

Snow Survey and Water Supply Bulletin – May 15th, 2019

The May 15th snow survey is now complete. Data from 19 manual snow courses and 80 automated snow weather stations around the province (collected by the Ministry of Environment and Climate Change Strategy Snow Survey Program, BC Hydro and partners), and climate data from Environment and Climate Change Canada and the provincial Climate Related Monitoring Program have been used to form the basis of the following report¹.

Weather

Weather in the first half of May has generally been warm and dry across BC. Weather included a period in the second week of May with extremely warm, and in many areas record-breaking, temperatures. Overall, temperature anomalies over the first half of the month have generally been in the 2-5 °C above normal range across the province.

Precipitation has been limited across the province, with 30-day precipitation (mid-April to mid-May) generally being below 30-50% of normal for most areas.

Over the past week weather has transitioned to a more seasonal pattern, with cooler temperatures and increased precipitation.

Snowpack

Snow basin indices for May 15th have dropped significantly since May 1st in response to persistent hot weather and rapid snowmelt. Snow basin indices for May 15th, 2019 range from a low of 32% of normal on Vancouver Island to a high of 85% in the North Thompson (Table 1 and Figure 1) with the average of all snow measurements across the province calculated to be 64% of normal. A well-below normal snowpack (<65% of normal) is present in the Upper Fraser West, Nechako, Lower Fraser, East Kootenay, Okanagan, Boundary, Similkameen, South Coast, Vancouver Island, Central Coast and Skeena-Nass. The May 15th snow basin index for the entire Fraser River is 69% of normal.

By mid-May generally 15-25% of the accumulated snowpack has melted. Early melt this season has meant that most sites have melted between 50-60% of their snowpack as of current conditions. Most mid-elevation areas are now snow-free (approximately below 800-1000m in coastal BC, below 1600m in southern BC and below 1200-1300m in northern BC).

Snowmelt observations from automated snow weather stations over the past week (since May 15th) indicate further progression of the trend in early melt, with the average of all real-time stations moving to below 50% of average for May 21st.

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

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Table 1 - BC Snow Basin Indices – May 15, 2019

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	61	Boundary	58
Upper Fraser East	77	Similkameen	41
Nechako	52	South Coast	65
Middle Fraser	66	Vancouver Island	32
Lower Fraser	60	Central Coast	41
North Thompson	85	Skagit	NA
South Thompson	72	Peace	85
Upper Columbia	82	Skeena-Nass	56
West Kootenay	69	Stikine	NA
East Kootenay	54	Liard	NA
Okanagan	54	Northwest	NA
Nicola	NA	Fraser	69

Streamflow

With periods of warmer and wetter weather, streamflow is generally near-normal or above normal across most of the province.

In areas where snow has already melted, flows have begun to transition to below-normal. This includes areas in the South Interior, Interior Plateau and north-east BC.

In coastal areas which have less influence from snowmelt, including Vancouver Island and Haida Gwaii, on-going drier weather has resulted in continued well below normal streamflow. Current streamflow conditions in these regions are similar to flows experienced in 2015 and 2016, with many monitored streams flowing below 10th percentile levels for this time of year. While spring and summer rainfall is still an important factor for drought in these regions, the current low trend in flows is of concern given that climatologically summers are typically the dry season.

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Outlook

Seasonal forecasts from Environment and Climate Change Canada favor an increased likelihood of above normal late-spring to early-summer temperatures (May-June-July) across western British Columbia, and no strong indication of favoured temperature patterns for elsewhere in the province. Forecasts for summer (June-July-August) indicate an increased likelihood of warmer than normal temperatures across the province. The late-May to early-June monthly temperature forecast indicates an increased likelihood of above normal temperatures across western BC. In the short-term, BC is expected to see mixed weather patterns over the next week, with some off-shore ridging and near-seasonal temperatures and potential for occasional showers followed by the potential for a building ridge and period of increased temperatures.

Flood risk remains low this season due to low snowpacks. Through most small and mid-sized watersheds around southern BC, the peak of the melt season has passed. In larger watersheds, and in mountainous areas in northern BC, rivers are expected to be at or near their peak levels from snowmelt runoff. Warmer temperatures later this week may lead to increased flows, particularly in areas around the upper Fraser River, North Thompson, South Thompson, Kootenays, and Skeena regions (and tributaries). For higher elevation watersheds, including the South Thompson River, peak flow may not occur until early-June. Flood risk from extreme rainfall events remains a possibility throughout the BC Interior.

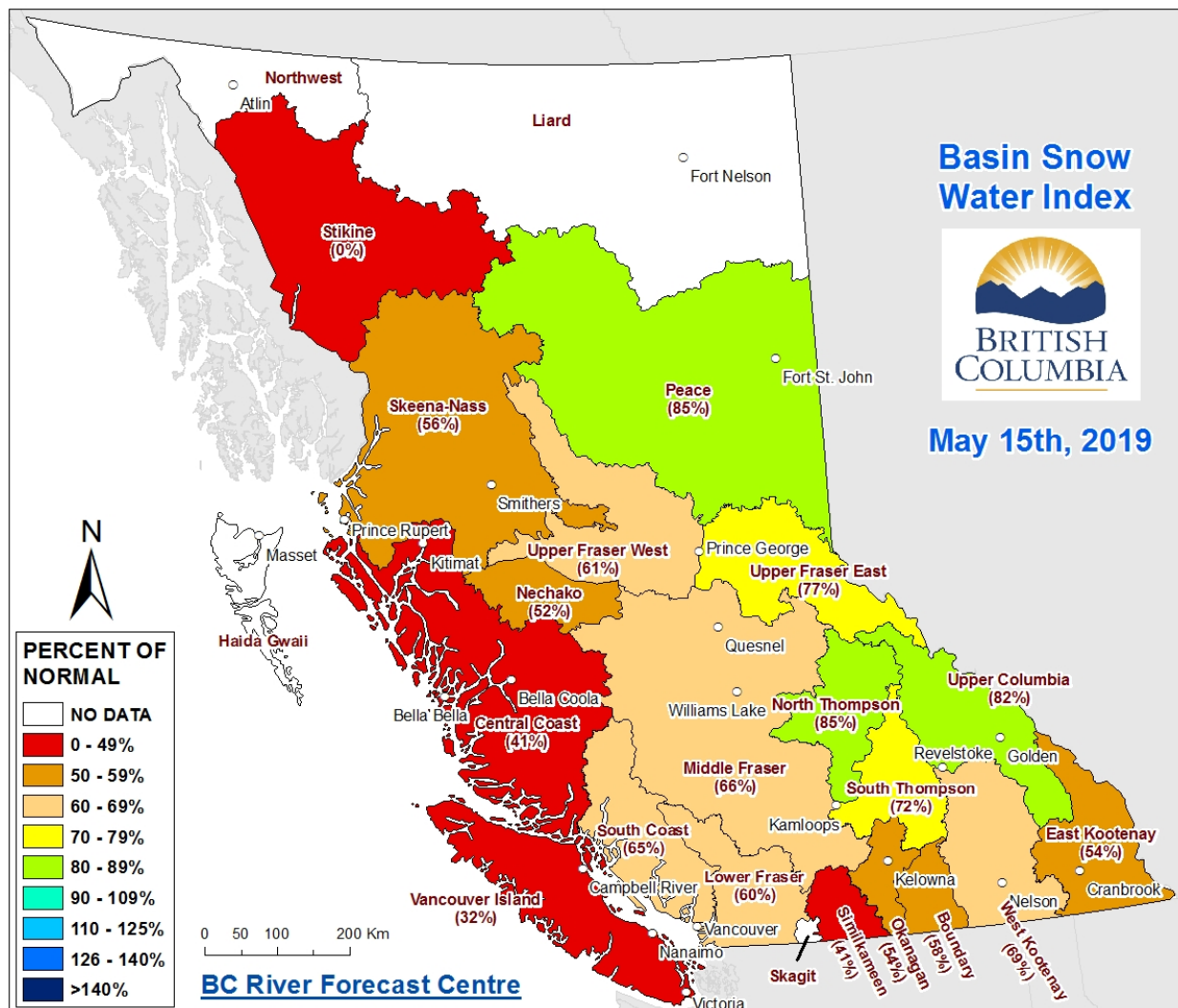
With diminished snowpacks and early melt this year, risks have shifted towards the increased likelihood of low flow conditions this summer in most areas of the province. Along with 2015 and 2016, this year is amongst the lowest May 15th snowpacks that have been observed in BC over the past 40 years. Spring and summer weather will continue to play a key role in whether or not low flows emerge through the summer.

