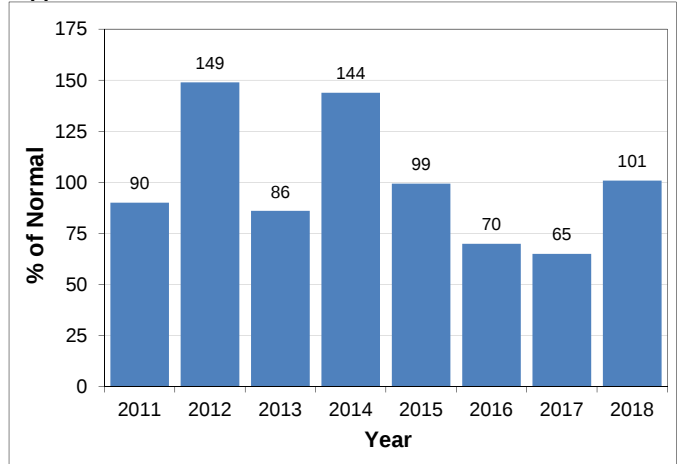
Code	Description
A	Sampling problems were encountered
B	Early or late sampling
C	Early or late sampling w/problems encountered
E	Estimate
N	Scheduled, but not sampled
NA	Not available
NS	Not scheduled
SD	Snow Depth
SWE	Snow Water Equivalent
T	Trace Amount

Snow Basin Index Graphs - February 1, 2018

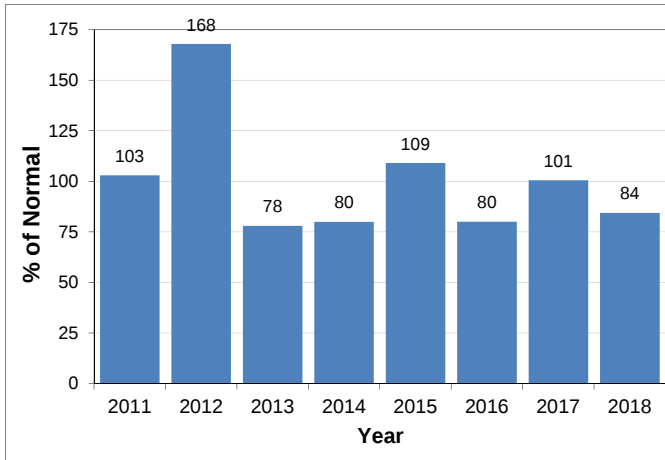
Upper Fraser West



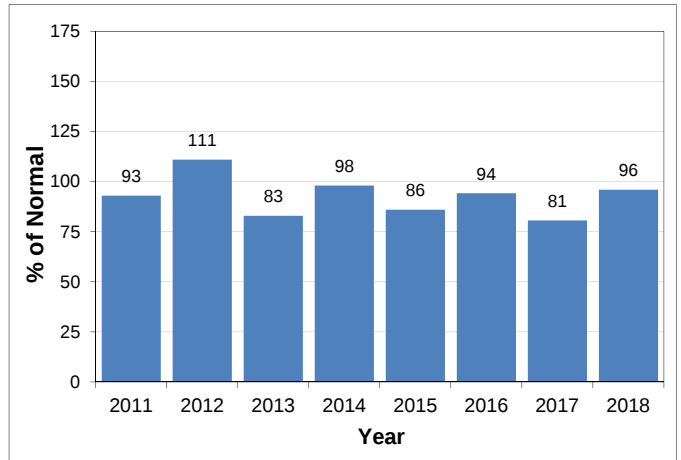
Upper Fraser East



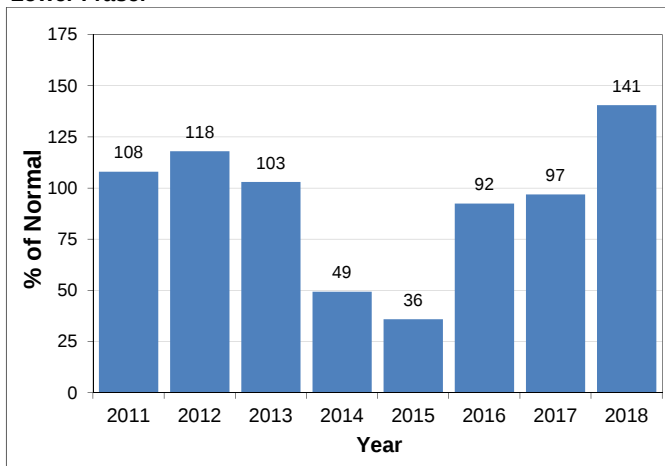
Nechako



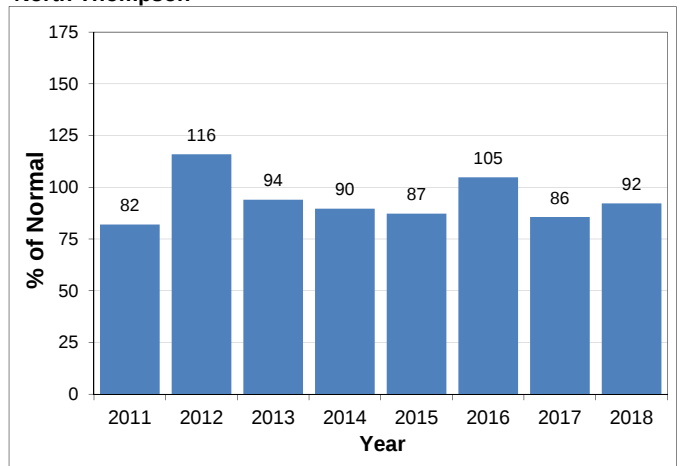
Middle Fraser



Lower Fraser

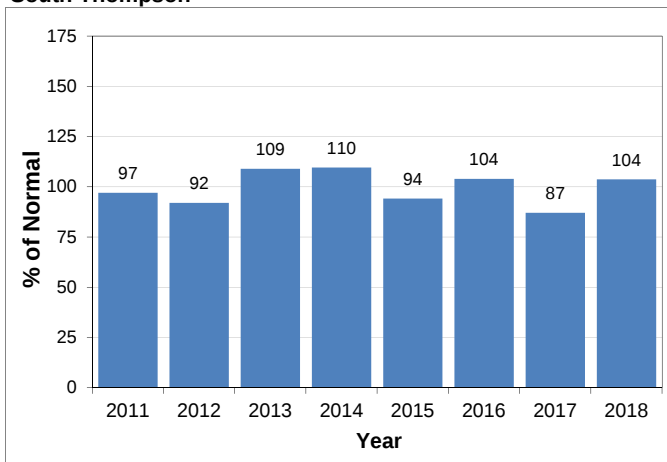


North Thompson

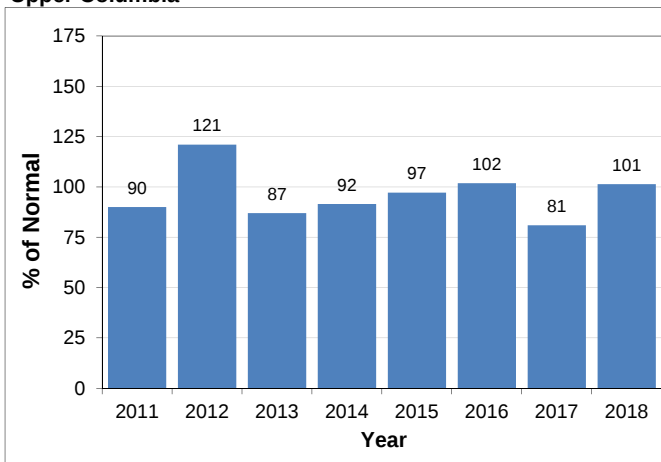


Snow Basin Index Graphs - February 1, 2018

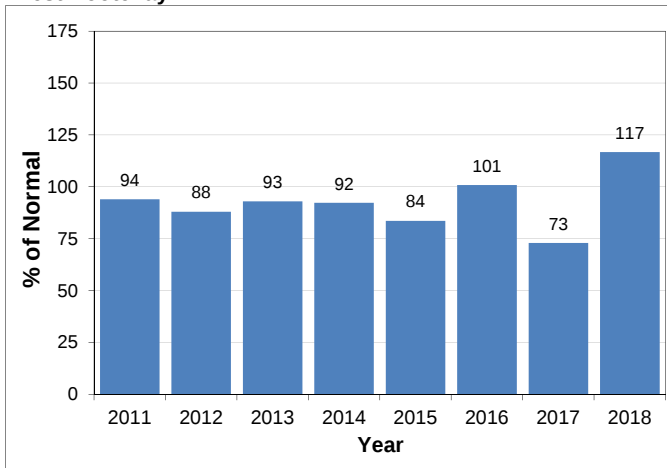
South Thompson



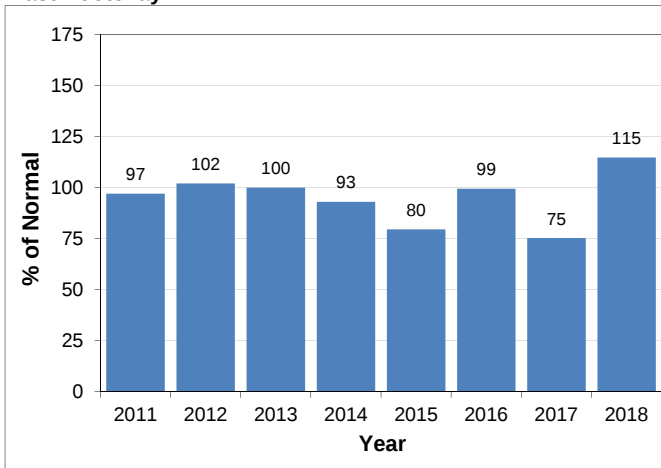
Upper Columbia



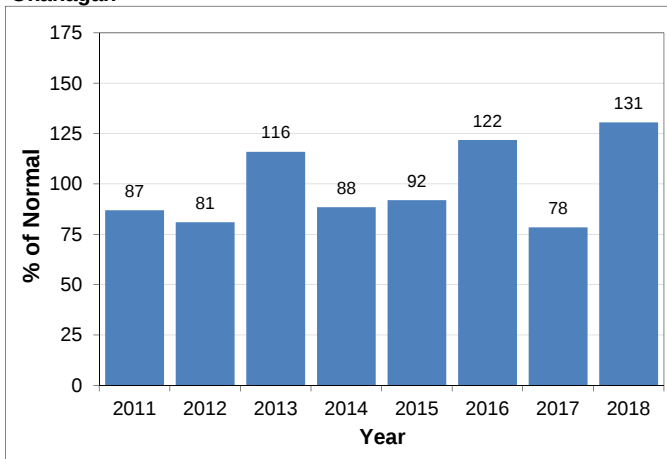
West Kootenay



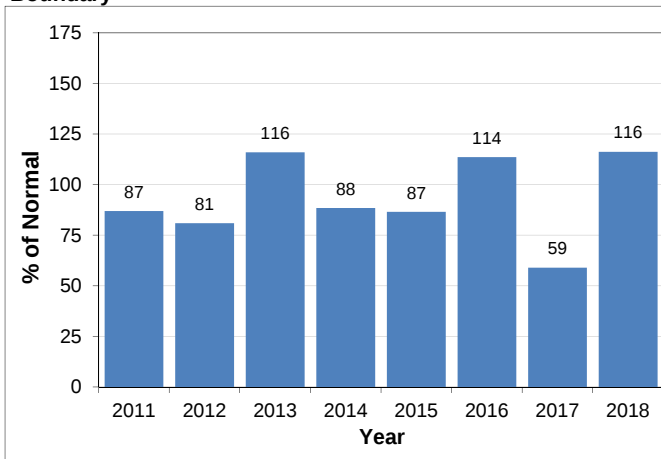
East Kootenay



Okanagan

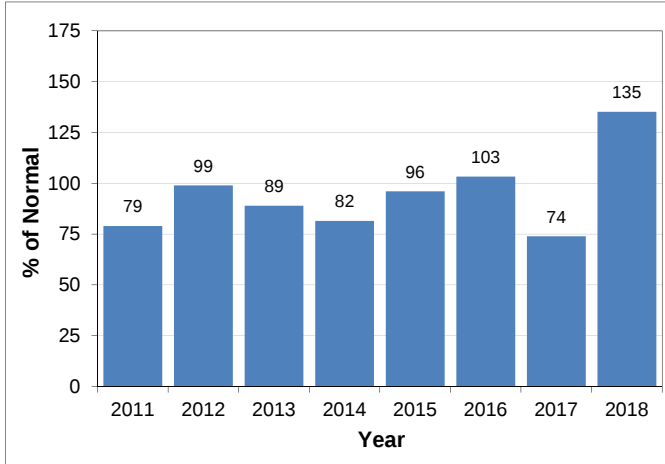


Boundary

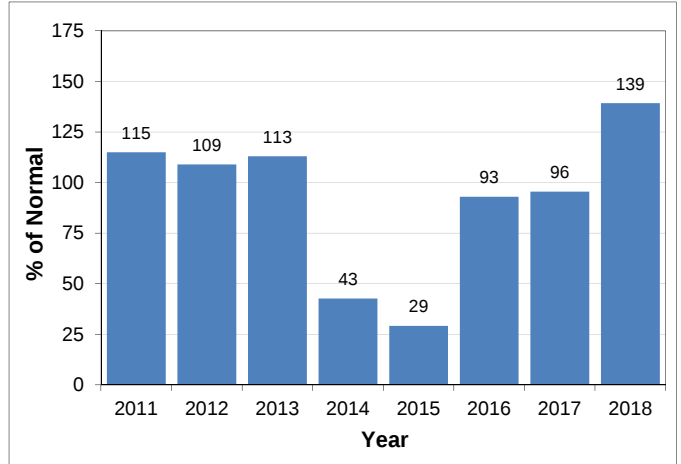


Snow Basin Index Graphs - February 1, 2018

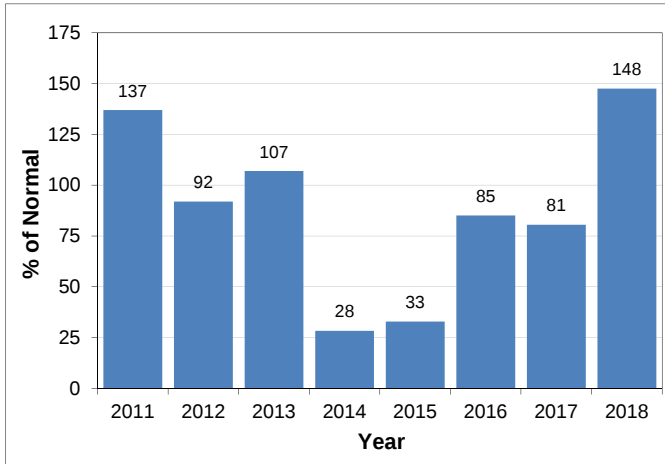
Similkameen



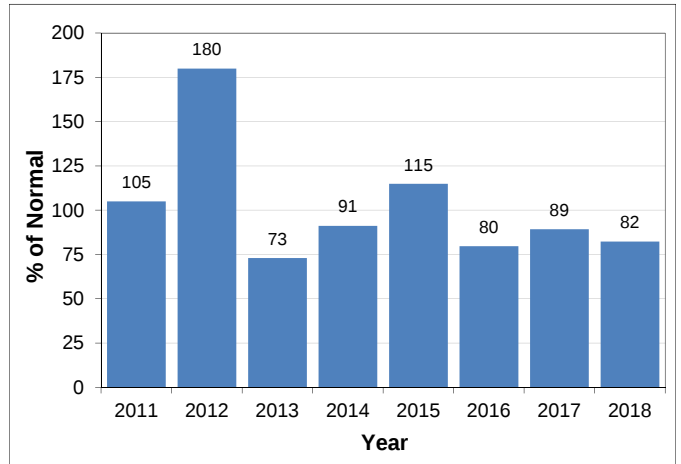
South Coast



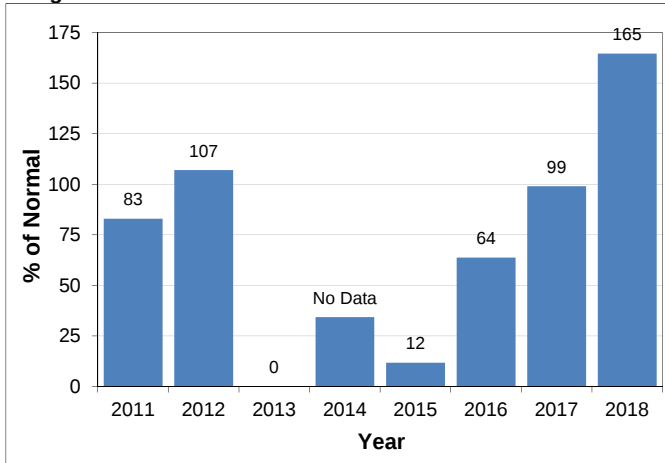
Vancouver Island



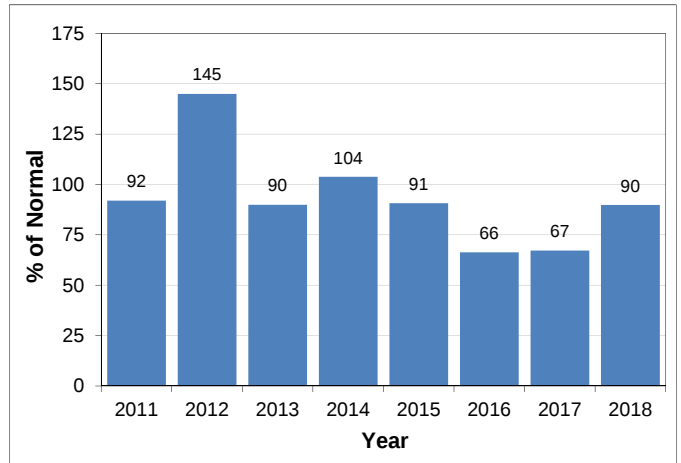
Central Coast



Skagit

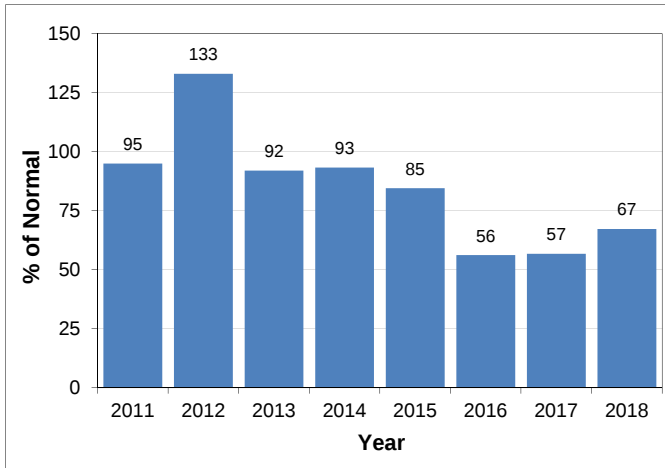


Peace

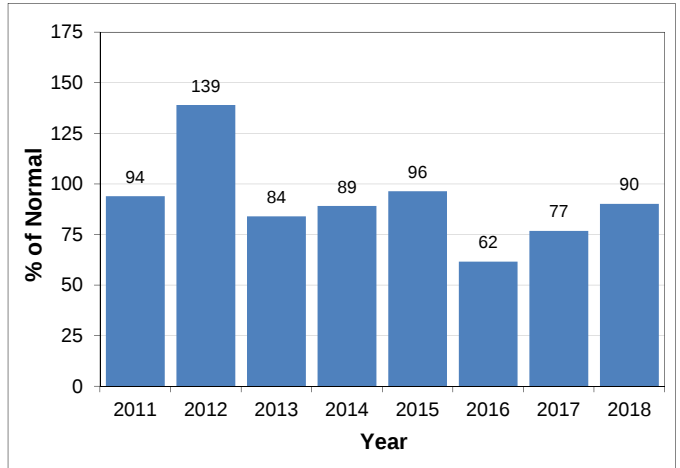


Snow Basin Index Graphs - February 1, 2018

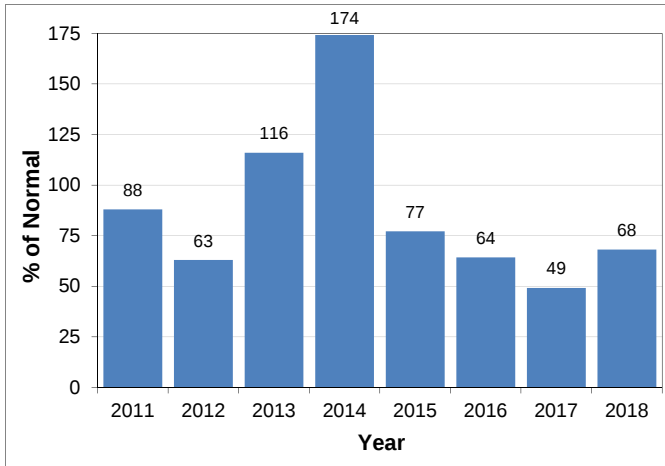
Stikine



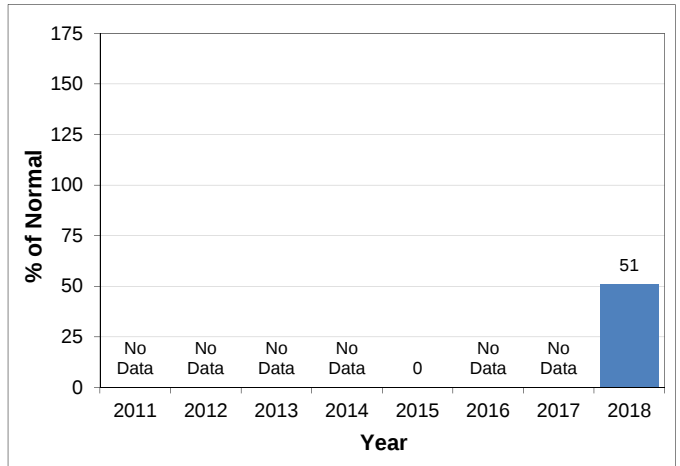
Skeena-Nass



Liard



Northwest



Ministry of Forests, Lands and Natural Resource Operations
River Forecast Centre
Volume Runoff Forecast February 2018

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					3794	3858	98	333	5300	5325	100	396
	McGregor at Lower Canyon					4230	4185	101	553	5322	5231	102	672
	Fraser at Shelley					17173	16786	102	1716	21337	20845	102	2033
Middle Fraser Basin	Quesnel River at Quesnel					4687	4930	95	551	6015	6261	96	661
Thompson Basin	N. Thompson at McLure					8299	9411	88	710	9837	11580	85	925
	S. Thompson at Chase					6303	6389	99	650	7908	7956	99	940
	Thompson at Spences Bridge					16149	16353	99	1381	19903	20333	98	1775
Bulkley and Skeena	Bulkley at Quick					2623	2784	94	1655	3222	3381	95	2173
	Skeena at Usk					19889	19604	101	1553	23227	23948	97	2123
Nicola Lake	Inflows	136	131	104	33	169	148	114	38				
Nicola River	at Spences Bridge	842	549	153	100	978	616	159	123				
Okanagan and Kalamalka-Wood Lake	Okanagan Lake with Greyback (2F08)	675	488	138	99	728	515	141	120				
	Kalamalka-Wood Lake	43.0	33.1	130	12.8	46.0	34.5	133	15.1				
Similkameen River	at Nighthawk	1762	1391	127	166					2185	1701	128	196
	at Hedley	1421	1080	132	139					1701	1268	134	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

Snow Survey and Water Supply Bulletin – March 1st, 2018

The March 1st, 2018 snow survey is now complete. Data from 133 snow courses and 78 automated snow weather stations around the province, collected by the Ministry of Environment Snow Survey Program and partners, and climate data from Environment and Climate Change Canada forms the basis of the following report¹.

Weather

The weather in February was very cold with high precipitation for most of the province. Temperatures in the Interior were well below normal (-2 to -7 °C). Temperatures were not as cold on Vancouver Island or the South Coast, and ranged from normal to slightly below normal (0 to -2 °C). Precipitation was well above normal for most locations in the Interior. A major snow storm affected a large area of the province in the first week of February, and several moderate storms continued to add to the Interior snow pack. Conditions were drier than normal on Vancouver Island and the South Coast.

Snowpack

Snow basin indices for March 1st 2018 range from a low of 68% of normal in the Stikine to a high of 144% in the Similkameen (Table 1 and Figure 1). Overall, the province has an above normal snow pack for March 1st. The average of all snow measurements across the province is 119% of normal, increasing significantly from 108% of normal on February 1st. A well-below normal snow pack is present in the Stikine (68%) and Northwest (73%). Near normal snow packs (80-110%) have accumulated in the Liard, Peace, Skeena-Nass, Nechako, North Thompson and Upper Fraser East. Above normal snow packs (110-130%) are present in the Lower Fraser, South Thompson, Upper Columbia, West Kootenay, South Coast, Vancouver Island and Central Coast. Well-above normal snow packs (>130%) are present in the Upper Fraser West, Okanagan, Similkameen, Boundary and Skagit. The Fraser River snow index as an entire watershed is 110% of normal.

Table 1 - BC Snow Basin Indices – March 1, 2018

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	138	Boundary	136
Upper Fraser East	108	Similkameen	144
Nechako	95	South Coast	128
Middle Fraser	108	Vancouver Island	122
Lower Fraser	122	Central Coast	113
North Thompson	105	Skagit	135
South Thompson	111	Peace	90
Upper Columbia	112	Skeena-Nass	87
West Kootenay	127	Stikine	68
East Kootenay	120	Liard	80
Okanagan	141	Northwest	73

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, 2018

Several large storm systems affected the North Coast and Interior in February, considerably increasing the snow pack. Most snow packs in the North Coast and Interior increased by 10% or more from February 1st values. Drier weather on Vancouver Island and the South Coast dropped snow pack indices by 10-30% of normal compared to February 1st.

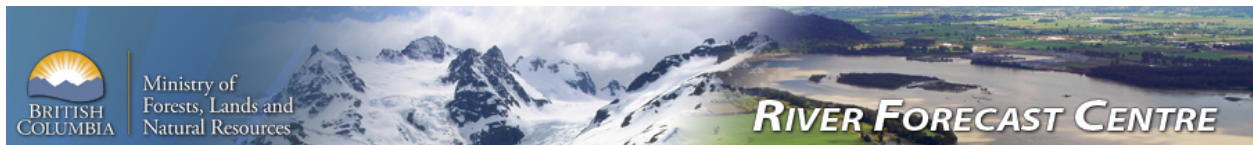
Outlook

La Niña conditions in the equatorial Pacific Ocean have eased over the past month. The Climate Prediction Centre (CPC) at the U.S. National Weather Service/NOAA is forecasting a high likelihood transitioning to ENSO-neutral conditions into the spring. While La Niña is waning, it is not uncommon for the effects of La Nina to persist several months beyond the period of the defined La Niña event. For example, snow packs in previous La Niña events in British Columbia tended to grow more rapidly than normal through the March and April periods. Province-wide snow basin indices during La Niña years tend to increase by 3-5% over the March 1st to April 1st period, and increase by 5-10% over March 1st to May 1st. While there is still uncertainty over how weather patterns will play out over the next few months, continued increases in snow basin indices into April and May are likely to occur, given this year's La Niña context

Seasonal forecasts (March to May) from Environment and Climate Change Canada indicate an increased likelihood of normal temperatures across most of British Columbia. Short-to-medium term forecasts suggest some warming through the end of the current week, and a transition to cooler and wetter weather into the middle of the month.

Nearly 80% of the annual BC snow pack typically accumulates by early March. Very high snow packs (>135%) in the South Interior (including the Skagit, Similkameen, Okanagan, Boundary and Upper Fraser West), and high snow packs (>120%) in the Kootenay indicate an increased seasonal risk of flooding. Given this year's La Niña conditions, it is unlikely that the risk will ease much prior to the melt season. While the snow pack in the overall Fraser River basin is moderately above normal (110%), a high snow pack (122%) in the Lower Fraser, can contribute to increased spring flood risk on the Lillooet River and tributaries; increased seasonal runoff in the spring can also contribute higher local inflows to the lower reaches of the Fraser River. Given the potential for increasing snow packs over the next 4-8 weeks, there is the possibility of increasing seasonal flood risk in other areas of the province.

Seasonal volume runoff forecasts (see below) are near-normal (95-110%) for the Upper Fraser, Middle Fraser, Thompson and Skeena/Bulkley basins, and well above-normal (>130%) for areas of the South Interior, including the Okanagan, Similkameen and Nicola. Similarly, the snowmelt component of seasonal runoff on Vancouver Island, South Coast, Lower Fraser and Skagit is expected to be higher than normal given the high snow pack in those regions. Below normal snow packs in the North-west and Stikine are an early indication of the potential for below normal seasonal runoff.



Snow Survey and Water Supply Bulletin – March 1st, 2018

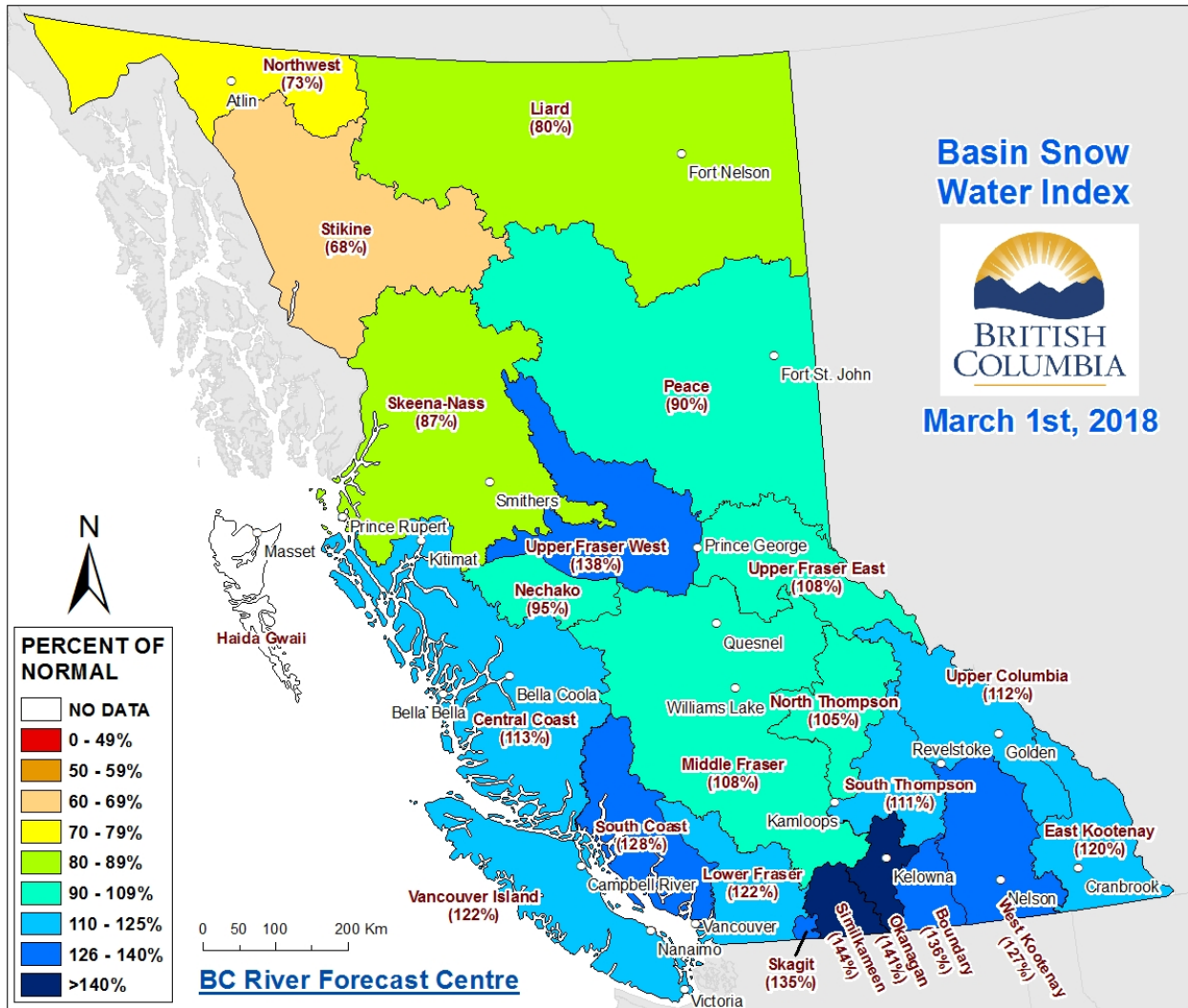
Snow pack is one element of seasonal flood risk during BC's freshet season. Weather patterns during the snow melt season play a critical role in whether or not flooding occurs. Intense or prolonged rainfall and extreme temperatures are important factors that can lead to flooding, even for areas with a near normal snow pack.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the April 1st 2018 bulletin, which is scheduled for release on April 9th.

BC River Forecast Centre
March 8, 2018

Snow Survey and Water Supply Bulletin – March 1st, 2018

Figure 1: Basin Snow Water Index – March 1st, 2018



2018 Automated Snow Weather Station/Manual Snow Survey Data				March					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	Yellowhead Lake	Upper Fraser East	1847	2018-03-01	156	495		111%	321	398	254	720	445	21
1A02P	McBride Upper	Upper Fraser East	1608	2018-03-01	111	398		107%	275	338	198	562	372	26
1A03P	Barkerville	Upper Fraser East	1483	2018-03-01	127	290		99%	203	218	123	479	292	43
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	N	N	N	N		N		296	1104	676	63
1A05P	Longworth Upper	Upper Fraser East	1740	2018-03-01	260	654			379		379	379		1
1A06A	HANSARD	Upper Fraser East	622	2018-03-01	83	191		112%	101	64	44	396	170	45
1A10	PRINCE GEORGE A	Upper Fraser East	684	N	N	N	N		55	83	0	296	117	56
1A11	PACIFIC LAKE	Upper Fraser East	756	2018-02-26	248	660		121%	341	321	165	866	546	55
1A12	KAZA LAKE	Upper Fraser West	1247	2018-02-27	115	287		97%	162	257	132	478	295	54
1A12P	Kaza Lake	Upper Fraser West	1248	2018-03-01	110	269			199	257	199	257		2
1A14P	Hedrick Lake	Upper Fraser East	1118	2018-03-01	258	627		96%		366	214	1066	654	17
1A15	KNUDSEN LAKE	Upper Fraser East	1598	2018-02-26	254	787		114%	457	531	404	1098	692	48
1A15P	Knudsen Lake	Upper Fraser East	1601	2018-03-01		541			599		599	599		1
1A16	BURNS LAKE	Upper Fraser West	820	2018-02-28	84	200		154%	72	98	50	250	130	48
1A17P	Revolution Creek	Upper Fraser East	1676	2018-03-01	249	679		101%	398	621	326	1133	674	33
1A19P	Dome Mountain	Upper Fraser East	1768	2018-03-01		534		87%	405	502	298	912	611	12
1A23	BIRD CREEK	Upper Fraser West	1196	2018-03-02	123	296		226%	98	126	72	232	131	28
1B01	MOUNT WELLS	Nechako	1489	2018-03-02	206	531		117%	426	323	244	954	452	66
1B01P	Mount Wells	Nechako	1489	2018-03-01		533		113%	475	362	227	739	470	26
1B02	TAHTSA LAKE	Nechako	1319	2018-02-27	268	865		84%	961	866	571	1777	1034	66
1B02P	Tahtsa Lake	Nechako	1319	2018-03-01		1113		100%	1076	960	464	1725	1108	26
1B05	SKINS LAKE	Nechako	877	2018-02-27	82	176		171%	75	88	53	226	103	53
1B06	MOUNT SWANNELL	Nechako	1596	2018-03-02	130	314		125%	222		132	446	252	29
1B07	NUTLI LAKE	Nechako	1502	2018-03-02	176	444		97%	483	342	229	779	460	27
1B08P	Mount Pondosy	Nechako	1413	2018-03-01		692		101%	699	593	363	995	686	26
1C01	BROOKMERE	Middle Fraser	994	2018-02-28	80	229		137%	174	148	53	351	167	73
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	2018-02-26	150	467		95%	468	406	222	1016	492	66
1C05P	McGillivray Pass	Middle Fraser	1766											
1C06	PAVILION	Middle Fraser	1209	2018-03-05	46	94		162%	70	60	0	168	58	61
1C08	NAZKO	Middle Fraser	1029	2018-03-01	57	112		175%	45	63	0	142	64	43
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	2018-03-05	67	156		203%	N	106	25	229	77	50
1C12P	Green Mountain	Middle Fraser	1766	2018-02-26	196	685		91%	574	758	429	1265	751	24
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	N	N	N	N		280	444	238	624	428	47
1C14	BRALORNE	Middle Fraser	1382	2018-02-26	65	171		115%	169	80	0	363	149	54
1C14P	Bralorne	Middle Fraser	1382											
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2018-03-02	106	258		97%	181	360	141	468	266	57
1C18P	Mission Ridge	Middle Fraser	1903	2018-03-01		557		117%	481	375	160	866	475	48

2018 Automated Snow Weather Station/Manual Snow Survey Data				March					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	2018-03-01	79	191		199%	N	111	15	259	96	49
1C20P	Boss Mountain Mine	Middle Fraser	1477	2018-03-01	189	504		103%	327	572	255	739	487	24
1C21	BIG CREEK	Middle Fraser	1130	2018-02-27	46	94		196%	40	46	0	112	48	47
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	2018-02-28	46	72		131%	46	44	0	128	55	48
1C23	PENFOLD CREEK	Middle Fraser	1687	NS	NS	NS	NS		N	778	453	1132	807	42
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	2018-02-27	81	194		162%	132	178	13	213	120	45
1C28	DUFFEY LAKE	Middle Fraser	1253	2018-03-05	264	680	A	159%	366	434	194	762	428	40
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	2018-02-27	104	298		138%	221	188	100	398	216	37
1C32	DEADMAN RIVER	Middle Fraser	1463	N	N	N	N		110	170	44	220	100	34
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	2018-02-27	91	196		113%	N	154	116	211	173	11
1C37	BRALORNE(UPPER)	Middle Fraser	1980	N	N	N	N		550	560	268	944	543	23
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	2018-02-26	186	652		88%	654	782	302	1250	737	23
1C38P	Downton Lake Upper	Middle Fraser	1829	2018-03-01		626			667	685	667	685		2
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	2018-02-26	172	576		113%	516	584	146	954	508	23
1C40	TYAUGHTON	Middle Fraser	1946	2018-02-26	143	454		114%	332		138	916	399	23
1C40P	North Tyaughton	Middle Fraser	1969	2018-03-01		422			291	267	267	291		2
1C41P	Yanks Peak East	Middle Fraser	1683	2018-03-01	241	727		111%	488	661	365	904	655	21
1C42	CAVERHILL LAKE	Middle Fraser	1400	2018-03-01	113	280			148	246	60	270		13
1D06P	Tenquille Lake	Lower Fraser	1669	2018-03-01	307	1003		124%	912	945	518	1227	810	17
1D08	STAVE LAKE	Lower Fraser	1211	2018-03-03	378	1417		120%	1030	1026	120	2500	1178	51
1D09	WAHLEACH LAKE	Lower Fraser	1395	2018-03-03	158	463		99%	368	374	37	1072	468	51
1D09P	Wahleach Lake Upper	Lower Fraser	1408	2018-03-01		927		110%	430	565	251	1320	846	26
1D10	NAHATLATCH RIVER	Lower Fraser	1530	N	N	N	N		939	1028	400	2380	1092	49
1D16	DICKSON LAKE	Lower Fraser	1147	2018-03-04	432	1715		145%	1160	824	22	1814	1186	27
1D17P	Chilliwack River	Lower Fraser	1621	2018-03-01	367	1502		124%	1022	1307	506	2353	1208	26
1D19P	Spuzzum Creek	Lower Fraser	1197	2018-03-01	345	1388		106%	1076	1106	265	2615	1312	19
1E01B	BLUE RIVER	North Thompson	673	2018-02-28	132	336		120%	280	284	160	411	280	34
1E02P	Mount Cook	North Thompson	1574	2018-03-01	344	1072		104%	787	1260	684	1319	1028	18
1E03A	TROPHY MOUNTAIN	North Thompson	1907	2018-02-27	176	532		118%	420	442	216	778	452	44
1E05	KNOUFF LAKE	North Thompson	1189	N	N	N	N		124	126	36	284	124	61
1E07	ADAMS RIVER	North Thompson	1769	2018-02-28	205	628		112%	534	728	262	892	560	47
1E08P	Azure River	North Thompson	1625	2018-03-01						931	528	1339	934	20
1E10P	Kostal Lake	North Thompson	1760	2018-03-01	207	706		99%	607	755	417	1023	712	33
1E14P	Cook Creek	North Thompson	1280	2018-03-01	198				0	0	308	686	466	11
1F01A	ABERDEEN LAKE	South Thompson	1262	2018-02-26	89	250		188%	140	171	51	231	133	61
1F02	ANGLEMONT	South Thompson	1168	2018-03-01	147	445		138%	N	299	160	635	323	59
1F03P	Park Mountain	South Thompson	1857	2018-03-01		869		122%		729	379	1021	714	32

2018 Automated Snow Weather Station/Manual Snow Survey Data				March					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1F04P	Enderby	South Thompson	1950	2018-03-01	341	882			712		712	712		1
1F06P	Celista Mountain	South Thompson	1533	2018-03-01					545	908	506	923	739	13
2A01A	CANOE RIVER	Upper Columbia	866	N	N	N	N		76	132	19	251	89	77
2A02	GLACIER	Upper Columbia	1249	2018-02-27	188	682		117%	417	578	251	952	585	80
2A03A	FIELD	Upper Columbia	1310	2018-02-26	76	183		124%	113	162	53	248	147	78
2A06P	Mount Revelstoke	Upper Columbia	1770	2018-03-01		1089		110%	862	1059	537	1487	992	25
2A07	KICKING HORSE	Upper Columbia	1648	2018-02-28	122	367		132%	216	296	140	462	279	71
2A11	BEAVERFOOT	Upper Columbia	1924	2018-02-26	81	198		119%	160	194	80	333	167	69
2A14	MOUNT ABBOT	Upper Columbia	2031	2018-02-24	291	1077		108%	892	882	508	1448	1000	59
2A16	GOLDSTREAM	Upper Columbia	1914	2018-03-06	283	974		102%	895	920	553	1351	954	55
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	2018-02-25	324	1146		110%	824	976	534	1703	1043	55
2A18	KEYSTONE CREEK	Upper Columbia	1839	2018-03-06	224	712		106%	649	679	357	1277	671	52
2A18P	Keystone Creek	Upper Columbia	1850	2018-03-01		821			762	779	762	779		2
2A19	VERMONT CREEK	Upper Columbia	1533	2018-02-26	138	408		115%	355	434	152	643	356	52
2A21P	Molson Creek	Upper Columbia	1930	2018-03-01		961		108%	755	800	437	1215	887	37
2A22	SUNBEAM LAKE	Upper Columbia	2066	2018-03-06	273	922		123%	713	683	389	1117	751	51
2A23	BUSH RIVER	Upper Columbia	1982	2018-03-06	218	715		105%	676	684	281	1078	682	50
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	2018-03-06	310	1059		107%	952	1072	526	1476	990	46
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	2018-03-06	210	646		105%	422	626	338	1018	618	41
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	2018-03-06	337	1190		104%	990	1108	335	2120	1146	40
2A30P	Colpitti Creek	Upper Columbia	2131	2018-03-01		836			650	651	650	651		2
2A31P	Caribou Creek Upper	Upper Columbia	2201	2018-03-01		890			740	779	740	779		2
2A32P	Wildcat Creek	Upper Columbia	2122	2018-03-01		526			434	446	434	446		2
2B02A	FARRON	Lower Columbia	1229	2018-03-06	156	442	B	160%	276	320	79	450	276	45
2B05	WHATSHAN (UPPER)	Lower Columbia	1476	2018-03-05	223	730		128%	351	558	285	918	570	57
2B06P	Barnes Creek	Lower Columbia	1595	2018-03-01		632		145%	227	513	227	690	437	25
2B07	KOCH CREEK	Lower Columbia	1813	2018-03-05	241	736		122%	531	704	269	996	601	57
2B08P	St. Leon Creek	Lower Columbia	1822	2018-03-01		1114		124%	780	960	416	1392	900	25
2B09	RECORD MOUNTAIN	Lower Columbia	1906	2018-03-03	257	734		122%	710	845	147	1136	601	43
2C01	SINCLAIR PASS	East Kootenay	1374	2018-02-27	56	134		130%	96	114	44	262	103	70
2C04	SULLIVAN MINE	East Kootenay	1580	2018-03-01	114	318		135%	230	206	53	465	235	72
2C07	FERNIE EAST	East Kootenay	1213	2018-03-03	133	334		124%	302	192	61	584	270	67
2C09Q	Morrissey Ridge	East Kootenay	1966	2018-03-01		545		95%	463	566	233	1074	571	38
2C10P	Moyie Mountain	East Kootenay	1840	2018-03-01	119	430		129%	381	357	149	653	333	39
2C14P	Floe Lake	East Kootenay	2110	2018-03-01		698		120%	601	529	257	889	581	25
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	2018-02-26	166	506		120%	437	401	185	680	421	49
2C16	MOUNT JOFFRE	East Kootenay	1763	2018-02-26	117	308		106%	243	283	122	551	291	49

