

## Snow Survey and Water Supply Bulletin – February 1<sup>st</sup>, 2018

The February 1<sup>st</sup> 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 report<sup>1</sup>.

### 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.

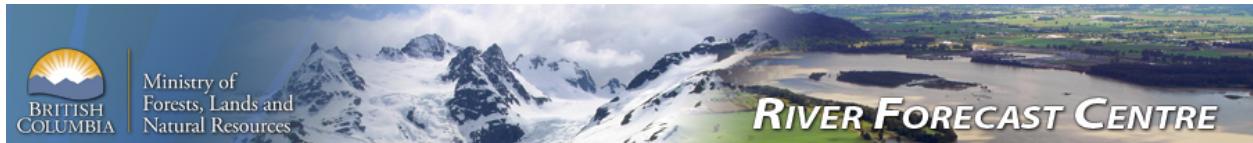
### Snowpack

Snow basin indices for February 1<sup>st</sup> 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 1<sup>st</sup>, with the average of all snow measurements across the province at 108%, increasing significantly from 96% of normal on January 1<sup>st</sup>. 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.



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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 1<sup>st</sup> 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.



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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.

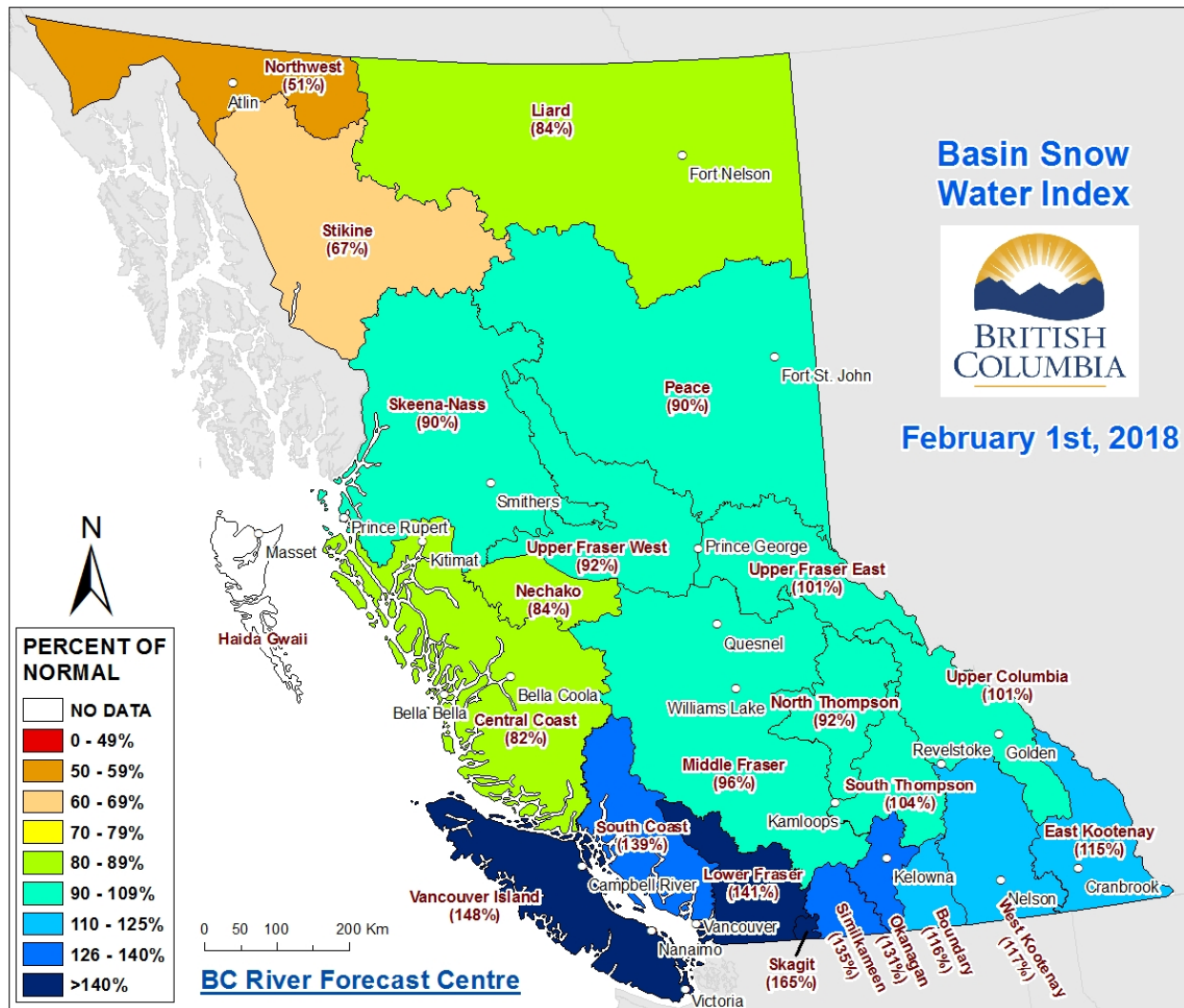
The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the March 1<sup>st</sup> 2018 bulletin, which is scheduled for release on March 8<sup>th</sup>.