The River Forecast Centre will continue to monitor snowpack conditions and will provide an updated seasonal flood risk forecast in the June 1st, 2019 bulletin, which is scheduled for release on June 7th.

BC River Forecast Centre
May 21, 2019

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Figure 1: Basin Snow Water Index – May 15th, 2019



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2019 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	2018 SWE (mm)	2017 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	Yellowhead Lake	Upper Fraser East	1847	2019-05-15	104				360	556	143	833	522	21
1A02P	McBride Upper	Upper Fraser East	1608	2019-05-15	89	363		90%	266	317	65	656	403	26
1A03P	Barkerville	Upper Fraser East	1483	2019-05-15	7	42		20%	13	220	0	503	213	43
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	NS					NS		292	1219	798	56
1A05P	Longworth Upper	Upper Fraser East	1740	2019-05-15	192	767			554	633	554	633		2
1A06A	HANSARD	Upper Fraser East	622	NS					NS				0	
1A10	PRINCE GEORGE A	Upper Fraser East	684	NS					NS		0	81	5	25
1A11	PACIFIC LAKE	Upper Fraser East	756	NS					NS		0	728	339	37
1A12	KAZA LAKE	Upper Fraser West	1247	NS					NS		132	212	212	3
1A12P	Kaza Lake	Upper Fraser West	1248	2019-05-15	36	130				174	174	174		1
1A14P	Hedrick Lake	Upper Fraser East	1118	2019-05-15	109	406		54%	533	320	214	1277	754	18
1A15	KNUDSEN LAKE	Upper Fraser East	1598	NS					NS		359	1271	836	36
1A15P	Knudsen Lake	Upper Fraser East	1601	2019-05-15	118	440			455	455	455	455		2
1A16	BURNS LAKE	Upper Fraser West	820	NS					NS		0	50	0	18
1A17P	Revolution Creek	Upper Fraser East	1676	2019-05-15	159	732		102%	658	604	228	1307	716	33
1A19P	Dome Mountain	Upper Fraser East	1768	2019-05-15	165	708		86%	623	643	298	1215	828	12
1A23	BIRD CREEK	Upper Fraser West	1196	NS					NS		0	0	0	2
1B01	MOUNT WELLS	Nechako	1489	NS					NS		164	869	280	8
1B01P	Mount Wells	Nechako	1489	2019-05-15		296		60%	536	661	171	946	491	26
1B02	TAHTSA LAKE	Nechako	1319	NS					NS		924	1687	924	7
1B02P	Tahtsa Lake	Nechako	1319	2019-05-15		710		55%	1003	1342	464	2340	1287	26
1B05	SKINS LAKE	Nechako	877	NS					NS		0	53	0	3
1B06	MOUNT SWANNELL	Nechako	1596	NS					NS		0	331	166	3
1B07	NUTLI LAKE	Nechako	1502	NS					NS		197	197	197	3
1B08P	Mount Pondosy	Nechako	1413	2019-05-15		234		37%	523	888	216	1198	628	26
1C01	BROOKMERE	Middle Fraser	994	NS					NS		0	208	22	29
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	NS					NS		184	965	455	21
1C05P	McGillivray Pass	Middle Fraser	1766	2019-05-15		276			286		286	286		1
1C06	PAVILION	Middle Fraser	1209	NS					NS		0	0	0	7
1C08	NAZKO	Middle Fraser	1029	NS					NS		31	31	0	1
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	NS					NS		0	30	3	26
1C12P	Green Mountain	Middle Fraser	1766	2019-05-15		421		52%	485	642	424	1369	803	24
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	NS					NS		655	655	0	2
1C14	BRALORNE	Middle Fraser	1382	NS					NS		0	80	11	21
1C14P	Bralorne	Middle Fraser	1382	2019-05-15	1	0			0		0	0		1
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2019-05-16	22	78		43%	273	211	0	466	181	51
1C18P	Mission Ridge	Middle Fraser	1903	2019-05-15		50		15%	318	539	0	972	336	48