2018 Automated Snow Weather Station/Manual Snow Survey Data				March					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2C17	THUNDER CREEK	East Kootenay	2062	2018-02-26	103	256		120%	226	266	91	378	214	49
2D02	FERGUSON	West Kootenay	929	N	N	N	N		400	612	283	796	502	64
2D03	SANDON	West Kootenay	1072	2018-03-01	139	438	B	137%	295		196	475	319	38
2D04	NELSON	West Kootenay	952	2018-03-01	124	362		110%	264	197	118	558	328	78
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	2018-02-28	168	494		131%	316	385	201	663	378	69
2D06	CHAR CREEK	West Kootenay	1290	2018-02-25	164	537		120%	418	400	221	754	447	52
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	N	N	N	N		188	82	52	322	144	26
2D08P	East Creek	West Kootenay	2004	2018-03-01		803		110%	716	865	312	1167	732	37
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	2018-03-05	296	1007		117%	775		490	1534	859	51
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	2018-02-28	247	739		122%	570	645	343	955	607	49
2D14P	Redfish Creek	West Kootenay	2086	2018-03-01	397	1231		129%	1093	1296	751	1256	954	16
2E01	MONASHEE PASS	Kettle	1387	2018-03-05	141	406		144%	158	300	149	442	282	59
2E02	CARMI	Kettle	1254	2018-02-26	73	191		147%	47	120	47	274	130	55
2E03	BIG WHITE MOUNTAIN	Kettle	1672	2018-02-26	187	514		128%	208	495	208	676	402	52
2E07P	Grano Creek	Kettle	1874	2018-03-01	176	504		123%	338	524	206	679	411	20
2F01A	TROUT CREEK (West)	Okanagan	1430	2018-02-27	104	271		138%	120	211	93	229	196	7
2F01P	Trout Creek West	Okanagan	1420	2018-03-01										0
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	2018-02-27	122	311		164%	178	235	97	381	190	57
2F03	MC CULLOCH	Okanagan	1266	2018-02-28	94	238		163%	117	224	71	249	146	78
2F04	GRAYSTOKE LAKE	Okanagan	1818	N	N	N	N		216	336	128	605	285	35
2F05P	Mission Creek	Okanagan	1794	2018-03-01	184	552		141%	274	486	208	608	392	48
2F07	POSTILL LAKE	Okanagan	1358	2018-03-01	88	252		146%	N	190	98	274	173	67
2F08P	Greyback Reservoir	Okanagan	1550	2018-03-01	106	298			159		159	159		1
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2018-02-24	173	538		120%	362	677	180	809	450	63
2F10P	Silver Star Mountain	Okanagan	1839	2018-03-01		659			445	622	445	622		2
2F11	ISINTOK LAKE	Okanagan	1651	2018-02-28	100	245		186%	117	131	53	358	132	53
2F12	MOUNT KOBAU	Okanagan	1817	2018-02-25	114	336		133%	270	333	61	488	253	52
2F13	ESPERON CR (UPPER)	Okanagan	1634	2018-02-25	132	382		116%	270	398	157	635	330	49
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	2018-02-25	123	348		121%	206		132	513	287	26
2F18P	Brenda Mine	Okanagan	1453	2018-03-01		331		105%	212	373	184	431	315	25
2F19	OOYAMA LAKE	Okanagan	1365	2018-02-28	94	238		165%	124	174	73	241	144	49
2F20	VASEUX CREEK	Okanagan	1403	2018-02-24	77	180		159%	60	132	52	284	113	46
2F21	BOULEAU LAKE	Okanagan	1405	2018-02-25	134	318		119%	212	288	165	432	267	47
2F23	MACDONALD LAKE	Okanagan	1742	2018-03-02	163	508		138%	310	475	170	583	368	41
2F24	ISLAHT LAKE	Okanagan	1492	2018-03-01	134	184		65%	183	305	161	497	285	36
2F25	POSTILL LAKE UPPER	Okanagan	1500	2018-03-01	102	274			N	242	112	242		7
2G03P	Blackwall Peak	Similkameen	1934	2018-03-01	255	832		125%	544	736	228	1323	665	50

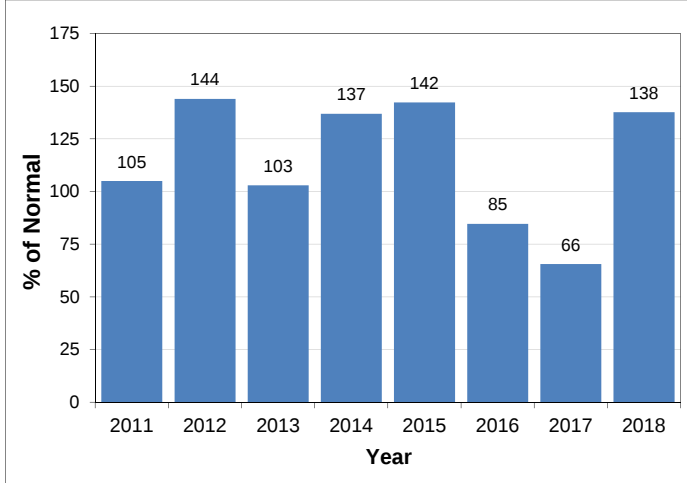
2018 Automated Snow Weather Station/Manual Snow Survey Data				March					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	2018-02-23	113	301	B	169%	139	220	92	508	178	58
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2018-02-23	94	238	B	131%	158	178	76	363	182	57
2G06	HAMILTON HILL	Similkameen	1477	2018-02-24	103	289	B	108%	219	190	102	676	267	56
3A01	GROUSE MOUNTAIN	South Coast	1126	2018-03-01	373	1425		148%	1036	920	0	2320	966	68
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS	NS	NS	NS		NS		868	868	868	2
3A05	POWELL RIVER (LOWER)	South Coast	882	NS	NS	NS	NS		NS		588	588	588	2
3A09	PALISADE LAKE	South Coast	898	2018-03-06	340	1485		134%	952		0	3150	1106	66
3A10	DOG MOUNTAIN	South Coast	1007	2018-02-28	322	1250		131%	1029	792	0	2146	952	34
3A19	ORCHID LAKE	South Coast	1178	2018-03-06	430	1805		123%	1142		190	2960	1467	44
3A20	CALLAGHAN CREEK	South Coast	1009	2018-02-26	250	951		135%	632	772	40	1260	702	41
3A22P	Nostetuko River	South Coast	1457	2018-03-01	140	527		114%	357	475	165	876	462	29
3A24P	Mosley Creek Upper	South Coast	1655	2018-03-01	137	358		135%	227	204	98	555	266	29
3A25P	Squamish River Upper	South Coast	1387	2018-03-01	435	1567		120%	1101	1337	558	2301	1303	28
3A26	CHAPMAN CREEK	South Coast	1022	2018-02-27	343	1360			956		662	1412	267	8
3A27	EDWARDS LAKE	South Coast	1070	N	N	N	N		N		380	944	201	5
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	2018-02-26	312	1353		112%	927	1168	101	2730	1203	63
3B02A	MOUNT COKELY	Vancouver Island	1267	N	N	N	N		N		14	1034	662	34
3B04	ELK RIVER	Vancouver Island	270	2018-02-26	20	56		97%	136	0	0	546	58	62
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	2018-02-26	261	1016		90%	868	880	0	2440	1128	60
3B17P	Wolf River Upper	Vancouver Island	1422	2018-03-01		1149		106%	864	1022	195	2085	1085	36
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	2018-02-26	112	382		75%	438	342	0	1344	509	48
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	2018-02-26	87	286		95%	N	178	0	1064	301	47
3B23P	Jump Creek	Vancouver Island	1134	2018-03-01	297	1246		147%	494	564	20	2228	849	22
3B24P	Heather Mountain Upper	Vancouver Island	1190	2018-03-01	363	1557			1097	1062	1062	1097		2
3B26P	Mount Arrowsmith	Vancouver Island	1465	2018-03-01	321	1169								0
3C07	WEDEENE RIVER SOUTH	North Coast	196	2018-03-06	143	527		126%	N	288	45	945	418	30
3C08P	Burnt Bridge Creek	North Coast	1329	2018-03-01	203	694		100%	583	598	282	1245	691	20
3D01C	SUMALLO RIVER WEST	Skagit	801	2018-03-04	117	307		141%	251	63	0	442	218	26
3D02	LIGHTNING LAKE	Skagit	1254	2018-03-03	110	322	B	129%	186	296	36	497	250	45
3D03A	KLESILKWA	Skagit	1134	N	N	N			236	124	0	759	228	70
4A02P	Pine Pass	Peace	1386	2018-03-01	298	881		100%	636	773	363	1485	880	29
4A03	WARE (UPPER)	Peace	1563	2018-03-01	97	233		106%	136	138	90	360	220	57
4A03P	Ware Upper	Peace	1565	2018-03-01	98	223			145		145	145		1
4A04	WARE (LOWER)	Peace	969	2018-03-01	83	177		106%	66		66	246	167	57
4A04P	Ware Lower	Peace	971	2018-03-01	75	196			91		91	91		1
4A05	GERMANSEN (UPPER)	Peace	1489	2018-02-27	117	287		98%	184	259	156	520	293	57
4A06	TUTIZZI LAKE	Peace	1043	2018-02-27	98	244		106%	102	176	102	386	230	54

2018 Automated Snow Weather Station/Manual Snow Survey Data				March					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4A07	LADY LAURIER LAKE	Peace	1460	2018-03-03	145	399		88%	N	329	194	662	452	54
4A09	PULPIT LAKE	Peace	1331	2018-02-28	130	345		93%	239	308	152	531	372	54
4A09P	Pulpit Lake	Peace	1331	2018-03-01	114	287		75%	200	268	133	471	381	28
4A10	FREDRICKSON LAKE	Peace	1323	2018-02-27	88	179		84%	86	156	86	315	213	54
4A11	TRYGVE LAKE	Peace	1409	2018-02-28	107	267		84%	186	230	119	453	319	54
4A12	TSAYDAYCHI LAKE	Peace	1173	2018-02-27	124	333		98%	267	307	166	540	340	54
4A13	PHILIP LAKE	Peace	1013	2018-02-27	91	227		94%	118	226	118	400	242	54
4A16	MORFEE MOUNTAIN	Peace	1427	2018-02-27	199	623		86%	460	572	265	1166	725	50
4A18	MOUNT SHEBA	Peace	1480	2018-02-26	246	733		103%	536	601	369	1123	712	49
4A20	MONKMAN CREEK	Peace	1566	2018-02-26	173	554		117%	396		190	925	472	43
4A21	MOUNT STEARNS	Peace	1514	2018-03-03	67	122		98%	137	40	41	227	124	44
4A25	FORT ST. JOHN A	Peace	692	2018-03-05	78	152		154%	81	79	34	191	99	43
4A27P	Kwadacha North	Peace	1554	2018-03-01	120	258			158		158	158		1
4A30P	Aiken Lake	Peace	1061	2018-03-01	80	166		72%	136	181	90	363	232	33
4A31P	Crying Girl Prairie	Peace	1358	2018-03-01		220			206	124	124	206		2
4A33P	Muskwa-Kechika	Peace	1196	2018-03-01		74			96	33	33	96		2
4A34P	Dowling Creek	Peace	1456	2018-03-01		1199			836		836	836		1
4B01	KIDPRICE LAKE	Skeena-Nass	1415	2018-02-27	208	697		85%	807	528	429	1320	817	66
4B02	JOHANSON LAKE	Skeena-Nass	1480	2018-02-27	91	202		80%	160	227	108	368	253	54
4B03A	HUDSON BAY MTN.	Skeena-Nass	1452	2018-02-28	149	478		108%	369	308	168	719	443	46
4B04	CHAPMAN LAKE	Skeena-Nass	1485	2018-03-02	172	482		118%	339	276	266	691	407	52
4B06	TACHEK CREEK	Skeena-Nass	1133	2018-02-27	94	224		115%	140	172	117	332	195	49
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	2018-03-02	144	326		133%	158	190	155	391	246	48
4B08	MOUNT CRONIN	Skeena-Nass	1491	2018-03-02	211	557		112%	420	363	345	869	498	48
4B10	NINGUNSAW PASS	Nass	647	2018-02-27	107	239		60%	N	289	210	629	397	42
4B11A	BEAR PASS	Nass	437	2018-03-05	139	383		67%	350	393	87	824	574	32
4B12P	Granduc Mine	Skeena-Nass	790	2018-03-01	342				80		80	80		1
4B13A	TERRACE A	Skeena-Nass	219	2018-03-02	80	194		138%	N	42	0	407	141	35
4B14	EQUITY MINE	Skeena-Nass	1434	2018-02-27	144	424		127%	346	264	190	546	333	40
4B15	LU LAKE	Skeena-Nass	1296	2018-02-27	118	322		127%	214	184	122	412	254	40
4B15P	Lu Lake	Skeena-Nass	1308	2018-03-01	155	374		169%	235	208	116	405	221	20
4B16P	Shedin Creek	Skeena-Nass	1320	2018-03-01	184	479		66%	393	423	195	957	723	22
4B17P	Tsai Creek	Skeena-Nass	1360	2018-03-01	220	850		88%	732	606	302	1618	969	20
4B18P	Cedar-Kiteen	Skeena-Nass	912	2018-03-01					360	375	178	956	582	17
4C01	SIKANNI LAKE	Liard	1390	2018-03-01	94	190		80%	106	142	78	335	238	54
4C01P	Sikanni Lake	Liard	1400	2018-03-01	114	283			114		114	114		1
4C02	SUMMIT LAKE	Liard	1291	2018-02-28	66	106		95%	79	61	0	190	111	53

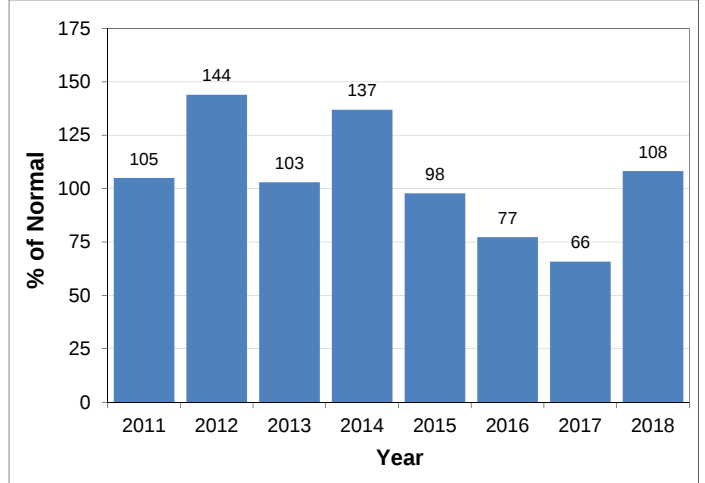
2018 Automated Snow Weather Station/Manual Snow Survey Data				March					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4C03	DEASE LAKE	Liard	805	N	N	N	N		N	63	45	229	124	52
4C05	FORT NELSON AIRPORT	Liard	368	2018-02-28	46	69		75%	57	64	38	177	92	50
4C15	JADE CITY	Liard	943	N	N	N	N		N	146	128	310	206	15
4D01	TELEGRAPH CREEK	Stikine	490	N	N	N	N		N	46	53	345	144	42
4D02	ISKUT	Stikine	931	N	N	N	N		N	35	33	176	105	42
4D11P	Kinaskan Lake	Stikine	1020	2018-03-01	54	148		43%	249	215	94	527	346	22
4E02B	ATLIN LAKE	Yukon	730	2018-02-27	38	70			85	87	68	166		12
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													
NA	Not available													
NS	Not scheduled													
SD	Snow Depth													
SWE	Snow Water Equivalent													
T	Trace Amount													

Snow Basin Index Graphs - March 1, 2018

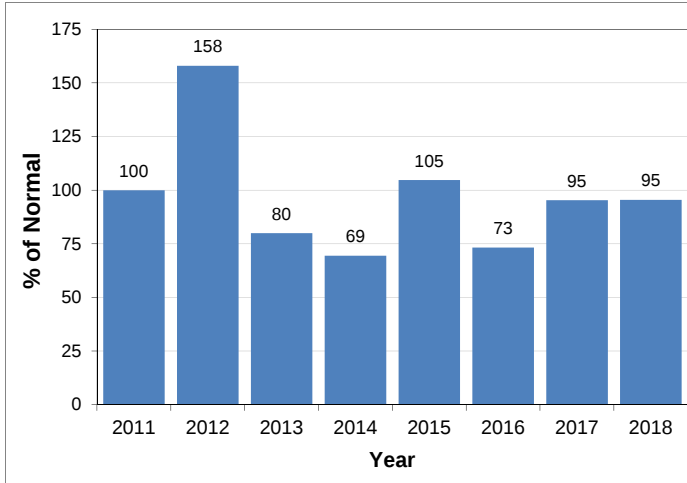
Upper Fraser West



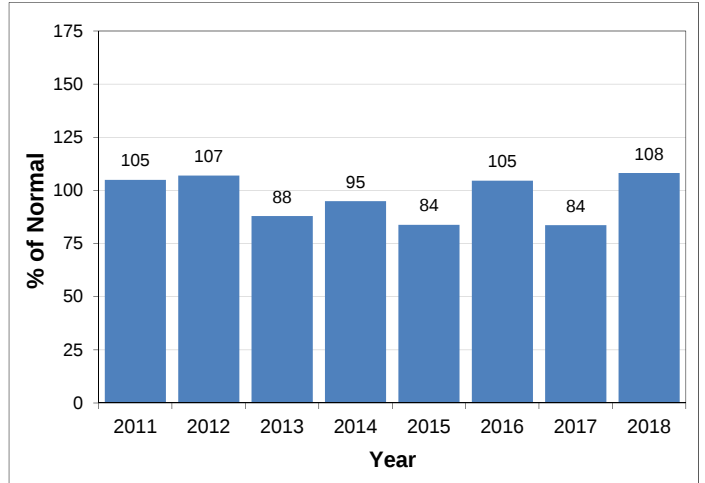
Upper Fraser East



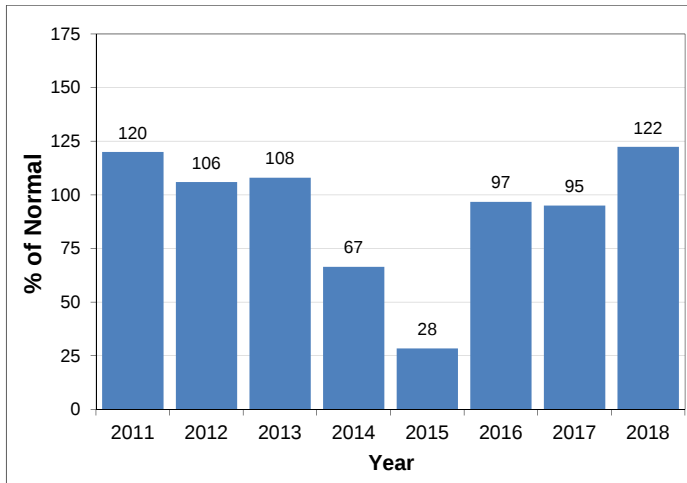
Nechako



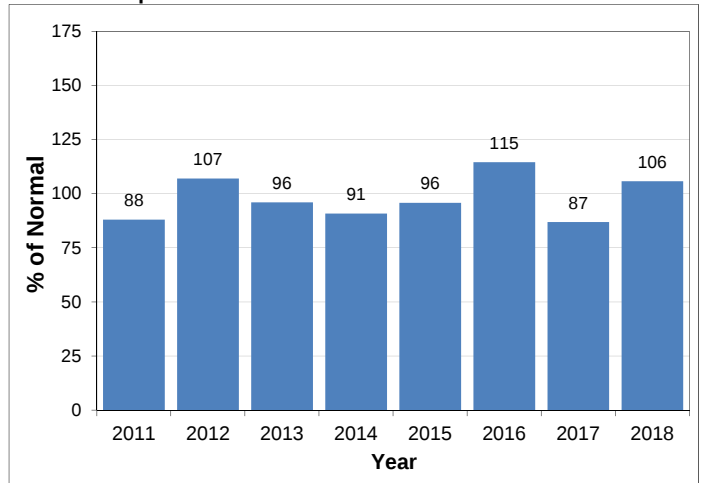
Middle Fraser



Lower Fraser

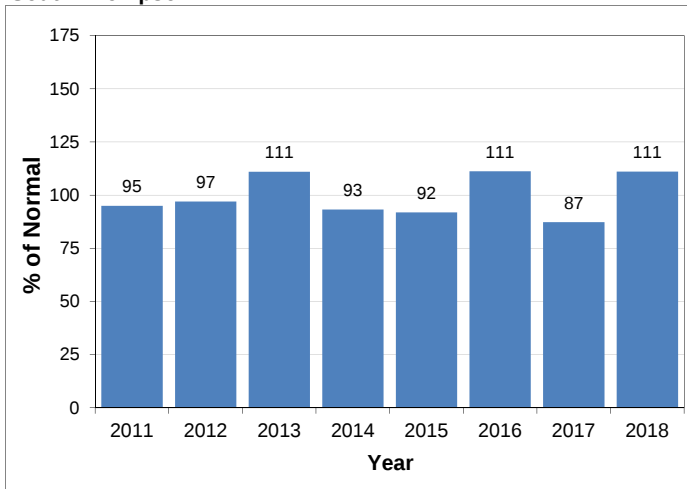


North Thompson

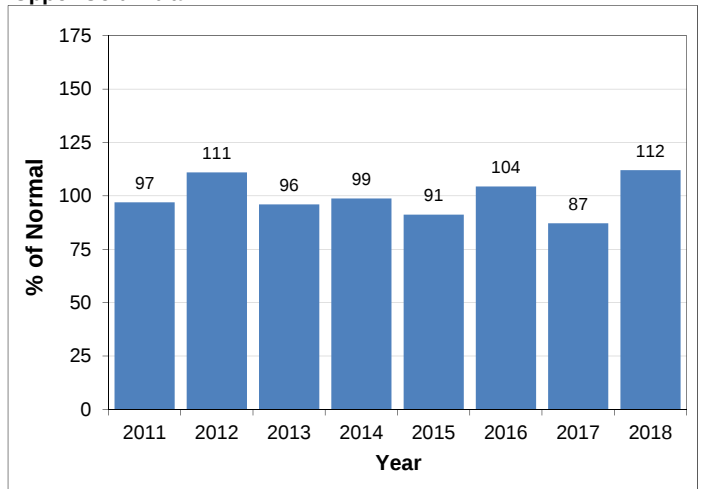


Snow Basin Index Graphs - March 1, 2018

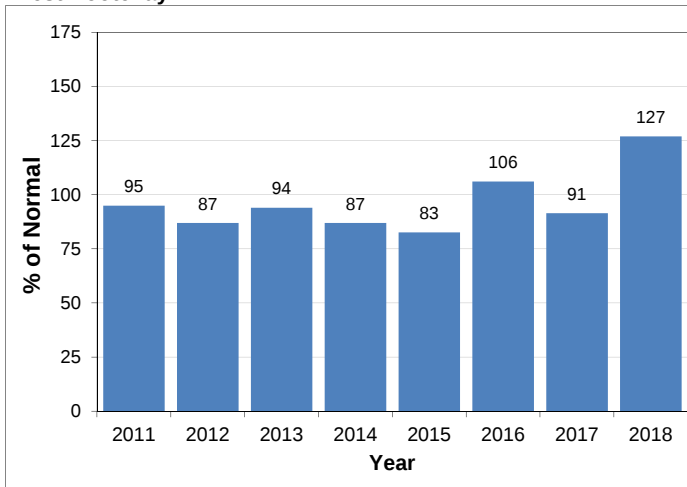
South Thompson



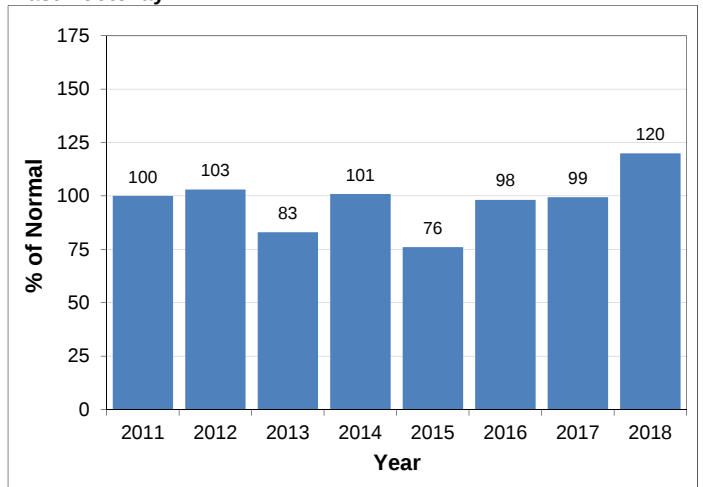
Upper Columbia



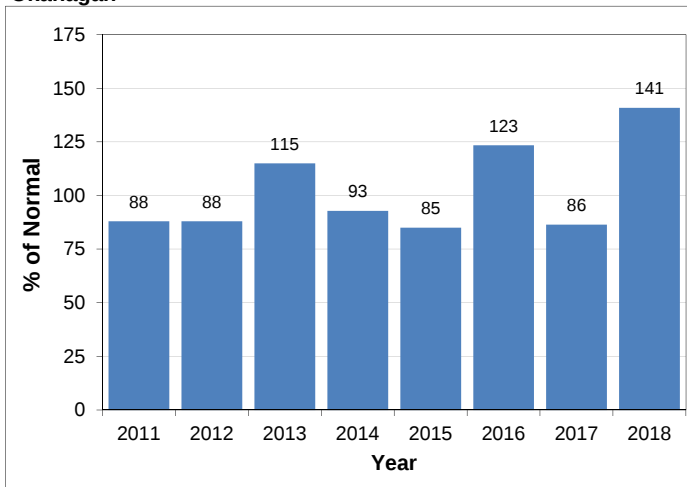
West Kootenay



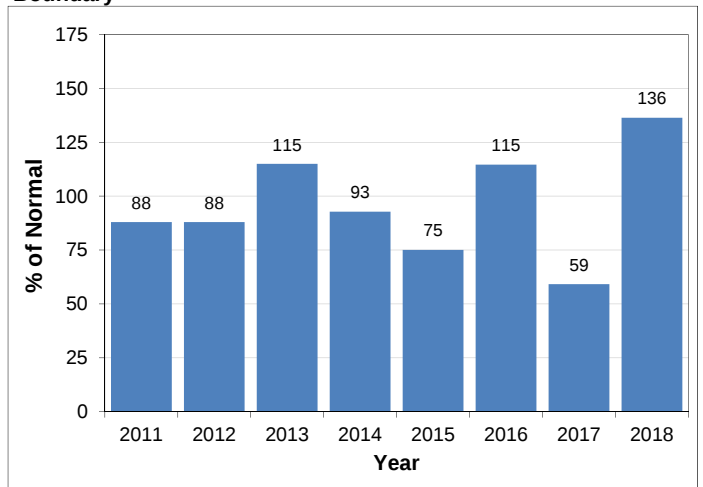
East Kootenay



Okanagan

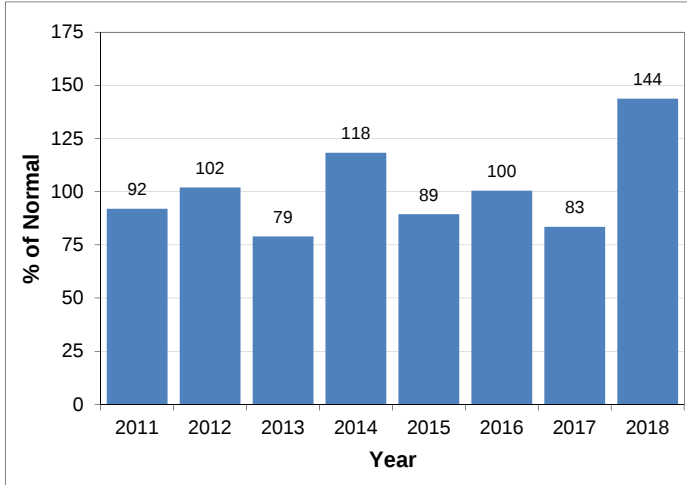


Boundary

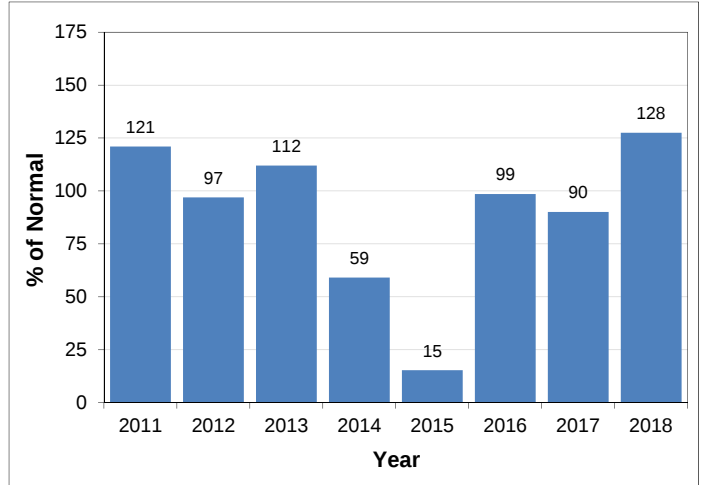


Snow Basin Index Graphs - March 1, 2018

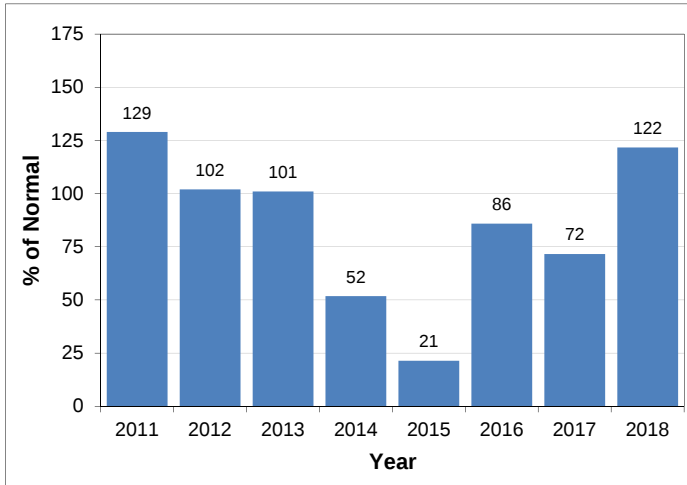
Similkameen



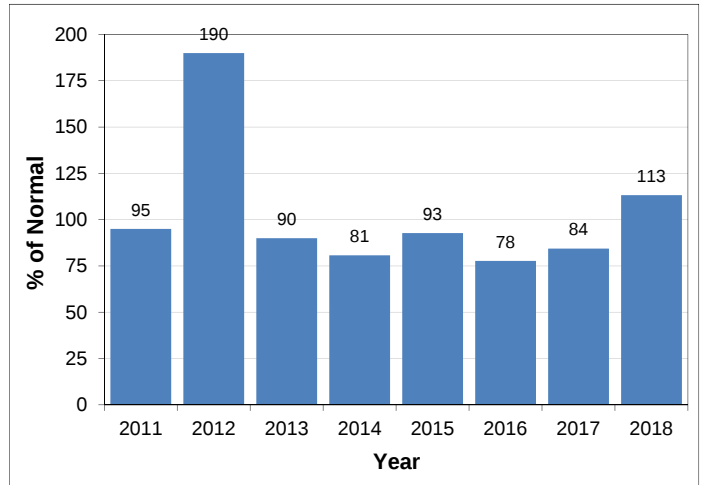
South Coast



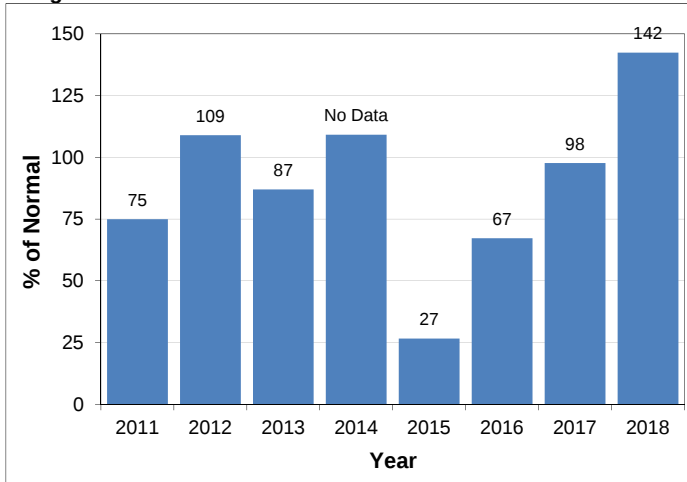
Vancouver Island



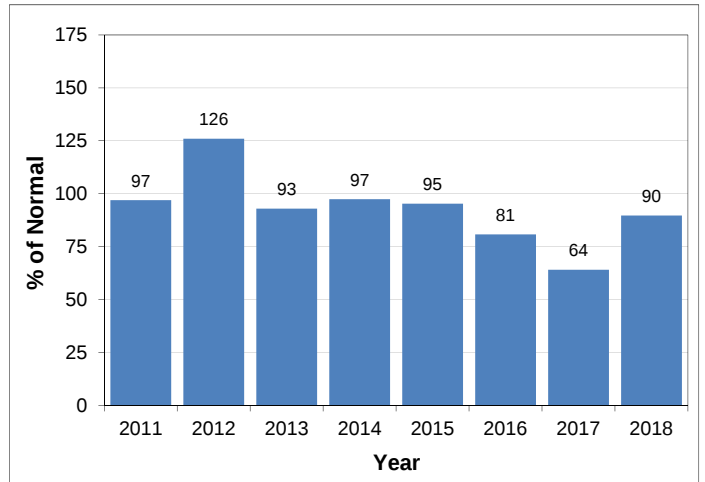
Central Coast



Skagit

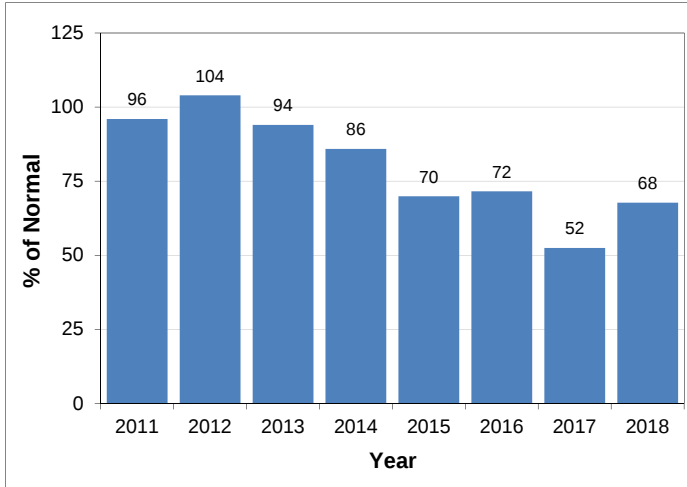


Peace

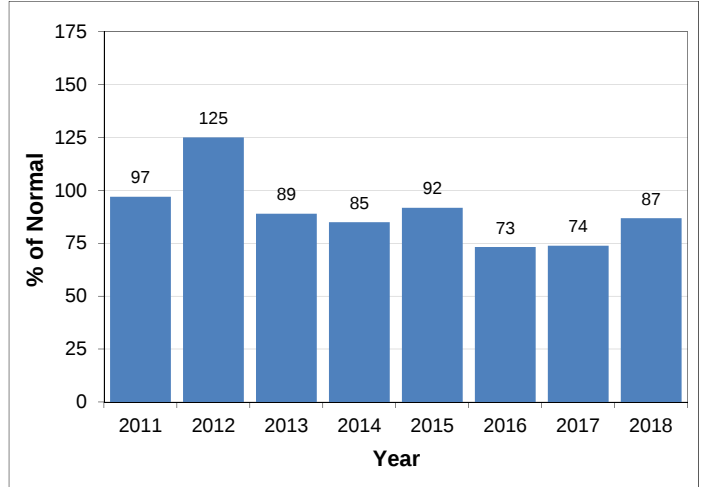


Snow Basin Index Graphs - March 1, 2018

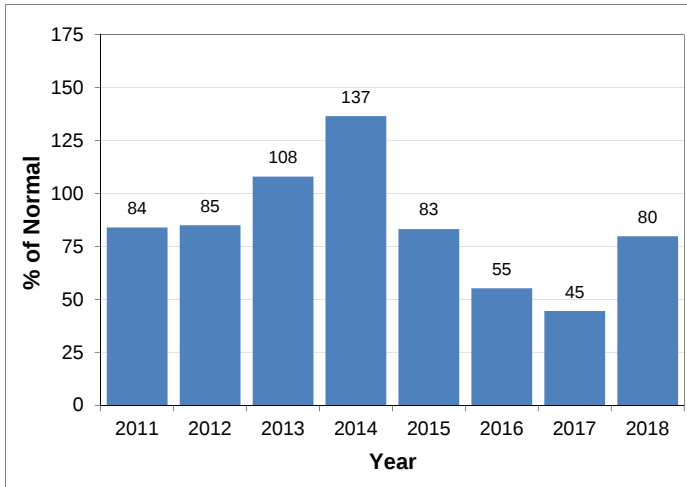
Stikine



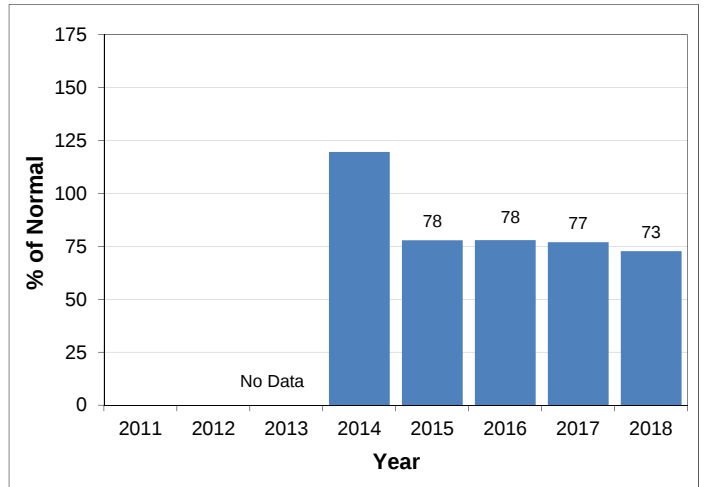
Skeena-Nass



Liard



Northwest



River Forecast Centre
Ministry of Forests, Lands and Natural Resource Operations
Volume Runoff Forecast March 2018

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					3872	3786	102	331	5444	5252	104	390
	McGregor at Lower Canyon					4052	4087	99	490	5140	5132	100	639
	Fraser at Shelley					15721	16310	96	1494	19988	20369	98	1832
Middle Fraser Basin	Quesnel River at Quesnel					4626	4747	97	510	5971	6078	98	670
Thompson Basin	N. Thompson at McLure					9681	9190	105	536	12086	11359	106	826
	S. Thompson at Chase					6342	6111	104	566	8037	7678	105	832
	Thompson at Spences Bridge					16851	15775	107	1174	21388	19755	108	1814
Bulkley and Skeena	Bulkley at Quick					2880	2709	106	1361	3498	3306	106	1939
	Skeena at Usk					20119	19187	105	1335	24533	23531	104	1809
Nicola Lake	Inflows	166	126	132	31	190	143	133	35				
Nicola River	at Spences Bridge	764	523	146	82	885	591	150	103				
Similkameen River	at Nighthawk	1726	1342	129	158					2156	1652	130	184
	at Hedley	1455	1045	139	134					1733	1233	141	151
Okanagan and Kalamalka- Wood Lake	Okanagan Lake Inflow	667	470	142	89	719	497	145	110				
	Kalamalka-Wood Lake Inflow	44	31	140	12	47	33	144	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, 2018

The April 1st, 2018 snow survey is now complete. Data from 132 snow courses and 74 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 forms the basis of the following report¹.

Weather

The weather in March was relatively cool and remained dry for most of the month until several storm systems moved through the province at the end of the month.

Temperatures across the British Columbia were near normal to slightly below normal (-2 to 0°C relative to normal). Precipitation was well above normal for most locations in the Interior, and significantly below normal for Vancouver Island and the South Coast.

Snowpack

Snow basin indices for April 1st 2018 range from a low of 65% of normal in the Stikine to a high of 152% in the Similkameen and Okanagan regions (Table 1 and Figure 1). Overall, the province has an above normal snow pack for April 1st. The average of all snow measurements across the province is 127% of normal, increasing significantly from 119% of normal on March 1st.

Well-above normal snow packs (>130%) are present in the Upper Fraser West, Okanagan, Similkameen, Boundary, and Skagit. The April 1st snow index for the Okanagan is 152% of normal, which is tied with April 1999 for the highest snow pack dating back to 1980. Above normal snow packs (110-130%) are present in the Middle Fraser, Upper Fraser East, Lower Fraser, Upper Columbia, West Kootenay, East Kootenay, South Coast, and Central Coast. Although the Middle Fraser snow index is 110%, there are areas within the Middle Fraser that are much higher. For example, the Nicola basin has an index of 132%, and snow surveys within the Chilcotin plateau are significantly above normal (>150%). Near normal snow packs (80-110%) have accumulated in the Liard, Peace, Skeena-Nass, Nechako, Vancouver Island, the North Thompson, and the South Thompson. Although the Nechako snow index is considered near normal, two snow surveys within the Nechako basin (1A23 Bird Creek & 1B05 Skins Lake) currently measure all-time record highs. It is thus likely that the Nechako snow index (103%) under-represents certain areas within the entire basin. A well-below normal snow pack is present in the Stikine (65%) and Northwest (72%). Finally, the Fraser River snow index as an entire watershed is 108% of normal.

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 – April 1st, 2018

Table 1 - BC Snow Basin Indices – April 1, 2018

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	145	Boundary	149
Upper Fraser East	114	Similkameen	152
Nechako	103	South Coast	120
Middle Fraser	110	Vancouver Island	106
Lower Fraser	113	Central Coast	116
North Thompson	109	Skagit	150
South Thompson	109	Peace	95
Upper Columbia	111	Skeena-Nass	89
West Kootenay	127	Stikine	65
East Kootenay	119	Liard	83
Okanagan	152	Northwest	72

Outlook

The easing trend in La Niña conditions in the equatorial Pacific Ocean, which began in February, is continuing. The Climate Prediction Centre (CPC) at the U.S. National Weather Service/NOAA is forecasting the high likelihood that conditions will continue to transition to ENSO-neutral through the spring, with neutral conditions to develop into the summer. While La Niña is waning, it is not uncommon for the effects of La Niña to persist several months beyond the period of the defined La Niña event. For example, snow packs in previous La Niña events in British Columbia tended to grow more rapidly than normal through April. Province-wide snow basin indices during La Niña years tend to increase by 2-5% over the April 1st to May 1st period. While there is still uncertainty over how weather patterns will play out over the next few months, continued increases in snow basin indices into May are likely to occur, given this year's La Niña context.

Seasonal forecasts (April to June) from Environment and Climate Change Canada indicate an increased likelihood of below normal temperatures for the eastern border of British Columbia and above normal temperatures for the Northwest. Short to medium-term forecasts suggest continued light to moderate precipitation for Vancouver Island and the South Coast for the following week. Precipitation from these events is expected to spill over the Coast Mountains and into the southern interior, likely increasing the mountain snowpack. Temperatures are forecast to be near normal over this period.

By April 1st, nearly 95% of the annual BC snow pack has typically accumulated. For most areas, the transition from snow accumulation to snow melt generally occurs in the middle of April, and therefore the April 1st snow survey is considered to be the key survey of the year for assessing the impact of snow pack on seasonal water supply and flood risk.

Snow Survey and Water Supply Bulletin – April 1st, 2018

Very high snow packs (>145%) in the South Interior (including the Skagit, Similkameen, Okanagan, Boundary and Upper Fraser West), and high snow packs in the Kootenay (>120%) indicate an increased seasonal risk of flooding. Given this year's La Niña conditions, it is unlikely that the risk will ease much prior to the melt season. While the snow pack in the overall Fraser River basin is only slightly above normal (108%), under specific weather conditions it is possible for snow to melt rapidly throughout the entire basin. Increased seasonal runoff in spring can contribute to higher local inflows to the lower reaches of the Fraser River, where there is still a flood risk for the the Lillooet River and tributaries depending upon weather conditions. Given the potential for increasing snow packs in the coming weeks, there is the possibility of increasing seasonal flood risk in other areas of the province.

Seasonal volume runoff forecasts (see below) are near-normal (100-110%) for the Upper Fraser, Middle Fraser, Thompson and Skeena/Bulkley basins, and well above-normal (>130%) for areas of the South Interior, including the Okanagan, Similkameen and Nicola. The snowmelt component of seasonal runoff on Vancouver Island, South Coast, Lower Fraser and Skagit is expected to be near to slightly above normal given the snow pack in those regions. Below normal snow packs in the Northwest and Stikine are an early indication of the potential for below normal seasonal runoff.

Hydrological Effects of BC Wildfires in 2017

Forest fires burned the largest area in BC's history during the summer of 2017. These fires affected many watersheds, including large areas in the Cariboo Chilcotin, Thompson Okanagan, West Coast, and Kootenay Boundary regions. Disturbances such as fire affect the hydrologic response of streams, rivers and lakes relevant to potential flooding. Specifically, flows from snowmelt dominated watersheds impacted by fires tend to be greater and peak earlier as compared to undisturbed areas, even under normal weather conditions. Many of the regions affected by burns last summer have above normal snow packs this year.

