

Snow Survey and Water Supply Bulletin – April 1st, 2017

The April 1st snow survey is now complete. Data from 143 snow courses and 68 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

March weather was dominated by prolonged periods of cool and moist unstable conditions particularly in southern British Columbia. These conditions were interspersed with periods of strong influence from cold arctic air, particularly over northern BC, and a number of Pacific frontal systems which delivered warmer and wetter weather over southern BC.

For the month of March, temperatures were 0.5 to 2 °C below normal through most of BC, and up to 4 °C below normal in northern British Columbia. Temperature anomalies were more pronounced for daily maximum temperatures than daily minimum temperatures. March was extremely wet for most areas of southern BC, with many areas in the south-west recording 150-200% of normal March precipitation, and areas in the south-east receiving 200-300% of normal precipitation. In the northern half of the province, March precipitation tended to be closer to normal, or slightly below-normal.

Snowpack

Cool and wet weather through March has led to a significant increase in snowpack conditions across the province, with the biggest increases being observed in south and south-east BC. Provincially, snow basin indices trended closer to normal, with the provincial average for all April 1st snow measurements at 98% of normal. This has increased from the average of 85% for March 1st.

Snow basin indices for April 1st 2017 range from a low of 62% of normal in the Liard to a high of 123% of normal in the Lower Fraser (Table 1 and Figure 1). Below-normal snowpack (65-80%) is present in the Upper Fraser and Peace, and well below-normal (<65%) in the Stikine and Liard. Slightly elevated snowpacks (110-120%) are present in the West Kootenay, East Kootenay, Skagit and South Coast, and elevated (>120%) in the Lower Fraser. Other areas of the province have near-normal April 1st snow basin indices. The April 1st basin index for the entire Fraser Basin is 100% 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, 2017

Table 1 - BC Snow Basin Indices – April 1, 2017

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	71	Boundary	86
Upper Fraser East	75	Similkameen	95
Nechako	106	South Coast	115
Middle Fraser	97	Vancouver Island	102
Lower Fraser	123	Central Coast	96
North Thompson	103	Skagit	111
South Thompson	106	Peace	76
Upper Columbia	100	Skeena-Nass	85
West Kootenay	119	Stikine	64
East Kootenay	116	Liard	62
Okanagan	105	Northwest	80

Streamflow

With extremely wet weather through March, many rivers of the province are flowing well above normal for early April. Snowmelt at lower elevations has led to increased runoff in smaller stream systems and the start of freshet flows in some large river systems.

Outlook

Neutral El Niño (ENSO) conditions are now present in the Pacific Ocean, and the Climate Prediction Centre (CPC) at the U.S. National Weather Service/NOAA is forecasting that neutral conditions are favoured to persist through the spring of 2017, with increasing chances for El Niño development into the fall period. Negative sea surface temperature anomalies are present in the North Pacific Ocean west of British Columbia. Seasonal forecasts from Environment and Climate Change Canada indicate an increased likelihood of above-normal temperatures over the April-June period, particularly for northern BC.

Seasonal volume runoff forecasts (see below) are near normal for most basins across the province. Higher than normal seasonal runoff is expected in the Nicola and Okanagan basins.

By early April, 96% of the annual BC snowpack has typically accumulated, with maximum accumulation generally occurring in the middle of the month. Significant snow accumulation over the past month has led to an increase in seasonal flood risk across most of the province. Most areas of the province are entering into the spring freshet with normal levels of seasonal flood risk. This includes the Nechako, Middle Fraser, South Thompson, North Thompson, Upper Columbia, Okanagan and Similkameen. The West Kootenay and East Kootenay have moderately high snow packs, and subsequent moderately increased seasonal flood risk. In the Lower Fraser, tributary watersheds typically experience flooding due to fall-winter storms; however they can experience high freshet flows that can cause flood issues. Due to high snowpacks in the Lower Fraser (>120%), areas such as the Lillooet

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, 2017

River and tributaries have an increased likelihood of higher than normal freshet flows this season.

Normal seasonal flood risk is present for the Fraser River through the Fraser Valley and Lower Mainland. The expected peak flow for the Fraser River at Hope is 8000-9000 m³/s, or mean annual flood level; higher or lower flows are possible depending on weather conditions.

While snowpack is an important factor in seasonal flooding, weather during the melt season, particularly extreme rainfall events can also create flood risk even in years with low or average snowpack.

Well-below normal snowpack in the Stikine and Liard, and below normal snowpack in the Upper Fraser indicate the potential for increased risk of low flows this summer. Summer weather is also an important factor in summer low flows, particularly on Vancouver Island and northeast BC, and wet or dry weather through the summer period can affect the risk of low streamflow regardless of snowpack.