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1C19	GNAWED MOUNTAIN	Middle Fraser	1617	NS					NS		0	157	23	24
1C20P	Boss Mountain Mine	Middle Fraser	1477	2019-05-15	50	284		62%	342	454	176	746	455	24
1C21	BIG CREEK	Middle Fraser	1130	NS					NS		42	42	0	1
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	NS					NS		0	22	0	3
1C23	PENFOLD CREEK	Middle Fraser	1687	NS					NS		525	1400	1022	45
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	NS					NS		0	119	22	6
1C28	DUFFEY LAKE	Middle Fraser	1253	NS					NS				0	
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	NS					NS				0	
1C29P	Shovelnose Moutain	Middle Fraser	1460	2019-05-15	21	14								
1C32	DEADMAN RIVER	Middle Fraser	1463	NS					NS				0	
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	NS					NS		116	116	0	1
1C37	BRALORNE(UPPER)	Middle Fraser	1980	NS					NS		290	290	0	1
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	NS					NS				0	
1C38P	Downton Lake Upper	Middle Fraser	1829	2019-05-15		636			519	811	700	700		3
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	NS					NS		300	300	0	1
1C40	TYAUGHTON	Middle Fraser	1946	NS					NS		198	198	0	1
1C40P	North Tyaughton	Middle Fraser	1969	2019-05-15		204			229	319	229	319		2
1C41P	Yanks Peak East	Middle Fraser	1683	2019-05-15	133	838		108%	785	772	365	1129	774	21
1C42	CAVERHILL LAKE	Middle Fraser	1400	NS					NS					
1D06P	Tenquille Lake	Lower Fraser	1669	2019-05-15	131	631		65%	907	1265	469	1693	973	17
1D08	STAVE LAKE	Lower Fraser	1211	NS					NS		584	2438	0	2
1D09	WAHLEACH LAKE	Lower Fraser	1395	NS					NS		102	656	428	12
1D09P	Wahleach Lake Upper	Lower Fraser	1408	2019-05-15		506		51%	957	662	290	1793	1001	26
1D10	NAHATLATCH RIVER	Lower Fraser	1530	NS					NS		634	2423	1467	6
1D16	DICKSON LAKE	Lower Fraser	1147	NS					NS		466	2070	2070	2
1D17P	Chilliwack River	Lower Fraser	1621	2019-05-15	171	1039		74%	1592	1636	405	2540	1398	26
1D18P	Disappointment Lake	Lower Fraser	1050	2019-05-15	106	428								
1D19P	Spuzzum Creek	Lower Fraser	1197	2019-05-15	126	750		49%	1359	1724	0	2900	1533	19
1E01B	BLUE RIVER	North Thompson	673	NS					NS		0	213	0	11
1E02P	Mount Cook	North Thompson	1574	2019-05-15	204	1205		90%	1317	1243	684	1793	1334	18
1E03A	TROPHY MOUNTAIN	North Thompson	1907	2019-05-13	122	496		80%	590	730	301	1114	618	35
1E05	KNOUFF LAKE	North Thompson	1189	NS					NS				0	1
1E07	ADAMS RIVER	North Thompson	1769	2019-05-14	127	602		87%	705	950	280	1158	690	46
1E08P	Azure River	North Thompson	1625	2019-05-15	157	882		77%	918	1327	528	1684	1152	21
1E10P	Kostal Lake	North Thompson	1760	2019-05-15	112	766		88%	846	963	417	1358	870	33
1E14P	Cook Creek	North Thompson	1280	2019-05-15	1	21			203	65	0	203		3
1F01A	ABERDEEN LAKE	South Thompson	1262	NS					NS		0	85	14	14

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1F02	ANGLEMONT	South Thompson	1168	NS					NS	0	0	361	99	21
1F03P	Park Mountain	South Thompson	1857	2019-05-15	101	604		65%	1102	1104	315	1358	929	33
1F04P	Enderby	South Thompson	1950	2019-05-15	191	704			1197	1216	1197	1216		2
1F06P	Celista Mountain	South Thompson	1533	2019-05-15	124	728		87%	885	1088	420	1163	841	13
2A01A	CANOE RIVER	Upper Columbia	866	NS					NS		0	0	0	6
2A02	GLACIER	Upper Columbia	1249	NS					NS		114	1034	498	48
2A03A	FIELD	Upper Columbia	1310	NS					NS		0	0	0	4
2A06P	Mount Revelstoke	Upper Columbia	1770	2019-05-15		959		78%	1207	1322	595	1777	1235	25
2A07	KICKING HORSE	Upper Columbia	1648	NS					NS		0	521	229	51
2A11	BEAVERFOOT	Upper Columbia	1924	NS					NS		0	399	0	5
2A14	MOUNT ABBOT	Upper Columbia	2031	NS					NS		600	1944	1319	38
2A16	GOLDSTREAM	Upper Columbia	1914	NS					NS		584	1055	1055	2
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	NS					NS		590	1950	1271	34
2A18	KEYSTONE CREEK	Upper Columbia	1839	NS					NS		414	683	683	2
2A18P	Keystone Creek	Upper Columbia	1850	2019-05-15		721			850	1205	552	1205		3
2A19	VERMONT CREEK	Upper Columbia	1533	NS					NS		225	813	225	3
2A21P	Molson Creek	Upper Columbia	1930	2019-05-15		935		86%	1042	1042	481	1707	1085	37
2A22	SUNBEAM LAKE	Upper Columbia	2066	NS					NS		469	863	863	2
2A23	BUSH RIVER	Upper Columbia	1982	NS					NS		483	766	766	2
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	NS					NS		671	1257	1194	3
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	NS					NS		0	522	297	11
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	NS					NS		335	1425	1284	10
2A30P	Colpitti Creek	Upper Columbia	2131	2019-05-15		637			873	1023	467	1023		3
2A31P	Caribou Creek Upper	Upper Columbia	2201	2019-05-15		757			1033	1087	656	1087		3
2A32P	Wildcat Creek	Upper Columbia	2122	2019-05-15		635			603	700	346	700		3
2B02A	FARRON	Lower Columbia	1229	2019-05-14	2	7		11%	154	157	0	222	63	38
2B05	WHATSHAN (UPPER)	Lower Columbia	1476	NS					NS		164	737	164	4
2B06P	Barnes Creek	Lower Columbia	1595	2019-05-15		31		7%	537	509	98	758	438	25
2B07	KOCH CREEK	Lower Columbia	1813	NS					NS		415	1148	675	3
2B08P	St. Leon Creek	Lower Columbia	1822	2019-05-15		837		83%	1297	1361	536	1568	1004	25
2B09	RECORD MOUNTAIN	Lower Columbia	1906	2019-05-19	24	76		12%	660	935	83	1367	645	43
2C01	SINCLAIR PASS	East Kootenay	1374	NS					NS		0	107	0	33
2C04	SULLIVAN MINE	East Kootenay	1580	2019-05-15	0	0	T	0%	220	154	0	457	80	69
2C07	FERNIE EAST	East Kootenay	1213	NS					0		0	298	34	63
2C09Q	Morrissey Ridge	East Kootenay	1966	2019-05-15					387	662	0	1102	484	38
2C10P	Moyie Mountain	East Kootenay	1840	2019-05-15	1	0		0%	158	387	0	678	225	39
2C14P	Floe Lake	East Kootenay	2110	2019-05-15		568		76%	811	960	304	1101	752	25