Areas that will be more susceptible to earlier and higher flows due to potential fire impacts and a high snowpack include: Bonaparte River (Cache), Baezaeko River, Nazko River, Chilcotin River, Deadman River, and West Road River; including minor tributaries/creeks.

Upcoming Freshet

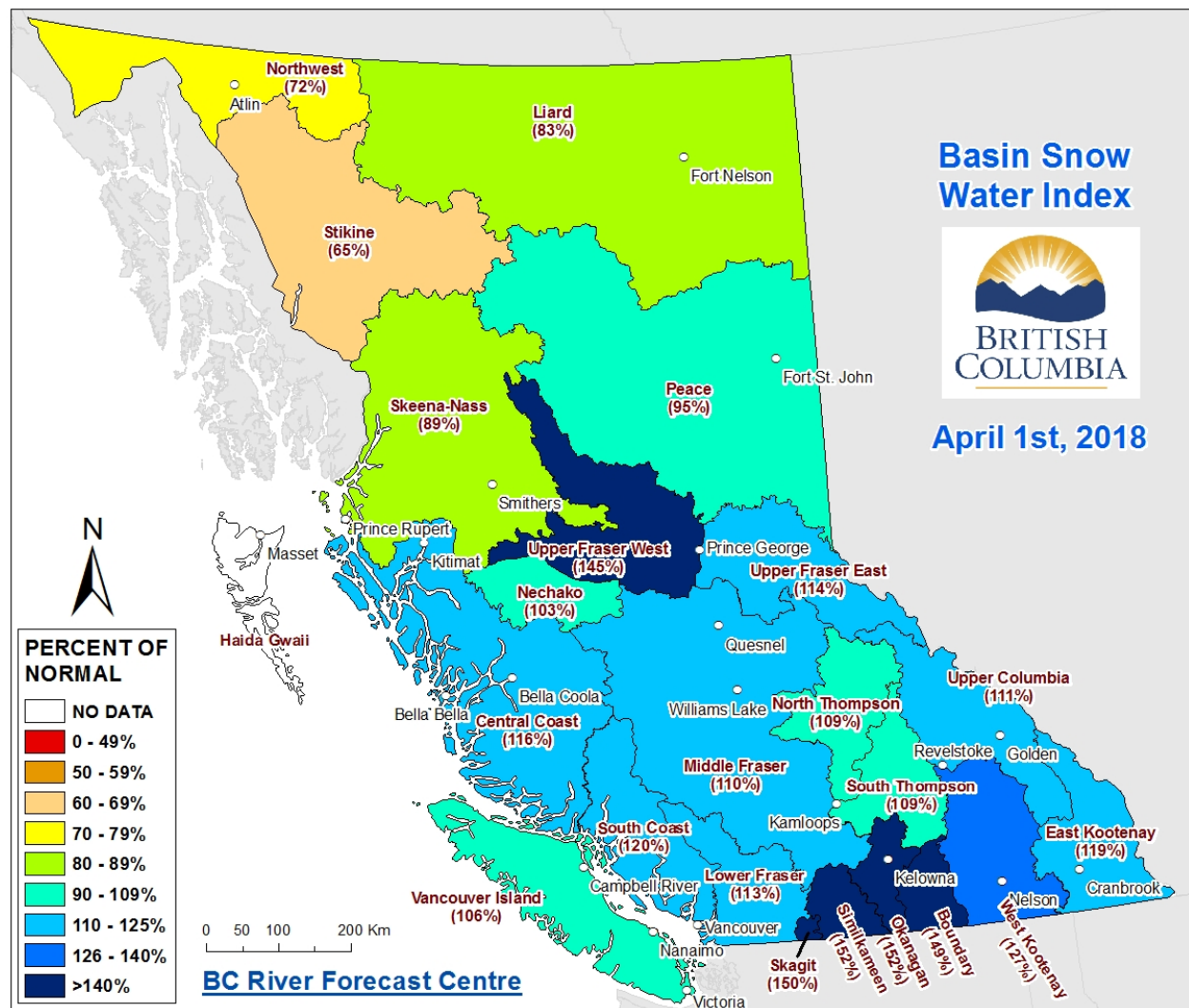
Snow pack is one element of seasonal flood risk during BC's freshet season. Weather patterns during the snow melt season play a critical role in whether or not flooding occurs. Intense or prolonged rainfall and extreme temperatures are important factors that can lead to flooding, even for areas with a near normal snow pack.

Snow Survey and Water Supply Bulletin – April 1st, 2018

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the May 1st 2018 bulletin, which is scheduled for release on May 7th.

BC River Forecast Centre
April 9, 2018

Figure 1: Basin Snow Water Index – April 1st, 2018



2018 Automated Snow Weather Station/Manual Snow Survey Data				April					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	Yellowhead Lake	Upper Fraser East	1847	2018-04-01	188	560		104%	458	485	254	784	541	21
1A02P	McBride Upper	Upper Fraser East	1608	2018-04-01	175	479		108%	391	393	198	693	442	26
1A03P	Barkerville	Upper Fraser East	1483	2018-04-01	137	382		105%	296	251	123	524	364	43
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	2018-03-27	289	952		124%		632	296	1234	768	63
1A05P	Longworth Upper	Upper Fraser East	1740	2018-04-01	282	787			523		523	523		1
1A06A	HANSARD	Upper Fraser East	622	2018-04-05	52	194		110%			72	442	176	20
1A10	PRINCE GEORGE A	Upper Fraser East	684	NS	NS	NS	NS		0	0	0	313	98	56
1A11	PACIFIC LAKE	Upper Fraser East	756	2018-03-28	235	851		140%	423	297	165	1060	608	55
1A12	KAZA LAKE	Upper Fraser West	1247	2018-03-29	126	346		101%	251	270	132	476	341	55
1A12P	Kaza Lake	Upper Fraser West	1248	2018-04-01	133	323			269	290	269	290		2
1A14P	Hedrick Lake	Upper Fraser East	1118	2018-04-01	270	796		99%	482	407	214	1288	801	18
1A15	KNUDSEN LAKE	Upper Fraser East	1598	2018-03-28	281	885	A	110%	605		506	1346	801	51
1A15P	Knudsen Lake	Upper Fraser East	1601	2018-04-01		658			499		499	499		1
1A16	BURNS LAKE	Upper Fraser West	820	2018-04-04	77	204		171%	60	26	0	264	119	48
1A17P	Revolution Creek	Upper Fraser East	1676	2018-04-01	279	856		109%	562	699	326	1292	783	33
1A19P	Dome Mountain	Upper Fraser East	1768	2018-04-01	236	673		92%	577	591	298	1069	732	12
1A23	BIRD CREEK	Upper Fraser West	1196	2018-04-01	124	320		229%	104	146	84	270	140	28
1B01	MOUNT WELLS	Nechako	1489	2018-04-01	202	660		135%	525	381	273	690	490	63
1B01P	Mount Wells	Nechako	1489	2018-04-01		674		121%	563	427	227	869	557	26
1B02	TAHTSA LAKE	Nechako	1319	2018-04-01	279	1006		84%	1239	1026	775	1972	1202	65
1B02P	Tahtsa Lake	Nechako	1319	2018-04-01		1231		96%	1335	1166	464	2227	1278	26
1B05	SKINS LAKE	Nechako	877	2018-04-01	77	233		259%	68	42	0	203	90	54
1B06	MOUNT SWANNELL	Nechako	1596	2018-04-01	142	413		146%	261	249	148	490	282	29
1B07	NUTLI LAKE	Nechako	1502	2018-04-01	169	549		106%	556	414	301	834	518	27
1B08P	Mount Pondosy	Nechako	1413	2018-04-01		819		104%	886	732	363	1152	790	26
1C01	BROOKMERE	Middle Fraser	994	2018-03-31	67	223		130%	182	138	45	399	171	73
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	2018-03-29	145	513		90%	566	544	239	1118	572	66
1C05P	McGillivray Pass	Middle Fraser	1766	2018-04-02		619								
1C06	PAVILION	Middle Fraser	1209	2018-03-29	26	84		382%			0	147	22	60
1C08	NAZKO	Middle Fraser	1029	2018-03-28	45	132		287%		0	0	142	46	59
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	N	N	N	N		144	70	3	249	83	51
1C12P	Green Mountain	Middle Fraser	1766	2018-04-01		732		83%	729	968	429	1408	878	24
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	2018-03-27	161	542		116%	422	518	282	716	466	48
1C14	BRALORNE	Middle Fraser	1382	2018-03-29	60	197		129%	241	158	0	389	153	55
1C14P	Bralorne	Middle Fraser	1382	2018-04-02		270								
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2018-04-03	113	338		114%	237	373	161	533	296	57
1C18P	Mission Ridge	Middle Fraser	1903	2018-04-01		614		112%	653	451	157	1012	550	48

2018 Automated Snow Weather Station/Manual Snow Survey Data				April					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	N	N	N	N		163	88	21	307	106	51
1C20P	Boss Mountain Mine	Middle Fraser	1477	2018-04-01	202	649		111%	496	672	255	866	585	24
1C21	BIG CREEK	Middle Fraser	1130	2018-03-31	22	68		486%	0	0	0	119	14	48
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	2018-04-02	24	84		442%	0	0	0	91	19	48
1C23	PENFOLD CREEK	Middle Fraser	1687	N	N	N	N		888		525	1285	979	46
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	2018-03-29	76	264		208%	211	171	0	228	127	45
1C28	DUFFEY LAKE	Middle Fraser	1253	2018-04-04	152	581		121%	491	522	212	866	480	40
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	2018-03-30	96	313		141%	275	239	16	442	222	39
1C32	DEADMAN RIVER	Middle Fraser	1463	N	N	N	N			100	30	196	104	33
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	2018-03-27	99	274		146%		177	93	272	188	11
1C37	BRALORNE(UPPER)	Middle Fraser	1980	N	N	N	N		734	684	290	1010	665	23
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	N	N	N	N		890	942	422	1416	847	23
1C38P	Downton Lake Upper	Middle Fraser	1829	2018-04-01		681			810	781	781	810		2
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	2018-03-29	175	622		107%	616	736	240	1086	580	23
1C40	TYAUGHTON	Middle Fraser	1946	2018-03-29	147	504		115%	372	430	198	844	440	23
1C40P	North Tyaughton	Middle Fraser	1969	2018-04-01		456			310	375	310	375		2
1C41P	Yanks Peak East	Middle Fraser	1683	2018-04-01	275	979		123%	668	754	365	1013	794	21
1C42	CAVERHILL LAKE	Middle Fraser	1400	2018-03-26	97	290			218	286	174	284		13
1D06P	Tenquille Lake	Lower Fraser	1669	2018-04-01	296	1112		110%	1242	1220	526	1587	1014	17
1D08	STAVE LAKE	Lower Fraser	1211	2018-03-31	353	1597		110%		1453	98	2750	1448	49
1D09	WAHLEACH LAKE	Lower Fraser	1395	2018-03-31	165	596		101%		488	33	1270	588	49
1D09P	Wahleach Lake Upper	Lower Fraser	1408	2018-04-01		1108		108%	668	702	265	1640	1026	26
1D10	NAHATLATCH RIVER	Lower Fraser	1530	2018-03-31	326	1377		106%		1476	468	2410	1296	49
1D16	DICKSON LAKE	Lower Fraser	1147	2018-03-31	416	1913		128%	1626	1276	56	2990	1497	25
1D17P	Chilliwack River	Lower Fraser	1621	2018-04-01	392	1746		122%	1592	1461	590	2418	1435	26
1D19P	Spuzzum Creek	Lower Fraser	1197	2018-04-01	325	1575		98%	1738	1471	166	2745	1600	19
1E01B	BLUE RIVER	North Thompson	673	2018-03-28	96	338		124%	290	260	154	425	272	35
1E02P	Mount Cook	North Thompson	1574	2018-04-01	390	1296		107%	1155	1515	684	1480	1209	18
1E03A	TROPHY MOUNTAIN	North Thompson	1907	2018-03-30	192	634		118%	590	540	332	888	537	43
1E05	KNOUFF LAKE	North Thompson	1189	NS	NS	NS	NS		160	120	0	274	134	63
1E07	ADAMS RIVER	North Thompson	1769	2018-03-30	226	786		117%	750	810	435	1069	673	48
1E08P	Azure River	North Thompson	1625	2018-04-01	274	959		84%	1180	1126	528	1538	1135	21
1E10P	Kostal Lake	North Thompson	1760	2018-04-01		865		102%	850	881	417	1169	850	33
1E14P	Cook Creek	North Thompson	1280	2018-04-01	196	622					409	769	575	11
1F01A	ABERDEEN LAKE	South Thompson	1262	2018-03-29	65	213		172%	145	138	6	259	124	76
1F02	ANGLEMONT	South Thompson	1168	2018-03-27	144	486		151%	300	272	142	561	321	61
1F03P	Park Mountain	South Thompson	1857	2018-04-01	274	1030		121%		919	379	1207	852	32

2018 Automated Snow Weather Station/Manual Snow Survey Data				April					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1F04P	Enderby	South Thompson	1950	2018-04-01	344	1008								0
1F06P	Celista Mountain	South Thompson	1533	2018-04-01	272	1031		119%	879	1132	506	1117	867	13
2A01A	CANOE RIVER	Upper Columbia	866	NS	NS	NS			116	0	0	262	65	76
2A02	GLACIER	Upper Columbia	1249	2018-03-28	188	709		106%	611	659	362	1161	670	81
2A03A	FIELD	Upper Columbia	1310	2018-03-28	59	204		149%	134	112	8	251	137	79
2A06P	Mount Revelstoke	Upper Columbia	1770	2018-04-01		1272		105%	1199	1288	595	1686	1210	25
2A07	KICKING HORSE	Upper Columbia	1648	2018-03-28	131	394		124%	301	312	160	589	317	70
2A11	BEAVERFOOT	Upper Columbia	1924	2018-03-31	86	236		124%	226	242	105	460	191	70
2A14	MOUNT ABBOT	Upper Columbia	2031	2018-03-29	330	1300		108%	1300	1239	600	1849	1199	59
2A16	GOLDSTREAM	Upper Columbia	1914	2018-03-29	312	1058		93%	1221	1164	584	1638	1133	55
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	2018-03-23	308	1248		103%	1128	1200	590	1951	1210	55
2A18	KEYSTONE CREEK	Upper Columbia	1839	2018-03-29	244	827		105%		844	414	1388	788	51
2A18P	Keystone Creek	Upper Columbia	1850	2018-04-01		998			1066	966	966	1066		2
2A19	VERMONT CREEK	Upper Columbia	1533	2018-03-31	138	476		120%	490	500	190	843	397	52
2A21P	Molson Creek	Upper Columbia	1930	2018-04-01		1081		105%	1017	945	481	1551	1029	37
2A22	SUNBEAM LAKE	Upper Columbia	2066	2018-03-29	274	969		109%	955	831	469	1384	885	51
2A23	BUSH RIVER	Upper Columbia	1982	N	N	N	N		875	753	455	1331	809	51
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	2018-03-29	328	1173		101%	1360	1333	671	1816	1163	46
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	2018-03-29	197	720		108%	644	682	338	1032	664	40
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	2018-03-29	363	1320		99%	1474	1474	335	2360	1334	40
2A30P	Colpitti Creek	Upper Columbia	2131	2018-04-01		957			907	803	803	907		2
2A31P	Caribou Creek Upper	Upper Columbia	2201	2018-04-01		1034			1053	946	946	1053		2
2A32P	Wildcat Creek	Upper Columbia	2122	2018-04-01		646			635	523	523	635		2
2B02A	FARRON	Lower Columbia	1229	2018-03-29	124	465		155%	350	347	127	480	300	45
2B05	WHATSHAN (UPPER)	Lower Columbia	1476	2018-03-28	228	780		122%	588	678	350	964	638	60
2B06P	Barnes Creek	Lower Columbia	1595	2018-04-01		774		146%	428	629	272	773	530	25
2B07	KOCH CREEK	Lower Columbia	1813	2018-03-28	230	810		112%	819	907	397	1156	722	58
2B08P	St. Leon Creek	Lower Columbia	1822	2018-04-01		1317		123%	1189	1148	536	1553	1072	25
2B09	RECORD MOUNTAIN	Lower Columbia	1906	2018-03-28	244	822		116%	905	895	315	1307	708	43
2C01	SINCLAIR PASS	East Kootenay	1374	2018-03-29	58	161		148%	96	116	36	262	109	81
2C04	SULLIVAN MINE	East Kootenay	1580	2018-03-30	117	347		128%	326	264	114	538	272	72
2C07	FERNIE EAST	East Kootenay	1213	2018-03-31	114	398		139%	348	205	24	605	286	67
2C09Q	Morrissey Ridge	East Kootenay	1966	2018-04-01		683		97%	689	719	308	1224	704	38
2C10P	Moyie Mountain	East Kootenay	1840	2018-04-01	119	518		126%	561	398	184	679	412	39
2C14P	Floe Lake	East Kootenay	2110	2018-04-01		828		119%	850	650	331	983	695	25
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	N	N	N	N		673	528	252	816	514	49
2C16	MOUNT JOFFRE	East Kootenay	1763	2018-03-31	155	444		127%	358	366	179	711	349	49

2018 Automated Snow Weather Station/Manual Snow Survey Data				April					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2C17	THUNDER CREEK	East Kootenay	2062	2018-03-31	134	368		142%	312	330	140	475	259	49
2D02	FERGUSON	West Kootenay	929	2018-04-02	155	669		122%		611	142	881	550	79
2D03	SANDON	West Kootenay	1072	2018-04-01	120	447		135%	375	241	71	585	330	75
2D04	NELSON	West Kootenay	952	2018-04-03	124	410		123%	283	156	5	622	334	80
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	2018-03-28	174	579		132%		498	276	688	440	69
2D06	CHAR CREEK	West Kootenay	1290	2018-03-28	190	684		130%	557	488	214	940	525	52
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS	NS	NS	NS		180		0	223	83	26
2D08P	East Creek	West Kootenay	2004	2018-04-01		905		105%	1044	999	442	1245	863	37
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	N	N	N	N			1078	520	1608	1013	46
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	2018-03-28	269	920		127%		855	492	1123	722	48
2D14P	Redfish Creek	West Kootenay	2086	2018-04-01	406	1477		124%	1687	1596	751	1755	1188	16
2E01	MONASHEE PASS	Kettle	1387	2018-03-28	138	440		136%	283	356	165	517	324	69
2E02	CARMI	Kettle	1254	2018-03-29	72	210		183%	88	31	0	290	115	55
2E03	BIG WHITE MOUNTAIN	Kettle	1672	2018-03-29	196	671		141%	396	608	319	762	476	52
2E07P	Grano Creek	Kettle	1874	2018-04-01	201	714		138%	479	703	285	791	516	20
2F01A	TROUT CREEK (West)	Okanagan	1430	2018-03-28	100	336		171%	163	211	93	272	196	8
2F01P	Trout Creek West	Okanagan	1420	2018-04-01	112	268								0
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	2018-03-28	121	360		183%	227	290	96	389	197	82
2F03	MC CULLOCH	Okanagan	1266	2018-03-29	81	265		201%	144	168	6	249	132	83
2F04	GRAYSTOKE LAKE	Okanagan	1818	2018-04-03	165	552		163%		390	168	828	339	43
2F05P	Mission Creek	Okanagan	1794	2018-04-01	203	705		147%	432	627	242	728	478	48
2F07	POSTILL LAKE	Okanagan	1358	2018-03-28	91	284		141%		239	90	348	202	67
2F08P	Greyback Reservoir	Okanagan	1550	2018-04-01	116	283			257		257	257		1
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2018-03-31	190	670		129%	555	785	318	1021	521	65
2F10P	Silver Star Mountain	Okanagan	1839	2018-04-01		754			649	786	649	786		2
2F11	ISINTOK LAKE	Okanagan	1651	2018-03-28	111	273		184%	141	144	66	340	148	53
2F12	MOUNT KOBAU	Okanagan	1817	2018-03-31	155	549		181%	375	481	105	602	304	52
2F13	ESPERON CR (UPPER)	Okanagan	1634	2018-03-30	144	478		125%	386	524	244	805	383	52
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	2018-03-30	126	404		123%	318	516	196	607	328	52
2F18P	Brenda Mine	Okanagan	1453	2018-04-01		389		113%	308	436	190	497	345	25
2F19	OOYAMA LAKE	Okanagan	1365	2018-03-29	85	236		153%	182	188	61	255	154	48
2F20	VASEUX CREEK	Okanagan	1403	2018-03-31	78	238		180%	100	176	40	239	132	47
2F21	BOULEAU LAKE	Okanagan	1405	2018-03-25	144	396		129%	252	344	160	564	306	47
2F23	MACDONALD LAKE	Okanagan	1742	2018-04-06	176	598		140%	45	596	45	677	428	40
2F24	ISLAHT LAKE	Okanagan	1492	2018-04-05	134	440		142%		480	145	501	309	35
2F25	POSTILL LAKE UPPER	Okanagan	1500	N	N	N	N			281	38	281		7
2G03P	Blackwall Peak	Similkameen	1934	2018-04-01	250	944		123%	754	893	403	1497	770	50

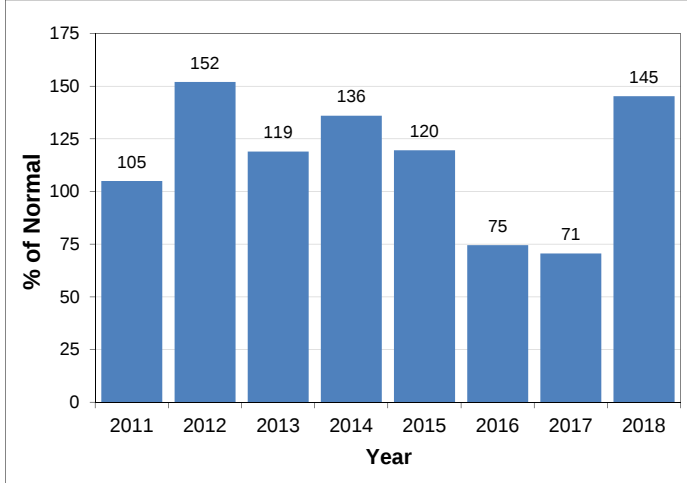
2018 Automated Snow Weather Station/Manual Snow Survey Data				April					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	2018-03-28	139	408	B	189%	181	268	138	533	216	57
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2018-03-28	98	284	B	144%	208	215	90	361	197	57
2G06	HAMILTON HILL	Similkameen	1477	2018-03-27	111	354	B	122%	265	220	83	851	291	58
3A01	GROUSE MOUNTAIN	South Coast	1126	2018-03-29	400	1750		151%	1694	1150	0	2670	1160	82
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS	NS	NS	NS			826	15	1813	969	65
3A05	POWELL RIVER (LOWER)	South Coast	882	NS	NS	NS	NS			344	8	1554	651	58
3A09	PALISADE LAKE	South Coast	898	2018-03-28	371	1720		130%	1620	1106	0	3560	1322	71
3A10	DOG MOUNTAIN	South Coast	1007	2018-03-27	346	1470		129%	1496	1008	0	2720	1137	73
3A19	ORCHID LAKE	South Coast	1178	2018-03-28	485	2134		121%	1970	1402	90	3770	1769	45
3A20	CALLAGHAN CREEK	South Coast	1009	2018-03-30	253	981		120%	940	1040	24	1604	820	41
3A22P	Nostetuko River	South Coast	1457	2018-04-01	139	589		104%	516	593	233	1074	568	29
3A24P	Mosley Creek Upper	South Coast	1655	2018-04-01	147	383		133%	269	238	147	567	288	29
3A25P	Squamish River Upper	South Coast	1387	2018-04-01	419	1744		110%	1595	1725	715	2760	1584	28
3A26	CHAPMAN CREEK	South Coast	1022	2018-03-28	462	1770	A		318		318	1728	308	10
3A27	EDWARDS LAKE	South Coast	1070	NS	NS	NS	NS				398	1286	215	6
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	2018-03-30	308	1394		94%	1432	1667	30	3550	1485	63
3B02A	MOUNT COKELY	Vancouver Island	1267	N	N	N	N			790	0	2100	831	36
3B04	ELK RIVER	Vancouver Island	270	2018-03-30	0	0	T	0%	55	0	0	607	34	62
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	2018-03-30	273	1214		83%	1436	1384	0	3200	1455	60
3B17P	Wolf River Upper	Vancouver Island	1422	2018-04-01		1202		91%	1162	1473	305	2600	1320	36
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	2018-03-30	111	430		70%	560	612	0	1706	618	48
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	2018-03-30	59	246		78%	312	150	0	1198	315	48
3B23P	Jump Creek	Vancouver Island	1134	2018-04-01	276	1440		132%	1334	811	0	3040	1088	22
3B24P	Heather Mountain Upper	Vancouver Island	1190	2018-04-01	348	1741			1745	1429	1429	1745		2
3B26P	Mount Arrowsmith	Vancouver Island	1465	2018-04-01	311	1232								0
3C07	WEDEENE RIVER SOUTH	North Coast	196	2018-04-04	141	520		136%	380	140	96	981	383	32
3C08P	Burnt Bridge Creek	North Coast	1329	2018-04-01	201	771		96%	740	649	382	1402	802	20
3D01C	SUMALLO RIVER WEST	Skagit	801	2018-03-28	84	337		176%		0	0	461	191	25
3D02	LIGHTNING LAKE	Skagit	1254	2018-03-26	103	344	B	124%	262	360	60	622	278	71
3D03A	KLESILKWA	Skagit	1134	2018-03-31	87	345		149%	293	110	0	792	231	70
4A02P	Pine Pass	Peace	1386	2018-04-01	304	1030		100%	859	945	363	1550	1026	29
4A03	WARE (UPPER)	Peace	1563	2018-03-30	112	286		111%	198	162	90	390	258	56
4A03P	Ware Upper	Peace	1565	2018-04-01	114	260			203		203	203		1
4A04	WARE (LOWER)	Peace	969	2018-03-30	89	225		116%	143	167	89	316	194	56
4A04P	Ware Lower	Peace	971	2018-04-01	85	235			150		150	150		1
4A05	GERMANSEN (UPPER)	Peace	1489	2018-03-29	130	368		106%	253	318	156	523	348	57
4A06	TUTIZZI LAKE	Peace	1043	2018-03-29	95	291		112%	188	175	106	406	259	55

2018 Automated Snow Weather Station/Manual Snow Survey Data				April					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4A07	LADY LAURIER LAKE	Peace	1460	2018-03-31	161	465		88%	436	436	194	854	529	55
4A09	PULPIT LAKE	Peace	1331	2018-03-30	138	403		95%	329	353	152	618	425	55
4A09P	Pulpit Lake	Peace	1331	2018-04-01	119	316		72%	282	297	133	620	439	28
4A10	FREDRICKSON LAKE	Peace	1323	2018-03-30	94	235		95%	149	165	93	351	247	55
4A11	TRYGVE LAKE	Peace	1409		N	N			285	253	119	511	370	55
4A12	TSAYDAYCHI LAKE	Peace	1173	2018-03-29	144	417		105%	346	346	166	639	398	55
4A13	PHILIP LAKE	Peace	1013	2018-03-29	82	252		90%	133	251	133	449	279	55
4A16	MORFEE MOUNTAIN	Peace	1427	2018-03-28	222	749		90%		685	265	1158	833	48
4A18	MOUNT SHEBA	Peace	1480	2018-03-28	284	893		109%		676	369	1294	823	48
4A20	MONKMAN CREEK	Peace	1566	2018-03-28	212	714		132%	535	398	190	1067	540	44
4A21	MOUNT STEARNS	Peace	1514	2018-03-30	83	168		114%	180	81	41	239	147	44
4A25	FORT ST. JOHN A	Peace	692	2018-04-03	81	164		169%	105		0	226	97	43
4A27P	Kwadacha North	Peace	1554	2018-04-01	129	301			227		227	227		1
4A30P	Aiken Lake	Peace	1061	2018-04-01	74	218		81%	191	208	90	371	268	33
4A31P	Crying Girl Prairie	Peace	1358	2018-04-01		314			278	173	173	278		2
4A33P	Muskwa-Kechika	Peace	1196	2018-04-01		117			129	46	46	129		2
4A34P	Dowling Creek	Peace	1456	2018-04-01		1254			444		444	444		1
4B01	KIDPRICE LAKE	Skeena-Nass	1415	2018-04-01	263	845		91%	999	685	622	1781	931	64
4B02	JOHANSON LAKE	Skeena-Nass	1480	2018-03-29	105	279		93%	226	270	108	417	301	55
4B03A	HUDSON BAY MTN.	Skeena-Nass	1452	2018-03-28	174	530		106%	408	392	168	846	499	46
4B04	CHAPMAN LAKE	Skeena-Nass	1485	2018-03-28	184	586		128%	422	375	315	762	457	53
4B06	TACHEK CREEK	Skeena-Nass	1133	2018-04-01	116	244		109%	178	208	112	362	223	50
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	2018-03-28	158	421		155%	199	222	183	427	271	50
4B08	MOUNT CRONIN	Skeena-Nass	1491	2018-03-28	230	714		125%	549	460	433	1097	570	49
4B10	NINGUNSAW PASS	Nass	647	2018-03-27	92	251		58%		199	220	730	434	42
4B11A	BEAR PASS	Nass	437	2018-03-28	126	460		72%	430	322	330	1013	642	31
4B12P	Granduc Mine	Skeena-Nass	790	2018-04-01	320				82		82	82		1
4B13A	TERRACE A	Skeena-Nass	219	2018-04-04	62	182		217%	60	0	0	333	84	38
4B14	EQUITY MINE	Skeena-Nass	1434	2018-03-28	167	546		142%	406	364	258	640	385	41
4B15	LU LAKE	Skeena-Nass	1296	2018-03-28	137	420		144%	252	250	162	504	291	41
4B15P	Lu Lake	Skeena-Nass	1308	2018-04-01	147	469		178%	285	259	119	478	264	20
4B16P	Shedin Creek	Skeena-Nass	1320	2018-04-01	195	563		63%	532	469	195	1096	896	22
4B17P	Tsai Creek	Skeena-Nass	1360	2018-04-01	270	1025		88%	934	808	302	1825	1165	20
4B18P	Cedar-Kiteen	Skeena-Nass	912	2018-04-01	NA	NA	NA		472	365	178	1126	712	17
4C01	SIKANNI LAKE	Liard	1390	2018-03-30	104	251		91%	171	158	78	380	276	55
4C01P	Sikanni Lake	Liard	1400	2018-04-01	113	304			171		171	171		1
4C02	SUMMIT LAKE	Liard	1291	2018-03-28	74	90		80%	95	54	0	240	113	54

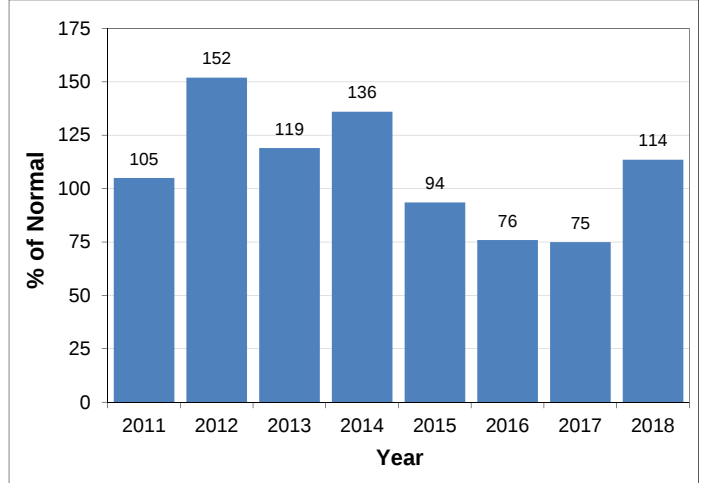
2018 Automated Snow Weather Station/Manual Snow Survey Data				April					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4C03	DEASE LAKE	Liard	805	2018-04-05	54	99		75%		58	50	259	132	50
4C05	FORT NELSON AIRPORT	Liard	368	2018-03-28	48	52	A	55%	96	66	23	198	94	51
4C15	JADE CITY	Liard	943	NS	NS	NS	NS			150	156	340	238	15
4D01	TELEGRAPH CREEK	Stikine	490	2018-04-06	27	72		49%		14	37	343	146	40
4D02	ISKUT	Stikine	931	2018-04-05	38	72		73%		0	0	180	98	41
4D11P	Kinaskan Lake	Stikine	1020	2018-04-01	54	167		41%	330	237	94	330	405	22
4E02B	ATLIN LAKE	Yukon	730	N	N	N	N		92	46	76	243		12
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													
NA	Not available													
NS	Not scheduled													
SD	Snow Depth													
SWE	Snow Water Equivalent													
T	Trace Amount													