BC River Forecast Centre  
February 7, 2018



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Figure 1: Basin Snow Water Index – February 1<sup>st</sup>, 2018



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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		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				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		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		82	108	56	220	103	28
1B01	MOUNT WELLS	Nechako	1489		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		67	89	35	224	83	51
1B06	MOUNT SWANNELL	Nechako	1596		N	N	N		199	178	88	353	211	29
1B07	NUTLI LAKE	Nechako	1502		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				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				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				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				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 KOBAN	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	OOYAMA 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



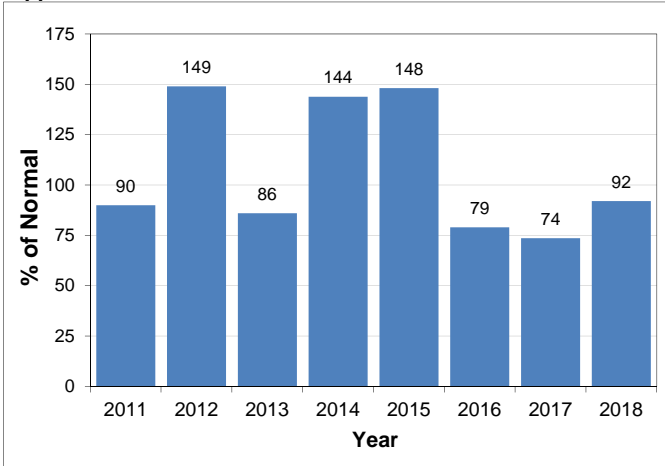
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	2018-01-31	344	1257			136%	791	944	42	1640	922	64
3B02A	MOUNT COKELY	Vancouver Island	1267		NS	NS	NS	NS				234	1050	586	7
3B04	ELK RIVER	Vancouver Island	270	2018-02-01	24	76	0		125%	102	0	0	544	61	62
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014		NS	NS	NS	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									

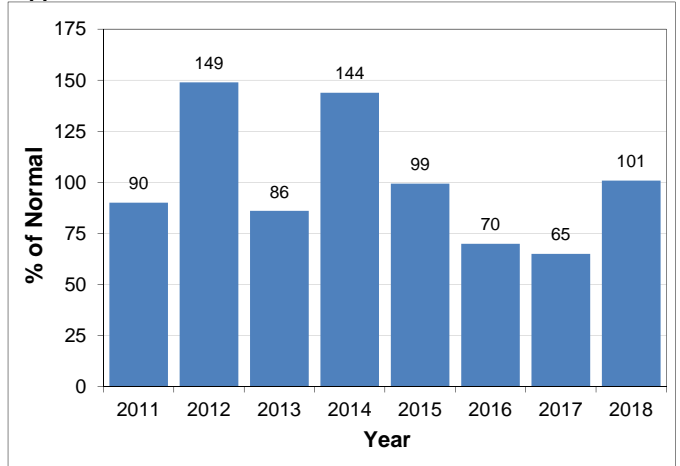
Code	Description
A	Sampling problems were encountered
B	Early or late sampling
C	Early or late sampling w/problems encountered
E	Estimate
N	Scheduled, but not sampled
NA	Not available
NS	Not scheduled
SD	Snow Depth
SWE	Snow Water Equivalent
T	Trace Amount