With two to four weeks remaining in the snow accumulation season, changes to the seasonal runoff outlook are possible, but at this stage would require extremely wet or cool conditions to make a significant impact on seasonal flood risk by either accumulating more snow, or delaying the melt season.

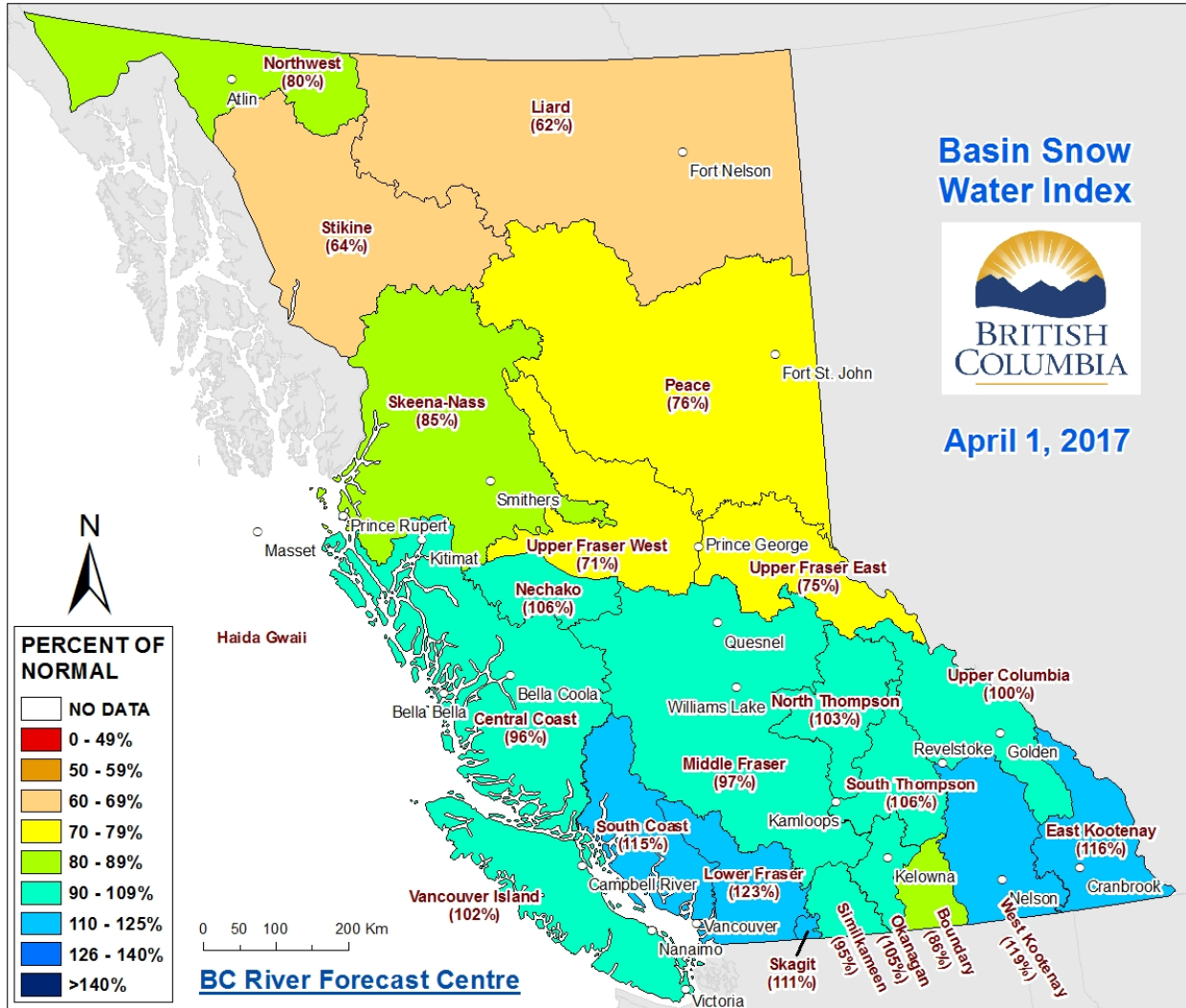
The River Forecast Centre will continue to monitor snowpack conditions and will provide an updated seasonal flood risk forecast in the May 1st 2017 bulletin, which is scheduled for release on May 8th.

BC River Forecast Centre
April 6, 2017



Snow Survey and Water Supply Bulletin – April 1st, 2017

Figure 1: Basin Snow Water Index – April 1st, 2017



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.