Snow Basin Index Graphs - April 1, 2018

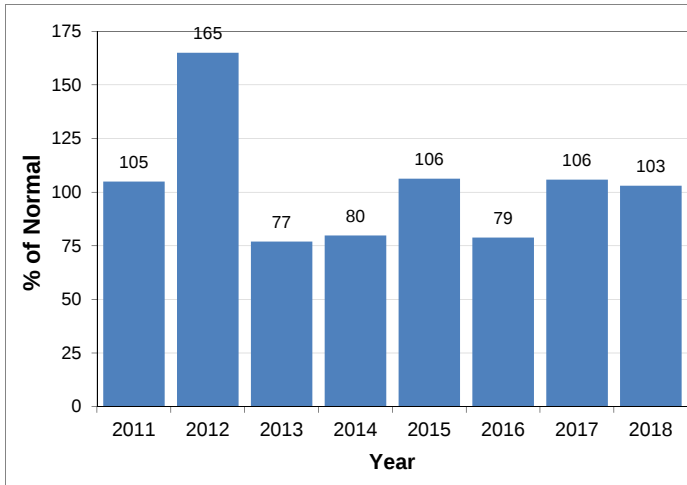
Upper Fraser West



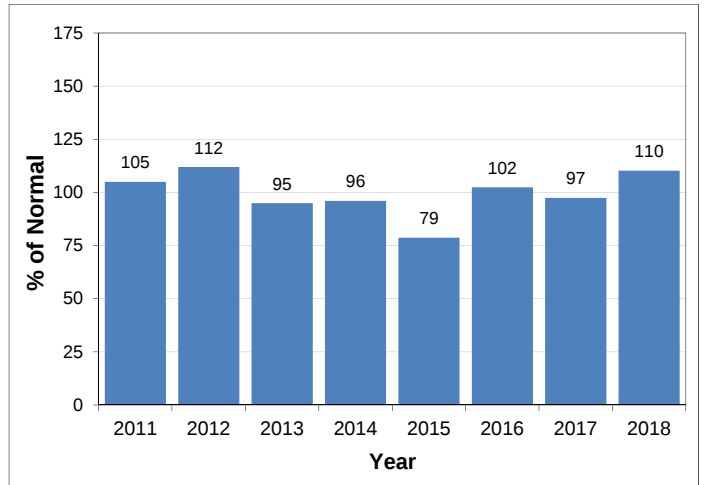
Upper Fraser East



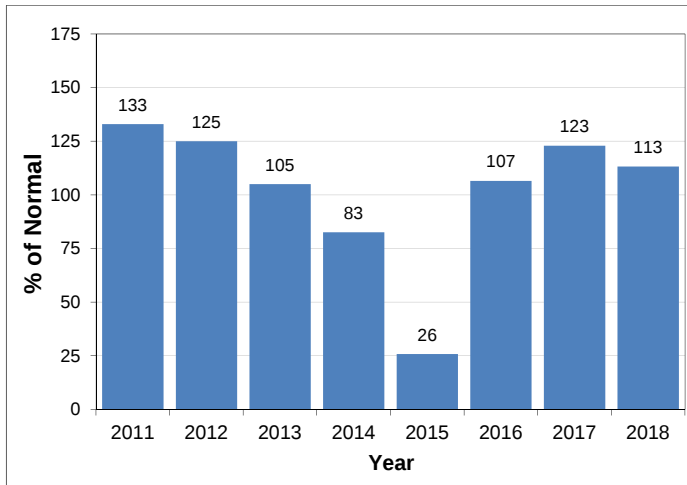
Nechako



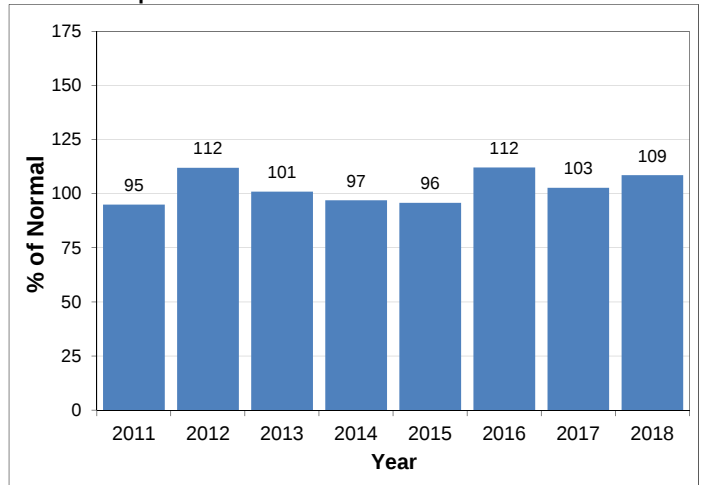
Middle Fraser



Lower Fraser

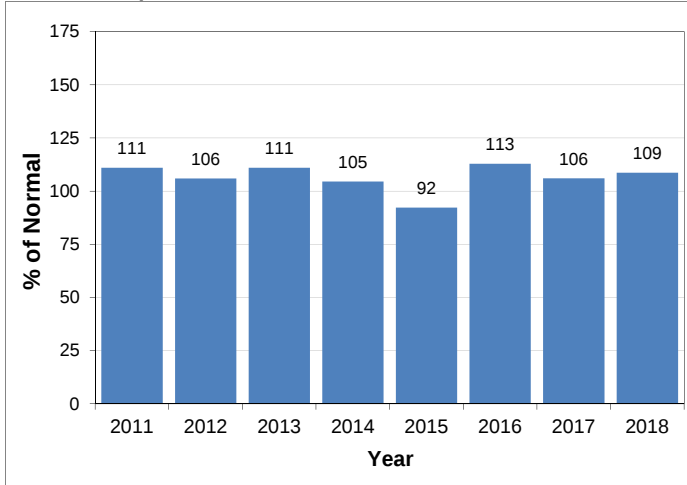


North Thompson

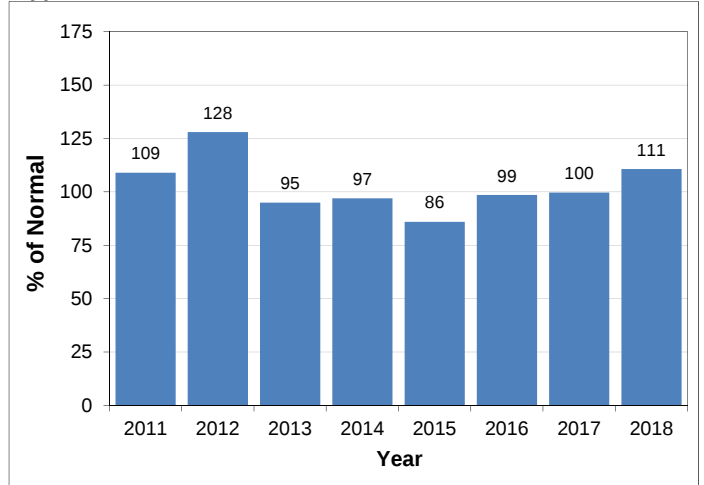


Snow Basin Index Graphs - April 1, 2018

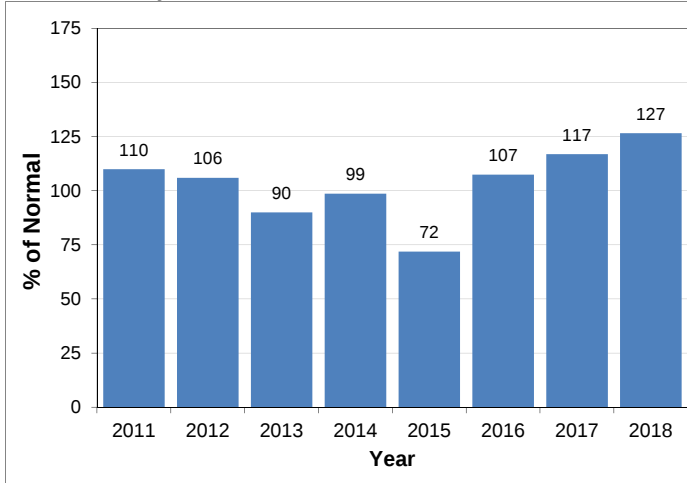
South Thompson



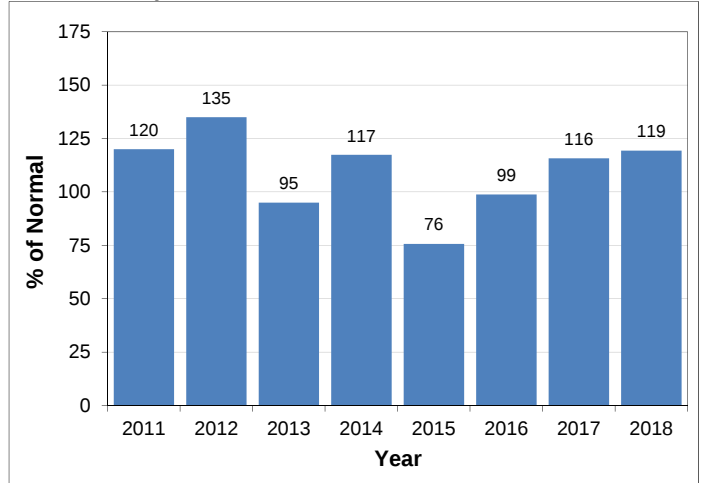
Upper Columbia



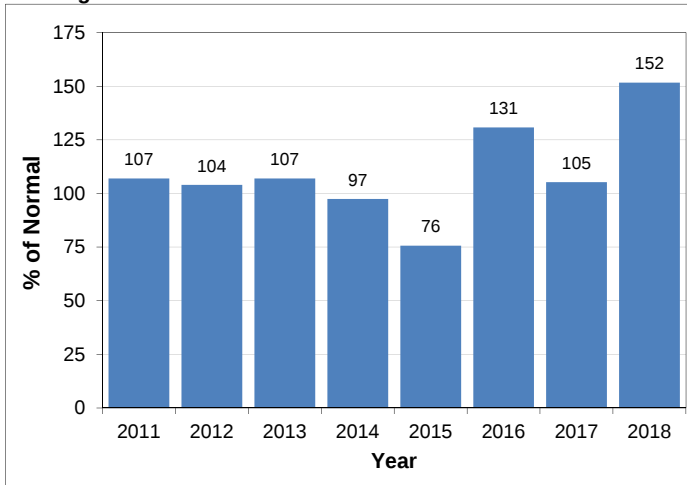
West Kootenay



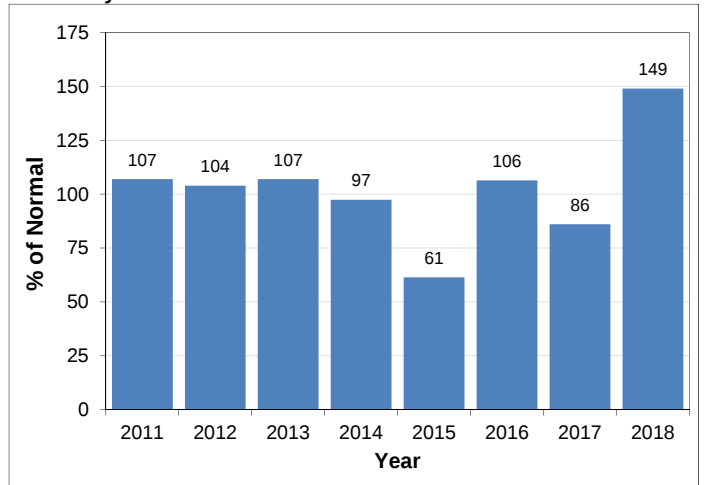
East Kootenay



Okanagan

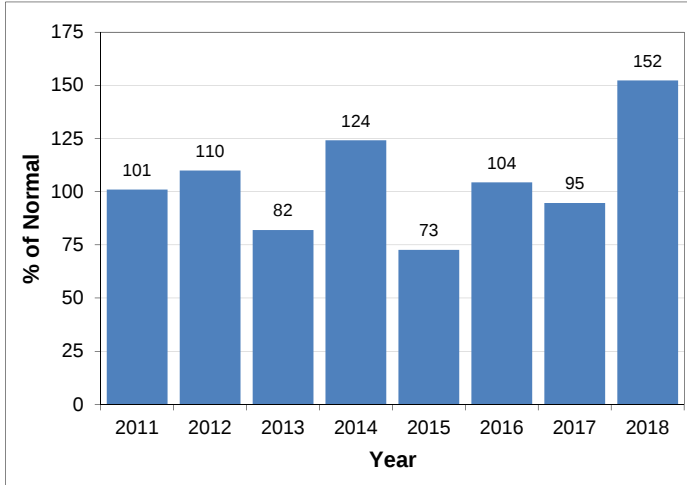


Boundary

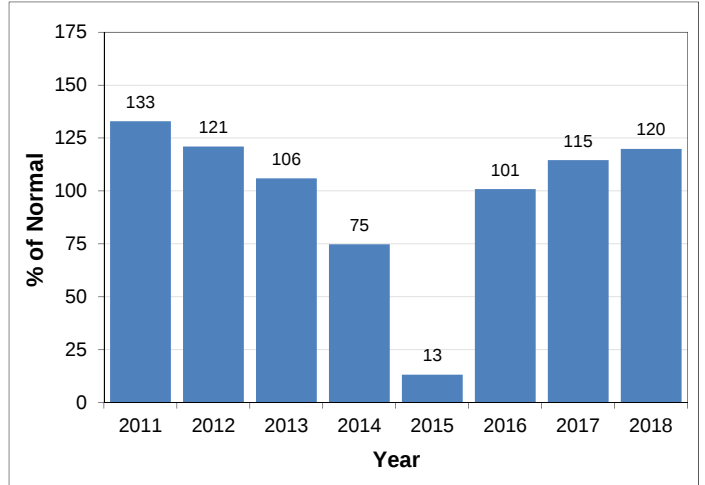


Snow Basin Index Graphs - April 1, 2018

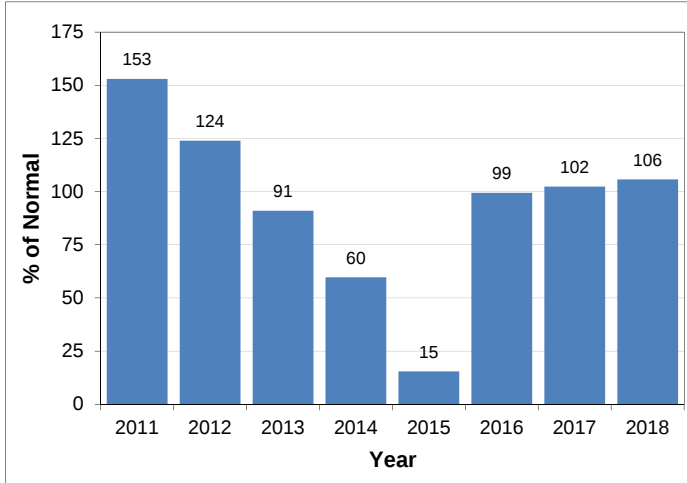
Similkameen



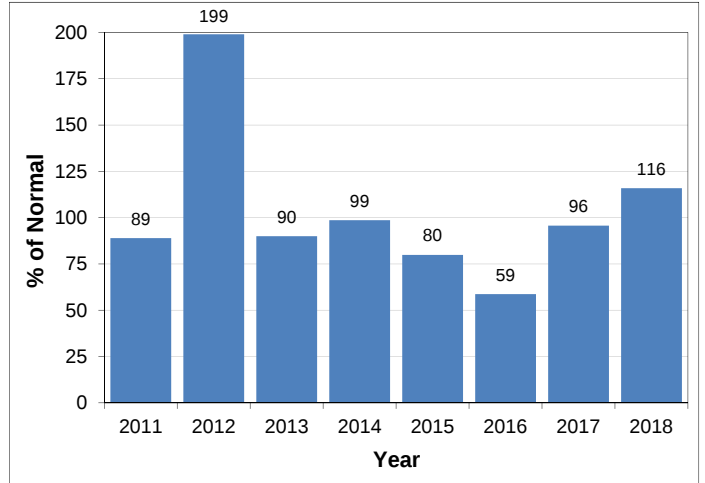
South Coast



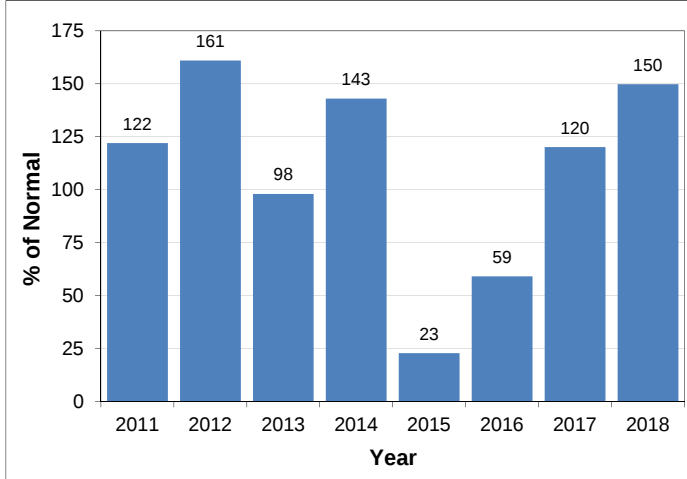
Vancouver Island



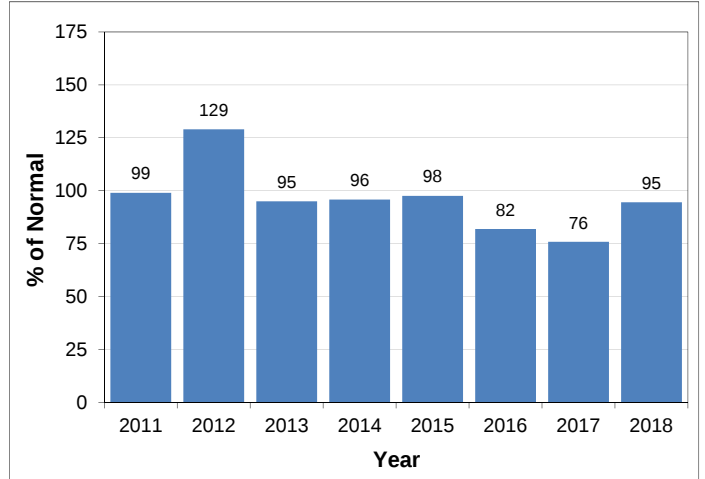
Central Coast



Skagit

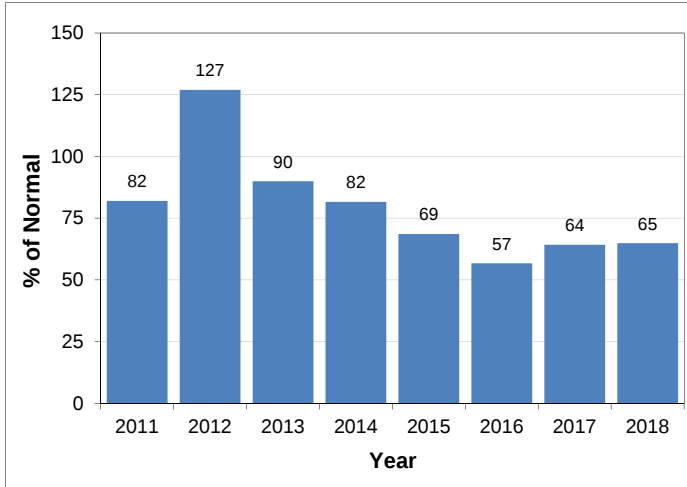


Peace

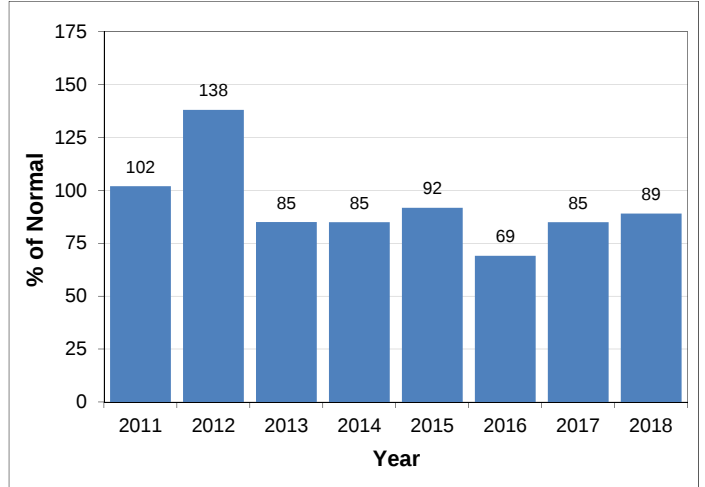


Snow Basin Index Graphs - April 1, 2018

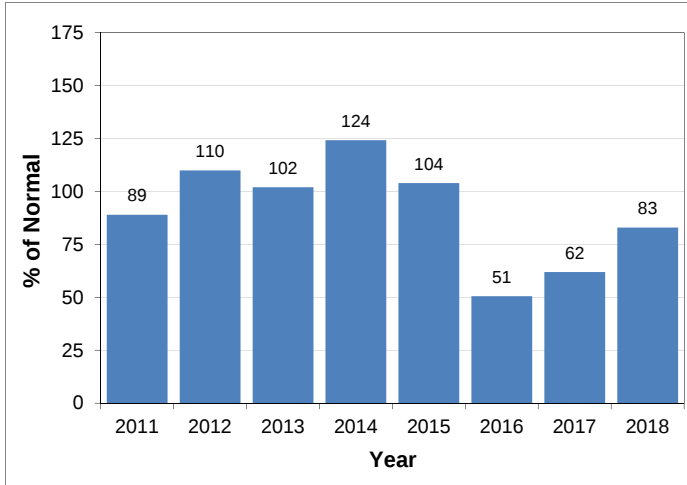
Stikine



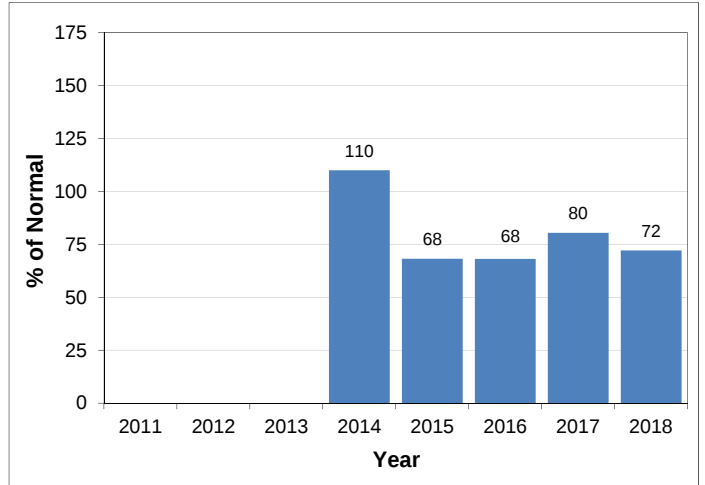
Skeena-Nass



Liard



Northwest



Ministry of Forests, Lands and Natural Resource Operations
River Forecast Centre
Volume Runoff Forecast April 2018

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					3714	3699	100%	307	5234	5166	101%	381
	McGregor at Lower Canyon					4105	3964	104%	428	5205	5010	104%	564
	Fraser at Shelley					15320	15670	98%	1179	19474	19730	99%	1562
Middle Fraser Basin	Quesnel River at Quesnel					4616	4541	102%	418	6006	5872	102%	568
Thompson Basin	N. Thompson at McLure					9230	8916	104%	481	11595	11085	105%	753
	S. Thompson at Chase					5969	5792	103%	448	7635	7359	104%	686
	Thompson at Spences Bridge					16355	15114	108%	973	20972	19094	110%	1560
Bulkley and Skeena	Bulkley at Quick					2825	2625	108%	236	3449	3222	107%	272
	Skeena at Usk					19625	18673	105%	1173	24054	23017	105%	1698
Nicola Lake	Inflows	194	121	161%	30	218	138	159%	35				
Nicola River	at Spences Bridge	731	486	150%	82	856	554	155%	101				
Okanagan and Kalamalka-Wood Lake	Okanagan Lake Inflow	677	440	154%	88	735	465	158%	108				
	Kalamalka-Wood Lake Inflow	42	28	152%	11	49	29	168%	13				
Similkameen River	Similkameen at Nighthawk	1750	1273	137%	128					2229	1583	141%	156
	Similkameen at Hedley	1400	989	142%	96					1718	1177	146%	96
Cowichan River	Cowichan Lake Inflows	283	248	114%	65					322	290	111%	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

Snow Survey and Water Supply Bulletin – May 1st, 2018

The May 1st, 2018 snow survey is now complete. Data from 150 snow courses and 72 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 forms the basis of the following report¹.

Weather

The weather in April was mixed. Temperatures were generally 1-2°C or more below normal for most areas of the BC Interior, and closer to normal, or slightly above normal in coastal BC. Precipitation was much higher than normal, particularly in the South Interior, Central Interior and Kootenay. Monthly summaries do not reflect weather patterns within the period. Cool and wet weather for the first few weeks of April led to on-going snow accumulation, followed by a rapid warming late in the month. During a high pressure system late-April temperatures reached into the mid-to-upper 20s, and many daily temperature records were set. This led to a rapid transition to spring conditions, with significant melt of low to mid-elevation snow.

Snowpack

Snow basin indices for May 1st 2018 range from a low of 69% of normal in the Stikine to a high of 264% in Upper Fraser West (Table 1 and Figure 1). Overall, the province has well above normal snow pack for May 1st. The average of all snow measurements across the province is 168% of normal, increasing significantly from 127% of normal on April 1st. Of the 222 snow measurements taken for the May 1st survey period, 60 locations exceeded their previously recorded maximum May 1st values. High snow basin indices reflect actual increases in snow water amounts over the past months in many locations. However, it is important to note that, particularly in areas which typically experience significant melt between April and May, extremely high basin index values can be reflecting the greater difference between current conditions and what would normally be a melting snow pack. Therefore, snow basin index values are enhanced when there is a delay in the melt season.

Extremely high snow packs (>150%) are present in the Upper Fraser West, Nicola, Okanagan, Similkameen, Boundary, Skagit, West Kootenay, East Kootenay. The May 1st snow index for the Okanagan is 206% of normal, which is the highest observed snow pack dating back to 1980. While many snow basin index values increased by 50% or more since April 1st, the amount of increase in snow water content over this period has been more in the 5-16% range for most basins. In the Liard basin, the high basin value represents a delay in the melt season rather than high seasonal snowpack.

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 – May 1st, 2018

In general, low to mid-elevation snow pack was significant across the province this year. In the last week of April and the first week of May this snow has been melting rapidly, leading to significant flood challenges in many areas of the province.

Table 1 - BC Snow Basin Indices – May 1, 2018

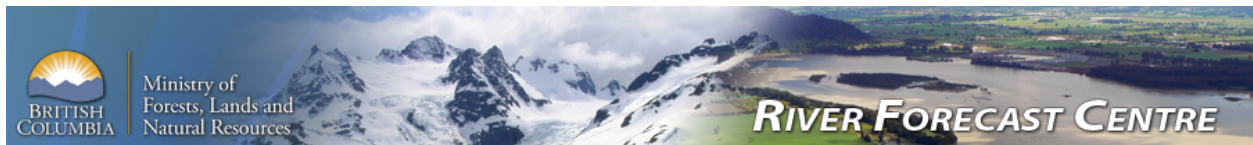
Basin	% of Normal	Basin	% of Normal
Upper Fraser West	264	Boundary	238
Upper Fraser East	112	Similkameen	210
Nechako	103	South Coast	126
Middle Fraser	115	Vancouver Island	104
Lower Fraser	125	Central Coast	143
North Thompson	108	Skagit	198
South Thompson	126	Peace	84
Upper Columbia	116	Skeena-Nass	90
West Kootenay	180	Stikine	69
East Kootenay	150	Liard	144
Okanagan	206	Northwest	112
Nicola	204	Fraser (Entire Basin)	109

Outlook

Seasonal forecasts (May to July) from Environment and Climate Change Canada are indicating an increased likelihood of above normal temperatures across British Columbia, and this has been the general weather pattern over the past two weeks.

By May 1st, 100% of the annual BC snow pack has typically accumulated. For most areas, the transition from snow accumulation to snow melt generally occurs in the middle of April; this transition began at the end of April this year. In low-to-mid elevations snowmelt was rapid over the last week of April and into early May, leading to flooding in many mid-elevation watersheds across the BC Interior.

Extremely high snow packs (>150%) in the Nicola, Similkameen, Okanagan, Boundary, Kootenay and Upper Fraser West are indicating significant flood risks this year, and in many of these areas flooding is already occurring. Snow pack in the South Thompson has also increased significantly over the past month to levels of increased seasonal flood risk. High snowpack in coastal areas tend to have less of an influence on seasonal flood risk, as coastal rivers usually have peak flows in response to extreme rainfall events in the fall and winter. Some rivers do experience “hybrid” regimes, and can have significant flows in the spring. With snow packs this year, elevated risk may be present in the Lillooet River and basins and Central Coast including the Bella Coola River and tributaries, and Dean River and tributaries.



Snow Survey and Water Supply Bulletin – May 1st, 2018

While the snow pack in the overall Fraser River basin is only slightly above normal (109%), under specific weather conditions it is possible for snow to melt rapidly throughout the entire basin. Current flow on the Fraser River at Hope (Water Survey of Canada gauge 08MF005) is 7400 m³/s, which is near or above the maximum recorded flow for this early in the season. Given weather forecasts over the next 10 days the trend of higher than normal flow on the Fraser River is expected to continue. Currently modelling is indicating the potential for flows in the 9,000-10,500 m³/s range at Hope by the middle of May, and the potential to exceed that into the third week of the month.

Snow pack is one element of seasonal flood risk during BC's freshet season. Weather patterns during the snow melt season play a critical role in whether or not flooding occurs. Intense or prolonged rainfall and extreme temperatures are important factors that can lead to flooding, even for areas with a near normal snow pack. Weather patterns forecasted over the next 10 days indicate the potential for deteriorating river conditions in most areas of the province. Typically the freshet flood season in British Columbia lasts from early May to late-June, and is occurring earlier this year. There is still abundant snow at higher elevations to maintain seasonal flood risk for another month or more.

Seasonal volume runoff forecasts (see below) are near-normal or slightly above normal (100-115%) for the Upper Fraser, Middle Fraser, Thompson, Skeena and Cowichan basins. Well above-normal (>140%) for areas of the South Interior, including the Okanagan, Similkameen, and Nicola.

Hydrological Effects of BC Wildfires in 2017

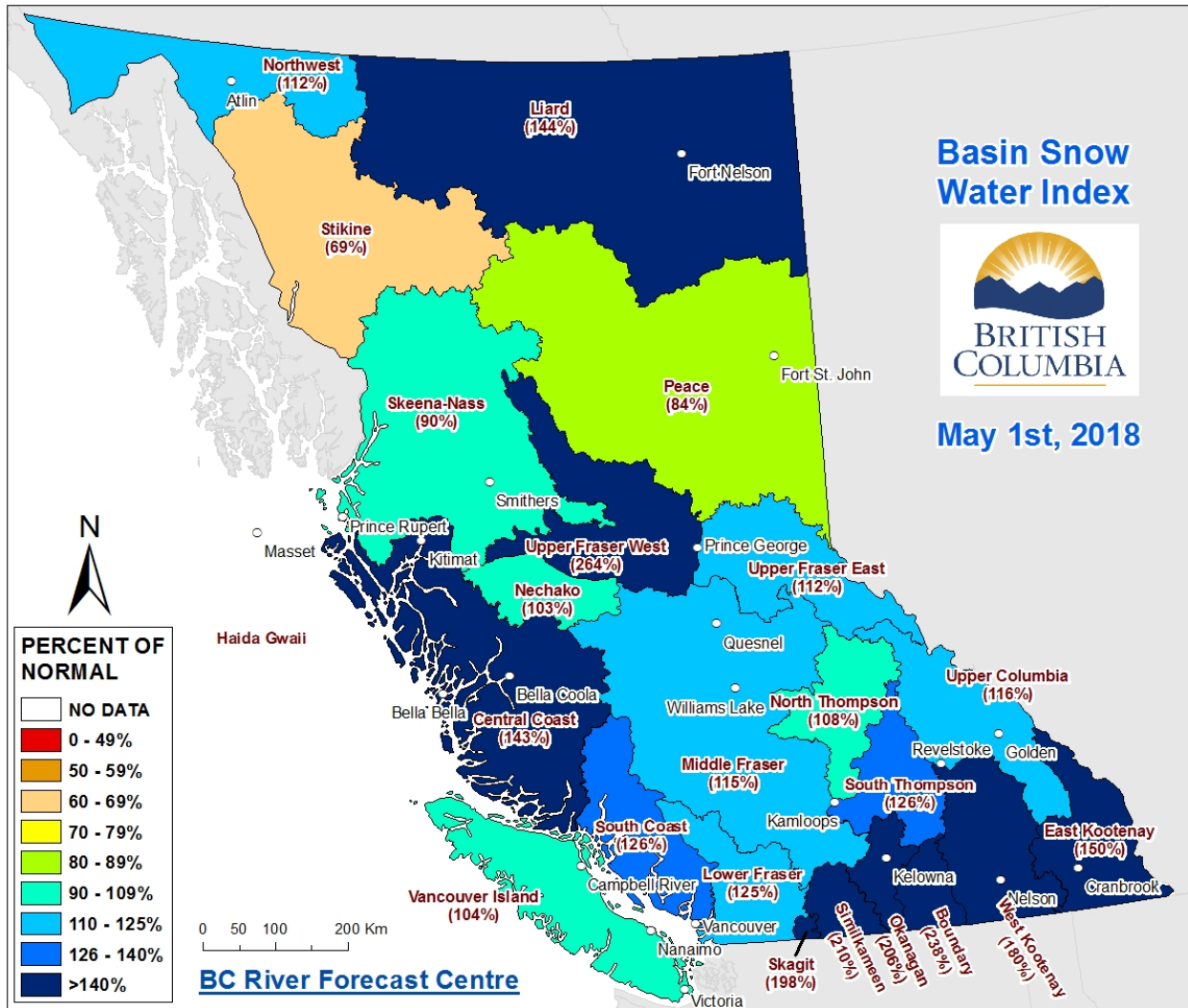
Many areas that were affected by wildfires last year have been experiencing flooding already this spring. Areas which have higher elevation terrain and may still be susceptible to increased flood risk due to the fires include the Chilcotin River, Deadman River and areas in the upper Kootenay River.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the May 15th 2018 bulletin, which is scheduled for release on May 22nd.

BC River Forecast Centre
May 7, 2018

Snow Survey and Water Supply Bulletin – May 1st, 2018

Figure 1: Basin Snow Water Index – May 1st, 2018



2018 Automated Snow Weather Station/Manual Snow Survey Data				May 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	Yellowhead Lake	Upper Fraser East	1847	2018-05-01	145	648		115%	564	386	254	833	565	21
1A02P	McBride Upper	Upper Fraser East	1608	2018-05-01	128	490		106%	430	203	198	749	462	26
1A03P	Barkerville	Upper Fraser East	1483	2018-05-01	73	281		81%	328	2	123	604	346	43
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	2018-05-02	192	806		97%		462	296	1370	830	63
1A05P	Longworth Upper	Upper Fraser East	1740	2018-05-01	217	767			657		657	657		1
1A06A	HANSARD	Upper Fraser East	622	NS	NS	NS	NS						0	2
1A10	PRINCE GEORGE A	Upper Fraser East	684	NS	NS	NS	NS				0	216	10	41
1A11	PACIFIC LAKE	Upper Fraser East	756	2018-05-02	153	732		144%	297	0	93	976	507	55
1A12	KAZA LAKE	Upper Fraser West	1247	N	N	N	N		230	200	132	481	328	55
1A12P	Kaza Lake	Upper Fraser West	1248	2018-05-01	99	334			241	193	193	241		2
1A14P	Hedrick Lake	Upper Fraser East	1118	2018-05-01	187	786		96%	427	248	214	1279	820	18
1A15	KNUDSEN LAKE	Upper Fraser East	1598	2018-05-02	225	1001		115%	679		501	1346	868	50
1A15P	Knudsen Lake	Upper Fraser East	1601	2018-05-01	204	640			526		526	526		1
1A16	BURNS LAKE	Upper Fraser West	820	2018-04-27	40	124		477%	0	0	0	148	26	40
1A17P	Revolution Creek	Upper Fraser East	1676	2018-05-01	210	871		108%	673	517	326	1349	804	33
1A19P	Dome Mountain	Upper Fraser East	1768	2018-05-01	190	715		88%	673	535	298	1163	810	12
1A23	BIRD CREEK	Upper Fraser West	1196	2018-05-01	61	218		559%	58	0	0	204	39	27
1B01	MOUNT WELLS	Nechako	1489	2018-05-01	150	627		129%	590	255	201	958	487	64
1B01P	Mount Wells	Nechako	1489	2018-05-01		725		127%	672	325	227	919	569	26
1B02	TAHTSA LAKE	Nechako	1319	2018-05-01	236	1060		84%	1265	877	701	2073	1256	65
1B02P	Tahtsa Lake	Nechako	1319	2018-05-01		1249		92%	1359	1012	464	2348	1362	26
1B05	SKINS LAKE	Nechako	877	2018-05-01	13	42		1400%	0	0	0	100	3	47
1B06	MOUNT SWANNELL	Nechako	1596	2018-05-01	94	337		117%	312	15	109	499	287	28
1B07	NUTLI LAKE	Nechako	1502	2018-05-01	121	481		94%	579	227	250	870	513	26
1B08P	Mount Pondosy	Nechako	1413	2018-05-01		824		104%	1013	527	363	1277	794	26
1C01	BROOKMERE	Middle Fraser	994	2018-04-30	26	97		149%	99	0	0	419	65	72
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	2018-04-27	130	544		95%	590	321	239	1118	573	66
1C05P	McGillivray Pass	Middle Fraser	1766	2018-05-01		618								
1C06	PAVILION	Middle Fraser	1209	2018-04-30	0	0					0	0	0	16
1C08	NAZKO	Middle Fraser	1029	N	N	N	N				0	46	3	25
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	2018-04-24	60	181		905%	101	0	0	142	20	49
1C12P	Green Mountain	Middle Fraser	1766	2018-05-01		774		85%	788	736	429	1373	909	24
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	2018-04-30	153	612		150%	460	282	136	676	408	48
1C14	BRALORNE	Middle Fraser	1382	2018-04-27	39	133		229%	161	0	0	255	58	54
1C14P	Bralorne	Middle Fraser	1382	2018-05-01	27	58								
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2018-05-01	99	370		144%	235	90	118	536	257	57
1C18P	Mission Ridge	Middle Fraser	1903	2018-05-01		646		130%	659	238	147	1028	496	48

2018 Automated Snow Weather Station/Manual Snow Survey Data				May 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	N	N	N	N		160	0	0	241	54	48
1C20P	Boss Mountain Mine	Middle Fraser	1477	2018-05-01	145	619		104%	574	394	255	821	597	24
1C21	BIG CREEK	Middle Fraser	1130	2018-04-28	0	0		0%	0		0	48	12	7
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	2018-05-01	0	0					0	22	0	11
1C23	PENFOLD CREEK	Middle Fraser	1687	2018-05-01	232	991		93%		829	525	1420	1064	47
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	2018-05-04	41	162		540%		0	0	168	30	44
1C28	DUFFEY LAKE	Middle Fraser	1253	NS	NS	NS	NS				206	624	377	14
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	2018-04-30	62	255		311%		0	0	305	82	36
1C32	DEADMAN RIVER	Middle Fraser	1463	N	N	N	N		0	0	0	194	32	34
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	2018-05-04	31	114		128%		0	0	221	89	11
1C37	BRALORNE(UPPER)	Middle Fraser	1980	N	N	N	N		764	513	290	1092	676	23
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	N	N	N	N		888	852	450	1340	856	23
1C38P	Downton Lake Upper	Middle Fraser	1829	2018-05-01		687			869	807	807	869		2
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	2018-04-27	164	654		109%	612	640	244	1018	600	23
1C40	TYAUGHTON	Middle Fraser	1946	2018-04-27	135	532		120%	394	258	198	806	443	23
1C40P	North Tyaughton	Middle Fraser	1969	2018-05-01		439			354	180	180	354		2
1C41P	Yanks Peak East	Middle Fraser	1683	2018-05-01	199	923		112%	818	619	365	1058	825	21
1C42	CAVERHILL LAKE	Middle Fraser	1400	NS	NS	NS	NS				172	172		2
1D06P	Tenquille Lake	Lower Fraser	1669	2018-05-01	263	1192		114%	1401	953	526	1705	1047	17
1D08	STAVE LAKE	Lower Fraser	1211	2018-04-25	348	1721		114%	1918	1210	62	3120	1513	51
1D09	WAHLEACH LAKE	Lower Fraser	1395	N	N	N	N			236	4	709	615	50
1D09P	Wahleach Lake Upper	Lower Fraser	1408	2018-05-01		1200		115%	632	595	290	1757	1043	26
1D10	NAHATLATCH RIVER	Lower Fraser	1530	N	N	N	N		1739	1196	468	2720	1361	49
1D16	DICKSON LAKE	Lower Fraser	1147	2018-04-25	418	2002		129%		876	4	3180	1553	26
1D17P	Chilliwack River	Lower Fraser	1621	2018-05-01	364	1873		124%	1769	1253	675	2436	1513	26
1D19P	Spuzzum Creek	Lower Fraser	1197	2018-05-01	303	1663		102%	1881	1119	162	2930	1635	19
1E01B	BLUE RIVER	North Thompson	673	2018-04-26	54	186		641%	146	0	0	265	29	34
1E02P	Mount Cook	North Thompson	1574	2018-05-01	316	1397		104%	1327	1527	684	1665	1346	18
1E03A	TROPHY MOUNTAIN	North Thompson	1907	2018-04-30	172	654		108%	664		417	960	607	43
1E05	KNOUFF LAKE	North Thompson	1189	NS	NS	NS	NS				0	142	45	10
1E07	ADAMS RIVER	North Thompson	1769	2018-04-27	198	864		119%	934	740	396	1173	726	47
1E08P	Azure River	North Thompson	1625	2018-05-01	221	1034		85%	1338	1010	528	1635	1214	21
1E10P	Kostal Lake	North Thompson	1760	2018-05-01	193	911		102%	974	903	417	1268	891	33
1E14P	Cook Creek	North Thompson	1280	2018-05-01	118	710			64	0	120	604	372	11
1F01A	ABERDEEN LAKE	South Thompson	1262	2018-04-27	36	114		600%	47		0	165	19	61
1F02	ANGLEMONT	South Thompson	1168	2018-04-30	85	376		235%		0	0	496	160	58
1F03P	Park Mountain	South Thompson	1857	2018-05-01	253	1175		123%	993	890	379	1343	955	33

2018 Automated Snow Weather Station/Manual Snow Survey Data				May 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1F04P	Enderby	South Thompson	1950	2018-05-01	332	1195			1146		1146	1146		1
1F06P	Celista Mountain	South Thompson	1533	2018-05-01	230	1229		134%	1114	1013	506	1187	914	13
2A01A	CANOE RIVER	Upper Columbia	866	NS	NS	NS	NS				0	147	5	26
2A02	GLACIER	Upper Columbia	1249	2018-04-26	163	676		105%	614	481	320	1247	643	72
2A03A	FIELD	Upper Columbia	1310	NS	NS	NS	NS				0	178	20	52
2A06P	Mount Revelstoke	Upper Columbia	1770	2018-05-01		1316		104%	1383	1117	595	1625	1265	25
2A07	KICKING HORSE	Upper Columbia	1648	2018-04-30	111	426		144%	322	120	63	589	296	68
2A11	BEAVERFOOT	Upper Columbia	1924	2018-04-27	80	238		140%	238	44	0	495	170	69
2A14	MOUNT ABBOT	Upper Columbia	2031	2018-04-25	334	1460		109%	1495	1063	600	1885	1345	59
2A16	GOLDSTREAM	Upper Columbia	1914	2018-04-26	292	1193		99%	1339	1039	584	1781	1200	55
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	2018-04-28	312	1420		109%	1395	1108	590	1986	1306	55
2A18	KEYSTONE CREEK	Upper Columbia	1839	2018-04-26	234	903		110%	1004	705	414	1421	823	51
2A18P	Keystone Creek	Upper Columbia	1850	2018-05-01		1069			1288	744	544	744		2
2A19	VERMONT CREEK	Upper Columbia	1533	2018-04-27	114	449		137%	424	180	0	1026	327	52
2A21P	Molson Creek	Upper Columbia	1930	2018-05-01		1186		108%	1144	886	481	1678	1100	37
2A22	SUNBEAM LAKE	Upper Columbia	2066	2018-04-26	268	1083		115%	1045	762	469	1562	939	51
2A23	BUSH RIVER	Upper Columbia	1982	2018-04-26	227	870		104%	993	677	483	1392	834	51
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	2018-04-26	319	1341		108%	1540	1162	671	1797	1243	46
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	2018-04-26	164	698		135%	584	348	0	910	517	40
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	2018-04-26	360	1564		112%	1640	1320	335	2242	1402	40
2A30P	Colpitti Creek	Upper Columbia	2131	2018-05-01		1106			1122	602	602	1122		2
2A31P	Caribou Creek Upper	Upper Columbia	2201	2018-05-01		1189			1214	795	795	1214		2
2A32P	Wildcat Creek	Upper Columbia	2122	2018-05-01		690			751	442	442	751		2
2B02A	FARRON	Lower Columbia	1229	2018-04-27	101	437		239%	309	66	0	406	183	45
2B05	WHATSHAN (UPPER)	Lower Columbia	1476	2018-04-25	199	831		149%	596	374	255	983	557	57
2B06P	Barnes Creek	Lower Columbia	1595	2018-05-01		794		147%	549	550	272	821	541	25
2B07	KOCH CREEK	Lower Columbia	1813	2018-04-25	254	974		125%	971	701	391	1201	778	58
2B08P	St. Leon Creek	Lower Columbia	1822	2018-05-01		1403		126%	1394	949	536	1501	1113	25
2B09	RECORD MOUNTAIN	Lower Columbia	1906	2018-04-28	230	914		126%	1080	520	157	1278	727	43
2C01	SINCLAIR PASS	East Kootenay	1374	2018-04-30	21	74		200%	30	0	0	246	37	72
2C04	SULLIVAN MINE	East Kootenay	1580	2018-04-28	110	416		229%	288	54	0	518	182	71
2C07	FERNIE EAST	East Kootenay	1213	2018-04-28	80	318		234%	202	0	0	541	136	67
2C09Q	Morrissey Ridge	East Kootenay	1966	2018-05-01		735		110%	812	325	308	1332	670	38
2C10P	Moyie Mountain	East Kootenay	1840	2018-05-01	100	534		158%	583	0	18	689	338	39
2C14P	Floe Lake	East Kootenay	2110	2018-05-01		951		124%	994	528	331	1188	767	25
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	2018-04-27	180	650		115%		434	270	930	566	47
2C16	MOUNT JOFFRE	East Kootenay	1763	2018-04-27	128	447		129%	362	216	36	772	346	49

2018 Automated Snow Weather Station/Manual Snow Survey Data				May 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2C17	THUNDER CREEK	East Kootenay	2062	2018-04-27	114	362		134%	360	189	163	556	271	49
2D02	FERGUSON	West Kootenay	929	2018-04-26	125	586		137%		313	160	773	429	70
2D03	SANDON	West Kootenay	1072	2018-05-02	52	266		591%	132	0	0	399	45	68
2D04	NELSON	West Kootenay	952	2018-04-25	71	299		209%	67	0	0	508	143	60
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	2018-04-30	141	600		140%	512	305	229	726	429	69
2D06	CHAR CREEK	West Kootenay	1290	2018-05-01	159	660		147%	549	287	79	838	449	52
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS	NS	NS	NS				0	42	14	5
2D08P	East Creek	West Kootenay	2004	2018-05-01		1033		114%	1164	794	480	1346	910	37
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	N	N	N	N		1240	903	520	1679	1075	51
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	2018-04-30	234	987		129%	946	648	505	1300	767	48
2D14P	Redfish Creek	West Kootenay	2086	2018-05-01	408	1770		136%	2035	1494	751	2035	1298	16
2E01	MONASHEE PASS	Kettle	1387	2018-04-25	124	487		183%	305	114	67	505	266	60
2E02	CARMI	Kettle	1254	2018-05-01	17	63		525%	0	0	0	173	12	54
2E03	BIG WHITE MOUNTAIN	Kettle	1672	2018-05-01	171	723		160%	547	340	237	762	451	52
2E07P	Grano Creek	Kettle	1874	2018-05-01	190	878		157%	708	546	285	814	561	20
2F01A	TROUT CREEK (West)	Okanagan	1430	2018-04-25	82	298		266%	160	30	93	292	112	7
2F01P	Trout Creek West	Okanagan	1420	2018-05-01	58	302	E							0
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	2018-04-26	79	305		363%	185	0	0	368	84	53
2F03	MC CULLOCH	Okanagan	1266	2018-04-30	22	82		683%	42	0	0	188	12	70
2F04	GRAYSTOKE LAKE	Okanagan	1818	2018-05-01	144	564		164%	450	232	120	940	343	44
2F05P	Mission Creek	Okanagan	1794	2018-05-01	188	804		167%	590	471	141	784	481	48
2F07	POSTILL LAKE	Okanagan	1358	2018-04-30	69	268		221%	191	0	0	282	121	66
2F08P	Greyback Reservoir	Okanagan	1550	2018-05-01	87	270			270		270	270		1
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2018-04-29	150	647		138%	708	456	175	1013	470	47
2F10P	Silver Star Mountain	Okanagan	1839	2018-05-01	287	1238	E		809	784	784	809		2
2F11	ISINTOK LAKE	Okanagan	1651	2018-04-26	94	318		324%	174	0	0	437	98	53
2F12	MOUNT KOBAU	Okanagan	1817	2018-04-28	150	568		184%	468	300	53	597	309	52
2F13	ESPERON CR (UPPER)	Okanagan	1634	2018-04-30	116	464		134%	456	346	119	805	346	48
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	2018-04-30	94	390		181%	372		0	551	216	32
2F18P	Brenda Mine	Okanagan	1453	2018-05-01		260		203%	288	7	0	342	128	25
2F19	OOYAMA LAKE	Okanagan	1365	2018-05-01	43	154		280%	84	0	0	185	55	48
2F20	VASEUX CREEK	Okanagan	1403	2018-04-28	62	186		454%	96	0	0	192	41	46
2F21	BOULEAU LAKE	Okanagan	1405	2018-04-25	129	476		190%	344	16	40	488	251	47
2F23	MACDONALD LAKE	Okanagan	1742	N	N	N	N		590	420	198	650	421	40
2F24	ISLAHT LAKE	Okanagan	1492	2018-04-27	106	428		183%	320	189	64	433	234	36
2F25	POSTILL LAKE UPPER	Okanagan	1500	N	N	N	N			0	0	0		3
2G03P	Blackwall Peak	Similkameen	1934	2018-05-01	223	1000		130%	812	663	375	1569	768	50

2018 Automated Snow Weather Station/Manual Snow Survey Data				May 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	2018-04-29	124	455	B	212%	236	10	64	554	215	58
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2018-04-29	67	229	B	225%	206	0	0	323	102	58
2G06	HAMILTON HILL	Similkameen	1477	2018-04-28	76	304	B	160%	254	0	0	838	190	58
3A01	GROUSE MOUNTAIN	South Coast	1126	2018-04-30	341	1730		148%	1730	752	0	2870	1170	68
3A02	POWELL RIVER (UPPER)	South Coast	1002	2018-04-19	256	1110		142%			533	1712	783	9
3A05	POWELL RIVER (LOWER)	South Coast	882	2018-04-19	154	679		195%			181	426	349	7
3A09	PALISADE LAKE	South Coast	898	2018-05-01	273	1524		118%	1648	670	0	3600	1291	68
3A10	DOG MOUNTAIN	South Coast	1007	2018-04-27	290	1514		133%	1762	662	0	2760	1137	34
3A19	ORCHID LAKE	South Coast	1178	2018-05-01	416	2240		120%	2423	1453	100	3845	1866	46
3A20	CALLAGHAN CREEK	South Coast	1009	2018-04-27	205	990		139%		598	0	1568	711	41
3A22P	Nostetuko River	South Coast	1457	2018-05-01	117	609		112%	527	355	201	1053	542	29
3A24P	Mosley Creek Upper	South Coast	1655	2018-05-01	112	384		151%	319	19	143	532	254	29
3A25P	Squamish River Upper	South Coast	1387	2018-05-01	369	1802		113%	1775	1459	695	2910	1597	28
3A26	CHAPMAN CREEK	South Coast	1022	2018-05-01	370	1873	A				756	1710	262	8
3A27	EDWARDS LAKE	South Coast	1070	NS	NS	NS	NS				400	1180		6
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	2018-04-25	322	1562		104%	1507	1386	0	3500	1507	61
3B02A	MOUNT COKELY	Vancouver Island	1267	2018-05-02	195	962		118%		100	0	2062	813	35
3B04	ELK RIVER	Vancouver Island	270	2018-04-25	0	0			0	0	0	40	0	34
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	2018-04-25	269	1248		84%	1460	1136	0	3560	1484	60
3B17P	Wolf River Upper	Vancouver Island	1422	2018-05-01		1300		96%	1373	1112	374	2691	1356	36
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	2018-04-25	101	422		77%	586	120	0	1652	546	48
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	2018-04-25	14	54		40%	62	0	0	1118	134	48
3B23P	Jump Creek	Vancouver Island	1134	2018-05-01	242	1320		112%	1432	426	0	3485	1180	22
3B24P	Heather Mountain Upper	Vancouver Island	1190	2018-05-01	327	1893			1933	1248	1248	1933		2
3B26P	Mount Arrowsmith	Vancouver Island	1465	2018-05-01	307	1265								0
3C07	WEDEENE RIVER SOUTH	North Coast	196	2018-04-30	54	280		206%	36	0	0	749	136	30
3C08P	Burnt Bridge Creek	North Coast	1329	2018-05-01	148	620	E	80%	729	392	382	1464	776	20
3D01C	SUMALLO RIVER WEST	Skagit	801	N	N	N	N		96	0	0	371	66	25
3D02	LIGHTNING LAKE	Skagit	1254	2018-04-27	79	332	B	149%	213	155	7	599	223	46
3D03A	KLESILKWA	Skagit	1134	2018-04-25	59	254		247%	105	0	0	752	103	45
4A02P	Pine Pass	Peace	1386	2018-05-01	242	1052		98%	959	956	363	1704	1072	29
4A03	WARE (UPPER)	Peace	1563	2018-04-30	95	237		86%	213	149	90	402	274	57
4A03P	Ware Upper	Peace	1565	2018-05-01	71	255			216		216	216		1
4A04	WARE (LOWER)	Peace	969	2018-04-30	41	104		84%	71	13	0	229	124	56
4A04P	Ware Lower	Peace	971	2018-05-01	19	114			36		36	36		1
4A05	GERMANSEN (UPPER)	Peace	1489	2018-05-01	104	295		83%	238	259	156	597	355	57
4A06	TUTIZZI LAKE	Peace	1043	2018-05-01	38	134		86%	83	0	0	325	155	55

2018 Automated Snow Weather Station/Manual Snow Survey Data				May 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4A07	LADY LAURIER LAKE	Peace	1460	2018-04-29	143	501		90%	439	425	194	926	555	55
4A09	PULPIT LAKE	Peace	1331	N	N	N			325	270	152	623	418	55
4A09P	Pulpit Lake	Peace	1331	2018-05-01	82	308		76%	258	183	133	633	407	28
4A10	FREDRICKSON LAKE	Peace	1323	2018-04-30	59	155		67%	131	87	93	358	231	55
4A11	TRYGVE LAKE	Peace	1409	2018-04-30	90	282		74%	267	220	119	599	381	55
4A12	TSAYDAYCHI LAKE	Peace	1173	2018-05-01	104	349		90%	328	250	166	700	386	55
4A13	PHILIP LAKE	Peace	1013	2018-05-01	38	109		56%	89	52	0	406	196	55
4A16	MORFEE MOUNTAIN	Peace	1427	2018-05-01	166	674		83%	606	597	265	1181	812	49
4A18	MOUNT SHEBA	Peace	1480	2018-05-02	220	958		108%	805	591	369	1371	891	49
4A20	MONKMAN CREEK	Peace	1566	2018-05-02	177	768		132%	603	337	190	1042	580	44
4A21	MOUNT STEARNS	Peace	1514	2018-04-29	55	135		92%	206	17	0	271	146	44
4A25	FORT ST. JOHN A	Peace	692	NS	NS	NS			0		0	56	0	28
4A27P	Kwadacha North	Peace	1554	2018-05-01	90	306			267		267	267		1
4A30P	Aiken Lake	Peace	1061	2018-05-01	34	143		79%	123	17	71	313	181	33
4A31P	Crying Girl Prairie	Peace	1358	2018-05-01		229			313	0	0	313		2
4A33P	Muskwa-Kechika	Peace	1196	2018-05-01		37			101	0	0	101		2
4A34P	Dowling Creek	Peace	1456	2018-05-01		1254			444		444	444		1
4B01	KIDPRICE LAKE	Skeena-Nass	1415	2018-05-01	202	913		96%	997	593	551	1591	951	65
4B02	JOHANSON LAKE	Skeena-Nass	1480	2018-05-01	79	187		62%	226	200	108	433	301	55
4B03A	HUDSON BAY MTN.	Skeena-Nass	1452	2018-04-25	162	585		115%	443	272	168	795	509	46
4B04	CHAPMAN LAKE	Skeena-Nass	1485	2018-04-25	170	630		133%	463	286	308	749	473	51
4B06	TACHEK CREEK	Skeena-Nass	1133	2018-04-25	92	288		165%	130	58	55	363	175	49
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	2018-04-25	124	453		203%	158	72	80	422	223	50
4B08	MOUNT CRONIN	Skeena-Nass	1491	2018-04-25	212	789		128%	595	429	422	1125	616	49
4B10	NINGUNSAW PASS	Nass	647	2018-04-26	44	164		62%		0	0	676	263	39
4B11A	BEAR PASS	Nass	437	N	N	N	N			0	256	860	541	25
4B12P	Granduc Mine	Skeena-Nass	790	2018-05-01	268				82		82	82		1
4B13A	TERRACE A	Skeena-Nass	219	N	N	N	N		0		0	68	14	8
4B14	EQUITY MINE	Skeena-Nass	1434	N	N	N	N		434	220	212	690	373	41
4B15	LU LAKE	Skeena-Nass	1296	N	N	N	N		276	132	144	528	267	40
4B15P	Lu Lake	Skeena-Nass	1308	2018-05-01	96	441		194%	320	106	79	517	227	20
4B16P	Shedin Creek	Skeena-Nass	1320	2018-05-01	164	593		61%	514	487	195	1310	972	22
4B17P	Tsai Creek	Skeena-Nass	1360	2018-05-01	212	1185		91%	1053	834	302	2081	1307	20
4B18P	Cedar-Kiteen	Skeena-Nass	912	2018-05-01					267	11	178	1075	612	17
4C01	SIKANNI LAKE	Liard	1390	2018-04-30	76	145		55%	171	88	78	404	266	55
4C01P	Sikanni Lake	Liard	1400	2018-05-01	73	275			159		159	159		1
4C02	SUMMIT LAKE	Liard	1291	2018-04-26	55	115		261%	120	0	0	200	44	53