## Snow Basin Index Graphs - February 1, 2018

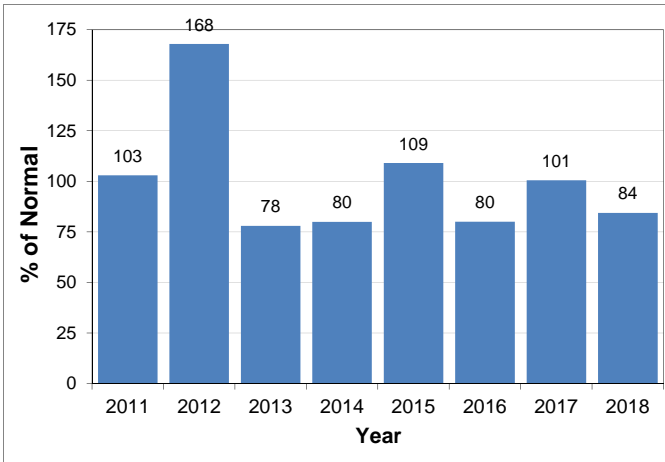
### Upper Fraser West



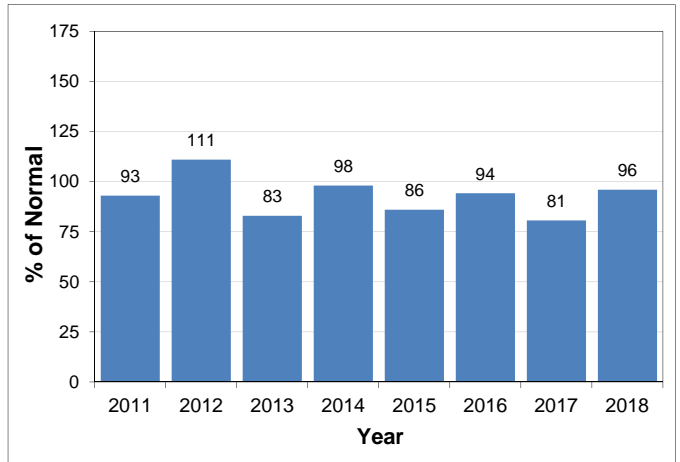
### Upper Fraser East



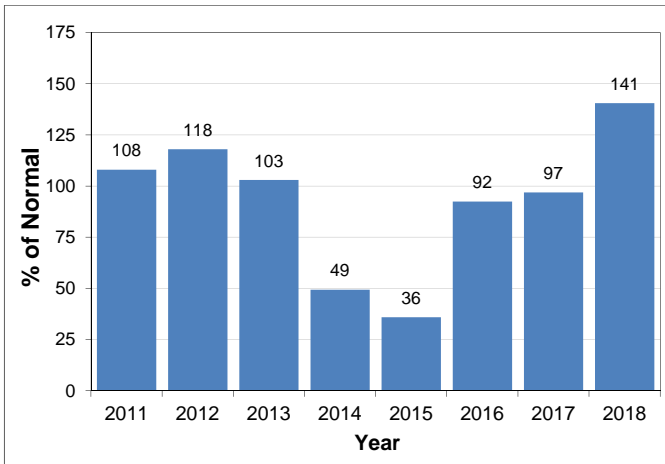
### Nechako



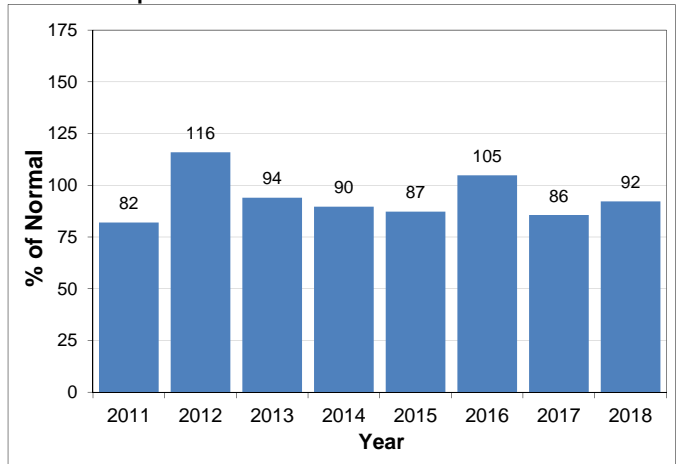
### Middle Fraser



### Lower Fraser

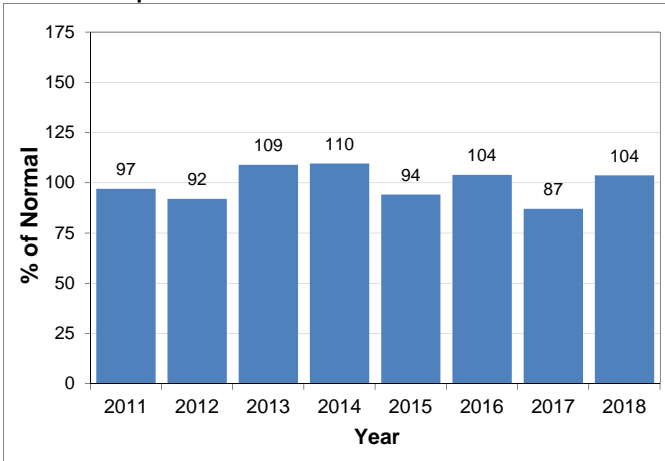