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2C15	MOUNT ASSINIBOINE	East Kootenay	2230	NS					NS		270	534	534	2
2C16	MOUNT JOFFRE	East Kootenay	1763	NS					NS		206	338	338	2
2C17	THUNDER CREEK	East Kootenay	2062	NS					NS		190	220	220	2
2D02	FERGUSON	West Kootenay	929	NS					NS		20	640	302	39
2D03	SANDON	West Kootenay	1072	NS					NS		0	218	0	11
2D04	NELSON	West Kootenay	952	NS					NS		0	243	46	42
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	NS					NS		0	709	330	55
2D06	CHAR CREEK	West Kootenay	1290	NS					N	416	221	221	272	49
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS					NS				0	1
2D08P	East Creek	West Kootenay	2004	2019-05-15		914		105%	923	1100	461	1387	874	37
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	NS					NS		520	978	978	2
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	NS					NS		311	1194	709	35
2D14P	Redfish Creek	West Kootenay	2086	2019-05-15	172	1117		85%	1510	2205	751	1771	1309	16
2E01	MONASHEE PASS	Kettle	1387	NS					NS		0	363	206	29
2E02	CARMI	Kettle	1254	NS					NS		0	0	0	15
2E03	BIG WHITE MOUNTAIN	Kettle	1672	2019-05-14	39	166		45%	444	474	0	732	366	51
2E07P	Grano Creek	Kettle	1874	2019-05-15	70	345		66%	581	756	285	881	520	20
2F01A	TROUT CREEK (West)	Okanagan	1430	2019-05-15	0	0		0%	30	61	0	243	58	8
2F01P	Trout Creek West	Okanagan	1420	2019-05-15	1	0			0		0	0		1
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	NS					0	0	0	218	13	51
2F03	MC CULLOCH	Okanagan	1266	NS					NS		0	102	0	40
2F04	GRAYSTOKE LAKE	Okanagan	1818	NS					432		0	742	360	19
2F05P	Mission Creek	Okanagan	1794	2019-05-15	81	298		77%	629	548	0	829	386	48
2F07	POSTILL LAKE	Okanagan	1358	NS					NS		71	180	143	8
2F08P	Greyback Reservoir	Okanagan	1550	2019-05-15	0	1			102	142	102	142		2
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2019-05-12	58	261		73%	415	502	0	968	357	47
2F10P	Silver Star Mountain	Okanagan	1839	2019-05-15	122	550	E		256	790	256	645		3
2F11	ISINTOK LAKE	Okanagan	1651	2019-05-15	0	0		0%	0	47	0	386	46	52
2F12	MOUNT KOBAN	Okanagan	1817	2019-05-14	5	12		5%	490	393	0	516	253	52
2F13	ESPERON CR (UPPER)	Okanagan	1634	NS					284		66	625	306	15
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	NS					172		0	380	164	16
2F18P	Brenda Mine	Okanagan	1453	2019-05-15		0		0%	0	90	0	217	20	25
2F19	OOYAMA LAKE	Okanagan	1365	NS					NS		97	97	0	3
2F20	VASEUX CREEK	Okanagan	1403	2019-05-14	0	0		0%	0		0	80	7	45
2F21	BOULEAU LAKE	Okanagan	1405	NS					NS		173	328	328	5
2F23	MACDONALD LAKE	Okanagan	1742	NS					37		0	652	334	22
2F24	ISLAHT LAKE	Okanagan	1492	2019-05-14	0	0		0%	NS		0	352	221	8

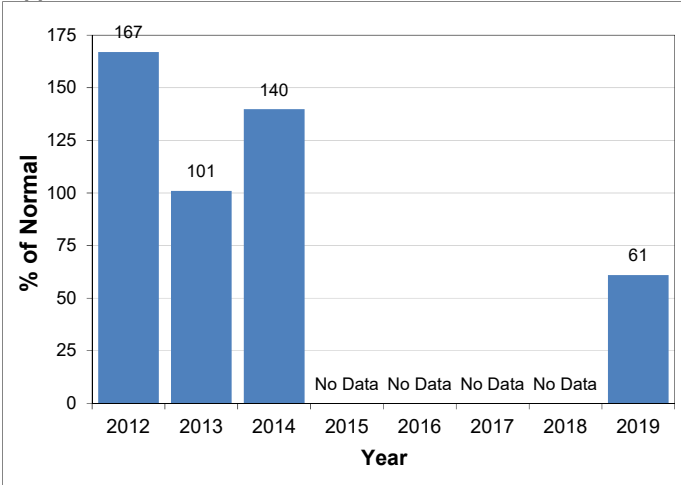
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2F25	POSTILL LAKE UPPER	Okanagan	1500	NS					NS					0
2G03P	Blackwall Peak	Similkameen	1934	2019-05-15	69	331		49%	777	703	208	1481	671	50
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	2019-05-15			N		N	193	0	577	169	55
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2019-05-15	0	0		0%	0	100	0	218	32	58
2G06	HAMILTON HILL	Similkameen	1477	2019-05-15	0	0		0%	120	125	0	434	110	39
3A01	GROUSE MOUNTAIN	South Coast	1126	NS					NS		528	1714	0	6
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS					NS		816	816	816	2
3A05	POWELL RIVER (LOWER)	South Coast	882	NS					NS		378	378	378	2
3A09	PALISADE LAKE	South Coast	898	NS					NS		336	3600	1968	5
3A09P	Palisade Lake	South Coast	900	2019-05-15	0	0								
3A10	DOG MOUNTAIN	South Coast	1007	2019-05-13	97	471		45%	1220	1700	0	2920	1041	32
3A19	ORCHID LAKE	South Coast	1178	2019-05-13	204	1030		60%	1780	2330	0	3730	1729	38
3A20	CALLAGHAN CREEK	South Coast	1009	NS					NS		55	1311	444	17
3A22P	Nostetuko River	South Coast	1457	2019-05-15	44	256		72%	375	363	0	939	355	29
3A24P	Mosley Creek Upper	South Coast	1655	2019-05-15	24	2		1%	113	195	0	467	149	29
3A25P	Squamish River Upper	South Coast	1387	2019-05-15	214	1312		88%	1566	1505	474	2980	1486	28
3A26	CHAPMAN CREEK	South Coast	1022	NS					NS	1450				
3A27	EDWARDS LAKE	South Coast	1070	NS					NS					
3A28P	Tetrahedron	South Coast	1420	2019-05-15	255	934								
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	NS					NS		345	2631	1576	34
3B02A	MOUNT COKELY	Vancouver Island	1267	NS					NS				0	1
3B04	ELK RIVER	Vancouver Island	270	NS					NS		40	40	0	1
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	NS					NS		1364	2697	1731	10
3B17P	Wolf River Upper	Vancouver Island	1422	2019-05-15		723		59%	942	1241	137	2719	1229	36
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	NS					NS		0	1148	481	16
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	NS					NS		0	549	78	16
3B23P	Jump Creek	Vancouver Island	1134	2019-05-15	7	29		3%	893	1185	0	3500	1097	22
3B24P	Heather Mountain Upper	Vancouver Island	1190	2019-05-15	73	476			1590	1859	933	1859		3
3B26P	Mount Arrowsmith	Vancouver Island	1465	2019-05-15	79	449			1012		1012	1012		1
3C07	WEDEENE RIVER SOUTH	Central Coast	196	NS					NS		232	232	232	2
3C08P	Burnt Bridge Creek	Central Coast	1329	2019-05-15	47	261		41%	590	579	184	1438	634	20
3D01C	SUMALLO RIVER WEST	Skagit	801	NS					NS		82	82	0	1
3D02	LIGHTNING LAKE	Skagit	1254	NS					NS		544	544	0	2
3D03A	KLESILKWA	Skagit	1134	NS					NS		0	490	11	5
4A02P	Pine Pass	Peace	1386	2019-05-15	188	945		95%	814	1036	363	1654	999	29
4A03	WARE (UPPER)	Peace	1563	NS					NS		90	114	114	2
4A03P	Ware Upper	Peace	1565	2019-05-15	35	146			0	215	0	215		2