Ministry of Forests, Lands and Natural Resource Operations
River Forecast Centre
Volume Runoff Forecast May 2018

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					3370	3534	95%	297	4940	5000	99%	373
	McGregor at Lower Canyon					3792	3552	107%	376	4899	4598	107%	563
	Fraser at Shelley					12944	13672	95%	1070	16917	17732	95%	1657
Middle Fraser Basin	Quesnel River at Quesnel					4151	4117	101%	396	5533	5448	102%	574
Thompson Basin	N. Thompson at McLure					8548	8209	104%	425	10911	10379	105%	785
	S. Thompson at Chase					5738	5298	108%	403	7495	6865	109%	659
	Thompson at Spences Bridge					15489	13923	111%	825	20165	17903	113%	1510
Bulkley and Skeena	Bulkley at Quick					2823	2383	118%	185	3481	2980	108%	220
	Skeena at Usk					18771	17317	108%	964	22924	21661	106%	1463
Nicola Lake	Inflows	193	105	185%	28	241	122	198%	33				
Nicola River	at Spences Bridge	663	409	162%	76	792	476	166%	98				
Okanagan and Kalamalka-Wood Lake	Okanagan Lake Inflow	691	349	198%	81	779	376	207%	103				
	Kalamalka-Wood Lake Inflow	41	19	214%	8	47	20	229%	11				
Similkameen River	Similkameen at Nighthawk	1619	1101	147%	152					2148	1411	152%	193
	Similkameen at Hedley	1220	827	148%	91					1545	1015	152%	105
Cowichan River	Cowichan Lake Inflows	123	118	105%	32					157	153	103%	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

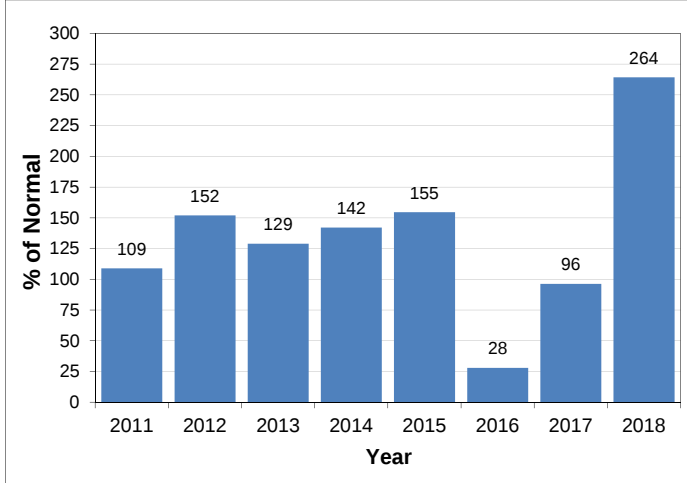
The Standard Error in the Cowichan forecast reflects model error, and does not capture uncertainty over seasonal weather

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

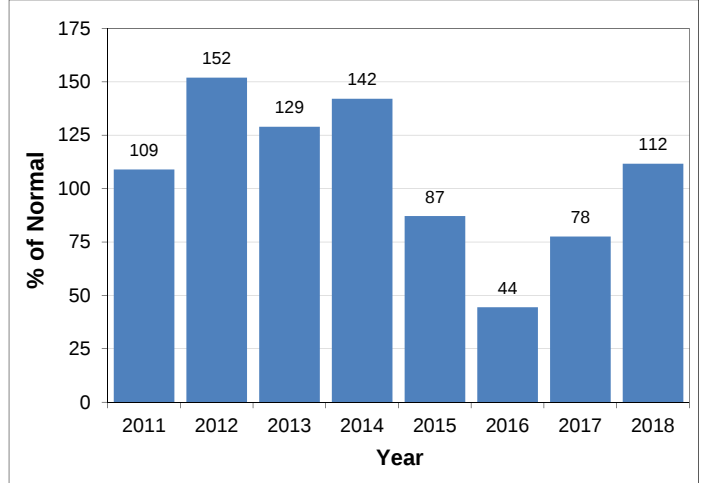
Use at your own risk

Snow Basin Index Graphs - May 1, 2018

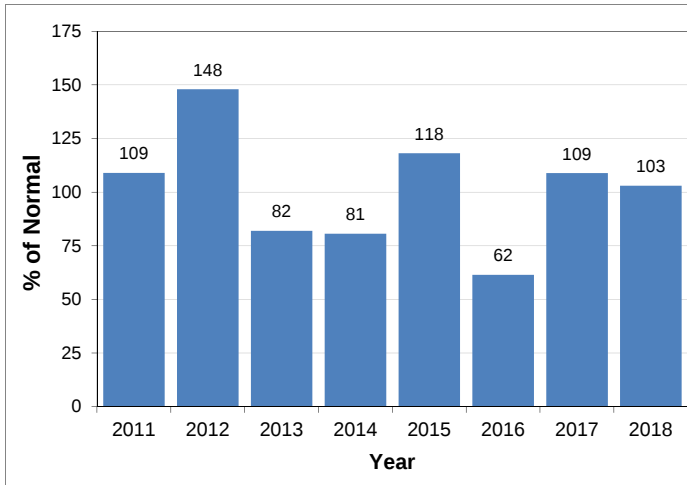
Upper Fraser West



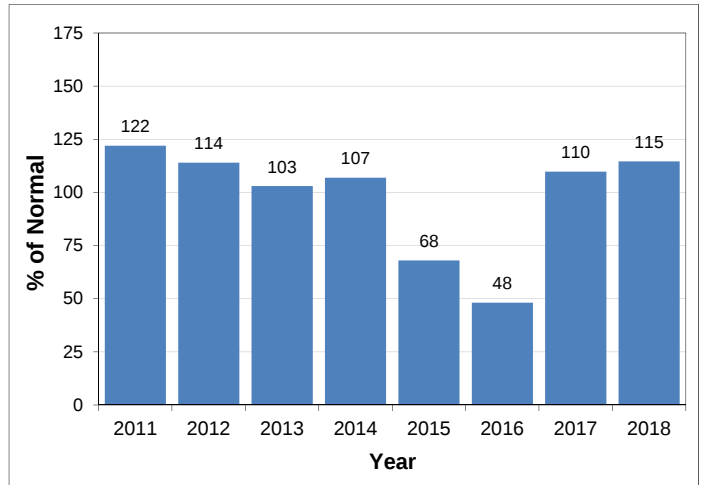
Upper Fraser East



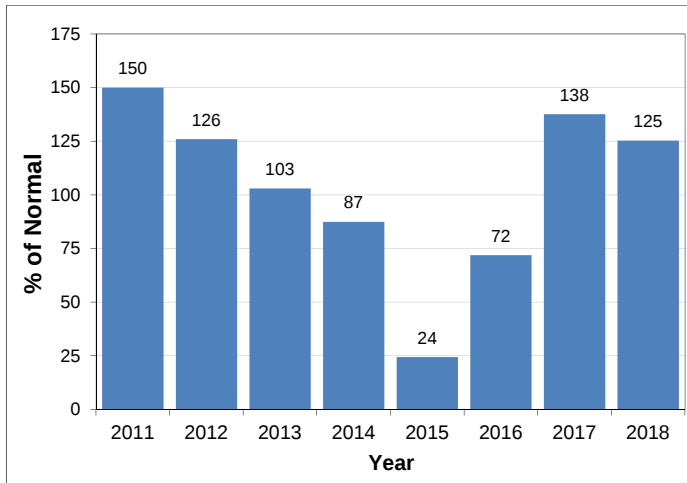
Nechako



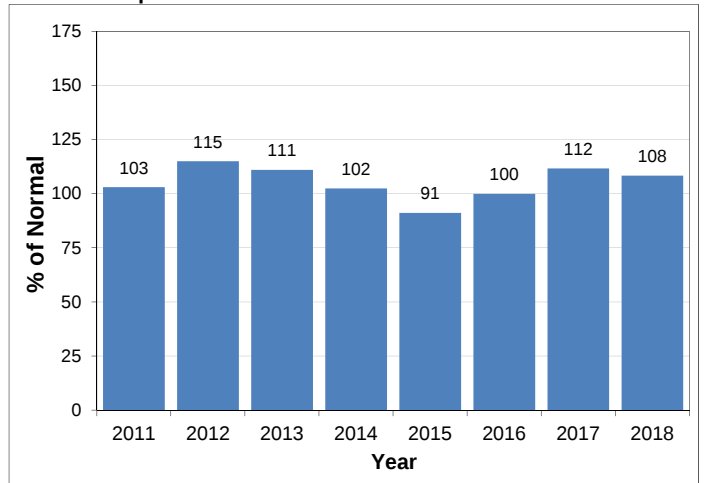
Middle Fraser



Lower Fraser

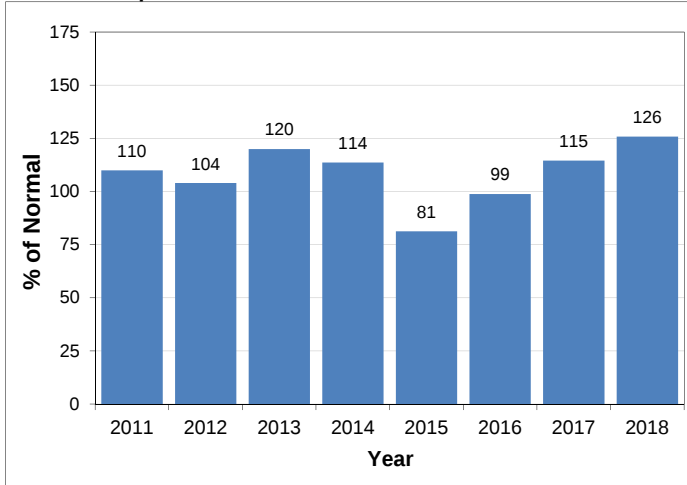


North Thompson

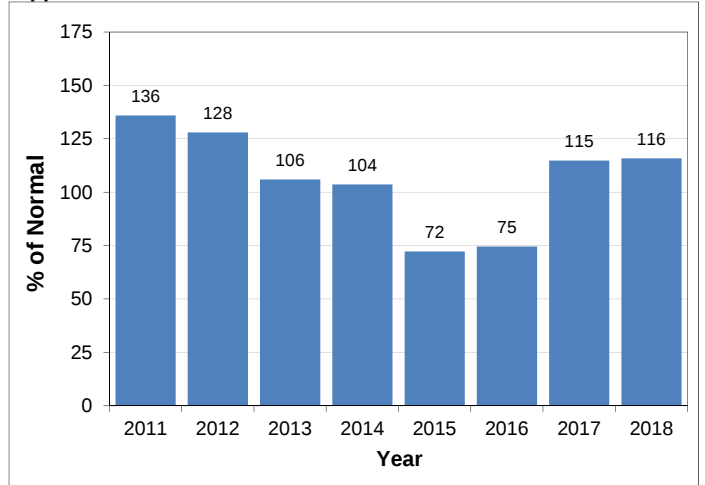


Snow Basin Index Graphs - May 1, 2018

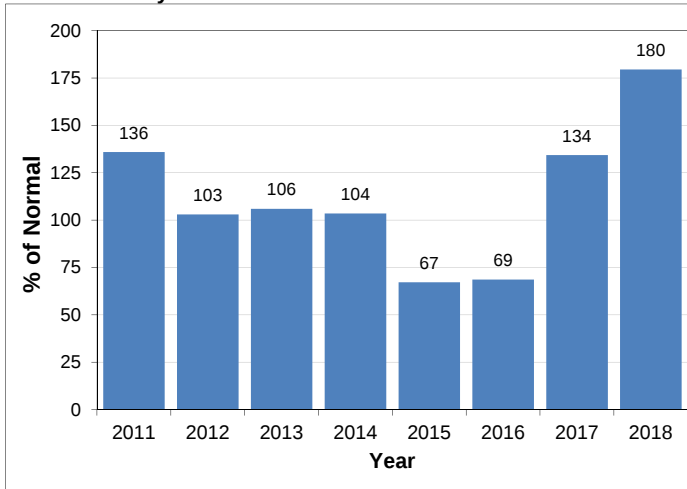
South Thompson



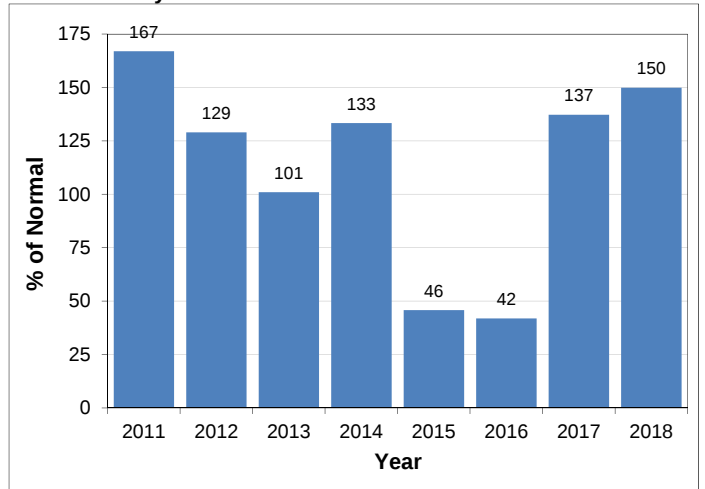
Upper Columbia



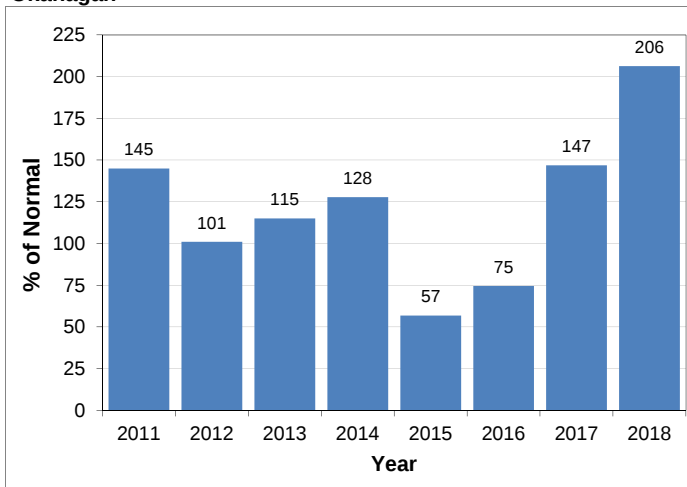
West Kootenay



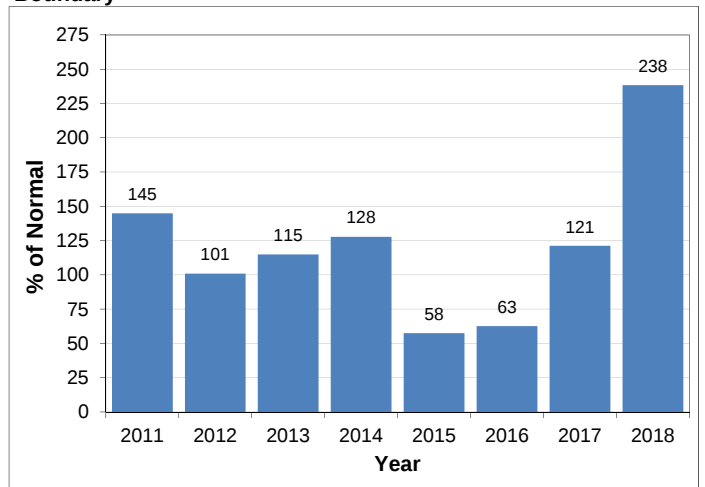
East Kootenay



Okanagan

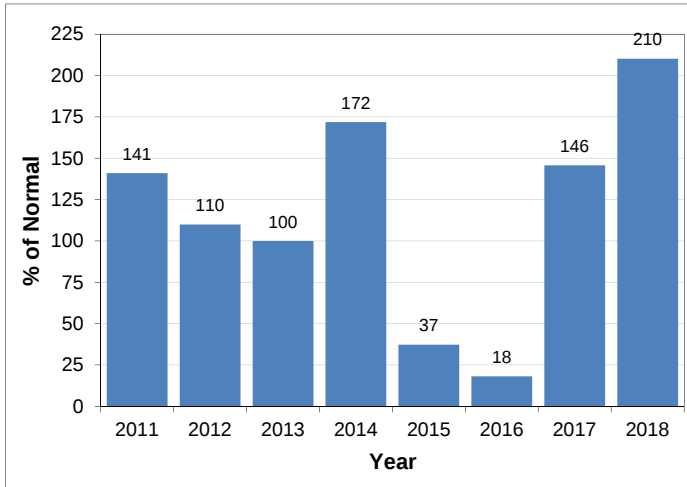


Boundary

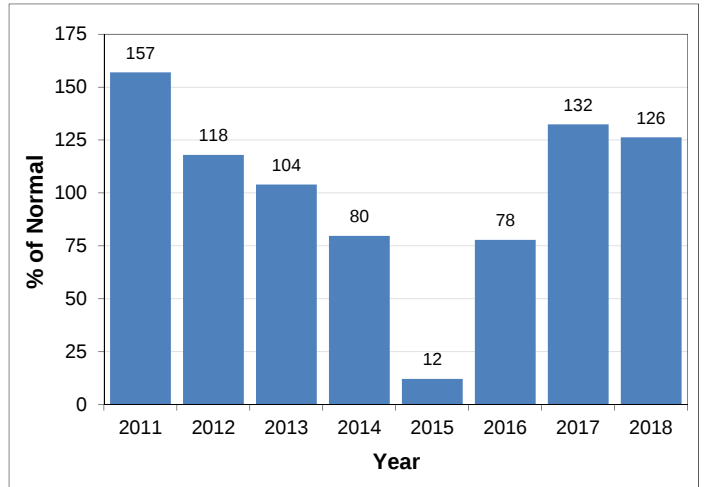


Snow Basin Index Graphs - May 1, 2018

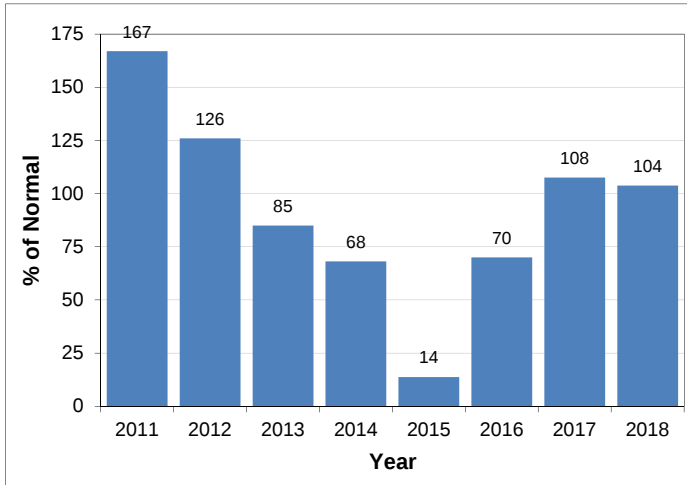
Similkameen



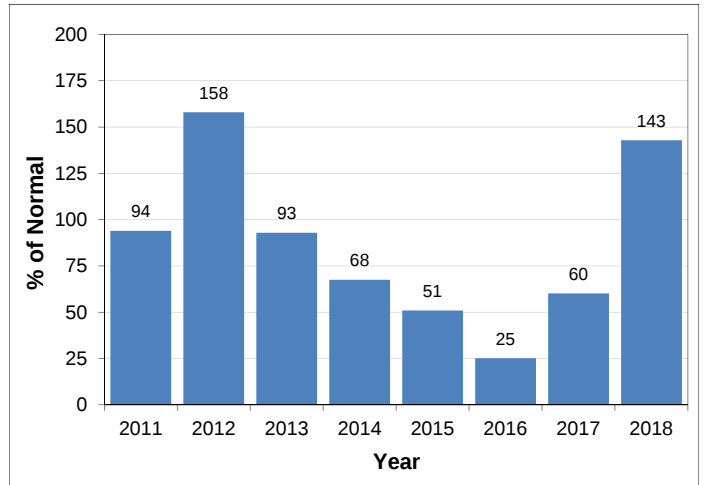
South Coast



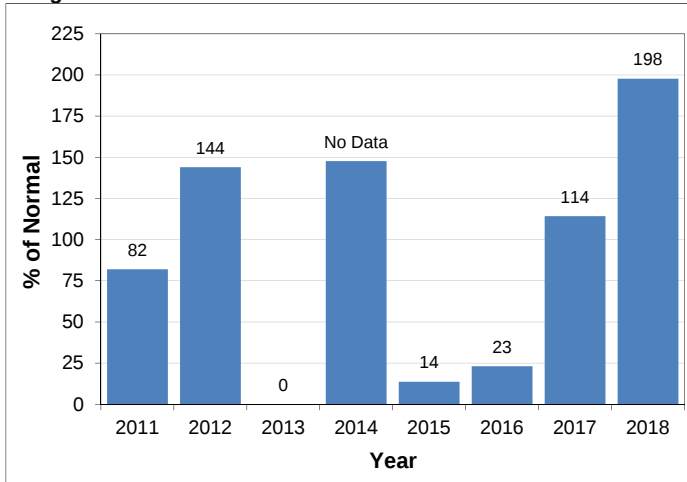
Vancouver Island



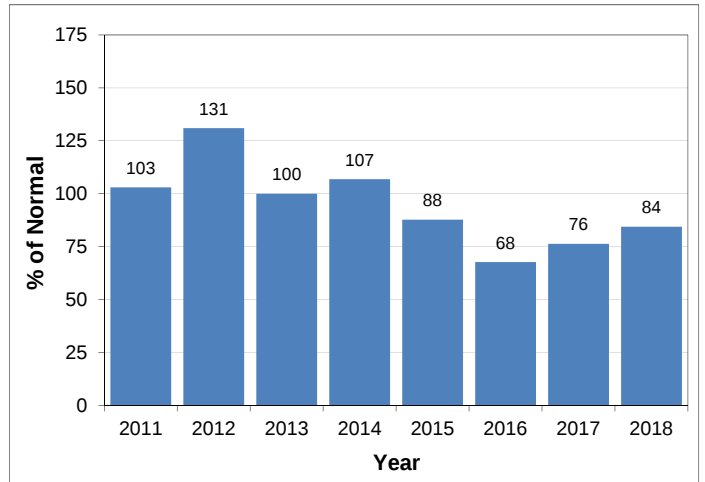
Central Coast



Skagit

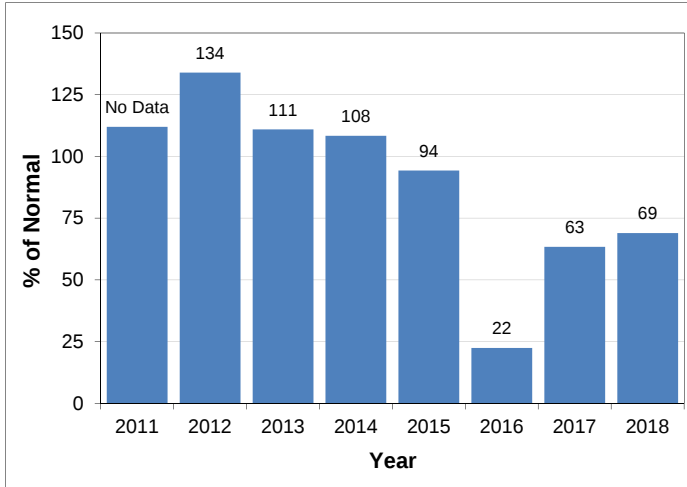


Peace

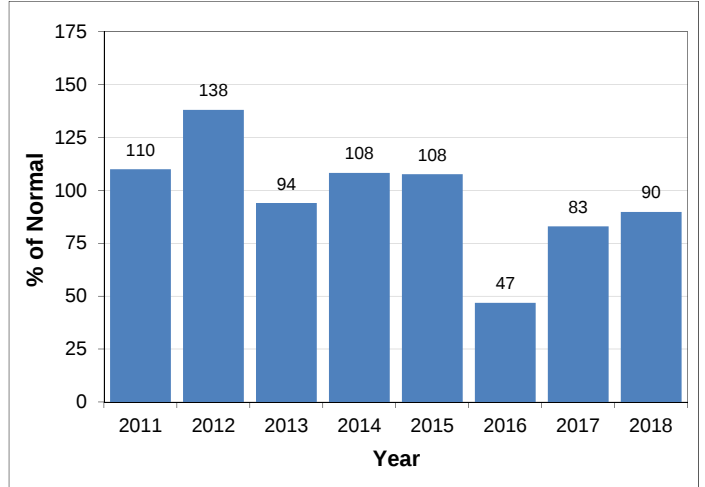


Snow Basin Index Graphs - May 1, 2018

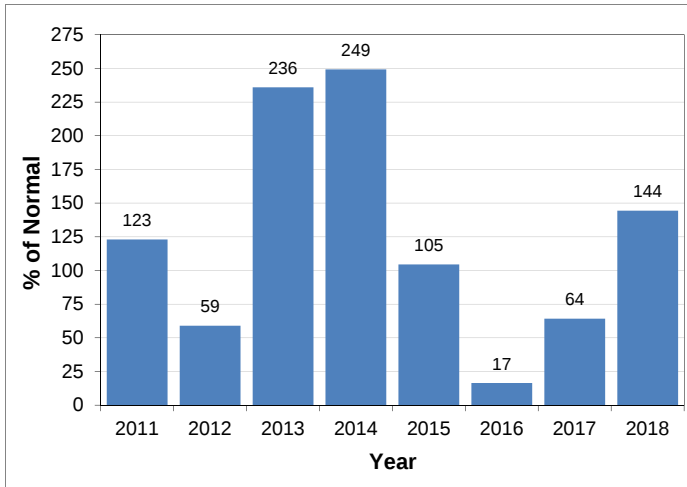
Stikine



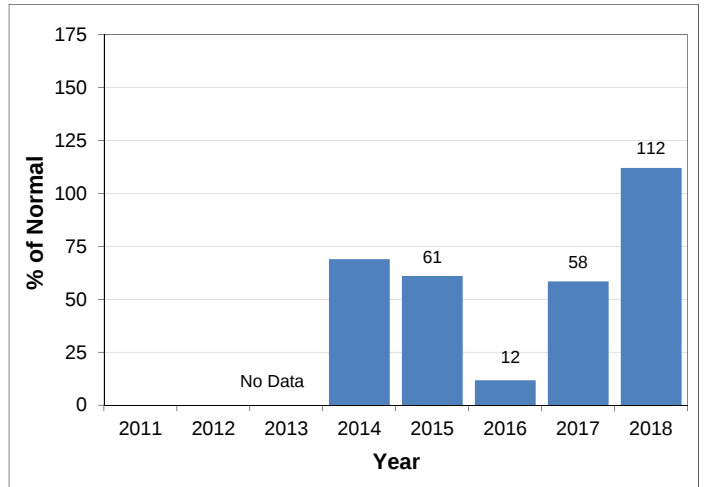
Skeena-Nass



Liard



Northwest



Snow Survey and Water Supply Bulletin – May 15th, 2018

The May 15th, 2018 snow survey is now complete. Data from 33 snow courses and 73 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 forms the basis of the following report¹.

Weather

Weather over the first two weeks of May has been extremely hot, with temperatures 5-10°C above normal across most of the province for most of that period. Heavy rainfall in the Okanagan, Shuswap, Boundary and Kootenay occurred over the May 9-10 period, and exacerbated flood conditions in those regions.

Snowpack

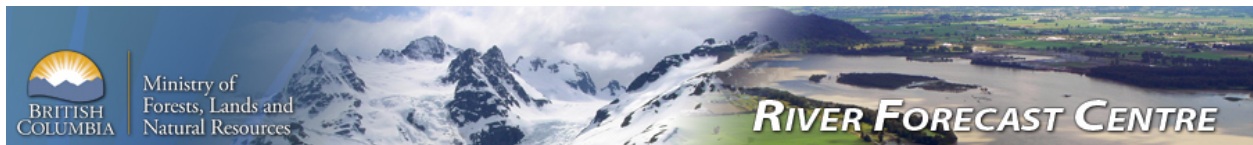
Dramatic snow melt has occurred over the first 2 weeks in May in response to extreme temperatures. Snow basin indices have declined significantly in most areas of the province, reflecting this rapid melt. Snow packs have largely been depleted from low elevation areas. Mid-elevation areas have melted approximately 30-60% of the snow pack, and upper elevations have melted 10-30%. Many basins have below normal snow basin indices, reflecting rapid snowmelt, with many regions experiencing snow conditions in mid-May that are 2-3 weeks ahead of normal. The high May 15th basin indices in some areas, particularly the Similkameen, Okanagan, and Boundary, reflects higher elevation snowpack; with depletion of low and mid-elevation snow in these regions, the flood risk is declining.

Table 1 - BC Snow Basin Indices – May 15, 2018

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	NO DATA	Boundary	132
Upper Fraser East	74	Similkameen	56
Nechako	90	South Coast	109
Middle Fraser	84	Vancouver Island	79
Lower Fraser	105	Central Coast	93*
North Thompson	94	Skagit	NO DATA
South Thompson	93	Peace	45*
Upper Columbia	97	Skeena-Nass	94
West Kootenay	137	Stikine	9*
East Kootenay	133	Liard	NO DATA
Okanagan	126	Northwest	NO DATA

*Note several May 15th basins indices are based on limited snow measurements within their watersheds

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 – May 15th, 2018

Outlook

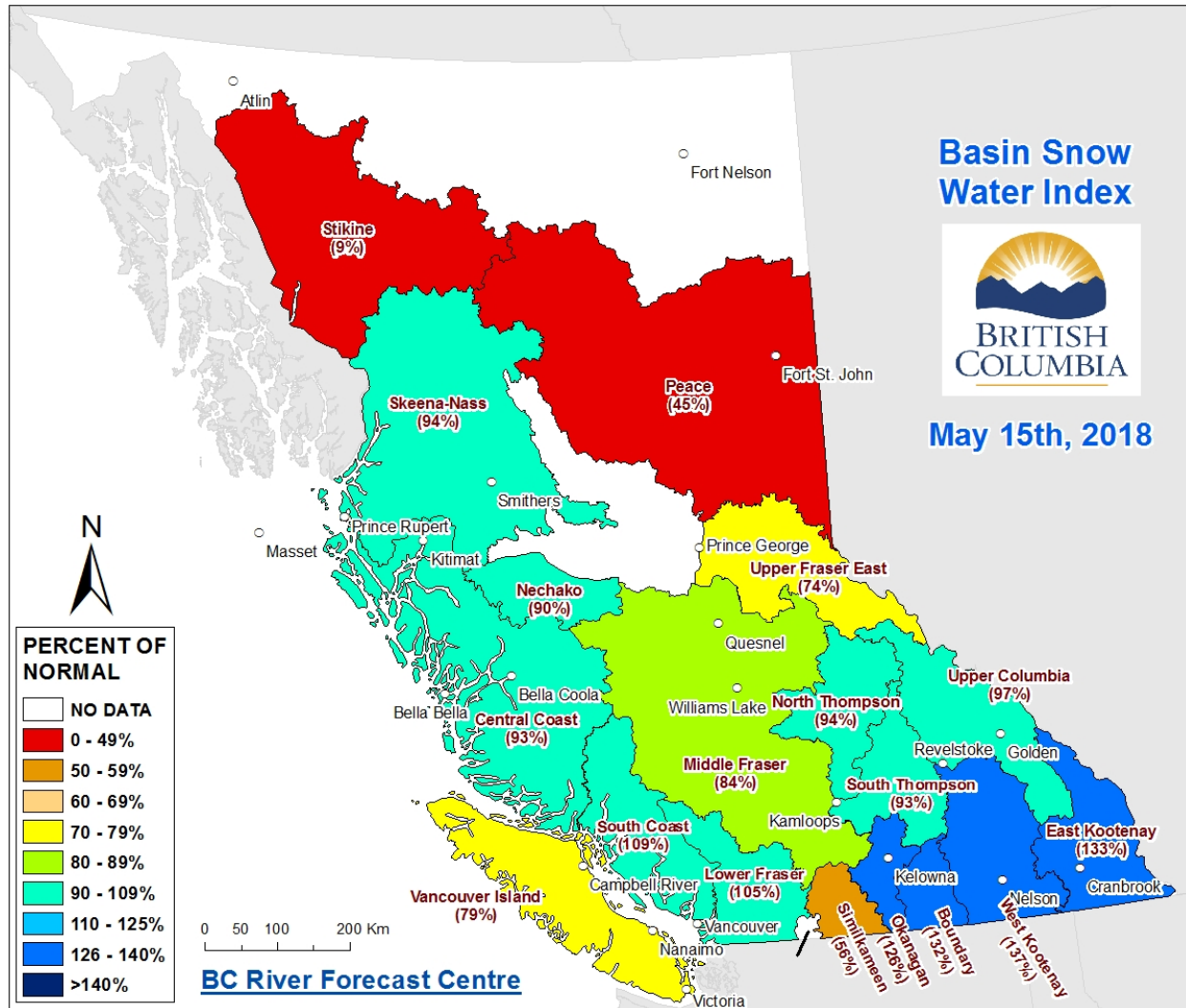
Ongoing flood risk from this season's snow pack is primarily associated with the remaining mid-to-upper elevation snowpack. In low-to-mid elevation watersheds, snow melt risks have subsided. Except for watersheds draining high mountain terrain, risks from snow melt are expected to last another 1-3 weeks. This primarily includes the Okanagan Lake system, Fraser River, South Thompson River (including Shuswap Lake and Mabel Lake), North Thompson River and Kootenay region. Future risks of flooding beyond that period will largely be the associated with heavy rainfall events.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the June 1st 2018 bulletin, which is scheduled for release on June 7th.

BC River Forecast Centre
May 22, 2018

Snow Survey and Water Supply Bulletin – May 15th, 2018

Figure 1: Basin Snow Water Index – May 15th, 2018



2018 Automated Snow Weather Station/Manual Snow Survey Data				May 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	Yellowhead Lake	Upper Fraser East	1847	2018-05-15	80	360	E	69%	556	159	143	833	522	21
1A02P	McBride Upper	Upper Fraser East	1608	2018-05-15	73	266		66%	317	7	65	656	403	26
1A03P	Barkerville	Upper Fraser East	1483	2018-05-15	0	13		6%	220	1	0	503	213	43
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	NS	NS	NS	NS				292	1219	798	
1A05P	Longworth Upper	Upper Fraser East	1740	2018-05-15	146	554			633		633	633		1
1A06A	HANSARD	Upper Fraser East	622	NS	NS	NS	NS						0	
1A10	PRINCE GEORGE A	Upper Fraser East	684	NS	NS	NS	NS				0	81	5	25
1A11	PACIFIC LAKE	Upper Fraser East	756	NS	NS	NS	NS				0	728	339	37
1A12	KAZA LAKE	Upper Fraser West	1247	NS	NS	NS	NS				132	212	212	3
1A12P	Kaza Lake	Upper Fraser West	1248	2018-05-15					174	0	0	174		2
1A14P	Hedrick Lake	Upper Fraser East	1118	2018-05-15	137	533		71%	320	117	214	1277	754	18
1A15	KNUDSEN LAKE	Upper Fraser East	1598	NS	NS	NS	NS				359	1271	836	36
1A15P	Knudsen Lake	Upper Fraser East	1601	2018-05-15	143	455			455		455	455		1
1A16	BURNS LAKE	Upper Fraser West	820	NS	NS	NS	NS				0	50	0	18
1A17P	Revolution Creek	Upper Fraser East	1676	2018-05-15	142	658		92%	604	311	228	1307	716	33
1A19P	Dome Mountain	Upper Fraser East	1768	2018-05-15	140	623		75%	643	459	298	1215	828	12
1A23	BIRD CREEK	Upper Fraser West	1196	NS	NS	NS	NS				0	0	0	2
1B01	MOUNT WELLS	Nechako	1489	NS	NS	NS	NS				164	869	280	8
1B01P	Mount Wells	Nechako	1489	2018-05-15		536		109%	661	155	171	946	491	26
1B02	TAHTSA LAKE	Nechako	1319	NS	NS	NS	NS				924	1687	924	7
1B02P	Tahtsa Lake	Nechako	1319	2018-05-15		1003		78%	1342	760	464	2340	1287	26
1B05	SKINS LAKE	Nechako	877	NS	NS	NS	NS				0	53	0	3
1B06	MOUNT SWANNELL	Nechako	1596	NS	NS	NS	NS				0	331	166	3
1B07	NUTLI LAKE	Nechako	1502	NS	NS	NS	NS				197	197	197	3
1B08P	Mount Pondosy	Nechako	1413	2018-05-15		523		83%	888	279	216	1198	628	26
1C01	BROOKMERE	Middle Fraser	994	NS	NS	NS	NS				0	208	22	29
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	NS	NS	NS	NS				184	965	455	21
1C05P	McGillivray Pass	Middle Fraser	1766	2018-05-15		286								
1C06	PAVILION	Middle Fraser	1209	NS	NS	NS	NS				0	0	0	7
1C08	NAZKO	Middle Fraser	1029	NS	NS	NS	NS				31	31	0	1
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	NS	NS	NS	NS				0	30	3	26
1C12P	Green Mountain	Middle Fraser	1766	2018-05-15		485		60%	642	479	424	1369	803	24
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	NS	NS	NS	NS				655	655	0	2
1C14	BRALORNE	Middle Fraser	1382	NS	NS	NS	NS				0	80	11	21
1C14P	Bralorne	Middle Fraser	1382	2018-05-15	0	0								
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2018-05-14	65	273		151%	211	0	0	466	181	51
1C18P	Mission Ridge	Middle Fraser	1903	2018-05-15		318		95%	539	0	0	972	336	48

2018 Automated Snow Weather Station/Manual Snow Survey Data				May 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	NS	NS	NS	NS				0	157	23	24
1C20P	Boss Mountain Mine	Middle Fraser	1477	2018-05-15	70	342		75%	454	147	176	746	455	24
1C21	BIG CREEK	Middle Fraser	1130	NS	NS	NS	NS				42	42	0	1
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	NS	NS	NS	NS				0	22	0	3
1C23	PENFOLD CREEK	Middle Fraser	1687	NS	NS	NS	NS				525	1400	1022	45
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	NS	NS	NS	NS				0	119	22	6
1C28	DUFFEY LAKE	Middle Fraser	1253	NS	NS	NS	NS						0	
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	NS	NS	NS	NS						0	
1C32	DEADMAN RIVER	Middle Fraser	1463	NS	NS	NS	NS						0	
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	NS	NS	NS	NS				116	116	0	1
1C37	BRALORNE(UPPER)	Middle Fraser	1980	NS	NS	NS	NS				290	290	0	1
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	NS	NS	NS	NS						0	
1C38P	Downton Lake Upper	Middle Fraser	1829	2018-05-15		519			811	700	700	811		2
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	NS	NS	NS	NS				300	300	0	1
1C40	TYAUGHTON	Middle Fraser	1946	NS	NS	NS	NS				198	198	0	1
1C40P	North Tyaughton	Middle Fraser	1969	2018-05-15		229			319	0	0	319		2
1C41P	Yanks Peak East	Middle Fraser	1683	2018-05-15	131	785		101%	772	421	365	1129	774	21
1C42	CAVERHILL LAKE	Middle Fraser	1400	NS	NS	NS	NS							
1D06P	Tenquille Lake	Lower Fraser	1669	2018-05-15	180	907		93%	1265	683	469	1693	973	17
1D08	STAVE LAKE	Lower Fraser	1211	NS	NS	NS	NS				584	2438	0	2
1D09	WAHLEACH LAKE	Lower Fraser	1395	NS	NS	NS	NS				102	656	428	12
1D09P	Wahleach Lake Upper	Lower Fraser	1408	2018-05-15		957		96%	662	421	290	1793	1001	26
1D10	NAHATLATCH RIVER	Lower Fraser	1530	NS	NS	NS	NS				634	2423	1467	6
1D16	DICKSON LAKE	Lower Fraser	1147	NS	NS	NS	NS				466	2070	2070	2
1D17P	Chilliwack River	Lower Fraser	1621	2018-05-15	274	1592		114%	1636	923	405	2540	1398	26
1D19P	Spuzzum Creek	Lower Fraser	1197	2018-05-15	221	1359		89%	1724	736	0	2900	1533	19
1E01B	BLUE RIVER	North Thompson	673	NS	NS	NS	NS				0	213	0	11
1E02P	Mount Cook	North Thompson	1574	2018-05-15	250	1317		99%	1243	1277	684	1793	1334	18
1E03A	TROPHY MOUNTAIN	North Thompson	1907	2018-05-15	120	590		95%	730	410	301	1114	618	35
1E05	KNOUFF LAKE	North Thompson	1189	NS	NS	NS	NS						0	1
1E07	ADAMS RIVER	North Thompson	1769	2018-05-14	142	705		102%	950	590	280	1158	690	46
1E08P	Azure River	North Thompson	1625	2018-05-15	152	918		80%	1327	784	528	1684	1152	21
1E10P	Kostal Lake	North Thompson	1760	2018-05-15	127	846		97%	963	721	417	1358	870	33
1E14P	Cook Creek	North Thompson	1280	2018-05-15	45	203	E		65	0	0	356	186	11
1F01A	ABERDEEN LAKE	South Thompson	1262	NS	NS	NS	NS				0	85	14	14
1F02	ANGLEMONT	South Thompson	1168	NS	NS	NS	NS		0		0	361	99	22
1F03P	Park Mountain	South Thompson	1857	2018-05-15	179	1102		119%	1104	723	315	1358	929	33

2018 Automated Snow Weather Station/Manual Snow Survey Data				May 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1F04P	Enderby	South Thompson	1950	2018-05-15	252	1197			1216		1216	1216		1
1F06P	Celista Mountain	South Thompson	1533	2018-05-15	156	885		105%	1088	589	420	1163	841	13
2A01A	CANOE RIVER	Upper Columbia	866	NS	NS	NS	NS				0	0	0	6
2A02	GLACIER	Upper Columbia	1249	NS	NS	NS	NS				114	1034	498	48
2A03A	FIELD	Upper Columbia	1310	NS	NS	NS	NS				0	0	0	4
2A06P	Mount Revelstoke	Upper Columbia	1770	2018-05-15		1207		98%	1322	891	595	1777	1235	25
2A07	KICKING HORSE	Upper Columbia	1648	NS	NS	NS	NS				0	521	229	51
2A11	BEAVERFOOT	Upper Columbia	1924	NS	NS	NS	NS				0	399	0	5
2A14	MOUNT ABBOT	Upper Columbia	2031	NS	NS	NS	NS				600	1944	1319	38
2A16	GOLDSTREAM	Upper Columbia	1914	NS	NS	NS	NS				584	1055	1055	2
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	NS	NS	NS	NS				590	1950	1271	34
2A18	KEYSTONE CREEK	Upper Columbia	1839	NS	NS	NS	NS				414	683	683	2
2A18P	Keystone Creek	Upper Columbia	1850	2018-05-15		850			1205	552	552	1205		2
2A19	VERMONT CREEK	Upper Columbia	1533	NS	NS	NS	NS				225	813	225	3
2A21P	Molson Creek	Upper Columbia	1930	2018-05-15		1042		96%	1042	742	481	1707	1085	37
2A22	SUNBEAM LAKE	Upper Columbia	2066	NS	NS	NS	NS				469	863	863	2
2A23	BUSH RIVER	Upper Columbia	1982	NS	NS	NS	NS				483	766	766	2
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	NS	NS	NS	NS				671	1257	1194	3
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	NS	NS	NS	NS				0	522	297	11
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	NS	NS	NS	NS				335	1425	1284	10
2A30P	Colpitti Creek	Upper Columbia	2131	2018-05-15		873			1023	467	467	1023		2
2A31P	Caribou Creek Upper	Upper Columbia	2201	2018-05-15		1033			1087	656	656	1087		2
2A32P	Wildcat Creek	Upper Columbia	2122	2018-05-15		603			700	346	346	700		2
2B02A	FARRON	Lower Columbia	1229	2018-05-14	33	154		244%	157	0	0	222	63	38
2B05	WHATSHAN (UPPER)	Lower Columbia	1476	NS	NS	NS	NS				164	737	164	4
2B06P	Barnes Creek	Lower Columbia	1595	2018-05-15		537		123%	509	181	98	758	438	25
2B07	KOCH CREEK	Lower Columbia	1813	NS	NS	NS	NS				415	1148	675	3
2B08P	St. Leon Creek	Lower Columbia	1822	2018-05-15		1297		129%	1361	661	536	1568	1004	25
2B09	RECORD MOUNTAIN	Lower Columbia	1906	2018-05-12	144	660		102%	935	242	83	1367	645	43
2C01	SINCLAIR PASS	East Kootenay	1374	NS	NS	NS	NS				0	107	0	33
2C04	SULLIVAN MINE	East Kootenay	1580	2018-05-15	44	220		275%	154	0	0	457	80	69
2C07	FERNIE EAST	East Kootenay	1213	2018-05-13	0	0	T	0%		0	0	298	34	62
2C09Q	Morrissey Ridge	East Kootenay	1966	2018-05-15		387		80%	662	0	0	1102	484	38
2C10P	Moyie Mountain	East Kootenay	1840	2018-05-15	21	158		70%	387	0	0	678	225	39
2C14P	Floe Lake	East Kootenay	2110	2018-05-15		811		108%	960	375	304	1101	752	25
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	NS	NS	NS	NS				270	534	534	2
2C16	MOUNT JOFFRE	East Kootenay	1763	NS	NS	NS	NS				206	338	338	2