### North Thompson

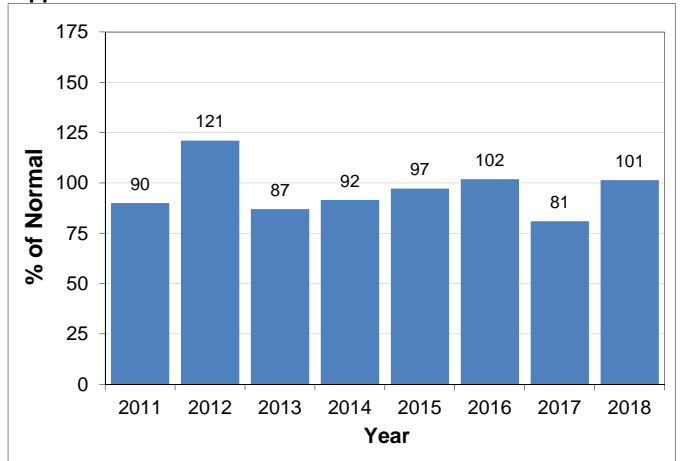


## Snow Basin Index Graphs - February 1, 2018

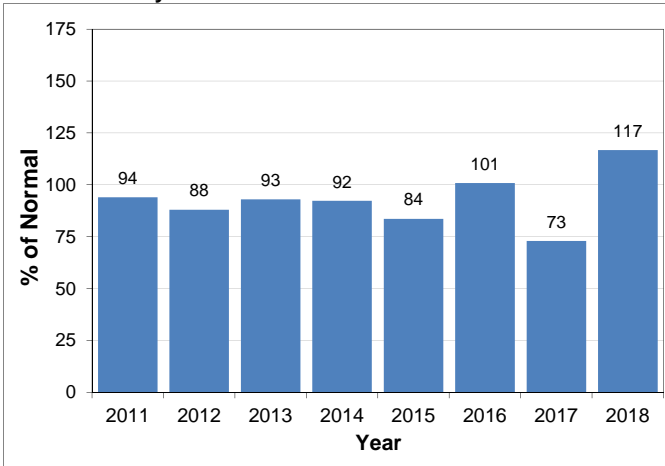
### South Thompson



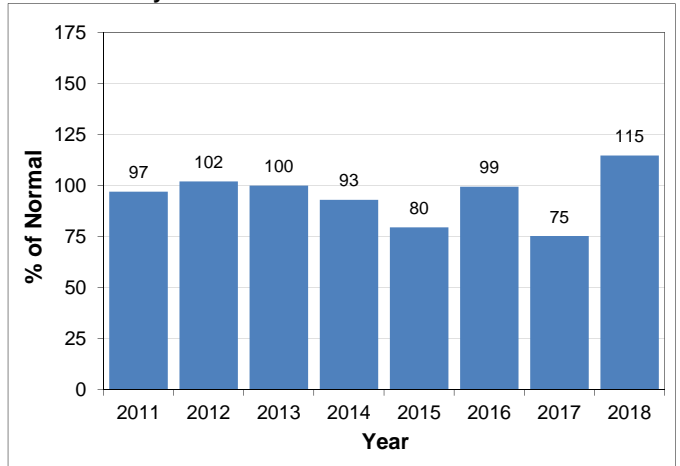
### Upper Columbia



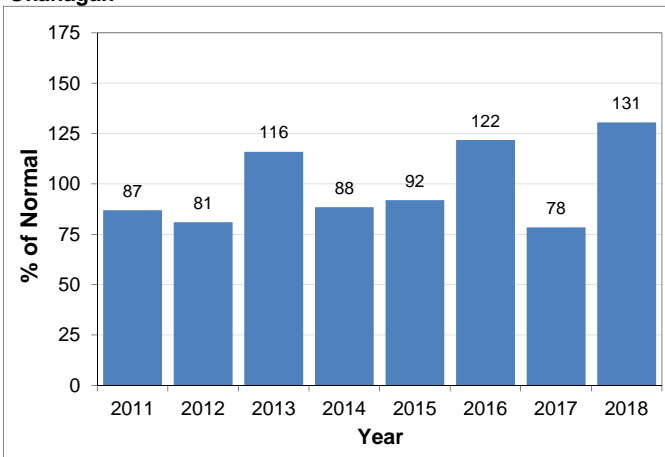
### West Kootenay



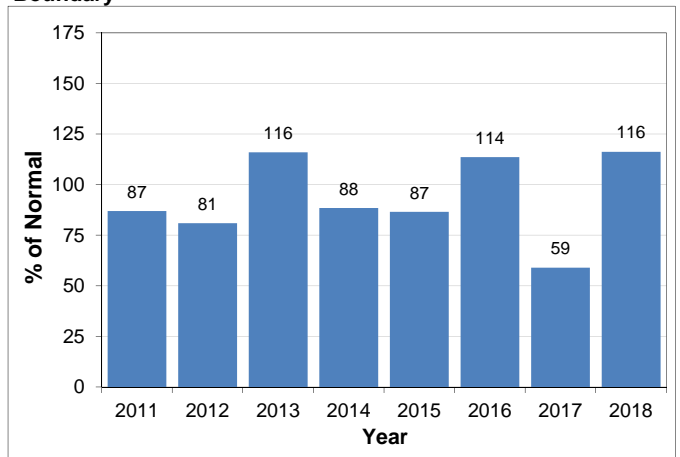
### East Kootenay



### Okanagan

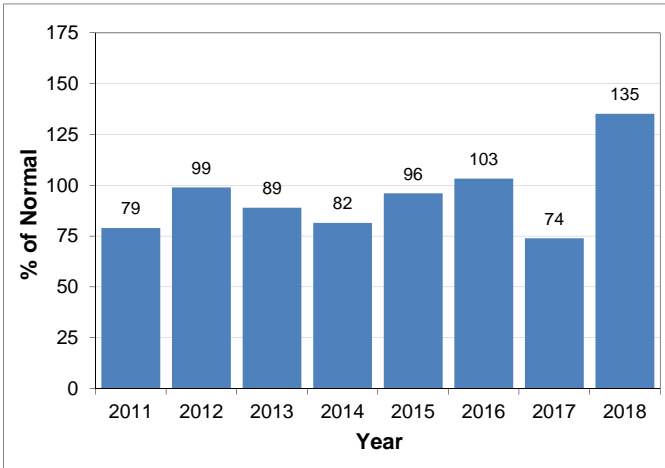