2019 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	2018 SWE (mm)	2017 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4A04	WARE (LOWER)	Peace	969	NS					NS		0	89	0	2
4A04P	Ware Lower	Peace	971	2019-05-15	0	0			0	0	0	0		2
4A05	GERMANSEN (UPPER)	Peace	1489	NS					NS		156	414	272	7
4A06	TUTIZZI LAKE	Peace	1043	NS					NS		0	106	0	2
4A07	LADY LAURIER LAKE	Peace	1460	NS					NS		194	420	420	2
4A09	PULPIT LAKE	Peace	1331	NS					NS		152	293	262	3
4A09P	Pulpit Lake	Peace	1331	2019-05-15	36	180		67%	25	146	14	562	267	28
4A10	FREDRICKSON LAKE	Peace	1323	NS					NS		74	93	74	2
4A11	TRYGVE LAKE	Peace	1409	NS					NS		119	269	269	2
4A12	TSAYDAYCHI LAKE	Peace	1173	NS					NS		166	302	302	2
4A13	PHILIP LAKE	Peace	1013	NS					NS		128	137	128	2
4A16	MORFEE MOUNTAIN	Peace	1427	NS					NS		265	1072	535	17
4A18	MOUNT SHEBA	Peace	1480	NS					NS		340	1179	794	13
4A20	MONKMAN CREEK	Peace	1566	NS					NS		0	912	478	13
4A20P	Monkman Creek	Peace	1570	2019-05-15		438								
4A21	MOUNT STEARNS	Peace	1514	NS					NS		41	45	45	2
4A25	FORT ST. JOHN A	Peace	692	NS					NS		0	34	0	5
4A27P	Kwadacha North	Peace	1554	2019-05-15	65	251			90	269	90	269		2
4A30P	Aiken Lake	Peace	1061	2019-05-15	0	0		0%	0	4	0	206	55	33
4A31P	Crying Girl Prairie	Peace	1358	2019-05-15		10			0	230	0	230		2
4A33P	Muskwa-Kechika	Peace	1196	2019-05-15		0			0	0	0	0		2
4A34P	Dowling Creek	Peace	1456	2019-05-15		1457			628	444	444	628		2
4B01	KIDPRICE LAKE	Skeena-Nass	1415	NS					NS		534	1278	534	6
4B02	JOHANSON LAKE	Skeena-Nass	1480	NS					NS		108	178	178	3
4B03A	HUDSON BAY MTN.	Skeena-Nass	1452	2019-05-16	62	279		66%	398		160	822	424	45
4B04	CHAPMAN LAKE	Skeena-Nass	1485	NS					401		238	689	461	10
4B06	TACHEK CREEK	Skeena-Nass	1133	NS					NS		18	152	0	5
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	NS					251		0	320	127	23
4B08	MOUNT CRONIN	Skeena-Nass	1491	NS					592		481	927	660	16
4B10	NINGUNSAW PASS	Nass	647	NS					NS		0	208	27	16
4B11A	BEAR PASS	Nass	437	NS					NS		80	488	290	9
4B12P	Granduc Mine	Skeena-Nass	790	2019-05-15						627	627	627		1
4B13A	TERRACE A	Skeena-Nass	219	NS					NS		0	68	0	2
4B14	EQUITY MINE	Skeena-Nass	1434	NS					NS		0	396	274	15
4B15	LU LAKE	Skeena-Nass	1296	NS					NS		0	330	191	17
4B15P	Lu Lake	Skeena-Nass	1308	2019-05-15	0	21		15%	122	254	0	489	144	20
4B16P	Shedin Creek	Skeena-Nass	1320	2019-05-15	98	557		59%	463	554	195	1280	940	22

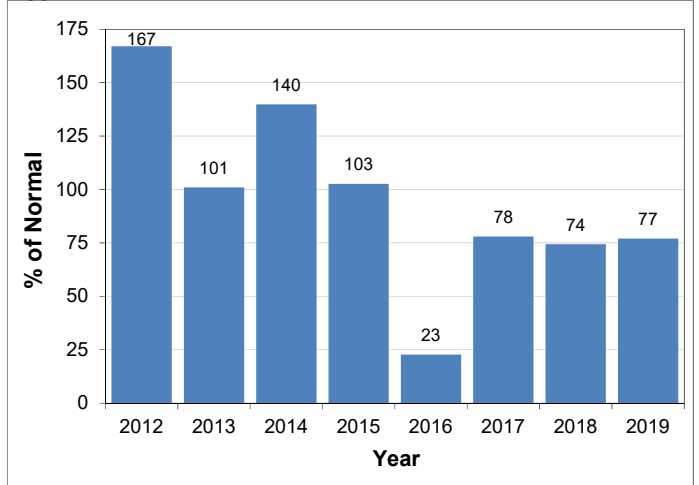
2019 Automated Snow Weather Station/Manual Snow Survey Data				May 15					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2018 SWE (mm)	2017 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4B17P	Tsai Creek	Skeena-Nass	1360	2019-05-15		948		74%	662	1069	302	2135	1275	20
4B18P	Cedar-Kiteen	Skeena-Nass	912	2019-05-15	5	5		1%	0	137	12	968	422	17
4C01	SIKANNI LAKE	Liard	1390	NS					NS		78	130	130	2
4C01P	Sikanni Lake	Liard	1400	2019-05-15	70	181			6	38	6	38		2
4C02	SUMMIT LAKE	Liard	1291	NS					NS		0	160	42	8
4C03	DEASE LAKE	Liard	805	NS					NS		0	0	0	7
4C05	FORT NELSON AIRPORT	Liard	368	NS					NS		0	38	1	14
4C15	JADE CITY	Liard	943	NS					NS		162	162	162	2
4D01	TELEGRAPH CREEK	Stikine	490	NS					NS		0	0	0	2
4D02	ISKUT	Stikine	931	NS					NS		0	0	0	16
4D11P	Kinaskan Lake	Stikine	1020	2019-05-15	0	0		0%	0	164	94	119	210	22
4E02B	ATLIN LAKE	Yukon	730	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, 2019