2018 Automated Snow Weather Station/Manual Snow Survey Data				May 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2C17	THUNDER CREEK	East Kootenay	2062	NS	NS	NS	NS				190	220	220	2
2D02	FERGUSON	West Kootenay	929	NS	NS	NS	NS				20	640	302	39
2D03	SANDON	West Kootenay	1072	NS	NS	NS	NS				0	218	0	11
2D04	NELSON	West Kootenay	952	NS	NS	NS	NS				0	243	46	42
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	NS	NS	NS	NS				0	709	330	55
2D06	CHAR CREEK	West Kootenay	1290	N	N	N	N		416	0	0	416	272	50
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS	NS	NS	NS						0	1
2D08P	East Creek	West Kootenay	2004	2018-05-15		923		106%	1100	624	461	1387	874	37
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	NS	NS	NS	NS				520	978	978	2
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	NS	NS	NS	NS				311	1194	709	35
2D14P	Redfish Creek	West Kootenay	2086	2018-05-15	325	1510		115%	2205	1168	751	2205	1309	16
2E01	MONASHEE PASS	Kettle	1387	NS	NS	NS	NS				0	363	206	29
2E02	CARMI	Kettle	1254	NS	NS	NS	NS				0	0	0	15
2E03	BIG WHITE MOUNTAIN	Kettle	1672	2018-05-15	99	444		121%	474	80	0	732	366	51
2E07P	Grano Creek	Kettle	1874	2018-05-15	129	581	E	112%	756	405	285	881	520	20
2F01A	TROUT CREEK (West)	Okanagan	1430	2018-05-14	6	30		52%	61	0	0	243	58	8
2F01P	Trout Creek West	Okanagan	1420	2018-05-15	0	0								0
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	2018-05-14	0	0		0%	0	0	0	218	13	51
2F03	MC CULLOCH	Okanagan	1266	NS	NS	NS	NS				0	102	0	40
2F04	GRAYSTOKE LAKE	Okanagan	1818	2018-05-15	94	432		120%			0	742	360	18
2F05P	Mission Creek	Okanagan	1794	2018-05-15	127	629		163%	548	255	0	829	386	48
2F07	POSTILL LAKE	Okanagan	1358	NS	NS	NS	NS				71	180	143	8
2F08P	Greyback Reservoir	Okanagan	1550	2018-05-15	18	102			142		142	142		1
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2018-05-13	87	415		116%	502	219	0	968	357	47
2F10P	Silver Star Mountain	Okanagan	1839	2018-05-15	183	256			790	645	645	790		2
2F11	ISINTOK LAKE	Okanagan	1651	2018-05-15	0	0		0%	47	0	0	386	46	52
2F12	MOUNT KOBAU	Okanagan	1817	2018-05-12	103	490		194%	393	56	0	516	253	52
2F13	ESPERON CR (UPPER)	Okanagan	1634	2018-05-15	65	284		93%		186	66	625	306	14
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	2018-05-15	45	172		105%		122	0	380	164	15
2F18P	Brenda Mine	Okanagan	1453	2018-05-15		0		0%	90	0	0	217	20	25
2F19	OOYAMA LAKE	Okanagan	1365	NS	NS	NS	NS				97	97	0	3
2F20	VASEUX CREEK	Okanagan	1403	2018-05-12	0	0		0%		0	0	80	7	44
2F21	BOULEAU LAKE	Okanagan	1405	NS	NS	NS	NS				173	328	328	5
2F23	MACDONALD LAKE	Okanagan	1742	2018-05-16	70	37		11%			0	652	334	21
2F24	ISLAHT LAKE	Okanagan	1492	NS	NS	NS	NS			3	0	352	221	8
2F25	POSTILL LAKE UPPER	Okanagan	1500	NS	NS	NS	NS							0
2G03P	Blackwall Peak	Similkameen	1934	2018-05-15	149	777		116%	703	416	208	1481	671	50

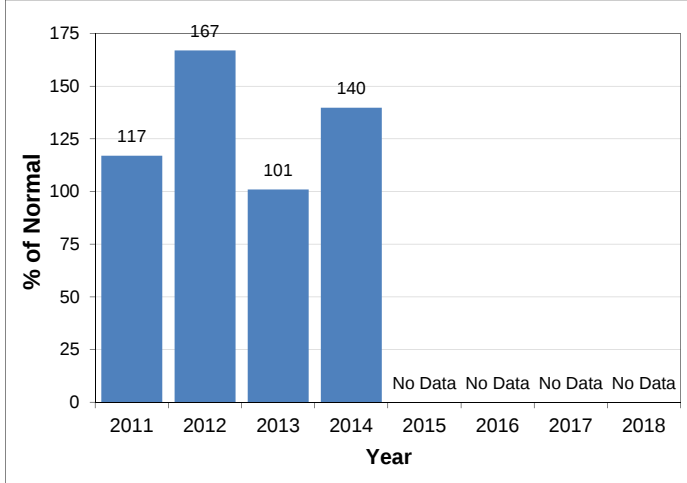
2018 Automated Snow Weather Station/Manual Snow Survey Data				May 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	N	N	N	N		193	0	0	577	169	56
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2018-05-14	0	0		0%	100	0	0	218	32	58
2G06	HAMILTON HILL	Similkameen	1477	2018-05-14	34	120		109%	125	0	0	434	110	39
3A01	GROUSE MOUNTAIN	South Coast	1126	NS	NS	NS					528	1714	0	6
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS	NS	NS	NS				816	816	816	2
3A05	POWELL RIVER (LOWER)	South Coast	882	NS	NS	NS	NS				378	378	378	2
3A09	PALISADE LAKE	South Coast	898	NS	NS	NS	NS				336	3600	1968	5
3A10	DOG MOUNTAIN	South Coast	1007	2018-05-14	210	1220		117%	1700	284	0	2920	1041	32
3A19	ORCHID LAKE	South Coast	1178	2018-05-14	315	1780		103%	2330	1131	0	3730	1729	38
3A20	CALLAGHAN CREEK	South Coast	1009	NS	NS	NS	NS				55	1311	444	17
3A22P	Nostetuko River	South Coast	1457	2018-05-15	66	375		106%	363	34	0	939	355	29
3A24P	Mosley Creek Upper	South Coast	1655	2018-05-15	30	113		76%	195	0	0	467	149	29
3A25P	Squamish River Upper	South Coast	1387	2018-05-15	282	1566		105%	1505	1163	474	2980	1486	28
3A26	CHAPMAN CREEK	South Coast	1022	NS	NS	NS	NS		1450		1450	1450		1
3A27	EDWARDS LAKE	South Coast	1070	NS	NS	NS	NS							
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	NS	NS	NS					345	2631	1576	34
3B02A	MOUNT COKELY	Vancouver Island	1267	NS	NS	NS	NS						0	1
3B04	ELK RIVER	Vancouver Island	270	NS	NS	NS	NS				40	40	0	1
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	NS	NS	NS	NS				1364	2697	1731	10
3B17P	Wolf River Upper	Vancouver Island	1422	2018-05-15		942		77%	1241	767	137	2719	1229	36
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	NS	NS	NS					0	1148	481	16
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	NS	NS	NS	NS				0	549	78	16
3B23P	Jump Creek	Vancouver Island	1134	2018-05-15	151	893		81%	1185	78	0	3500	1097	22
3B24P	Heather Mountain Upper	Vancouver Island	1190	2018-05-15	248	1590			1859	933	933	1859		2
3B26P	Mount Arrowsmith	Vancouver Island	1465	2018-05-15	216	1012								0
3C07	WEDEENE RIVER SOUTH	North Coast	196	NS	NS	NS	NS				232	232	232	2
3C08P	Burnt Bridge Creek	North Coast	1329	2018-05-15	71	590	E	93%	579	130	184	1438	634	20
3D01C	SUMALLO RIVER WEST	Skagit	801	NS	NS	NS	NS				82	82	0	1
3D02	LIGHTNING LAKE	Skagit	1254	NS	NS	NS	NS				544	544	0	2
3D03A	KLESILKWA	Skagit	1134	NS	NS	NS					0	490	11	5
4A02P	Pine Pass	Peace	1386	2018-05-15	174	814		81%	1036	740	363	1654	999	29
4A03	WARE (UPPER)	Peace	1563	NS	NS	NS					90	114	114	2
4A03P	Ware Upper	Peace	1565	2018-05-15	0	0			215		215	215		1
4A04	WARE (LOWER)	Peace	969	NS	NS	NS					0	89	0	2
4A04P	Ware Lower	Peace	971	2018-05-15	2	0			0		0	0		1
4A05	GERMANSEN (UPPER)	Peace	1489	NS	NS	NS					156	414	272	7
4A06	TUTIZZI LAKE	Peace	1043	NS	NS	NS					0	106	0	2

2018 Automated Snow Weather Station/Manual Snow Survey Data				May 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4A07	LADY LAURIER LAKE	Peace	1460	NS	NS	NS					194	420	420	2
4A09	PULPIT LAKE	Peace	1331	NS	NS	NS					152	293	262	3
4A09P	Pulpit Lake	Peace	1331	2018-05-15	2	25		9%	146	4	14	562	267	28
4A10	FREDRICKSON LAKE	Peace	1323	NS	NS	NS					74	93	74	2
4A11	TRYGVE LAKE	Peace	1409	NS	NS	NS					119	269	269	2
4A12	TSAYDAYCHI LAKE	Peace	1173	NS	NS	NS					166	302	302	2
4A13	PHILIP LAKE	Peace	1013	NS	NS	NS					128	137	128	2
4A16	MORFEE MOUNTAIN	Peace	1427	NS	NS	NS					265	1072	535	17
4A18	MOUNT SHEBA	Peace	1480	NS	NS	NS					340	1179	794	13
4A20	MONKMAN CREEK	Peace	1566	NS	NS	NS					0	912	478	13
4A21	MOUNT STEARNS	Peace	1514	NS	NS	NS					41	45	45	2
4A25	FORT ST. JOHN A	Peace	692	NS	NS	NS					0	34	0	5
4A27P	Kwadacha North	Peace	1554	2018-05-15	25	90			269		269	269		1
4A30P	Aiken Lake	Peace	1061	2018-05-15	0	0		0%	4	8	0	206	55	33
4A31P	Crying Girl Prairie	Peace	1358	2018-05-15		0			230	0	0	230		2
4A33P	Muskwa-Kechika	Peace	1196	2018-05-15		0			0	0	0	0		2
4A34P	Dowling Creek	Peace	1456	2018-05-15		628			444		444	444		1
4B01	KIDPRICE LAKE	Skeena-Nass	1415	NS	NS	NS	NS				534	1278	534	6
4B02	JOHANSON LAKE	Skeena-Nass	1480	NS	NS	NS	NS				108	178	178	3
4B03A	HUDSON BAY MTN.	Skeena-Nass	1452	2018-05-11	92	398		94%		108	160	822	424	44
4B04	CHAPMAN LAKE	Skeena-Nass	1485	2018-05-15	89	401		87%			238	689	461	9
4B06	TACHEK CREEK	Skeena-Nass	1133	NS	NS	NS	NS				18	152	0	5
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	2018-05-15	61	251		198%			0	320	127	22
4B08	MOUNT CRONIN	Skeena-Nass	1491	2018-05-15	135	592		90%			481	927	660	15
4B10	NINGUNSAW PASS	Nass	647	NS	NS	NS	NS				0	208	27	16
4B11A	BEAR PASS	Nass	437	NS	NS	NS	NS				80	488	290	9
4B12P	Granduc Mine	Skeena-Nass	790	2018-05-15	198				627		627	627		1
4B13A	TERRACE A	Skeena-Nass	219	NS	NS	NS	NS				0	68	0	2
4B14	EQUITY MINE	Skeena-Nass	1434	NS	NS	NS	NS				0	396	274	15
4B15	LU LAKE	Skeena-Nass	1296	NS	NS	NS	NS				0	330	191	17
4B15P	Lu Lake	Skeena-Nass	1308	2018-05-15	16	122		85%	254	0	0	489	144	20
4B16P	Shedin Creek	Skeena-Nass	1320	2018-05-15	97	463		49%	554	252	195	1280	940	22
4B17P	Tsai Creek	Skeena-Nass	1360	2018-05-15	147	661.5	E	52%	1069	667	302	2135	1275	20
4B18P	Cedar-Kiteen	Skeena-Nass	912	2018-05-15		0		0%	137	11	12	968	422	17
4C01	SIKANNI LAKE	Liard	1390	NS	NS	NS	NS				78	130	130	2
4C01P	Sikanni Lake	Liard	1400	2018-05-15	0	6			38		38	38		1
4C02	SUMMIT LAKE	Liard	1291	NS	NS	NS	NS				0	160	42	8

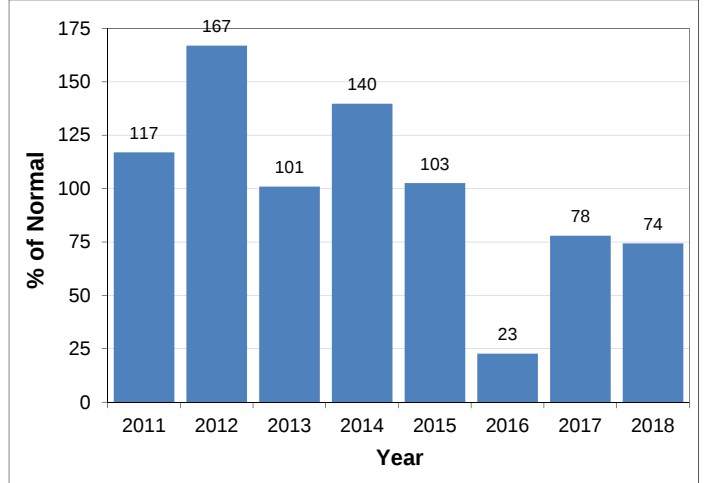
2018 Automated Snow Weather Station/Manual Snow Survey Data				May 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4C03	DEASE LAKE	Liard	805	NS	NS	NS	NS				0	0	0	7
4C05	FORT NELSON AIRPORT	Liard	368	NS	NS	NS	NS				0	38	1	14
4C15	JADE CITY	Liard	943	NS	NS	NS	NS				162	162	162	2
4D01	TELEGRAPH CREEK	Stikine	490	NS	NS	NS	NS				0	0	0	2
4D02	ISKUT	Stikine	931	NS	NS	NS	NS				0	0	0	16
4D11P	Kinaskan Lake	Stikine	1020	2018-05-15	0	0		0%	164	0	94	164	210	22
4E02B	ATLIN LAKE	Yukon	730	NS	NS	NS	NS							
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													
NA	Not available													
NS	Not scheduled													
SD	Snow Depth													
SWE	Snow Water Equivalent													
T	Trace Amount													

Snow Basin Index Graphs - May 15, 2018

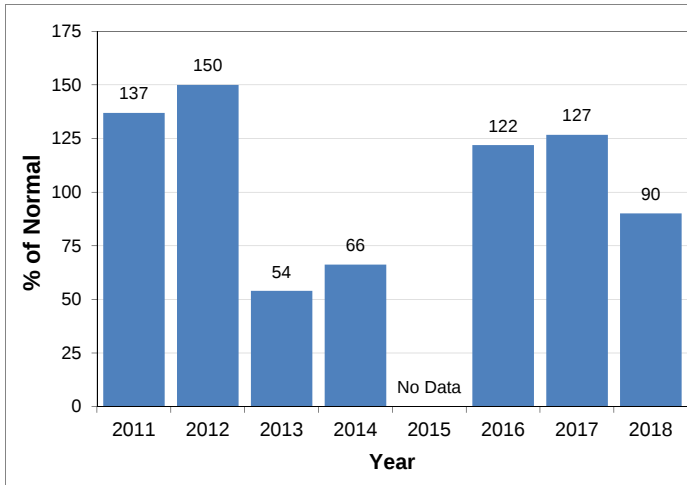
Upper Fraser West



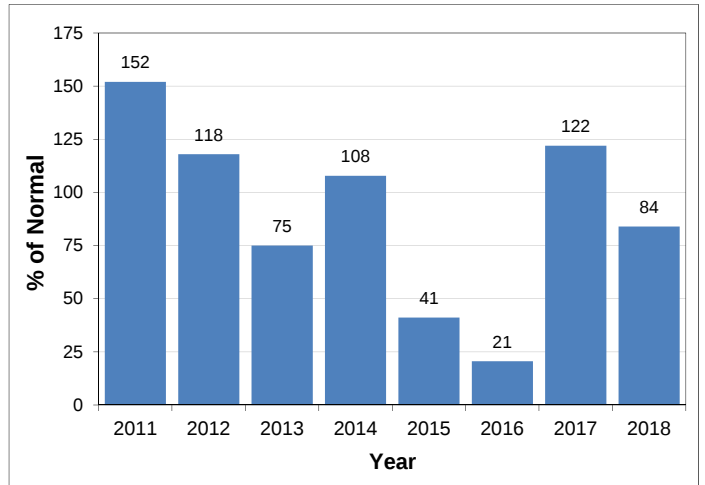
Upper Fraser East



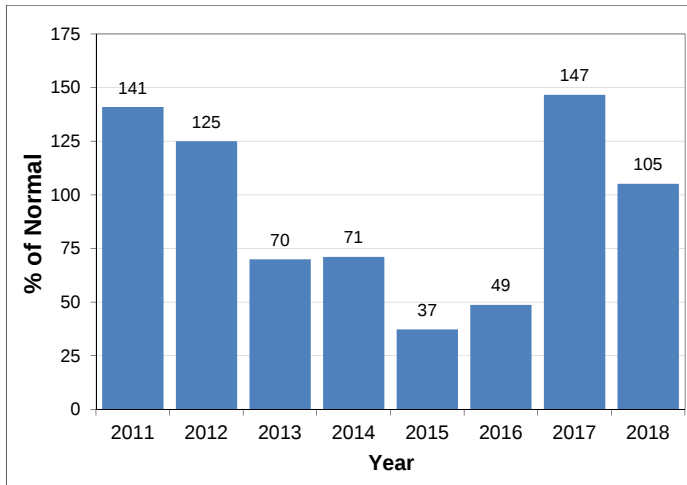
Nechako



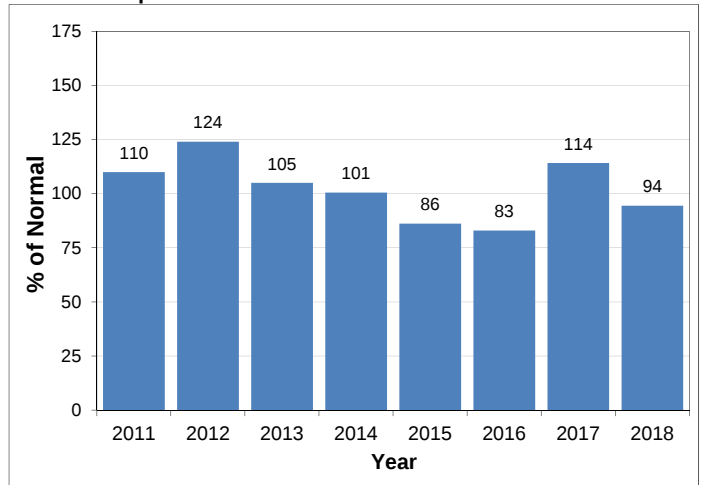
Middle Fraser



Lower Fraser

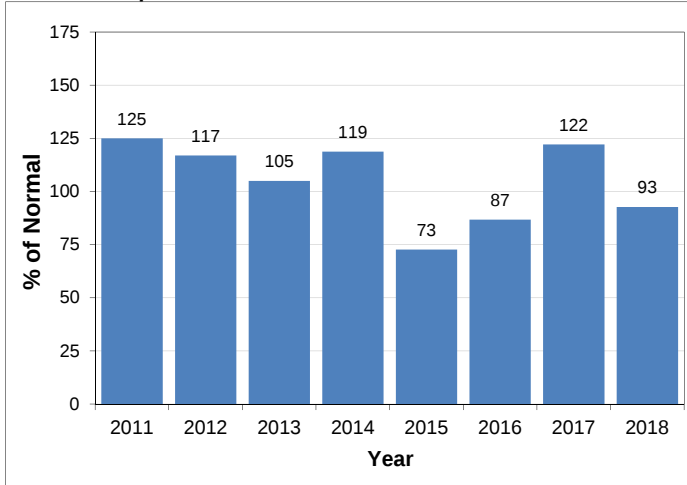


North Thompson

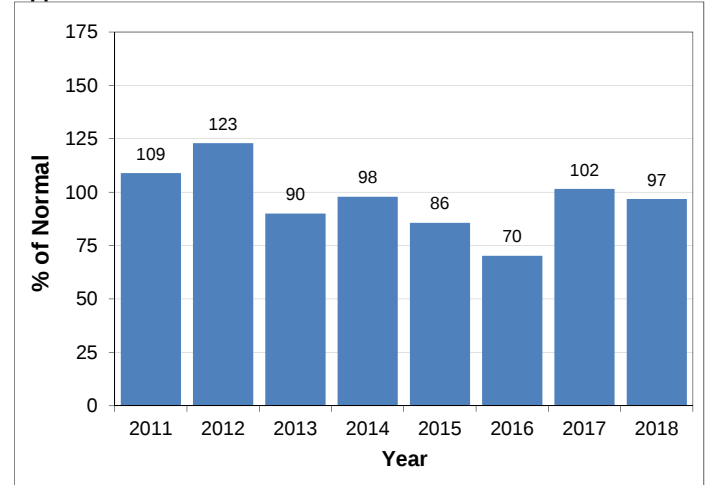


Snow Basin Index Graphs - May 15, 2018

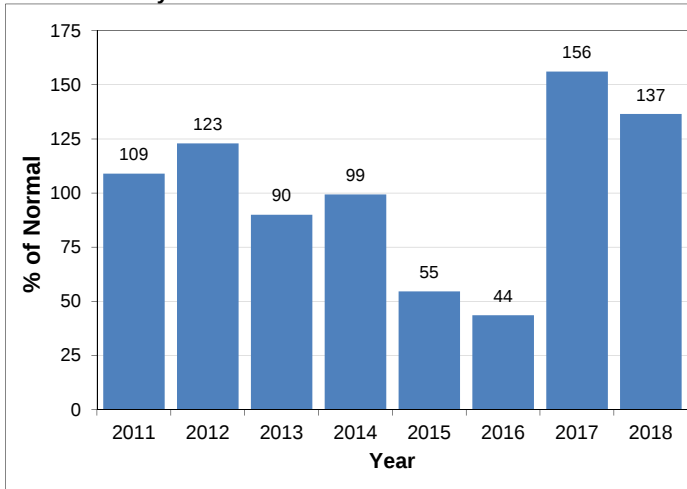
South Thompson



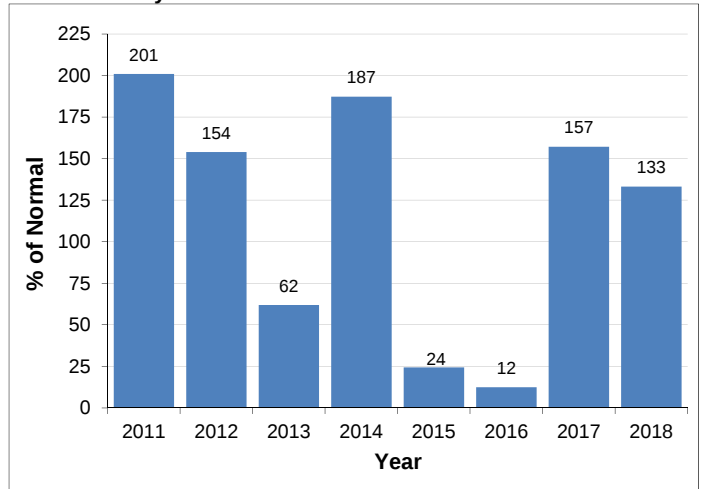
Upper Columbia



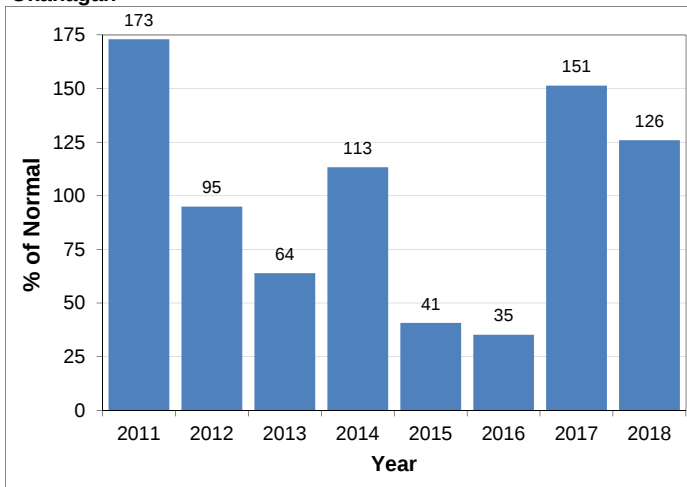
West Kootenay



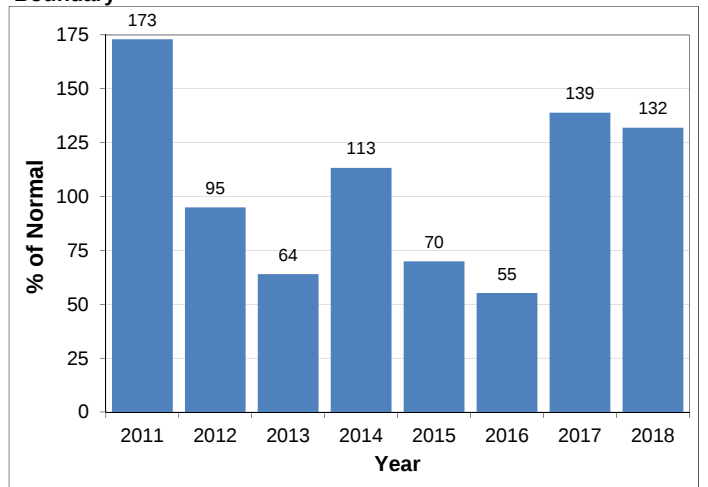
East Kootenay



Okanagan

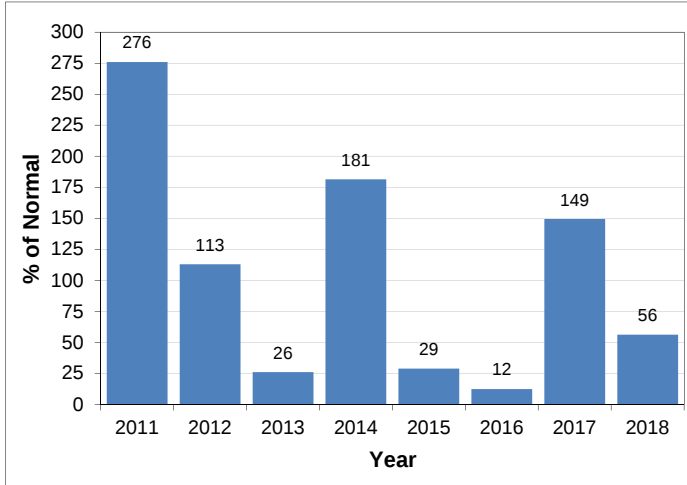


Boundary

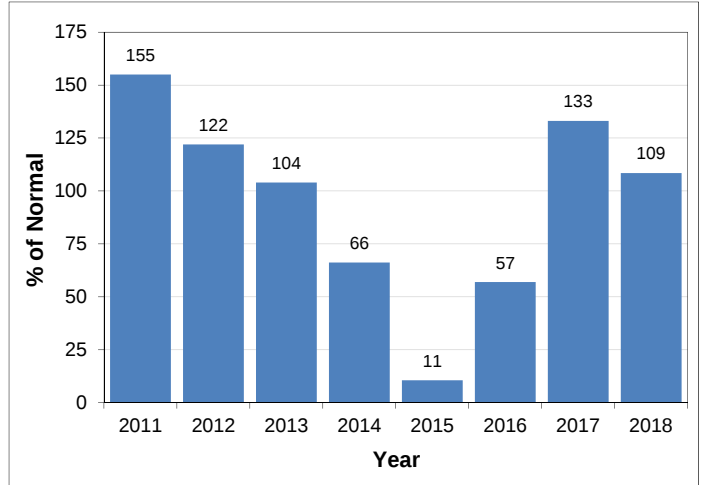


Snow Basin Index Graphs - May 15, 2018

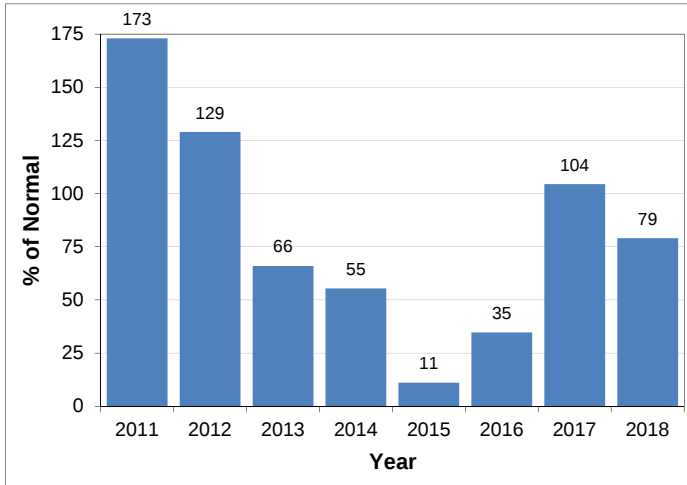
Similkameen



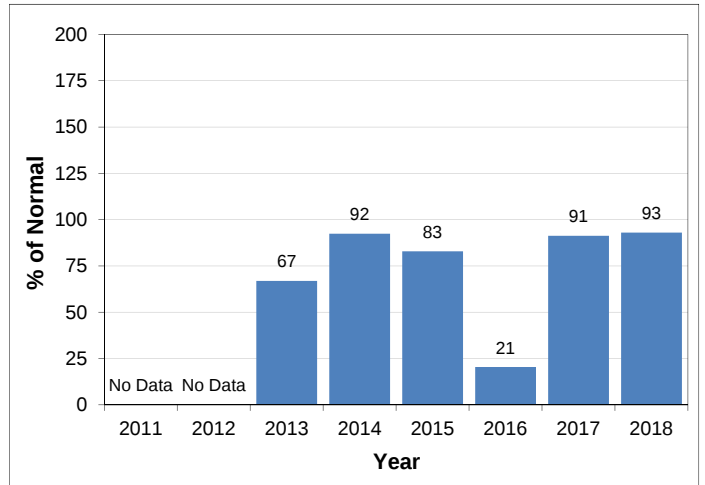
South Coast



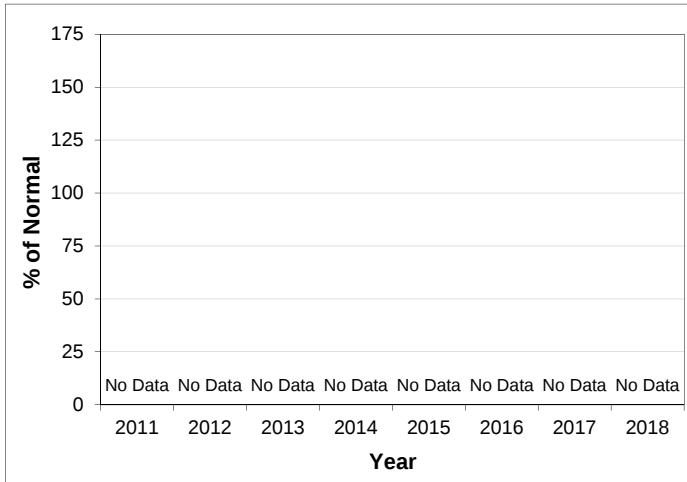
Vancouver Island



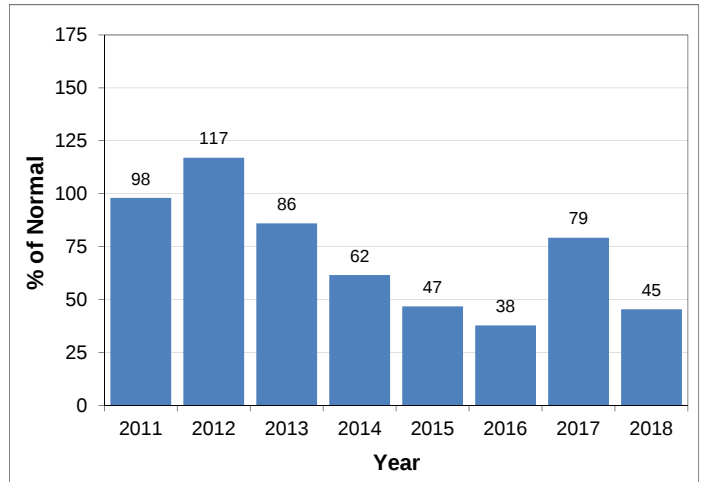
Central Coast



Northwest

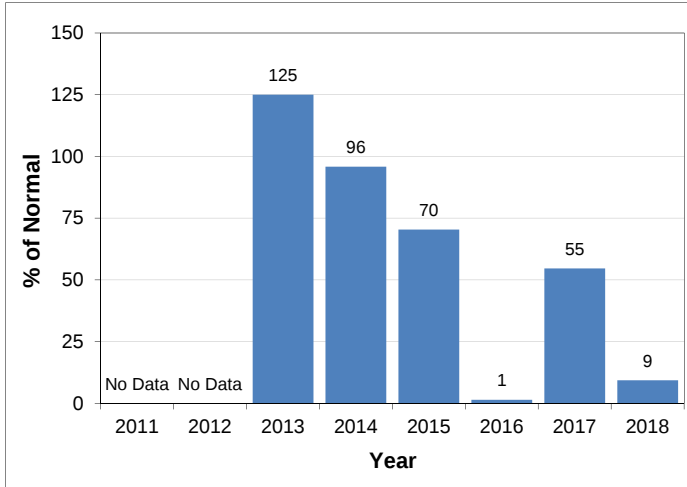


Peace

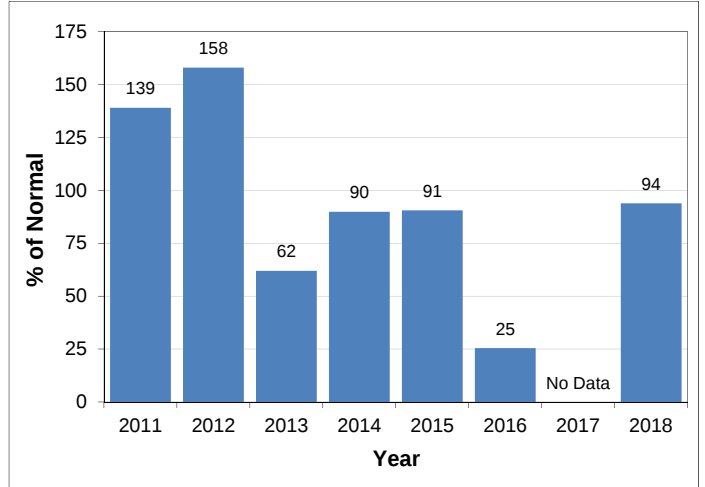


Snow Basin Index Graphs - May 15, 2018

Stikine



Skeena-Nass



Snow Survey and Water Supply Bulletin – June 1st, 2018

The June 1st, 2018 snow survey is now complete. Data from 22 snow courses and 73 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 forms the basis of the following report¹.

Weather

Weather through May was extremely hot and dry, with weather patterns being dominated by persistent high pressure. Daily average temperatures were typically 3-5 °C above normal across most of the province, with several locations in the South Interior, Coast and central BC having record or near record high monthly temperatures. Rainfall was generally limited, however one heavy rainfall event in the South Interior did contribute to flooding conditions that were observed in Grand Forks and other areas.

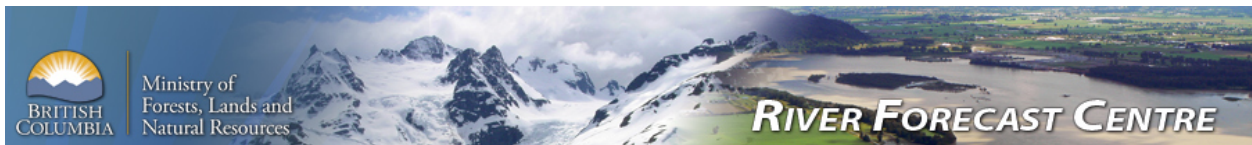
Snowpack

Dramatic snow melt occurred through May in response to the extreme temperatures, with many areas transitioning from well above normal snow pack to well below normal snow pack over the course of a few weeks. Snow basin indices have declined significantly in most areas of the province, reflecting this rapid melt. Snow packs have largely been depleted from low and mid-elevation areas. Most basins have below normal snow basin indices, and this is reflecting rapid snowmelt, with many regions experiencing snow conditions in early-June that are 2-3 weeks ahead of normal.

Table 1 - BC Snow Basin Indices – June 1st, 2018

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	21	Boundary	129*
Upper Fraser East	73	Similkameen	86*
Nechako	20	South Coast	72
Middle Fraser	17	Vancouver Island	40
Lower Fraser	58	Central Coast	0*
North Thompson	61	Skagit	NO DATA
South Thompson	81	Peace	24*
Upper Columbia	71	Skeena-Nass	30
West Kootenay	66	Stikine	7*
East Kootenay	20	Liard	NO DATA
Okanagan	51	Northwest	NO DATA

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



Snow Survey and Water Supply Bulletin – June 1st, 2018

*Note several June 1st basins indices are based on limited snow measurements within their watersheds

Outlook

Flood risk from this season's snow pack has now subsided, and river levels across the province have been receding. In many areas of the province, streamflow has transitioned from well above normal flows in April and May, towards below normal flow in early-June. This is particularly the case on Vancouver Island, coastal BC, northern BC, southern BC and central BC.

While snow melt related flood risks may be diminished, on-going risks from extreme rainfall events continue to exist. From a climatological perspective, June is a month where extreme rainfall does occur in the BC Interior, and continued vigilance around these patterns is prudent for on-going flood response through the rest of this freshet season.

With the shift to earlier melt, snow melt influence on river systems around the province is expected to wane early this year, bringing increased risk for low flows later this summer. These risks include areas which started the freshet season with above normal snow pack. Areas with increased risk for summer low flows this year include the Skeena, Peace, Liard, Upper Fraser West, Middle Fraser/Cariboo, central Coast, Vancouver Island, Okanagan, Lower Fraser and East Kootenay.

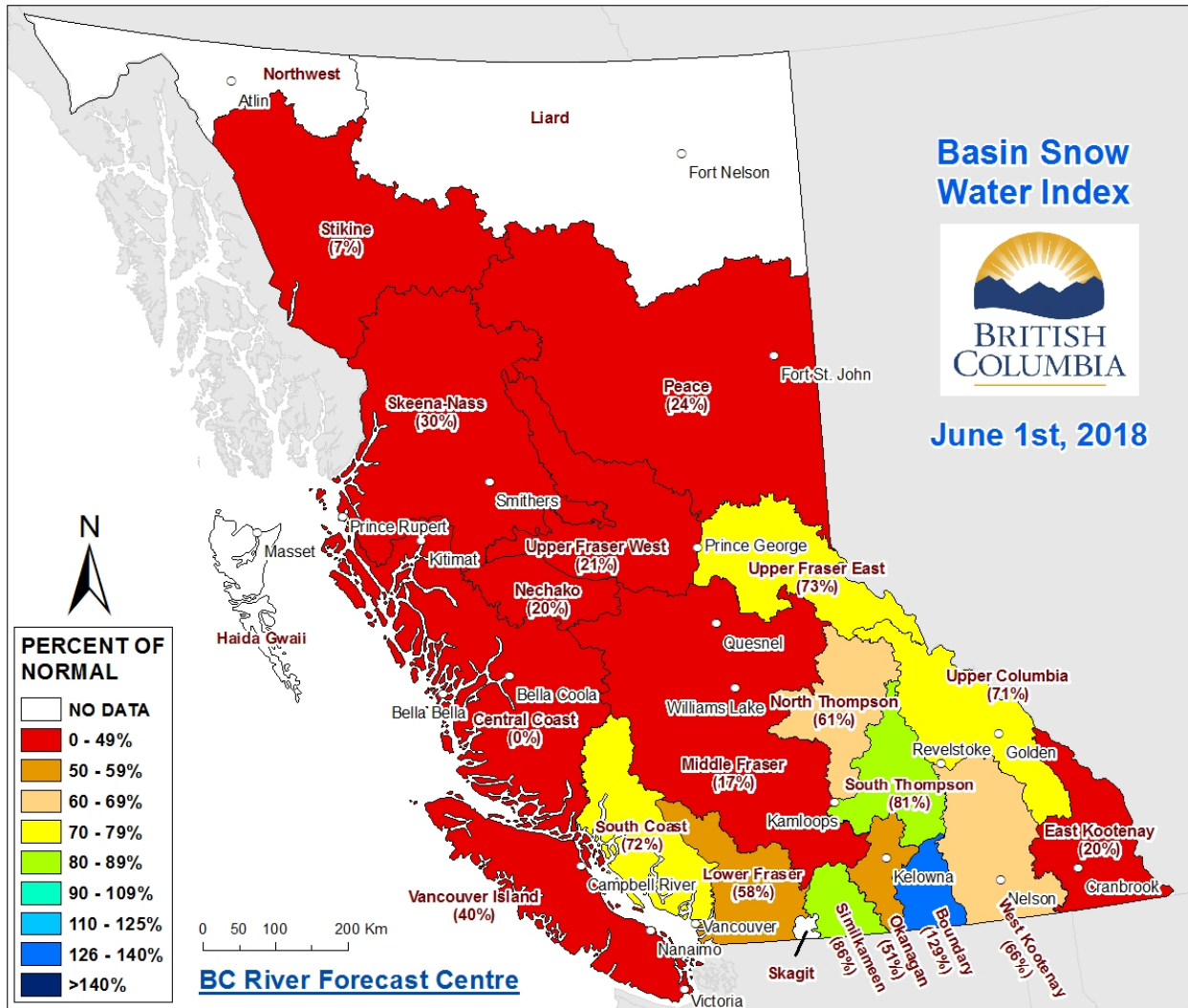
While snow plays a role in summer low flows, late-spring and summer weather is ultimately the key driver of whether low flow conditions emerge later this summer or not. Current near-term weather forecasts are indicating that the trend away from the hot and dry weather in May has shifted into cooler and wetter patterns through the middle of June. Long-range seasonal weather forecasts from Environment and Climate Change Canada are indicating an increased likelihood of warmer than normal and drier than normal conditions across the June-July-August period. With early snow melt and the increased likelihood of adverse summer weather conditions, there are increased province-wide risks this year for low flow and drought.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the June 15th 2018 bulletin, which is scheduled for release on June 21st.