### Boundary

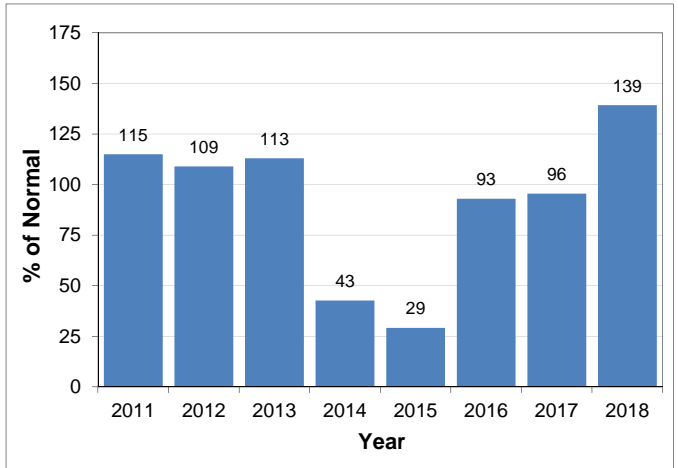


## Snow Basin Index Graphs - February 1, 2018

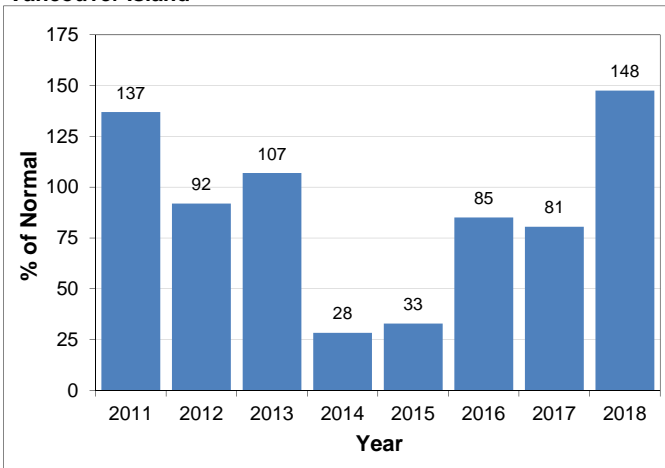
**Similkameen**



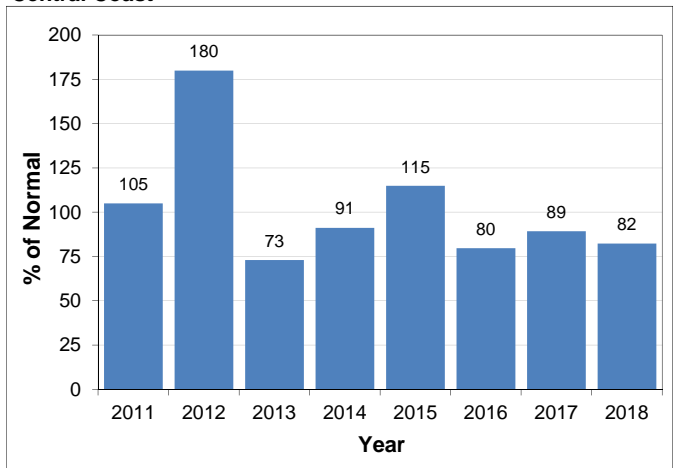
**South Coast**



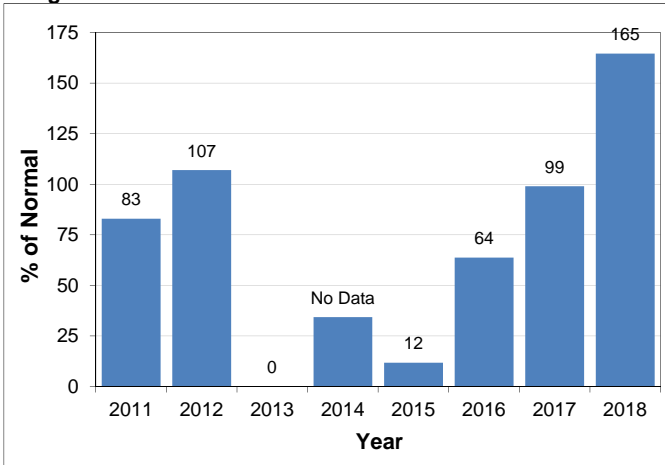
**Vancouver Island**



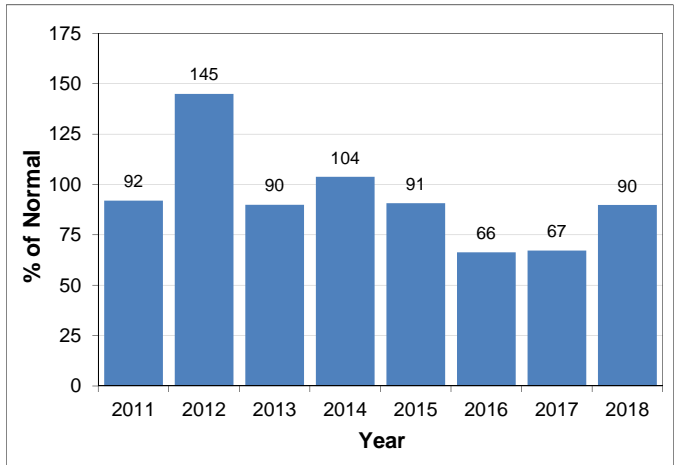
**Central Coast**



**Skagit**

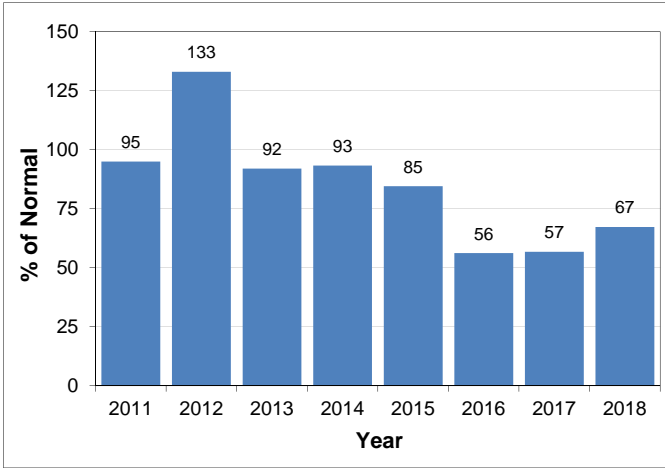