2017 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	2016 SWE (mm)	2015 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	Yellowhead Lake	Upper Fraser East	1847	2017-04-01	151	458		85%	485	510	254	784	541	20
1A02P	McBride Upper	Upper Fraser East	1608	2017-04-01	147	391		88%	393	485	198	693	442	25
1A03P	Barkerville	Upper Fraser East	1483	2017-04-01	111	296		81%	251	274	123	524	364	42
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693		N	N	N		632		296	1234	768	63
1A05P	Longworth Upper	Upper Fraser East	1740	2017-04-01	7	523								0
1A06A	HANSARD	Upper Fraser East	622		NS	NS	NS				72	442	176	20
1A10	PRINCE GEORGE A	Upper Fraser East	684	2017-04-03	0	0		0%	0	0	0	313	98	55
1A11	PACIFIC LAKE	Upper Fraser East	756	2017-04-01	118	423		70%	297	391	165	1060	608	54
1A12	KAZA LAKE	Upper Fraser West	1247	2017-03-30	98	251		74%	270	345	132	476	341	54
1A12P	Kaza Lake	Upper Fraser West	1248	2017-04-01	117	269			290		290	290		1
1A14P	Hedrick Lake	Upper Fraser East	1118	2017-04-01	185	482		60%	407	538	214	1288	801	17
1A15	KNUDSEN LAKE	Upper Fraser East	1598	2017-04-01	197	605		76%		817	506	1346	801	50
1A15P	Knudsen Lake	Upper Fraser East	1601	2017-04-01	199	499								0
1A16	BURNS LAKE	Upper Fraser West	820	2017-04-03	19	60		50%	26	128	0	264	119	47
1A17P	Revolution Creek	Upper Fraser East	1676	2017-04-01	220	562		72%	699	763	326	1292	783	32
1A19P	Dome Mountain	Upper Fraser East	1768	2017-04-01	525	577		79%	591	761	298	1069	732	11
1A23	BIRD CREEK	Upper Fraser West	1196	2017-03-31	44	104		74%	146	210	84	270	140	27
1B01	MOUNT WELLS	Nechako	1489	2017-03-31	157	525		107%	381	602	273	690	490	62
1B01P	Mount Wells	Nechako	1489	2017-04-01		563		101%	427	722	227	869	557	25
1B02	TAHTSA LAKE	Nechako	1319	2017-03-30	344	1239		103%	1026	1175	775	1972	1202	64
1B02P	Tahtsa Lake	Nechako	1319	2017-04-01		1335		104%	1166	1202	464	2227	1278	25
1B05	SKINS LAKE	Nechako	877	2017-03-31	15	68		76%	42	107	0	203	90	53
1B06	MOUNT SWANNELL	Nechako	1596	2017-03-31	100	261		93%	249	378	148	490	282	28
1B07	NUTLI LAKE	Nechako	1502	2017-03-31	166	556		107%	414	523	301	834	518	26
1B08P	Mount Pondosy	Nechako	1413	2017-04-01		886		112%	732	968	363	1152	790	25
1C01	BROOKMERE	Middle Fraser	994	2017-03-30	64	182		106%	138	45	45	399	171	72
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	2017-03-30	176	566		99%	544	381	239	1118	572	65
1C06	PAVILION	Middle Fraser	1209		NS	NS	NS				0	147	22	60
1C08	NAZKO	Middle Fraser	1029		N	N	N		0	13	0	142	46	59
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	2017-04-03	58	144		173%	70	230	3	249	83	50
1C12P	Green Mountain	Middle Fraser	1766	2017-04-01		729		83%	968	694	429	1408	878	23
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	2017-04-02	151	422		91%	518	446	282	716	466	47
1C14	BRALORNE	Middle Fraser	1382	2017-03-30	72	241		158%	158	0	0	389	153	54
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2017-03-30	87	237		80%	373	219	161	533	296	56
1C18P	Mission Ridge	Middle Fraser	1903	2017-04-01		653		119%	451	385	157	1012	550	47
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	2017-04-03	74	163		154%	88	140	21	307	106	50
1C20P	Boss Mountain Mine	Middle Fraser	1477	2017-04-01	179	496		85%	672	525	255	866	585	23