BC River Forecast Centre
June 7, 2018

Snow Survey and Water Supply Bulletin – June 1st, 2018

Figure 1: Basin Snow Water Index – June 1st, 2018



2018 Automated Snow Weather Station/Manual Snow Survey Data				June 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	Yellowhead Lake	Upper Fraser East	1847	2018-06-01	0	568		160%	416	35	0	857	20	20
1A02P	McBride Upper	Upper Fraser East	1608	2018-06-01	3	0		0%	2	0	0	412	25	25
1A03P	Barkerville	Upper Fraser East	1483	2018-06-01	1	1		2%	0	1	0	291	42	42
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	NS	NS	NS	NS				0	1194	613	54
1A05P	Longworth Upper	Upper Fraser East	1740	2018-06-01	54	149			372		372	372		1
1A06A	HANSARD	Upper Fraser East	622	NS	NS	NS	NS						0	
1A10	PRINCE GEORGE A	Upper Fraser East	684	NS	NS	NS	NS				81	81	0	3
1A11	PACIFIC LAKE	Upper Fraser East	756	NS	NS	NS	NS				165	165	96	35
1A12	KAZA LAKE	Upper Fraser West	1247	NS	NS	NS	NS				132	132	0	1
1A12P	Kaza Lake	Upper Fraser West	1248	2018-06-01	1	0			0	0	0	0		2
1A14P	Hedrick Lake	Upper Fraser East	1118	2018-06-01	56	208		57%	10	0	0	1038	365	18
1A15	KNUDSEN LAKE	Upper Fraser East	1598	NS	NS	NS	NS				0	1113	652	36
1A15P	Knudsen Lake	Upper Fraser East	1601	2018-06-01	76	267			239		239	239		1
1A16	BURNS LAKE	Upper Fraser West	820	NS	NS	NS	NS				50	50	0	13
1A17P	Revolution Creek	Upper Fraser East	1676	2018-06-01	71	352		74%	339	36	0	1127	478	33
1A19P	Dome Mountain	Upper Fraser East	1768	2018-06-01	81	383		60%	438	283	255	1080	639	12
1A23	BIRD CREEK	Upper Fraser West	1196	2018-06-01	0	0	E		0	0	0	0	0	21
1B01	MOUNT WELLS	Nechako	1489	2018-06-01	13	46		21%	261	0	0	529	217	37
1B01P	Mount Wells	Nechako	1489	2018-06-01		189		82%	363	1	0	716	231	26
1B02	TAHTSA LAKE	Nechako	1319	N	N	N	N		930	309	406	1829	982	39
1B02P	Tahtsa Lake	Nechako	1319	2018-06-01		621		63%	1017	401	277	2157	992	26
1B05	SKINS LAKE	Nechako	877	2018-06-01	0	0	E		0	0	0	53	0	23
1B06	MOUNT SWANNELL	Nechako	1596	2018-06-01	0	0	E	0%	0	0	0	350	110	28
1B07	NUTLI LAKE	Nechako	1502	2018-06-01	0	0	E	0%	88	0	0	618	241	25
1B08P	Mount Pondosy	Nechako	1413	2018-06-01		95		30%	439	1	0	951	320	26
1C01	BROOKMERE	Middle Fraser	994	NS	NS	NS	NS						0	6
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	NS	NS	NS	NS				239	239	264	23
1C05P	McGillivray Pass	Middle Fraser	1766	2018-06-01		0								
1C06	PAVILION	Middle Fraser	1209	NS	NS	NS	NS						0	
1C08	NAZKO	Middle Fraser	1029	NS	NS	NS	NS				31	31	0	1
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	NS	NS	NS	NS						0	9
1C12P	Green Mountain	Middle Fraser	1766	2018-06-01		13		2%	334	235	140	1186	537	24
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	NS	NS	NS	NS						0	2
1C14	BRALORNE	Middle Fraser	1382	NS	NS	NS	NS				77	77	0	1
1C14P	Bralorne	Middle Fraser	1382	2018-06-01	0	0								
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2018-05-31	0	0		0%	34	0	0	332	52	51
1C18P	Mission Ridge	Middle Fraser	1903	2018-06-01		0		0%	172	0	0	709	98	48

2018 Automated Snow Weather Station/Manual Snow Survey Data				June 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	NS	NS	NS	NS						0	3
1C20P	Boss Mountain Mine	Middle Fraser	1477	2018-06-01	0	0		0%	64	1	0	401	126	24
1C21	BIG CREEK	Middle Fraser	1130	NS	NS	NS	NS				42	42	0	1
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	NS	NS	NS	NS				22	22	0	3
1C23	PENFOLD CREEK	Middle Fraser	1687	NS	NS	NS	NS				353	1354	841	45
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	NS	NS	NS	NS				119	119	0	1
1C28	DUFFEY LAKE	Middle Fraser	1253	NS	NS	NS	NS						0	
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	NS	NS	NS	NS						0	
1C32	DEADMAN RIVER	Middle Fraser	1463	NS	NS	NS	NS						0	
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	NS	NS	NS	NS				116	116	0	1
1C37	BRALORNE(UPPER)	Middle Fraser	1980	NS	NS	NS	NS				290	290	0	1
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	NS	NS	NS	NS						0	
1C38P	Downton Lake Upper	Middle Fraser	1829	2018-06-01		279			656	603	603	656		2
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	NS	NS	NS	NS				300	300	0	1
1C40	TYAUGHTON	Middle Fraser	1946	NS	NS	NS	NS				198	198	0	1
1C40P	North Tyaughton	Middle Fraser	1969	2018-06-01		11			0	0	0	0		2
1C41P	Yanks Peak East	Middle Fraser	1683	2018-06-01	55	308		65%	432	122	128	979	475	21
1C42	CAVERHILL LAKE	Middle Fraser	1400	NS	NS	NS	NS							
1D06P	Tenquille Lake	Lower Fraser	1669	2018-06-01	109	496		69%	972	399	204	1414	719	17
1D08	STAVE LAKE	Lower Fraser	1211	NS	NS	NS	NS				584	584	1872	7
1D09	WAHLEACH LAKE	Lower Fraser	1395	NS	NS	NS	NS				224	224	266	12
1D09P	Wahleach Lake Upper	Lower Fraser	1408	2018-06-01		477		66%	358	239	0	1525	720	26
1D10	NAHATLATCH RIVER	Lower Fraser	1530	NS	NS	NS	NS				634	634	1497	11
1D16	DICKSON LAKE	Lower Fraser	1147	NS	NS	NS	NS				466	466	0	1
1D17P	Chilliwack River	Lower Fraser	1621	2018-06-01	182	1106		102%	1327	563	0	2186	1082	26
1D19P	Spuzzum Creek	Lower Fraser	1197	2018-06-01	124	818		66%	1366	328	0	2650	1248	19
1E01B	BLUE RIVER	North Thompson	673	NS	NS	NS	NS				160	160	0	6
1E02P	Mount Cook	North Thompson	1574	2018-06-01	157	924		86%	1103	1031	593	1579	1071	18
1E03A	TROPHY MOUNTAIN	North Thompson	1907	NS	NS	NS	NS						0	2
1E05	KNOUFF LAKE	North Thompson	1189	NS	NS	NS	NS						0	
1E07	ADAMS RIVER	North Thompson	1769	2018-06-04	59	293		54%	615	370	0	1155	540	45
1E08P	Azure River	North Thompson	1625	2018-06-01	69	377		42%	1083	430	473	1729	902	21
1E10P	Kostal Lake	North Thompson	1760	2018-06-01	36	418		61%	795	427	155	1386	683	33
1E14P	Cook Creek	North Thompson	1280	2018-06-01	0	684			65	0	0	8	1	11
1F01A	ABERDEEN LAKE	South Thompson	1262	NS	NS	NS	NS				85	85	0	2
1F02	ANGLEMONT	South Thompson	1168	NS	NS	NS	NS						8	12
1F03P	Park Mountain	South Thompson	1857	2018-06-01	92	622		84%	870	573	0	1269	740	33

2018 Automated Snow Weather Station/Manual Snow Survey Data				June 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1F04P	Enderby	South Thompson	1950	2018-06-01	158	807			1045		1045	1045		1
1F06P	Celista Mountain	South Thompson	1533	2018-06-01	56	265		54%	681	267	53	894	495	13
2A01A	CANOE RIVER	Upper Columbia	866		NS	NS	NS						0	1
2A02	GLACIER	Upper Columbia	1249		NS	NS	NS				362	362	263	47
2A03A	FIELD	Upper Columbia	1310		NS	NS	NS						0	3
2A06P	Mount Revelstoke	Upper Columbia	1770	2018-06-01		843		82%	1137	663	240	2063	1025	25
2A07	KICKING HORSE	Upper Columbia	1648		NS	NS	NS				160	160	66	38
2A11	BEAVERFOOT	Upper Columbia	1924		NS	NS	NS				148	148	0	2
2A14	MOUNT ABBOT	Upper Columbia	2031		NS	NS	NS				600	600	1162	35
2A16	GOLDSTREAM	Upper Columbia	1914		NS	NS	NS				584	584	0	1
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852		NS	NS	NS				590	590	1121	36
2A18	KEYSTONE CREEK	Upper Columbia	1839		NS	NS	NS				414	414	0	1
2A18P	Keystone Creek	Upper Columbia	1850	2018-06-01		481			910	432	432	910		2
2A19	VERMONT CREEK	Upper Columbia	1533		NS	NS	NS				286	286	0	2
2A21P	Molson Creek	Upper Columbia	1930	2018-06-01		506		60%	873	525	82	1462	849	37
2A22	SUNBEAM LAKE	Upper Columbia	2066		NS	NS	NS				469	469	0	1
2A23	BUSH RIVER	Upper Columbia	1982		NS	NS	NS				483	483	0	1
2A25	KIRBYVILLE LAKE	Upper Columbia	1739		NS	NS	NS				671	671	969	2
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964		NS	NS	NS				338	338	99	9
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628		NS	NS	NS				335	335	1130	8
2A30P	Colpitti Creek	Upper Columbia	2131	2018-06-01		505			700	218	218	700		2
2A31P	Caribou Creek Upper	Upper Columbia	2201	2018-06-01		596			825	440	440	825		2
2A32P	Wildcat Creek	Upper Columbia	2122	2018-06-01		322			545	172	172	545		2
2B02A	FARRON	Lower Columbia	1229		NS	NS	NS				157	157	3	19
2B05	WHATSHAN (UPPER)	Lower Columbia	1476		NS	NS	NS						0	10
2B06P	Barnes Creek	Lower Columbia	1595	2018-06-01		15		10%	24	3	0	627	157	25
2B07	KOCH CREEK	Lower Columbia	1813		NS	NS	NS				415	415	0	3
2B08P	St. Leon Creek	Lower Columbia	1822	2018-06-01		866		104%	1095	404	225	1560	830	25
2B09	RECORD MOUNTAIN	Lower Columbia	1906	2018-05-27	27	142		37%	525	94	0	1073	384	43
2C01	SINCLAIR PASS	East Kootenay	1374		NS	NS	NS						0	13
2C04	SULLIVAN MINE	East Kootenay	1580	2018-05-30	0	0	T	0%	0	0	0	137	6	35
2C07	FERNIE EAST	East Kootenay	1213		NS	NS	NS				98	98	4	17
2C09Q	Morrissey Ridge	East Kootenay	1966	2018-06-01		3		2%	159	0	0	874	171	38
2C10P	Moyie Mountain	East Kootenay	1840	2018-06-01	1	0		0%	0	0	0	466	30	39
2C14P	Floe Lake	East Kootenay	2110	2018-06-01		445		79%	665	192	94	979	565	25
2C15	MOUNT ASSINIBOINE	East Kootenay	2230		NS	NS	NS				270	270	0	1
2C16	MOUNT JOFFRE	East Kootenay	1763		NS	NS	NS				206	206	0	1

2018 Automated Snow Weather Station/Manual Snow Survey Data				June 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2C17	THUNDER CREEK	East Kootenay	2062	NS	NS	NS	NS				190	190	0	1
2D02	FERGUSON	West Kootenay	929	NS	NS	NS	NS				320	320	65	14
2D03	SANDON	West Kootenay	1072	NS	NS	NS	NS						0	3
2D04	NELSON	West Kootenay	952	NS	NS	NS	NS				121	121	1	18
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	2018-05-28	18	89		60%	194	0	0	551	148	66
2D06	CHAR CREEK	West Kootenay	1290	N	N	N	N			0	0	362	82	43
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS	NS	NS	NS						0	
2D08P	East Creek	West Kootenay	2004	2018-06-01		436		61%	918	378	111	1256	713	37
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	NS	NS	NS	NS				520	520	0	1
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	2018-05-28	76	387		82%	641	305	0	1120	470	46
2D14P	Redfish Creek	West Kootenay	2086	2018-06-01	224	1184		105%	1548	979	751	1822	1127	16
2E01	MONASHEE PASS	Kettle	1387	NS	NS	NS	NS				165	165	62	28
2E02	CARMI	Kettle	1254	NS	NS	NS	NS						0	5
2E03	BIG WHITE MOUNTAIN	Kettle	1672	2018-05-31	25	115		76%	228	0			151	51
2E07P	Grano Creek	Kettle	1874	2018-06-01	57	451	E	157%	548	56	0	750	287	20
2F01A	TROUT CREEK (West)	Okanagan	1430	NS	NS	NS	NS				93	93	0	1
2F01P	Trout Creek West	Okanagan	1420	2018-06-01	1	0								0
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	NS	NS	NS	NS				172	172	0	9
2F03	MC CULLOCH	Okanagan	1266	NS	NS	NS	NS						0	
2F04	GRAYSTOKE LAKE	Okanagan	1818	2018-05-30	40	194		82%			168	168	236	14
2F05P	Mission Creek	Okanagan	1794	2018-06-01	63	259		154%	323	50	0	641	168	48
2F07	POSTILL LAKE	Okanagan	1358	NS	NS	NS	NS						0	2
2F08P	Greyback Reservoir	Okanagan	1550	2018-06-01	5	0			0		0	0		1
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2018-06-01	0	0		0%	294	61	0	848	128	46
2F10P	Silver Star Mountain	Okanagan	1839	2018-06-01	98	459			930	271	271	930		2
2F11	ISINTOK LAKE	Okanagan	1651	NS	NS	NS	NS				108	108	1	22
2F12	MOUNT KOBAU	Okanagan	1817	2018-05-30	0	0		0%	316	0	0	488	121	52
2F13	ESPERON CR (UPPER)	Okanagan	1634	2018-06-01	0	0		0%	234	0			173	13
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	2018-06-01	0	0		0%	122	0			27	13
2F18P	Brenda Mine	Okanagan	1453	2018-06-01		0		0%	0	0	0	217	3	24
2F19	OOYAMA LAKE	Okanagan	1365	NS	NS	NS	NS						391	4
2F20	VASEUX CREEK	Okanagan	1403	NS	NS	NS	NS						0	9
2F21	BOULEAU LAKE	Okanagan	1405	NS	NS	NS	NS						0	4
2F23	MACDONALD LAKE	Okanagan	1742	NS	NS	NS	NS						172	18
2F24	ISLAHT LAKE	Okanagan	1492	NS	NS	NS	NS						0	
2F25	POSTILL LAKE UPPER	Okanagan	1500	NS	NS	NS	NS							0
2G03P	Blackwall Peak	Similkameen	1934	2018-06-01	66	348		86%	414	131	0	1253	403	50

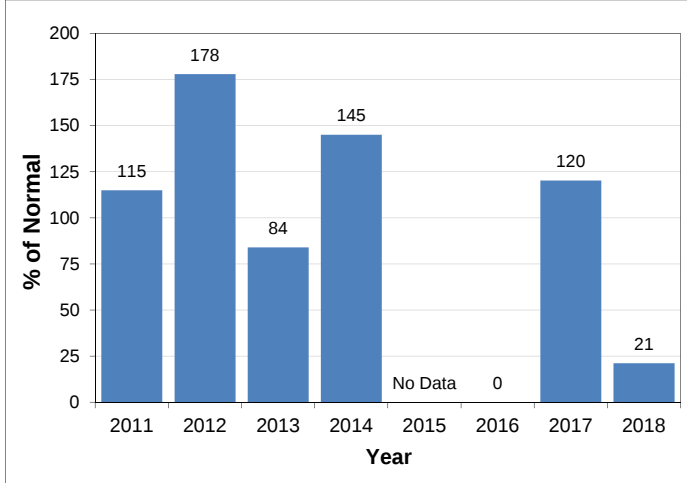
2018 Automated Snow Weather Station/Manual Snow Survey Data				June 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	NS	NS	NS	NS						106	37
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	NS	NS	NS	NS						0	21
2G06	HAMILTON HILL	Similkameen	1477	NS	NS	NS	NS						2	24
3A01	GROUSE MOUNTAIN	South Coast	1126	NS	NS	NS	NS				596	596	0	2
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS	NS	NS	NS						0	
3A05	POWELL RIVER (LOWER)	South Coast	882	NS	NS	NS	NS						0	
3A09	PALISADE LAKE	South Coast	898	NS	NS	NS	NS						350	2
3A10	DOG MOUNTAIN	South Coast	1007	2018-05-31	130	744		104%	1331	55	0	2480	714	32
3A19	ORCHID LAKE	South Coast	1178	2018-05-30	219	1254		89%	2010	756	0	3648	1409	39
3A20	CALLAGHAN CREEK	South Coast	1009	2018-05-29	0	0		0%	240	0	0	1228	233	33
3A22P	Nostetuko River	South Coast	1457	2018-06-01	2	4		4%	3	0	0	675	102	29
3A24P	Mosley Creek Upper	South Coast	1655	2018-06-01	18	0		0%	0	0	0	236	27	29
3A25P	Squamish River Upper	South Coast	1387	2018-06-01	180	1106		93%	1277	788	0	2800	1184	28
3A26	CHAPMAN CREEK	South Coast	1022	NS	NS	NS	NS							
3A27	EDWARDS LAKE	South Coast	1070	NS	NS	NS	NS							
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	NS	NS	NS	NS				660	660	1222	30
3B02A	MOUNT COKELY	Vancouver Island	1267	NS	NS	NS	NS						0	
3B04	ELK RIVER	Vancouver Island	270	NS	NS	NS	NS				40	40	0	1
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	NS	NS	NS	NS						995	14
3B17P	Wolf River Upper	Vancouver Island	1422	2018-06-01		506		52%	796	462	33	2466	981	36
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	NS	NS	NS	NS				230	230	237	17
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	NS	NS	NS	NS				160	160	0	17
3B23P	Jump Creek	Vancouver Island	1134	2018-06-01	44	193		28%	698	19	0	3142	694	22
3B24P	Heather Mountain Upper	Vancouver Island	1190	2018-06-01	143	963			1574	513	513	1574		2
3B26P	Mount Arrowsmith	Vancouver Island	1465	2018-06-01	117	549								0
3C07	WEDEENE RIVER SOUTH	North Coast	196	NS	NS	NS	NS						0	
3C08P	Burnt Bridge Creek	North Coast	1329	2018-06-01	0	0		0%	134	0	0	1116	304	20
3D01C	SUMALLO RIVER WEST	Skagit	801	NS	NS	NS	NS				82	82	0	1
3D02	LIGHTNING LAKE	Skagit	1254	NS	NS	NS	NS						0	2
3D03A	KLESILKWA	Skagit	1134	NS	NS	NS	NS				134	134	0	3
4A02P	Pine Pass	Peace	1386	2018-06-01	96	298		42%	528	351	183	1658	713	29
4A03	WARE (UPPER)	Peace	1563	NS	NS	NS	NS				90	90	0	1
4A03P	Ware Upper	Peace	1565	2018-06-01	0	0			0		0	0		1
4A04	WARE (LOWER)	Peace	969	NS	NS	NS	NS				89	89	0	1
4A04P	Ware Lower	Peace	971	2018-06-01	2	0			0		0	0		1
4A05	GERMANSEN (UPPER)	Peace	1489	NS	NS	NS	NS				156	156	0	2
4A06	TUTIZZI LAKE	Peace	1043	NS	NS	NS	NS				106	106	0	1

2018 Automated Snow Weather Station/Manual Snow Survey Data				June 1					Historic Snow Water Equivalent (mm)					Years of Record
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	
4A07	LADY LAURIER LAKE	Peace	1460	NS	NS	NS	NS			49	194	194	0	1
4A09	PULPIT LAKE	Peace	1331	NS	NS	NS	NS				152	152	0	1
4A09P	Pulpit Lake	Peace	1331	2018-06-01	1	3		7%	3	0	0	225	43	28
4A10	FREDRICKSON LAKE	Peace	1323	NS	NS	NS	NS				93	93	0	1
4A11	TRYGVE LAKE	Peace	1409	NS	NS	NS	NS				119	119	0	1
4A12	TSAYDAYCHI LAKE	Peace	1173	NS	NS	NS	NS				166	166	0	1
4A13	PHILIP LAKE	Peace	1013	NS	NS	NS	NS				137	137	0	1
4A16	MORFEE MOUNTAIN	Peace	1427	NS	NS	NS	NS			0	265	265	249	15
4A18	MOUNT SHEBA	Peace	1480	NS	NS	NS	NS				369	369	663	12
4A20	MONKMAN CREEK	Peace	1566	NS	NS	NS	NS			32	190	190	491	12
4A21	MOUNT STEARNS	Peace	1514	NS	NS	NS	NS			7	41	41	0	1
4A25	FORT ST. JOHN A	Peace	692	NS	NS	NS	NS				34	34	0	2
4A27P	Kwadacha North	Peace	1554	2018-06-01	1	0			0		0	0		1
4A30P	Aiken Lake	Peace	1061	2018-06-01	0	0		0%	3	0	0	90	5	33
4A31P	Crying Girl Prairie	Peace	1358	2018-06-01		0			0	0	0	0		2
4A33P	Muskwa-Kechika	Peace	1196	2018-06-01		0			0	0	0	0		2
4A34P	Dowling Creek	Peace	1456	2018-06-01		0			0		0	0		1
4B01	KIDPRICE LAKE	Skeena-Nass	1415	2018-06-01	25	114		18%	672	24	0	1359	630	40
4B02	JOHANSON LAKE	Skeena-Nass	1480	NS	NS	NS	NS				108	108	0	1
4B03A	HUDSON BAY MTN.	Skeena-Nass	1452	2018-06-01	23	106		41%	76	0	0	729	259	46
4B04	CHAPMAN LAKE	Skeena-Nass	1485	NS	NS	NS	NS						455	8
4B06	TACHEK CREEK	Skeena-Nass	1133	NS	NS	NS	NS						0	
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	NS	NS	NS	NS						22	16
4B08	MOUNT CRONIN	Skeena-Nass	1491	NS	NS	NS	NS						646	11
4B10	NINGUNSAW PASS	Nass	647	NS	NS	NS	NS						0	5
4B11A	BEAR PASS	Nass	437	NS	NS	NS	NS						33	6
4B12P	Granduc Mine	Skeena-Nass	790	2018-06-01	122				381		381	381		1
4B13A	TERRACE A	Skeena-Nass	219	NS	NS	NS	NS				68	68	0	1
4B14	EQUITY MINE	Skeena-Nass	1434	NS	NS	NS	NS						81	14
4B15	LU LAKE	Skeena-Nass	1296	NS	NS	NS	NS						28	14
4B15P	Lu Lake	Skeena-Nass	1308	2018-06-01	0	0		0%	1	0	0	180	24	20
4B16P	Shedin Creek	Skeena-Nass	1320	2018-06-01	27	180		26%	244	4	98	1261	703	22
4B17P	Tsai Creek	Skeena-Nass	1360	2018-06-01	107	631		61%	773	289	302	2103	1028	20
4B18P	Cedar-Kiteen	Skeena-Nass	912	2018-06-01	5	2		1%	1	7	0	640	166	17
4C01	SIKANNI LAKE	Liard	1390	NS	NS	NS	NS			0	78	78	0	1
4C01P	Sikanni Lake	Liard	1400	2018-06-01	0	7			3		3	3		1
4C02	SUMMIT LAKE	Liard	1291	NS	NS	NS	NS						0	

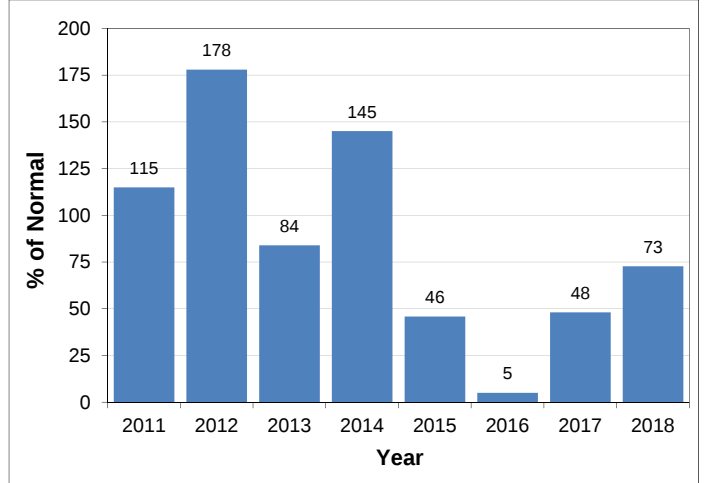
2018 Automated Snow Weather Station/Manual Snow Survey Data				June 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4C03	DEASE LAKE	Liard	805	NS	NS	NS	NS						0	11
4C05	FORT NELSON AIRPORT	Liard	368	NS	NS	NS	NS				38	38	0	1
4C15	JADE CITY	Liard	943	NS	NS	NS	NS						0	2
4D01	TELEGRAPH CREEK	Stikine	490	NS	NS	NS	NS						0	2
4D02	ISKUT	Stikine	931	NS	NS	NS	NS						0	5
4D11P	Kinaskan Lake	Stikine	1020	2018-06-01	0	0		0%	0	0	0	94	28	22
4E02B	ATLIN LAKE	Yukon	730	NS	NS	NS	NS							
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													
NA	Not available													
NS	Not scheduled													
SD	Snow Depth													
SWE	Snow Water Equivalent													
T	Trace Amount													

Snow Basin Index Graphs - June 1, 2018

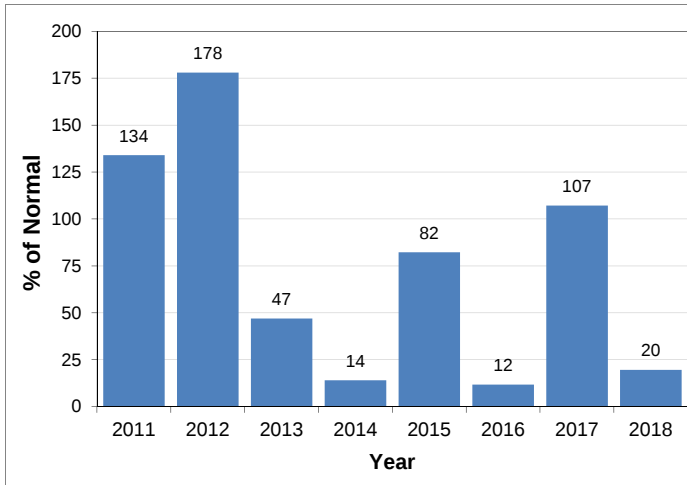
Upper Fraser West



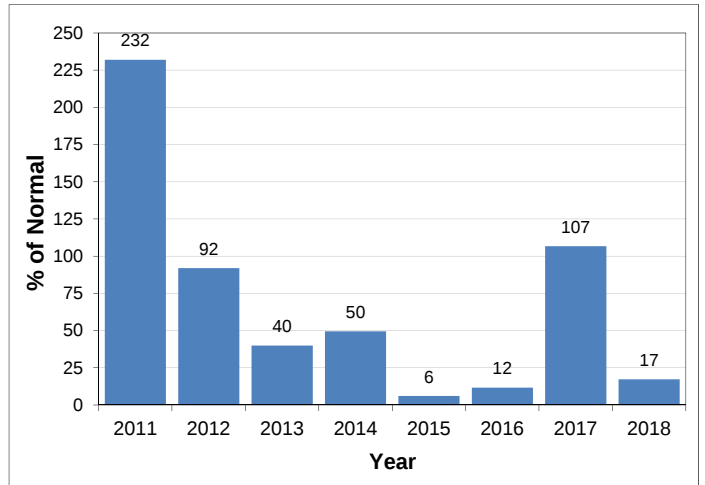
Upper Fraser East



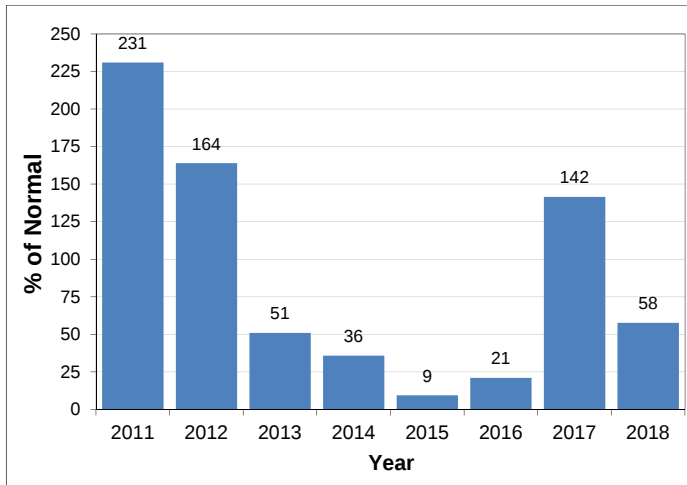
Nechako



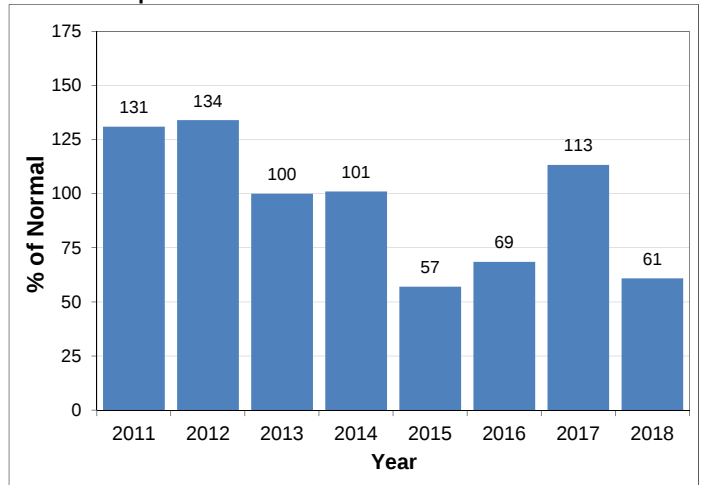
Middle Fraser



Lower Fraser

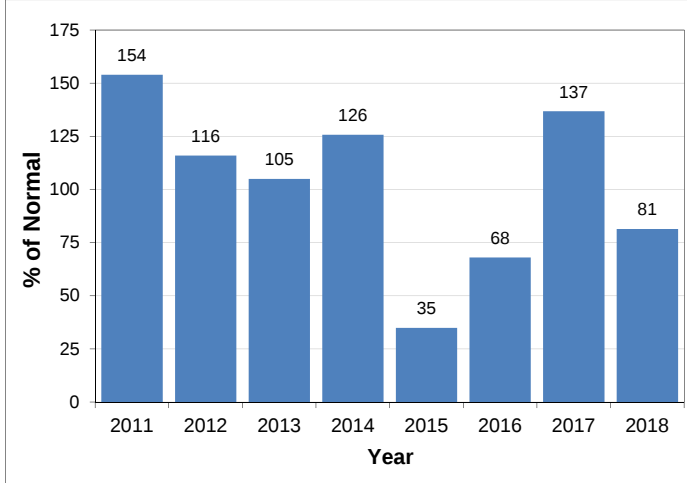


North Thompson

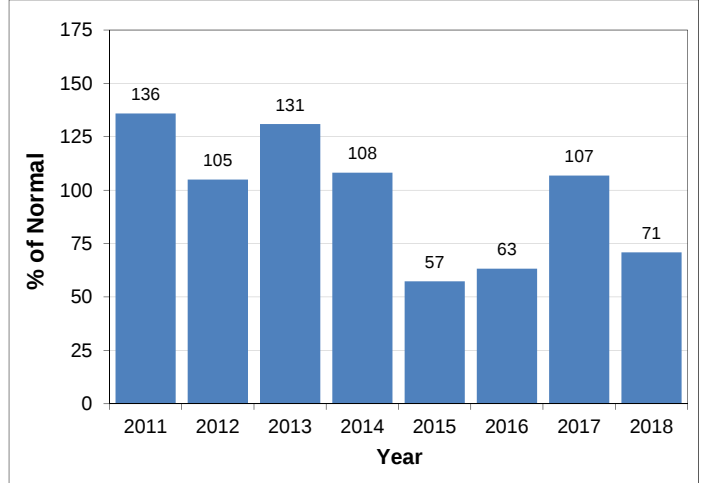


Snow Basin Index Graphs - June 1, 2018

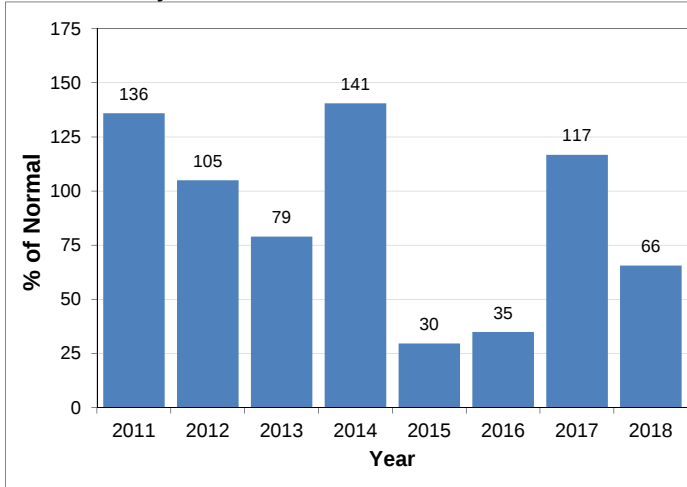
South Thompson



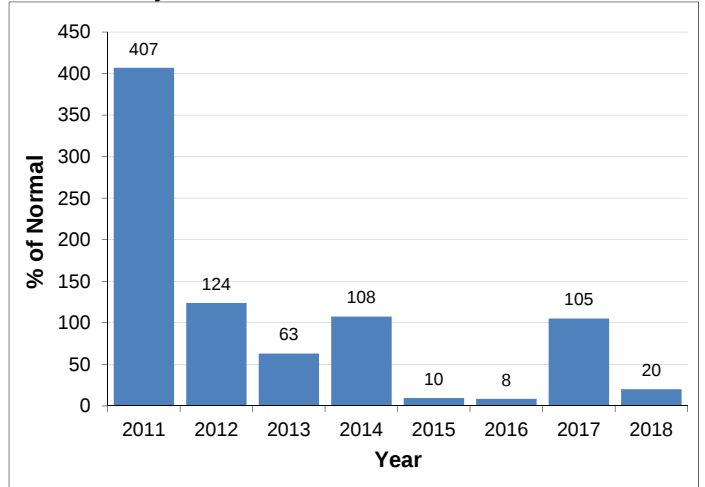
Upper Columbia



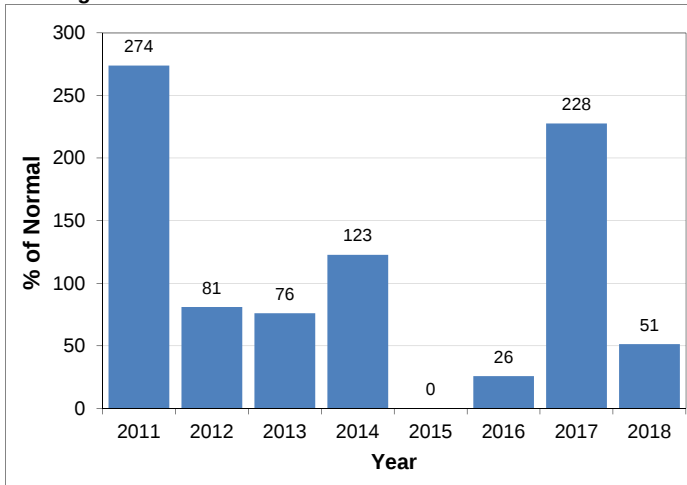
West Kootenay



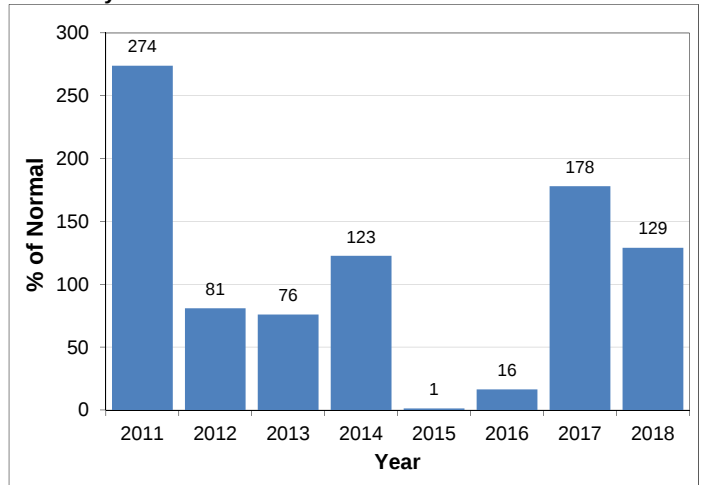
East Kootenay



Okanagan

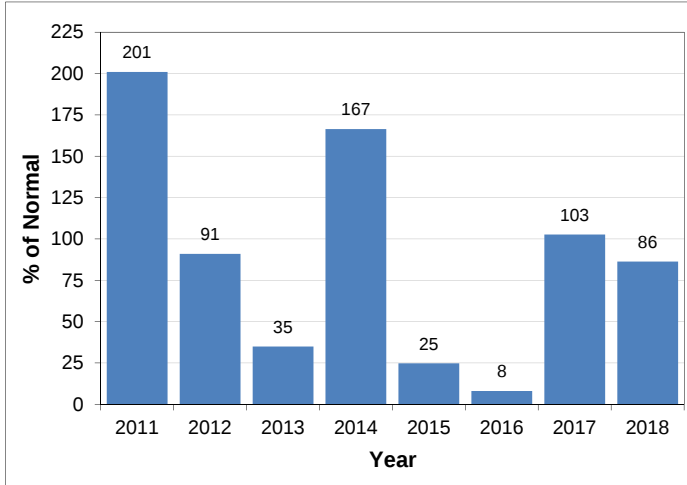


Boundary

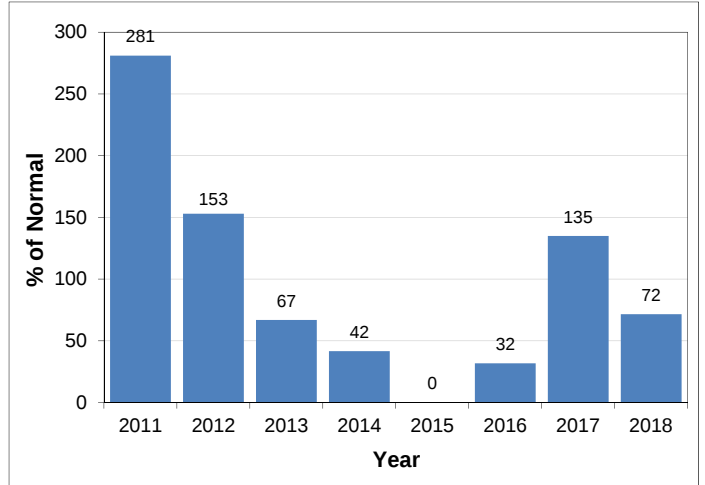


Snow Basin Index Graphs - June 1, 2018

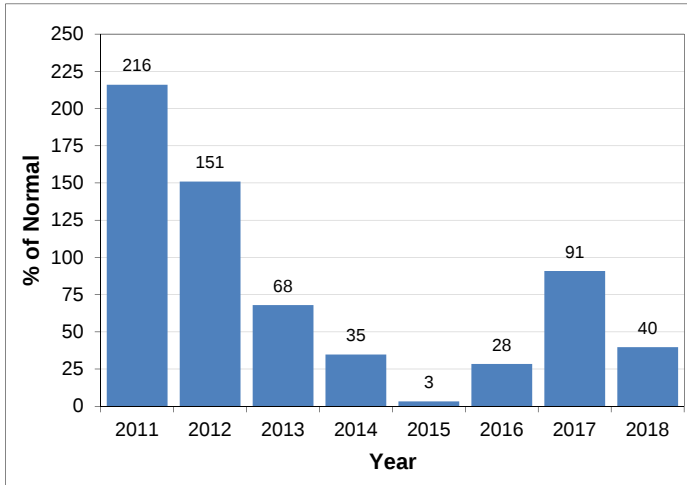
Similkameen



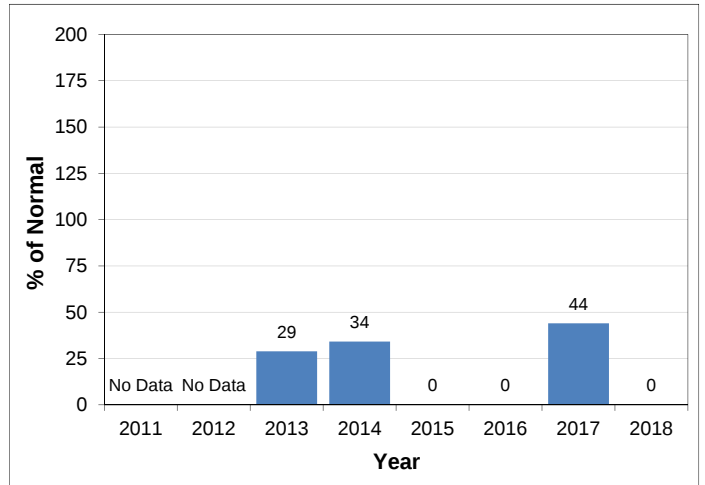
South Coast



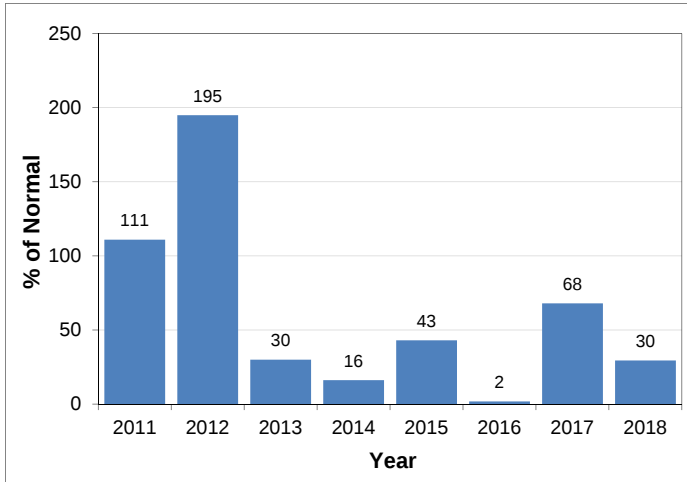
Vancouver Island



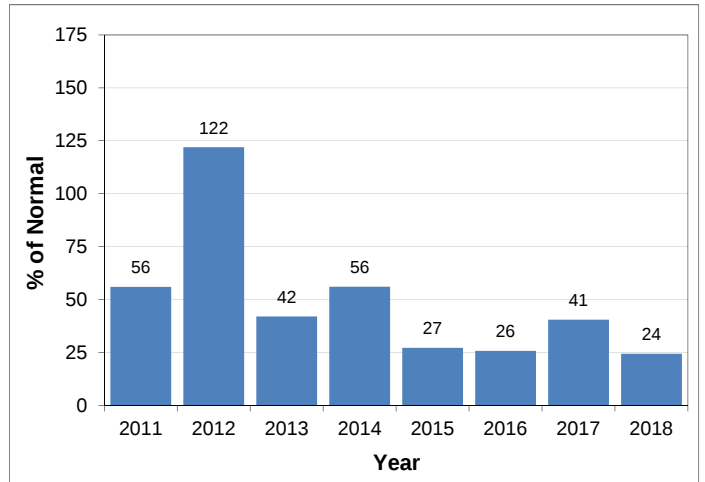
Central Coast



Skeena-Nass



Peace



Snow Survey and Water Supply Bulletin – June 15th, 2018

The June 15th, 2018 snow survey is now complete. Data from 4 manual snow surveys and 72 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 forms the basis of the following report¹.

Weather

Hot and dry weather in May transitioned into cooler and wetter weather for the first half of June. This was largely the result of a shift in weather patterns towards more dominant low pressure systems. Over the past week, weather has shifted back to the dominance of high pressure across BC, leading to extremely high temperatures (5-10°C above normal)

Snowpack

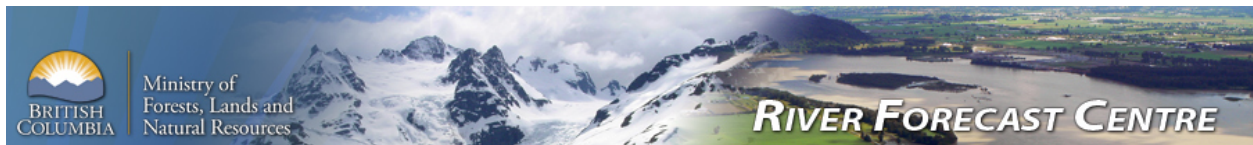
Snowmelt rates eased through the first half of June in response to cooler temperatures. Snow basin indices are below normal to well-below normal across the province. This reflects snow conditions that are 1-4 weeks ahead of normal as a result of rapid melt in May. Snow remains at the higher elevations of the province; above 1700-1800 m in the BC Interior and above 1200 m in Coastal BC.

Table 1 - BC Snow Basin Indices – June 15th, 2018

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	NO DATA	Boundary	26*
Upper Fraser East	12	Similkameen	30*
Nechako	20	South Coast	88
Middle Fraser	18	Vancouver Island	24
Lower Fraser	73	Central Coast	0*
North Thompson	38	Skagit	NO DATA
South Thompson	97	Peace	5
Upper Columbia	66*	Skeena-Nass	18
West Kootenay	58	Stikine	0*
East Kootenay	27	Liard	NO DATA
Okanagan	19	Northwest	NO DATA

*Note several June 15th basins indices are based on limited snow measurements within their watersheds

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



Snow Survey and Water Supply Bulletin – June 15th, 2018

Outlook

Flood risk from this season's snow pack has now generally subsided, and river levels across the province have been receding. In many areas of the province, streamflow has transitioned from well above normal flows in April and May, towards below normal flow in June. In watersheds draining significant amounts of high elevation terrain (for example the Lillooet River), hot temperatures have led to high flows as the remaining high elevation snow melts.