**Peace**

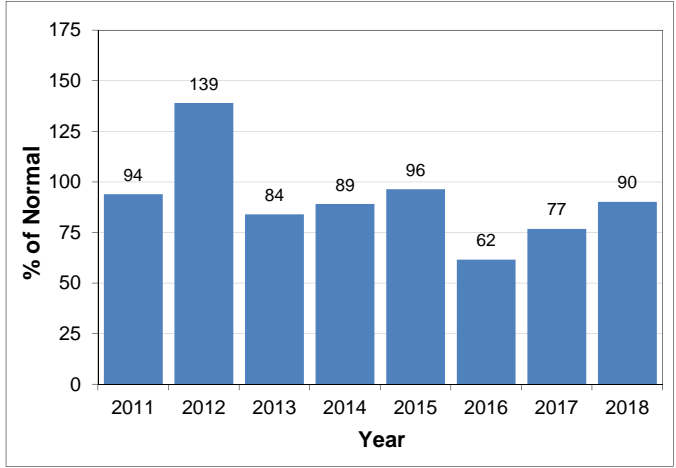


## Snow Basin Index Graphs - February 1, 2018

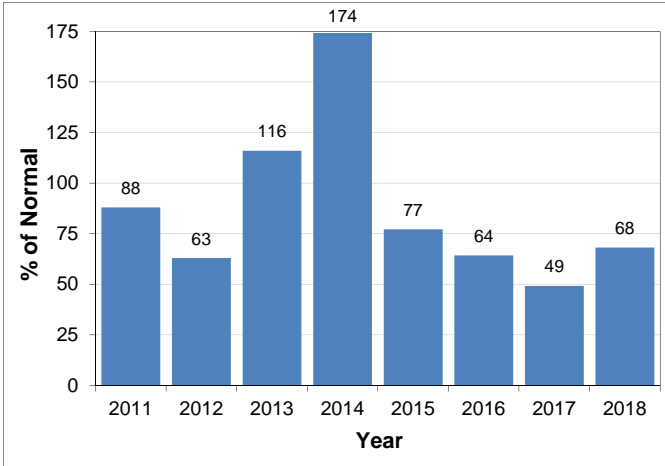
### Stikine



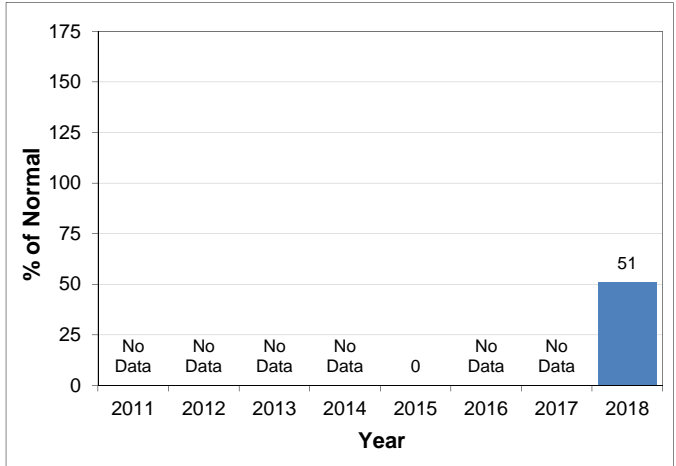
### Skeena-Nass



### 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 <sup>3</sup> )	Normal (1981-2010) (kdam <sup>3</sup> )	% of Normal	Std. Error (kdam <sup>3</sup> )	Forecast (kdam <sup>3</sup> )	Normal (1981-2010) (kdam <sup>3</sup> )	% of Normal	Std. Error (kdam <sup>3</sup> )	Forecast (kdam <sup>3</sup> )	Normal (1981-2010) (kdam <sup>3</sup> )	% of Normal	Std. Error (kdam <sup>3</sup> )
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 kdam<sup>3</sup>=1,000,000 m<sup>3</sup>

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