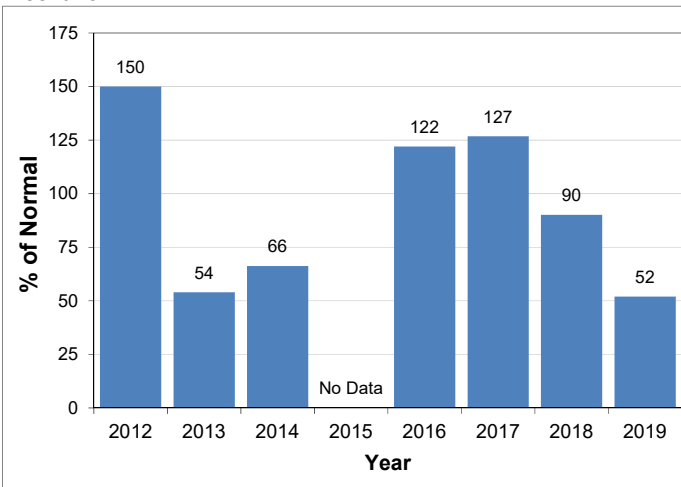
Upper Fraser West



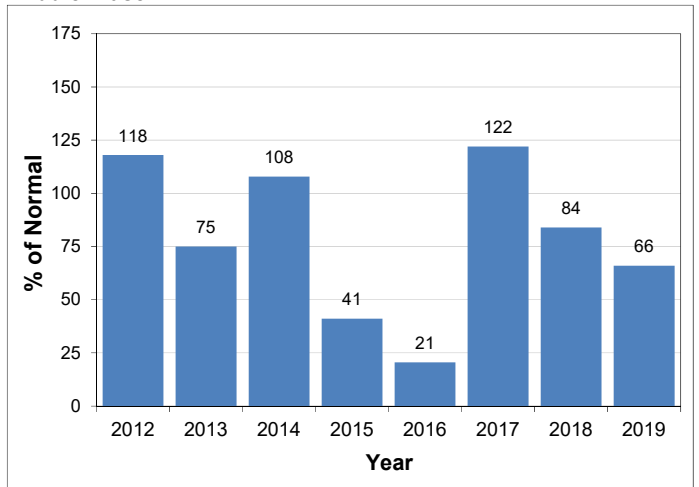
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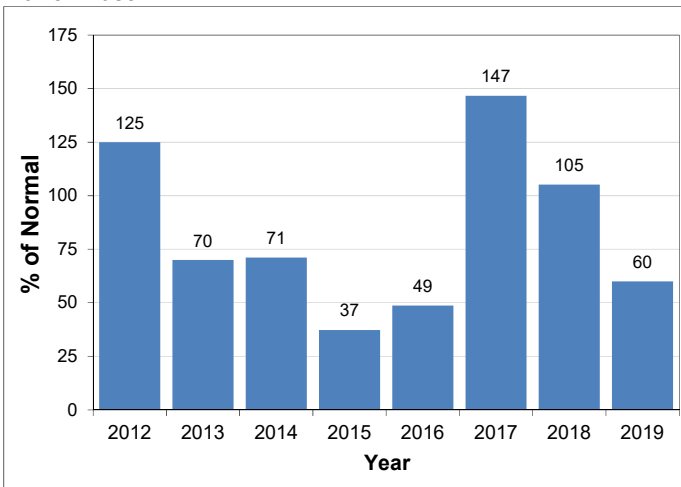
Nechako