While snow melt related flood risks may be diminished, on-going risks from extreme rainfall events continue to exist. From a climatological perspective, June is a month where extreme rainfall does occur in the BC Interior, and continued vigilance around these patterns is prudent for on-going flood response through the rest of this freshet season.

While snow plays a role in summer low flows, late-spring and summer weather is ultimately the key driver summer low flow conditions. Long-range seasonal weather forecasts from Environment and Climate Change Canada are indicating an increased likelihood of warmer than normal and drier than normal conditions across the June-July-August period. With early snow melt and the increased likelihood of hot and dry summer weather conditions, there are increased province-wide risks this year for low flow and drought. Drought information, including current drought levels and streamflow conditions, can be found at the [British Columbia Drought Information Portal](#).

BC River Forecast Centre
June 21st, 2018

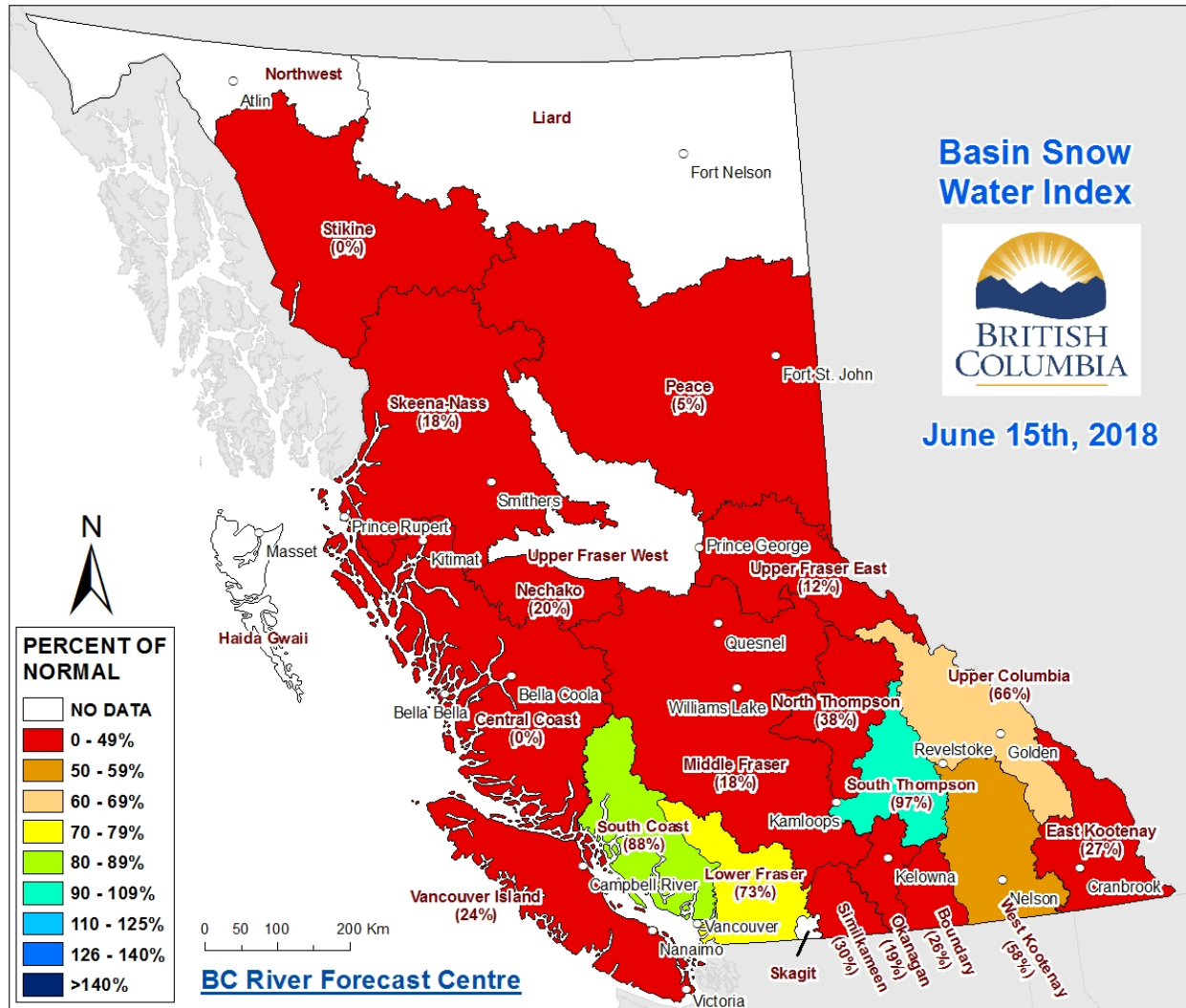


Ministry of
Forests, Lands and
Natural Resources

RIVER FORECAST CENTRE

Snow Survey and Water Supply Bulletin – June 15th, 2018

Figure 1: Basin Snow Water Index – June 15th, 2018



2018 Automated Snow Weather Station/Manual Snow Survey Data				June 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	Yellowhead Lake	Upper Fraser East	1847	2018-06-15	0	0	E	0%	66	25	0	641	135	21
1A02P	McBride Upper	Upper Fraser East	1608	2018-06-15	0	0		0%	0	0	0	198	1	26
1A03P	Barkerville	Upper Fraser East	1483	2018-06-15	0	0		0%	0	1	0	123	3	43
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	NS	NS	NS	NS				296	296	388	6
1A05P	Longworth Upper	Upper Fraser East	1740	2018-06-15	0	0			58		58	58		1
1A06A	HANSARD	Upper Fraser East	622	NS	NS	NS	NS						0	
1A10	PRINCE GEORGE A	Upper Fraser East	684	NS	NS	NS	NS				81	81	0	1
1A11	PACIFIC LAKE	Upper Fraser East	756	NS	NS	NS	NS				165	165	0	6
1A12	KAZA LAKE	Upper Fraser West	1247	NS	NS	NS	NS				132	132	0	1
1A12P	Kaza Lake	Upper Fraser West	1248	2018-06-15	0	0			0	0	0	0		2
1A14P	Hedrick Lake	Upper Fraser East	1118	2018-06-15	0	0		0%	10	0	0	587	38	18
1A15	KNUDSEN LAKE	Upper Fraser East	1598	NS	NS	NS	NS						714	8
1A15P	Knudsen Lake	Upper Fraser East	1601	2018-06-15	36	147			51		51	51		1
1A16	BURNS LAKE	Upper Fraser West	820	NS	NS	NS	NS				50	50	0	1
1A17P	Revolution Creek	Upper Fraser East	1676	2018-06-15	15	82		37%	71	2	0	927	223	33
1A19P	Dome Mountain	Upper Fraser East	1768	2018-06-15	31	138		38%	165	0	0	925	367	12
1A23	BIRD CREEK	Upper Fraser West	1196	NS	NS	NS	NS						0	
1B01	MOUNT WELLS	Nechako	1489	NS	NS	NS	NS						0	
1B01P	Mount Wells	Nechako	1489	2018-06-15		0		0%	16	0	0	321	44	26
1B02	TAHTSA LAKE	Nechako	1319	NS	NS	NS	NS						0	2
1B02P	Tahtsa Lake	Nechako	1319	2018-06-15		361		59%	684	64	0	1870	617	26
1B05	SKINS LAKE	Nechako	877	NS	NS	NS	NS				53	53	0	1
1B06	MOUNT SWANNELL	Nechako	1596	NS	NS	NS	NS						0	
1B07	NUTLI LAKE	Nechako	1502	NS	NS	NS	NS						0	
1B08P	Mount Pondosy	Nechako	1413	2018-06-15		0		0%	46	0	0	520	75	26
1C01	BROOKMERE	Middle Fraser	994	NS	NS	NS	NS						0	
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	NS	NS	NS	NS				239	239	0	4
1C05P	McGillivray Pass	Middle Fraser	1766	2018-06-16		0								
1C06	PAVILION	Middle Fraser	1209	NS	NS	NS	NS						0	
1C08	NAZKO	Middle Fraser	1029	NS	NS	NS	NS				31	31	0	1
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	NS	NS	NS	NS						0	
1C12P	Green Mountain	Middle Fraser	1766	2018-06-17		0		0%	1	11	0	887	272	24
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	NS	NS	NS	NS						0	
1C14	BRALORNE	Middle Fraser	1382	NS	NS	NS	NS				77	77	0	1
1C14P	Bralorne	Middle Fraser	1382	2018-06-18	0	0								
1C17	MOUNT TIMOTHY	Middle Fraser	1632	NS	NS	NS	NS		0		0	161	126	6
1C18P	Mission Ridge	Middle Fraser	1903	2018-06-15		0		0%	1	0	0	387	15	48

2018 Automated Snow Weather Station/Manual Snow Survey Data				June 15					Historic Snow Water Equivalent (mm)					Years of Record
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	NS	NS	NS	NS						0	
1C20P	Boss Mountain Mine	Middle Fraser	1477	2018-06-15	0	0		0%	0	0	0	255	6	24
1C21	BIG CREEK	Middle Fraser	1130	NS	NS	NS	NS				42	42	0	1
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	NS	NS	NS	NS				22	22	0	1
1C23	PENFOLD CREEK	Middle Fraser	1687	NS	NS	NS	NS				525	525	643	6
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	NS	NS	NS	NS				119	119	0	1
1C28	DUFFEY LAKE	Middle Fraser	1253	NS	NS	NS	NS						0	
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	NS	NS	NS	NS						0	
1C32	DEADMAN RIVER	Middle Fraser	1463	NS	NS	NS	NS						0	
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	NS	NS	NS	NS				116	116	0	1
1C37	BRALORNE(UPPER)	Middle Fraser	1980	NS	NS	NS	NS				290	290	0	1
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	NS	NS	NS	NS						0	
1C38P	Downton Lake Upper	Middle Fraser	1829	2018-06-15		166			458	512	458	512		2
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	NS	NS	NS	NS				300	300	0	1
1C40	TYAUGHTON	Middle Fraser	1946	NS	NS	NS	NS				198	198	0	1
1C40P	North Tyaughton	Middle Fraser	1969	2018-06-15		14			0	0	0	0		2
1C41P	Yanks Peak East	Middle Fraser	1683	2018-06-15	0	0		0%	15	0	0	698	191	21
1C42	CAVERHILL LAKE	Middle Fraser	1400	NS	NS	NS	NS							
1D06P	Tenquille Lake	Lower Fraser	1669	2018-06-15	70	320		74%	703	153	0	1177	434	17
1D08	STAVE LAKE	Lower Fraser	1211	NS	NS	NS	NS				584	584	0	2
1D09	WAHLEACH LAKE	Lower Fraser	1395	NS	NS	NS	NS				224	224	71	7
1D09P	Wahleach Lake Upper	Lower Fraser	1408	2018-06-15		304		47%	255	8	0	1281	643	26
1D10	NAHATLATCH RIVER	Lower Fraser	1530	NS	NS	NS	NS				634	634	697	3
1D16	DICKSON LAKE	Lower Fraser	1147	NS	NS	NS	NS				466	466	0	1
1D17P	Chilliwack River	Lower Fraser	1621	2018-06-15	135	791		99%	938	14	0	2022	797	26
1D19P	Spuzzum Creek	Lower Fraser	1197	2018-06-15	69	479		54%	1049	0	0	2320	886	19
1E01B	BLUE RIVER	North Thompson	673	NS	NS	NS	NS				160	160	0	1
1E02P	Mount Cook	North Thompson	1574	2018-06-15		691		101%	890	625	206	1155	681	18
1E03A	TROPHY MOUNTAIN	North Thompson	1907	NS	NS	NS	NS						0	2
1E05	KNOUFF LAKE	North Thompson	1189	NS	NS	NS	NS						0	
1E07	ADAMS RIVER	North Thompson	1769	NS	NS	NS	NS						255	22
1E08P	Azure River	North Thompson	1625	2018-06-15	9	23		5%	631	38	75	1500	499	21
1E10P	Kostal Lake	North Thompson	1760	2018-06-15	0	33		9%	465	3	0	1248	351	33
1E14P	Cook Creek	North Thompson	1280	2018-06-15	0	0	E		25	0	0	25	0	10
1F01A	ABERDEEN LAKE	South Thompson	1262	NS	NS	NS	NS				85	85	0	1
1F02	ANGLEMONT	South Thompson	1168	NS	NS	NS	NS						0	
1F03P	Park Mountain	South Thompson	1857	2018-06-15	65	428		93%	538	198	0	1095	458	33

2018 Automated Snow Weather Station/Manual Snow Survey Data				June 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1F04P	Enderby	South Thompson	1950	2018-06-15	128	684			775		775	775		1
1F06P	Celista Mountain	South Thompson	1533	2018-06-15	0	0		0%	194	2	0	573	179	13
2A01A	CANOE RIVER	Upper Columbia	866	NS	NS	NS	NS						0	
2A02	GLACIER	Upper Columbia	1249	NS	NS	NS	NS				362	362	47	25
2A03A	FIELD	Upper Columbia	1310	NS	NS	NS	NS						0	
2A06P	Mount Revelstoke	Upper Columbia	1770	2018-06-15		607		87%	740	265	0	1801	700	25
2A07	KICKING HORSE	Upper Columbia	1648	NS	NS	NS	NS				160	160	0	6
2A11	BEAVERFOOT	Upper Columbia	1924	NS	NS	NS	NS				148	148	0	1
2A14	MOUNT ABBOT	Upper Columbia	2031	NS	NS	NS	NS				600	600	841	15
2A16	GOLDSTREAM	Upper Columbia	1914	NS	NS	NS	NS				584	584	0	1
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	NS	NS	NS	NS				590	590	816	26
2A18	KEYSTONE CREEK	Upper Columbia	1839	NS	NS	NS	NS				414	414	0	1
2A18P	Keystone Creek	Upper Columbia	1850	2018-06-15		287			594	81	81	594		2
2A19	VERMONT CREEK	Upper Columbia	1533	NS	NS	NS	NS				286	286	0	1
2A21P	Molson Creek	Upper Columbia	1930	2018-06-15		258		45%	527	114	0	1136	575	37
2A22	SUNBEAM LAKE	Upper Columbia	2066	NS	NS	NS	NS				469	469	0	1
2A23	BUSH RIVER	Upper Columbia	1982	NS	NS	NS	NS				483	483	0	1
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	NS	NS	NS	NS				671	671	0	2
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	NS	NS	NS	NS				338	338	0	2
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	NS	NS	NS	NS				335	335	540	3
2A30P	Colpitti Creek	Upper Columbia	2131	2018-06-15		282			390	0	0	390		2
2A31P	Caribou Creek Upper	Upper Columbia	2201	2018-06-15		355			469	40	40	469		2
2A32P	Wildcat Creek	Upper Columbia	2122	2018-06-15		176			320	0	0	320		2
2B02A	FARRON	Lower Columbia	1229	NS	NS	NS	NS				157	157	0	1
2B05	WHATSHAN (UPPER)	Lower Columbia	1476	NS	NS	NS	NS						0	2
2B06P	Barnes Creek	Lower Columbia	1595	2018-06-15		15		150%	4	2	0	272	10	25
2B07	KOCH CREEK	Lower Columbia	1813	NS	NS	NS	NS				415	415	0	2
2B08P	St. Leon Creek	Lower Columbia	1822	2018-06-15		519		102%	540	65	0	1336	509	25
2B09	RECORD MOUNTAIN	Lower Columbia	1906	2018-06-15	0	0		0%	170	0	0	320	127	32
2C01	SINCLAIR PASS	East Kootenay	1374	NS	NS	NS	NS						0	
2C04	SULLIVAN MINE	East Kootenay	1580	NS	NS	NS	NS				114	114	0	2
2C07	FERNIE EAST	East Kootenay	1213	NS	NS	NS	NS				98	98	0	1
2C09Q	Morrissey Ridge	East Kootenay	1966	2018-06-15		0		0%	1	0	0	458	34	38
2C10P	Moyie Mountain	East Kootenay	1840	2018-06-15	0	0		0%	0	0	0	184	1	39
2C14P	Floe Lake	East Kootenay	2110	2018-06-15		269		81%	365	0	0	866	334	25
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	NS	NS	NS	NS				270	270	0	1
2C16	MOUNT JOFFRE	East Kootenay	1763	NS	NS	NS	NS				206	206	0	1

2018 Automated Snow Weather Station/Manual Snow Survey Data				June 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2C17	THUNDER CREEK	East Kootenay	2062	NS	NS	NS	NS				190	190	0	1
2D02	FERGUSON	West Kootenay	929	NS	NS	NS	NS				320	320	30	4
2D03	SANDON	West Kootenay	1072	NS	NS	NS	NS						0	
2D04	NELSON	West Kootenay	952	NS	NS	NS	NS				121	121	0	1
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	NS	NS	NS	NS						28	22
2D06	CHAR CREEK	West Kootenay	1290	NS	NS	NS	NS				221	221	32	8
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS	NS	NS	NS						0	1
2D08P	East Creek	West Kootenay	2004	2018-06-15		116		25%	593	0	0	1163	464	37
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	NS	NS	NS	NS				520	520	0	1
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	NS	NS	NS	NS						201	20
2D14P	Redfish Creek	West Kootenay	2086	2018-06-15	172	869		105%	1457	533	292	1722	831	16
2E01	MONASHEE PASS	Kettle	1387	NS	NS	NS	NS				165	165	0	3
2E02	CARMI	Kettle	1254	NS	NS	NS	NS						0	
2E03	BIG WHITE MOUNTAIN	Kettle	1672	NS	NS	NS	NS						46	22
2E07P	Grano Creek	Kettle	1874	2018-06-15	0	0	E	0%	32	0	0	509	84	20
2F01A	TROUT CREEK (West)	Okanagan	1430	NS	NS	NS	NS				93	93	0	1
2F01P	Trout Creek West	Okanagan	1420	2018-06-15	0	0								0
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	NS	NS	NS	NS				172	172	0	2
2F03	MC CULLOCH	Okanagan	1266	NS	NS	NS	NS						0	1
2F04	GRAYSTOKE LAKE	Okanagan	1818	2018-06-18	4	18		23%			168	168	78	4
2F05P	Mission Creek	Okanagan	1794	2018-06-15	22	28		53%	0	0	0	424	53	48
2F07	POSTILL LAKE	Okanagan	1358	NS	NS	NS	NS						0	
2F08P	Greyback Reservoir	Okanagan	1550	2018-06-15	0	0			0		0	0		1
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	NS	NS	NS	NS						26	23
2F10P	Silver Star Mountain	Okanagan	1839	2018-06-15	58	396			493	0	0	493		2
2F11	ISINTOK LAKE	Okanagan	1651	NS	NS	NS	NS				108	108	0	3
2F12	MOUNT KOBAU	Okanagan	1817	NS	NS	NS	NS				185	185	72	8
2F13	ESPERON CR (UPPER)	Okanagan	1634	NS	NS	NS	NS						0	2
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	NS	NS	NS	NS						0	2
2F18P	Brenda Mine	Okanagan	1453	2018-06-15		0		0%	0	0	0	217	3	25
2F19	OOYAMA LAKE	Okanagan	1365	NS	NS	NS	NS						0	
2F20	VASEUX CREEK	Okanagan	1403	NS	NS	NS	NS						0	
2F21	BOULEAU LAKE	Okanagan	1405	NS	NS	NS	NS						0	
2F23	MACDONALD LAKE	Okanagan	1742	NS	NS	NS	NS						0	
2F24	ISLAHT LAKE	Okanagan	1492	NS	NS	NS	NS						0	
2F25	POSTILL LAKE UPPER	Okanagan	1500	NS	NS	NS	NS							
2G03P	Blackwall Peak	Similkameen	1934	2018-06-15	16	65		30%	69	3	0	1031	218	50

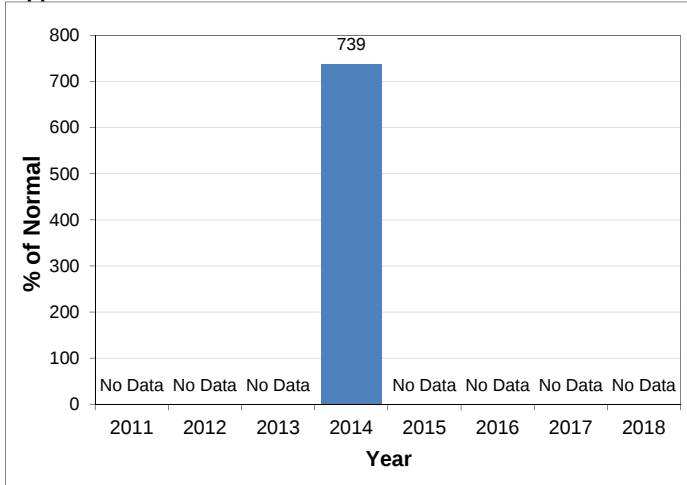
2018 Automated Snow Weather Station/Manual Snow Survey Data				June 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	NS	NS	NS	NS						25	14
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	NS	NS	NS	NS						0	
2G06	HAMILTON HILL	Similkameen	1477	NS	NS	NS	NS						0	
3A01	GROUSE MOUNTAIN	South Coast	1126	NS	NS	NS	NS				596	596	0	1
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS	NS	NS	NS						0	
3A05	POWELL RIVER (LOWER)	South Coast	882	NS	NS	NS	NS						0	
3A09	PALISADE LAKE	South Coast	898	NS	NS	NS	NS						0	
3A10	DOG MOUNTAIN	South Coast	1007	2018-06-18	48	285		71%	1032	0	0	1032	399	29
3A19	ORCHID LAKE	South Coast	1178	2018-06-15	153	890		89%		300	832	832	1002	34
3A20	CALLAGHAN CREEK	South Coast	1009	NS	NS	NS	NS						0	9
3A22P	Nostetuko River	South Coast	1457	2018-06-15	0	0		0%	0	0	0	268	20	29
3A24P	Mosley Creek Upper	South Coast	1655	2018-06-15	0	0		0%	0	0	0	159	1	29
3A25P	Squamish River Upper	South Coast	1387	2018-06-15	131	815		104%	936	374	0	2505	786	28
3A26	CHAPMAN CREEK	South Coast	1022	NS	NS	NS	NS							
3A27	EDWARDS LAKE	South Coast	1070	NS	NS	NS	NS							
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	NS	NS	NS	NS				660	660	830	11
3B02A	MOUNT COKELY	Vancouver Island	1267	NS	NS	NS	NS						0	
3B04	ELK RIVER	Vancouver Island	270	NS	NS	NS	NS				40	40	0	1
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	NS	NS	NS	NS						0	5
3B17P	Wolf River Upper	Vancouver Island	1422	2018-06-15		297		49%	493	75	0	2183	609	36
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	NS	NS	NS	NS				230	230	0	1
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	NS	NS	NS	NS				160	160	0	1
3B23P	Jump Creek	Vancouver Island	1134	2018-06-15	0	0		0%	186	0	0	2700	337	22
3B24P	Heather Mountain Upper	Vancouver Island	1190	2018-06-15	91	610			1296	0	0	1296		2
3B26P	Mount Arrowsmith	Vancouver Island	1465	2018-06-15	74	348								0
3C07	WEDEENE RIVER SOUTH	North Coast	196	NS	NS	NS	NS						0	
3C08P	Burnt Bridge Creek	North Coast	1329	2018-06-15	0	0		0%	0	0	0	739	99	20
3D01C	SUMALLO RIVER WEST	Skagit	801	NS	NS	NS	NS				82	82	0	1
3D02	LIGHTNING LAKE	Skagit	1254	NS	NS	NS	NS						0	
3D03A	KLESILKWA	Skagit	1134	NS	NS	NS	NS				134	134	0	1
4A02P	Pine Pass	Peace	1386	2018-06-15	41	31		10%	117	45	0	1142	324	29
4A03	WARE (UPPER)	Peace	1563	NS	NS	NS	NS				90	90	0	1
4A03P	Ware Upper	Peace	1565	2018-06-15	0	0			0		0	0		1
4A04	WARE (LOWER)	Peace	969	NS	NS	NS	NS				89	89	0	1
4A04P	Ware Lower	Peace	971	2018-06-15	0	0			0		0	0		1
4A05	GERMANSEN (UPPER)	Peace	1489	NS	NS	NS	NS				156	156	0	1
4A06	TUTIZZI LAKE	Peace	1043	NS	NS	NS	NS				106	106	0	1

2018 Automated Snow Weather Station/Manual Snow Survey Data				June 15					Historic Snow Water Equivalent (mm)						
			Elevation	Survey Date	SD	SWE		SWE %	2017	2016	Minimum	Maximum	1981-2010		
Station ID	Name	Basin	(masl)	YYYY-MM-DD	(cm)	(mm)	Code	1981-2010 Normal	SWE (mm)	SWE (mm)	(mm)	(mm)	Normal (mm)	Years of Record	
4A07	LADY LAURIER LAKE	Peace	1460	NS	NS	NS	NS				194	194	0	1	
4A09	PULPIT LAKE	Peace	1331	NS	NS	NS	NS				152	152	0	1	
4A09P	Pulpit Lake	Peace	1331	2018-06-15	0	0		0%	3	0	0	133	2	28	
4A10	FREDRICKSON LAKE	Peace	1323	NS	NS	NS	NS				93	93	0	1	
4A11	TRYGVE LAKE	Peace	1409	NS	NS	NS	NS				119	119	0	1	
4A12	TSAYDAYCHI LAKE	Peace	1173	NS	NS	NS	NS				166	166	0	1	
4A13	PHILIP LAKE	Peace	1013	NS	NS	NS	NS				137	137	0	1	
4A16	MORFEE MOUNTAIN	Peace	1427	NS	NS	NS	NS				265	265	0	2	
4A18	MOUNT SHEBA	Peace	1480	NS	NS	NS	NS				369	369	0	2	
4A20	MONKMAN CREEK	Peace	1566	NS	NS	NS	NS				190	190	0	2	
4A21	MOUNT STEARNS	Peace	1514	NS	NS	NS	NS				41	41	0	1	
4A25	FORT ST. JOHN A	Peace	692	NS	NS	NS	NS				34	34	0	1	
4A27P	Kwadacha North	Peace	1554	2018-06-15	0	0			0		0	0		1	
4A30P	Aiken Lake	Peace	1061	2018-06-15	0	0		0%	2	0	0	90	5	33	
4A31P	Crying Girl Prairie	Peace	1358	2018-06-15		0			0	0	0	0		2	
4A33P	Muskwa-Kechika	Peace	1196	2018-06-15		0			0	0	0	0		2	
4A34P	Dowling Creek	Peace	1456	2018-06-15		0			0		0	0		1	
4B01	KIDPRICE LAKE	Skeena-Nass	1415	NS	NS	NS	NS						0	2	
4B02	JOHANSON LAKE	Skeena-Nass	1480	NS	NS	NS	NS				108	108	0	1	
4B03A	HUDSON BAY MTN.	Skeena-Nass	1452	N	N	N	N				0	168	96	36	
4B04	CHAPMAN LAKE	Skeena-Nass	1485	NS	NS	NS	NS						0	3	
4B06	TACHEK CREEK	Skeena-Nass	1133	NS	NS	NS	NS						0		
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	NS	NS	NS	NS						0	2	
4B08	MOUNT CRONIN	Skeena-Nass	1491	NS	NS	NS	NS						0	6	
4B10	NINGUNSAW PASS	Nass	647	NS	NS	NS	NS						0		
4B11A	BEAR PASS	Nass	437	NS	NS	NS	NS						0		
4B12P	Granduc Mine	Skeena-Nass	790	2018-06-15	29				0		0	0		1	
4B13A	TERRACE A	Skeena-Nass	219	NS	NS	NS	NS				68	68	0	1	
4B14	EQUITY MINE	Skeena-Nass	1434	NS	NS	NS	NS						0		
4B15	LU LAKE	Skeena-Nass	1296	NS	NS	NS	NS						0		
4B15P	Lu Lake	Skeena-Nass	1308	2018-06-15	0	0			0	0	0	119	0	20	
4B16P	Shedin Creek	Skeena-Nass	1320	2018-06-15	0	0		0%	4	4	0	916	340	22	
4B17P	Tsai Creek	Skeena-Nass	1360	2018-06-15	77	338		55%	386	0	0	1772	612	20	
4B18P	Cedar-Kiteen	Skeena-Nass	912	2018-06-15	0	0		0%	0	0	0	178	7	17	
4C01	SIKANNI LAKE	Liard	1390	NS	NS	NS	NS				78	78	0	1	
4C01P	Sikanni Lake	Liard	1400	2018-06-15	0	0			3		3	3		1	
4C02	SUMMIT LAKE	Liard	1291	NS	NS	NS	NS						0		

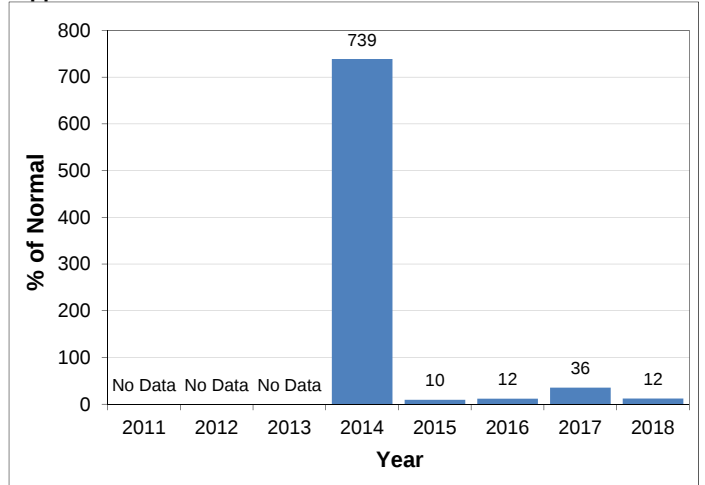
2018 Automated Snow Weather Station/Manual Snow Survey Data				June 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2017 SWE (mm)	2016 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4C03	DEASE LAKE	Liard	805	NS	NS	NS	NS						0	
4C05	FORT NELSON AIRPORT	Liard	368	NS	NS	NS	NS				38	38	0	1
4C15	JADE CITY	Liard	943	NS	NS	NS	NS						0	
4D01	TELEGRAPH CREEK	Stikine	490	NS	NS	NS	NS						0	
4D02	ISKUT	Stikine	931	NS	NS	NS	NS						0	
4D11P	Kinaskan Lake	Stikine	1020	2018-06-15	0	0			0	0	0	94	0	22
4E02B	ATLIN LAKE	Yukon	730	NS	NS	NS	NS							
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													
NA	Not available													
NS	Not scheduled													
SD	Snow Depth													
SWE	Snow Water Equivalent													
T	Trace Amount													

Snow Basin Index Graphs - June 15, 2018

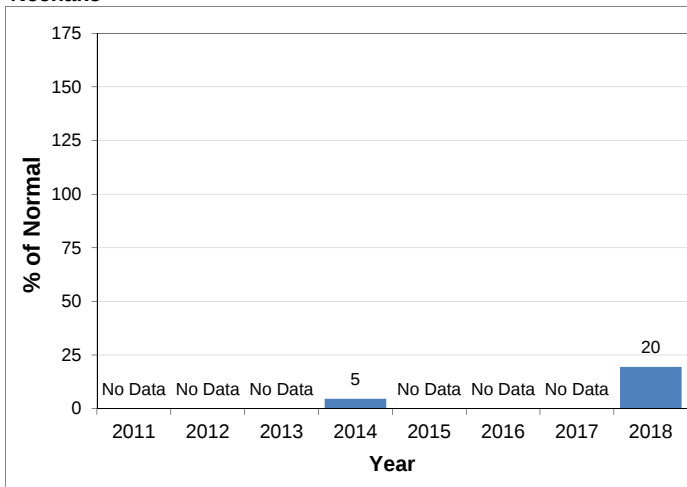
Upper Fraser West



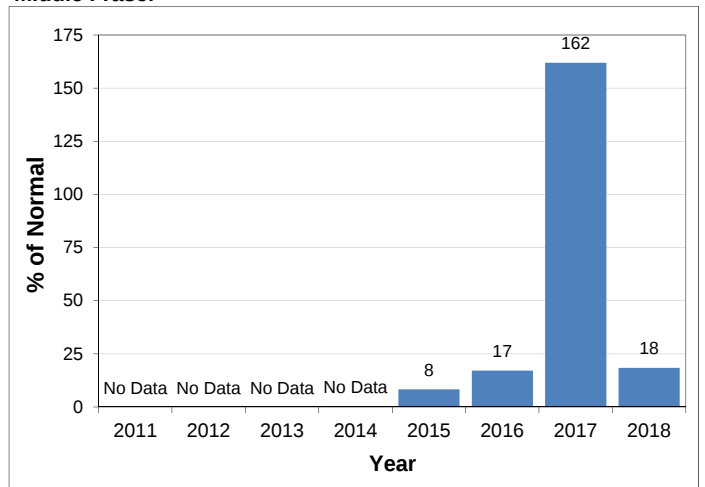
Upper Fraser East



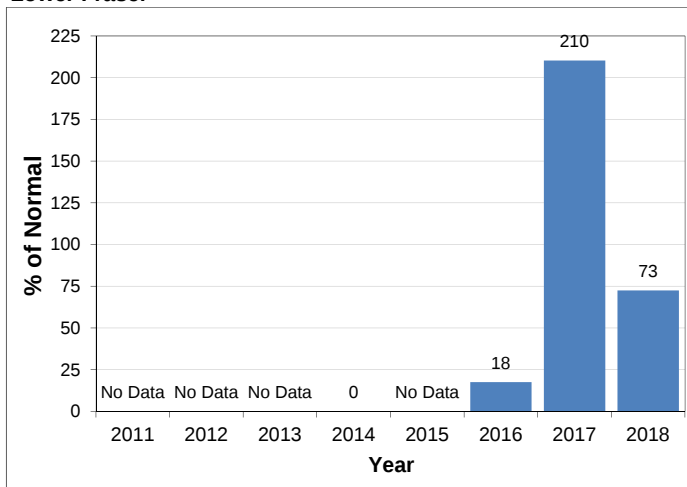
Nechako



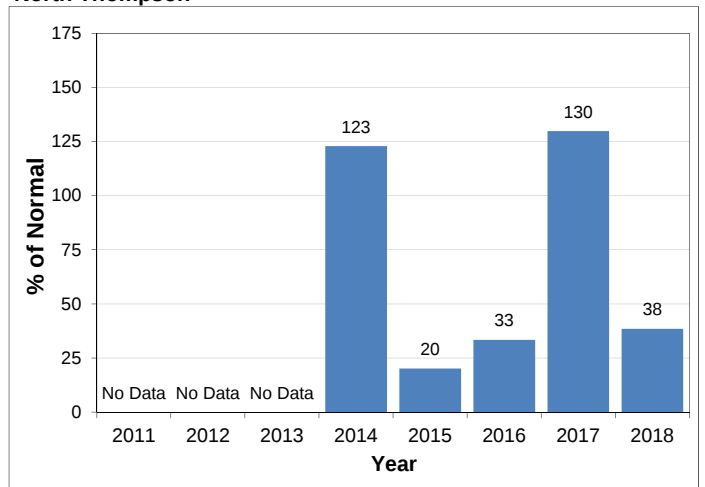
Middle Fraser



Lower Fraser

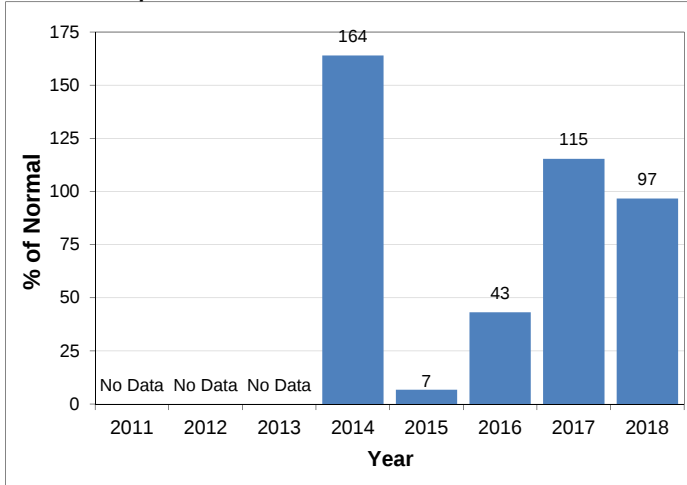


North Thompson

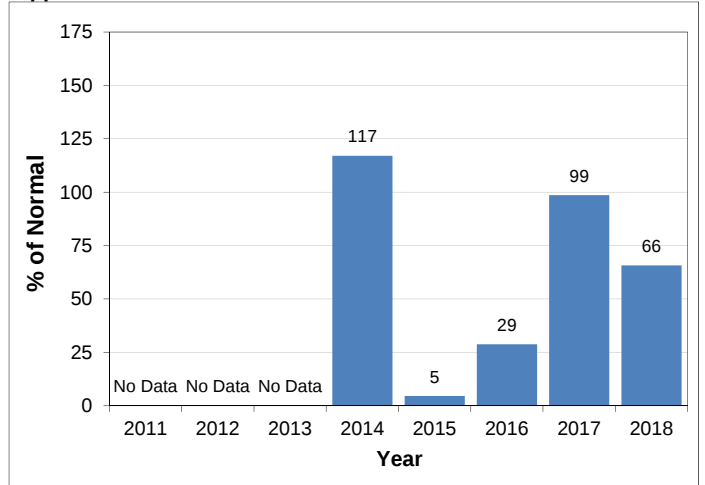


Snow Basin Index Graphs - June 15, 2018

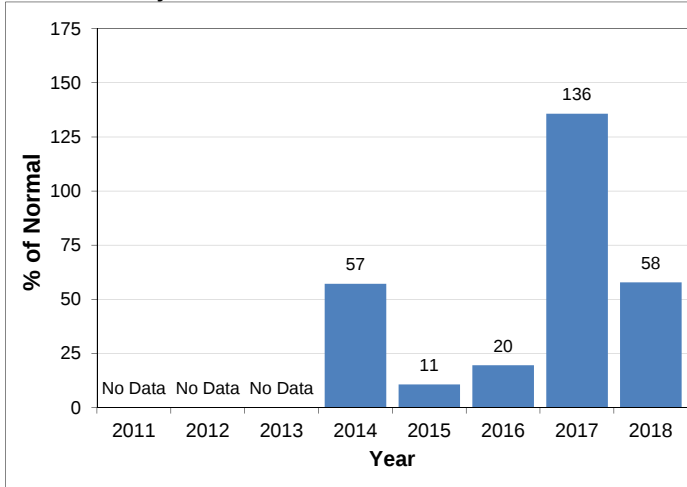
South Thompson



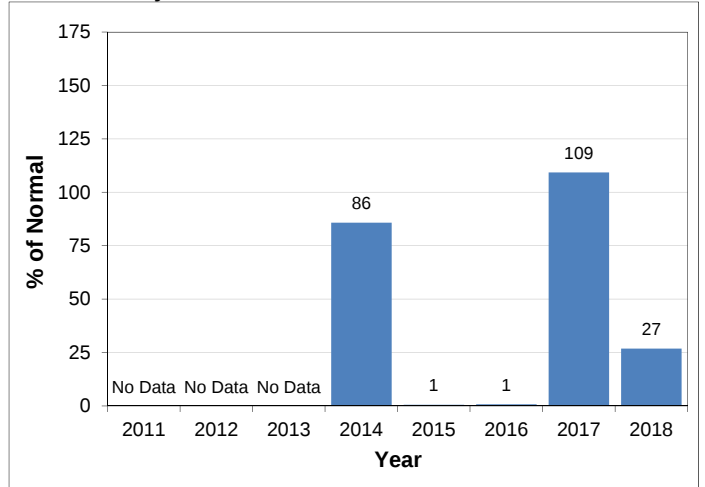
Upper Columbia



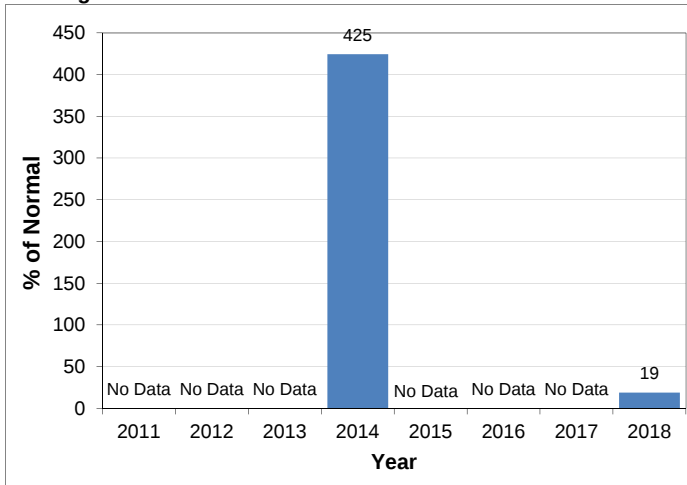
West Kootenay



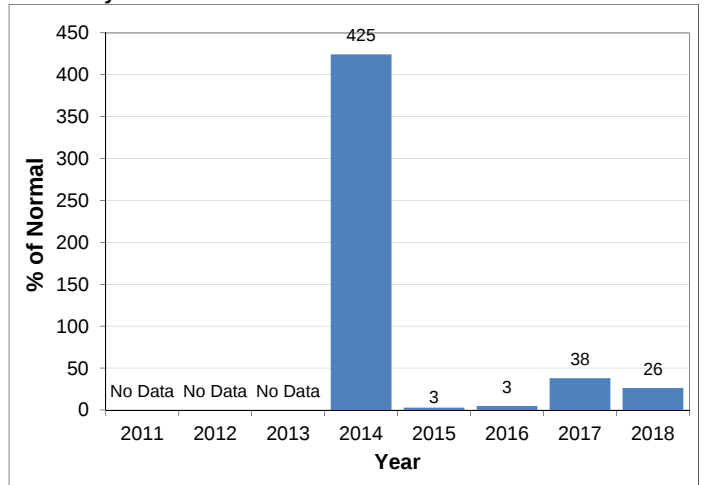
East Kootenay



Okanagan

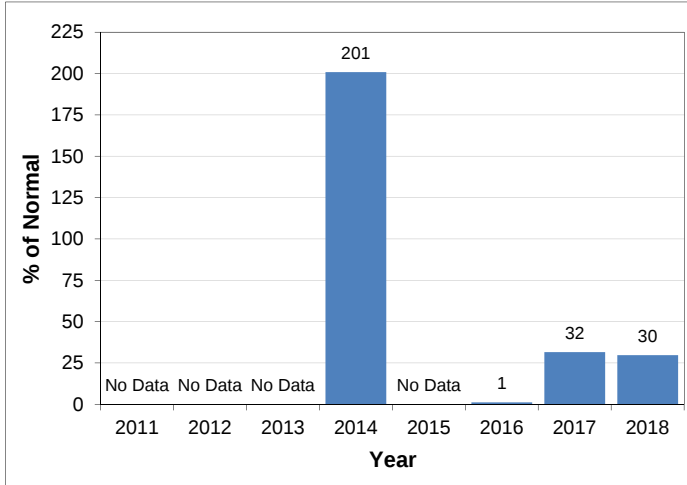


Boundary

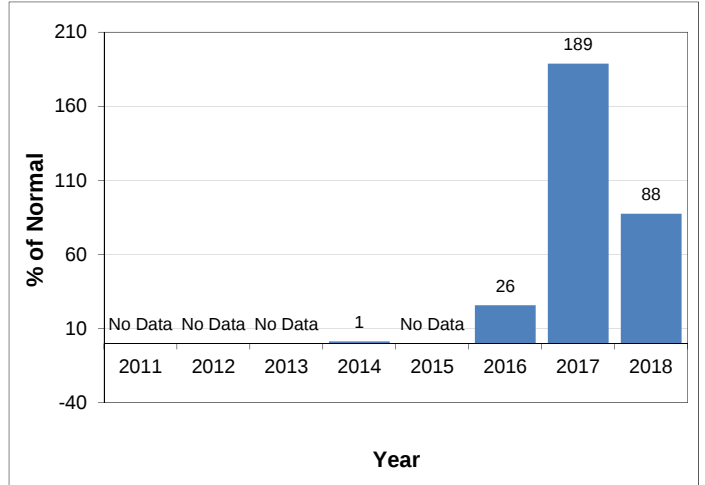


Snow Basin Index Graphs - June 15, 2018

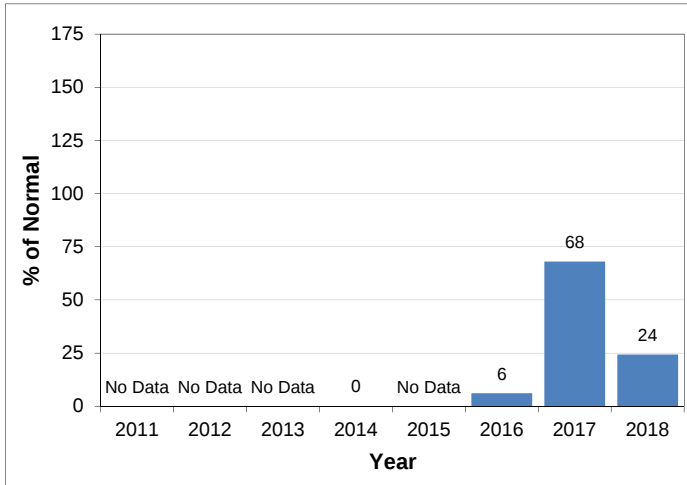
Similkameen



South Coast



Vancouver Island



Peace