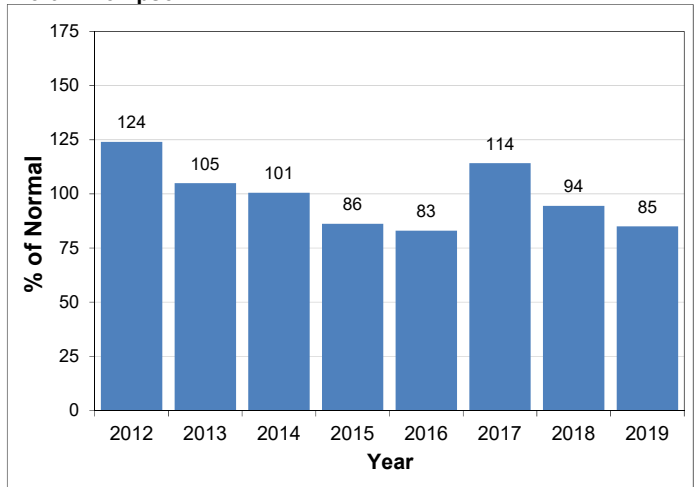
Middle Fraser



Lower Fraser

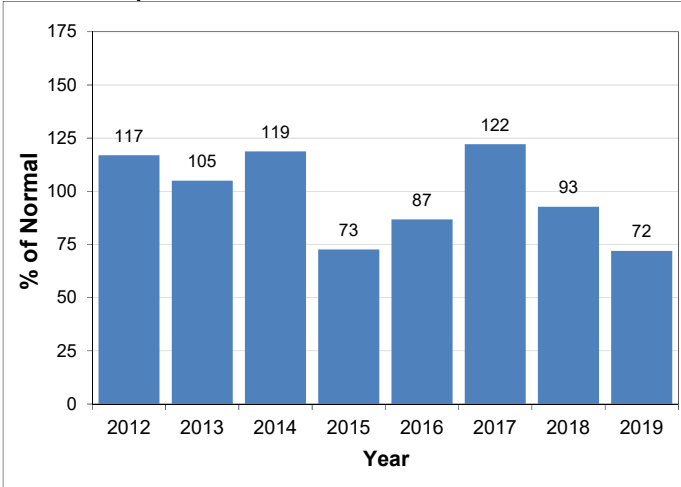


North Thompson

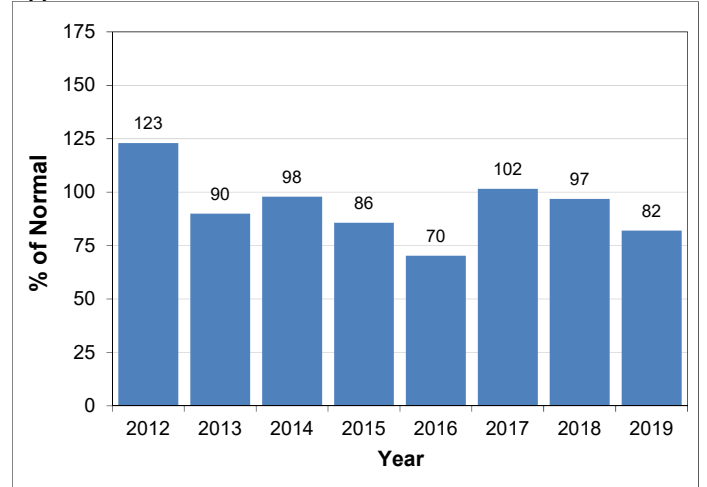


Snow Basin Index Graphs - May 15, 2019

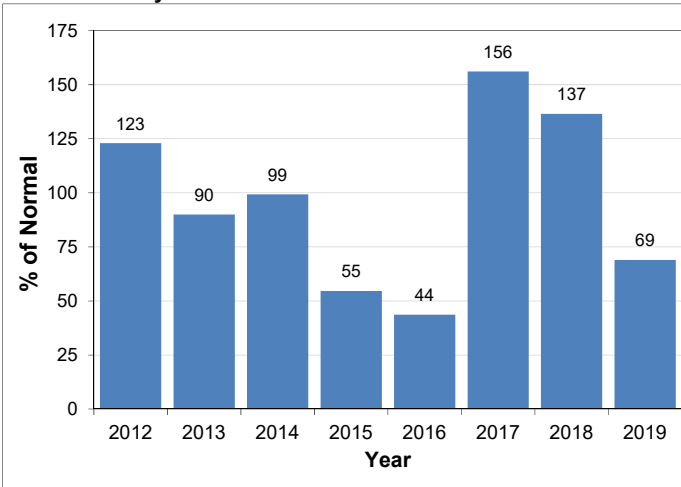
South Thompson



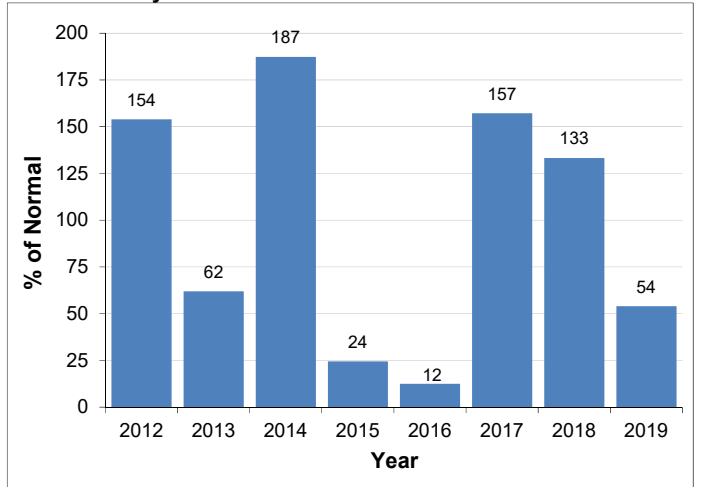
Upper Columbia



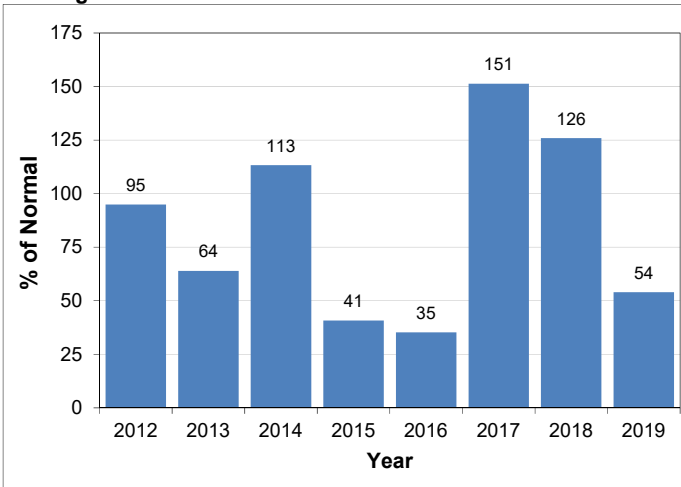
West Kootenay



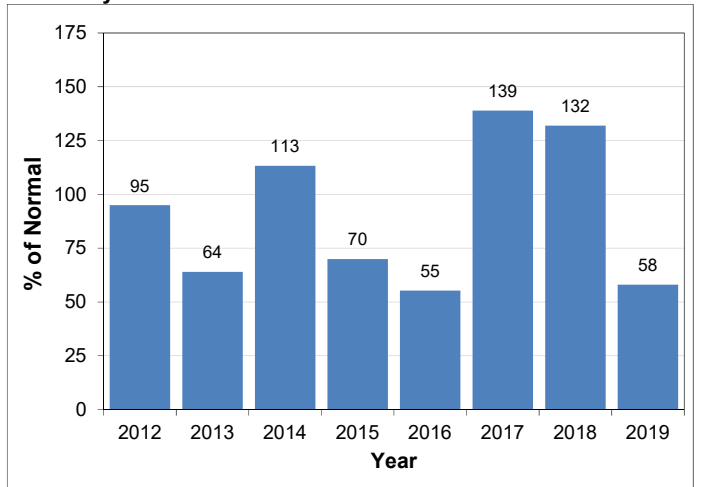
East Kootenay



Okanagan

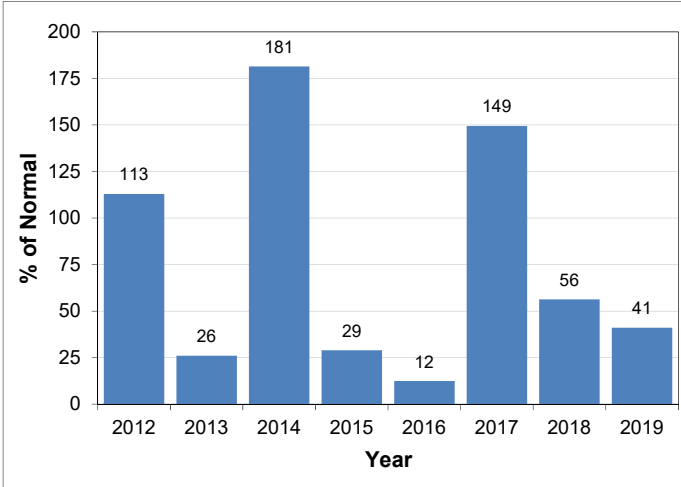


Boundary

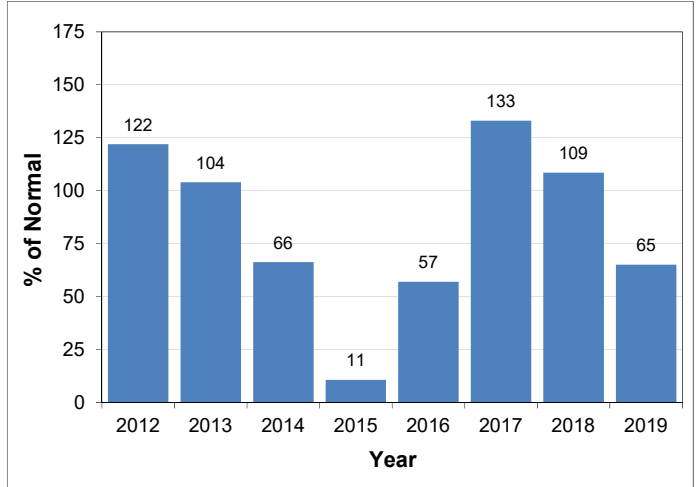


Snow Basin Index Graphs - May 15, 2019

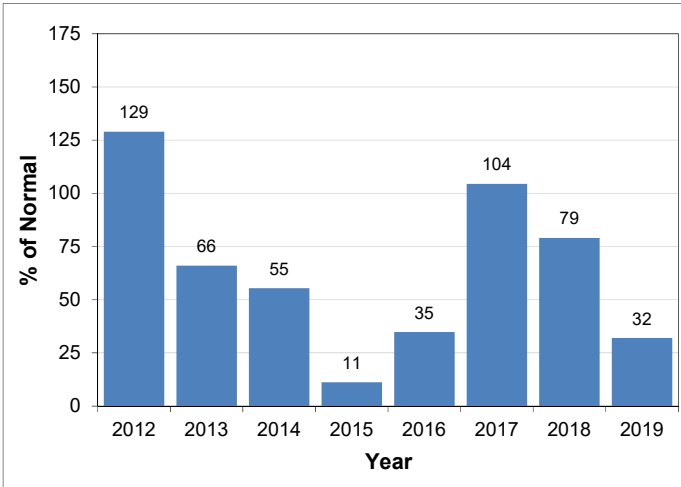
Similkameen



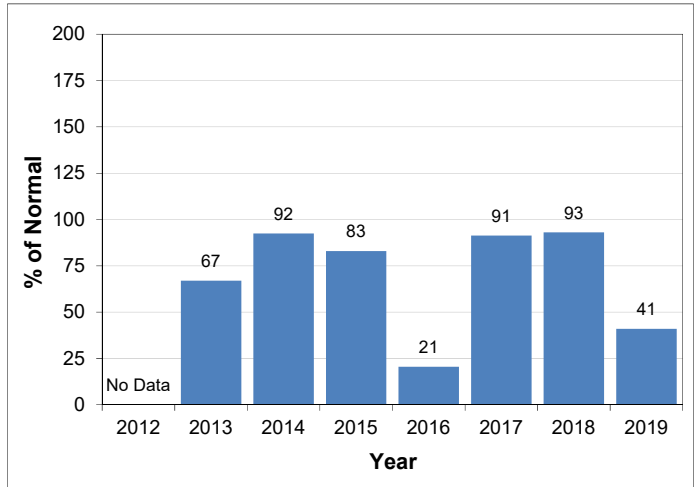
South Coast



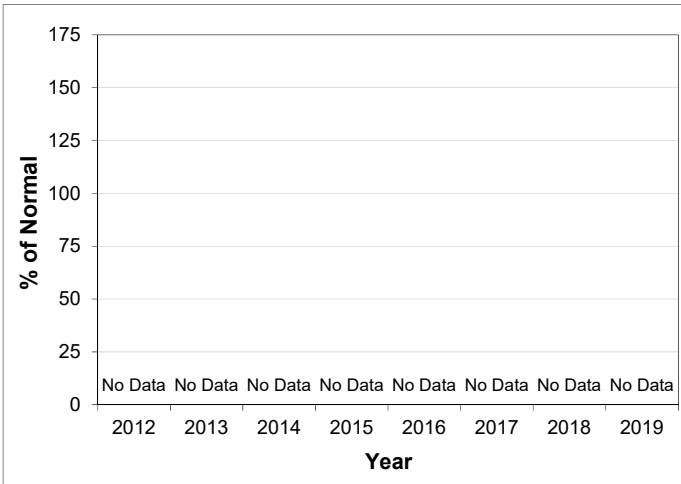
Vancouver Island



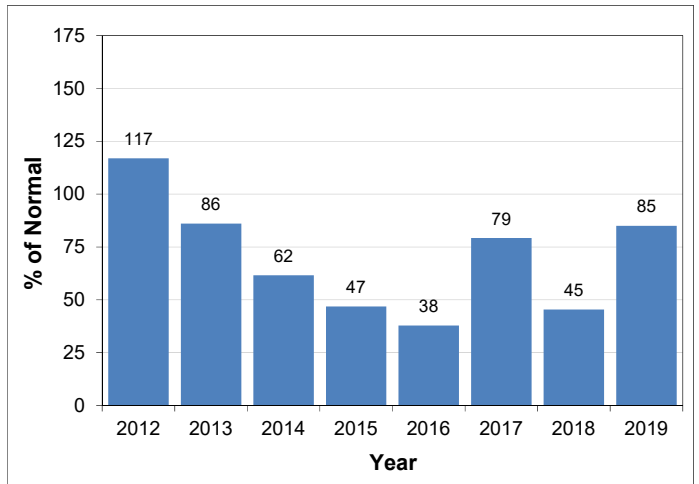
Central Coast



Northwest

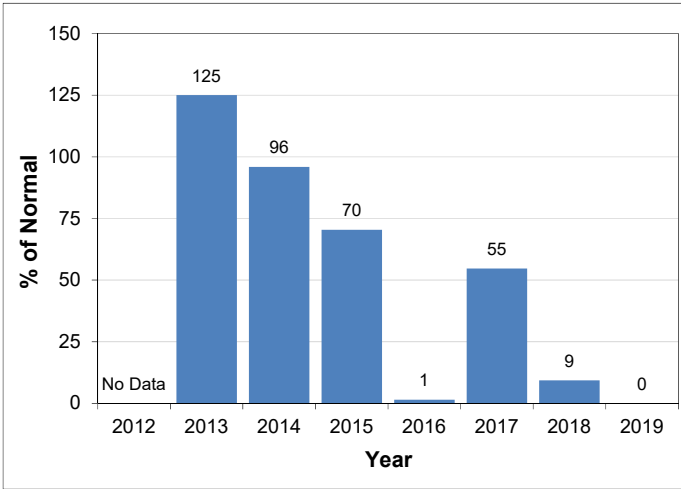


Peace



Snow Basin Index Graphs - May 15, 2019

Stikine



Skeena-Nass