1C21	BIG CREEK	Middle Fraser	1130	2017-03-31	0	0		0%	0	0	0	119	14	47	
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	2017-03-29	0	0		0%	0	0	0	91	19	47	
1C23	PENFOLD CREEK	Middle Fraser	1687	2017-03-22	251	888		91%		749	525	1285	979	45	
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	2017-03-30	76	211		166%	171	0	0	228	127	44	
1C28	DUFFEY LAKE	Middle Fraser	1253	2017-03-31	142	491		102%	522	212	212	866	480	39	
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	2017-03-31	85	275		124%	239	16	16	442	222	38	
1C32	DEADMAN RIVER	Middle Fraser	1463		N	N	N	N		100	54	30	196	104	33
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175		N	N	N	N		177	93	93	272	188	11
1C37	BRALORNE(UPPER)	Middle Fraser	1980	2017-03-30	223	734		110%	684	504	290	1010	665	22	
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	2017-03-30	245	890		105%	942	780	422	1416	847	22	
1C38P	Downton Lake Upper	Middle Fraser	1829	2017-04-01		810			781		781	781		1	
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	2017-03-30	190	616		106%	736	460	240	1086	580	22	
1C40	TYAUGHTON	Middle Fraser	1946	2017-03-30	128	372		85%	430	328	198	844	440	22	
1C40P	North Tyughton	Middle Fraser	1969	2017-04-01		310			375		375	375		1	
1C41P	Yanks Peak East	Middle Fraser	1683	2017-04-01	195	668		84%	754	826	365	1013	794	20	
1C42	CAVERHILL LAKE	Middle Fraser	1400	2017-03-28	82	218			286	186	174	284		12	
1D06P	Tenquille Lake	Lower Fraser	1669	2017-04-01	361	1242		122%	1220	857	526	1587	1014	16	
1D08	STAVE LAKE	Lower Fraser	1211		N	N	N	N		1453	98	98	2750	1448	49
1D09	WAHLEACH LAKE	Lower Fraser	1395		N	N	N	N		488	33	33	1270	588	49
1D09P	Wahleach Lake Upper	Lower Fraser	1408	2017-04-01		668		65%	702	265	265	1640	1026	25	
1D10	NAHATLATCH RIVER	Lower Fraser	1530		N	N	N	N		1476	468	468	2410	1296	49
1D16	DICKSON LAKE	Lower Fraser	1147	2017-03-30	393	1626		109%	1276	56	56	2990	1497	24	
1D17P	Chilliwack River	Lower Fraser	1621	2017-04-01	340	1592		111%	1461	666	590	2418	1435	25	
1D19P	Spuzzum Creek	Lower Fraser	1197	2017-04-01	348	1738		109%	1471	166	166	2745	1600	18	
1E01B	BLUE RIVER	North Thompson	673	2017-03-31	82	290		107%	260	189	154	425	272	34	
1E02P	Mount Cook	North Thompson	1574	2017-04-01	352	1155		96%	1515	1156	684	1480	1209	17	
1E03A	TROPHY MOUNTAIN	North Thompson	1907	2017-04-01	196	590		110%	540	492	332	888	537	42	
1E05	KNOUFF LAKE	North Thompson	1189	2017-03-28	50	160		119%	120	0	0	274	134	62	
1E07	ADAMS RIVER	North Thompson	1769	2017-03-31	234	750		111%	810	566	435	1069	673	47	
1E08P	Azure River	North Thompson	1625	2017-04-01	314	1180		104%	1126	1249	528	1538	1135	20	
1E10P	Kostal Lake	North Thompson	1760	2017-04-01		850		100%	881	793	417	1169	850	32	
1E14P	Cook Creek	North Thompson	1280	2017-04-01	157									1	
1F01A	ABERDEEN LAKE	South Thompson	1262	2017-04-04	52	145		117%	138	101	6	259	124	75	
1F02	ANGLEMONT	South Thompson	1168	2017-03-29	89	300		93%	272		142	561	321	60	
1F03P	Park Mountain	South Thompson	1857	2017-04-01	268				919	797	379	1207	852	32	
1F04P	Enderby	South Thompson	1950	2017-04-01										0	
1F06P	Celista Mountain	South Thompson	1533	2017-04-01	257	879		101%	1132	827	506	1117	867	12	
2A01A	CANOE RIVER	Upper Columbia	866	2017-03-30	37	116		178%	0	0	0	262	65	75	
2A02	GLACIER	Upper Columbia	1249	2017-03-26	166	611		91%	659	480	362	1161	670	80	
2A03A	FIELD	Upper Columbia	1310	2017-03-30	42	134		98%	112	49	8	251	137	78	
2A06P	Mount Revelstoke	Upper Columbia	1770	2017-04-01		1199		99%	1288	1003	595	1686	1210	24	
2A07	KICKING HORSE	Upper Columbia	1648	2017-03-29	104	301		95%	312	236	160	589	317	69	

2A11	BEAVERFOOT	Upper Columbia	1924	2017-03-31	79	226		118%	242	126	105	460	191	69
2A14	MOUNT ABBOT	Upper Columbia	2031	2017-03-27	365	1300		108%	1239	963	600	1849	1199	58
2A16	GOLDSTREAM	Upper Columbia	1914	2017-03-30	336	1221		108%	1164	1074	584	1638	1133	54
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	2017-03-26	317	1128		93%	1200	1021	590	1951	1210	54
2A18	KEYSTONE CREEK	Upper Columbia	1839		N	N	N		844	667	414	1388	788	51
2A18P	Keystone Creek	Upper Columbia	1850	2017-04-01		1066			966		966	966		1
2A19	VERMONT CREEK	Upper Columbia	1533	2017-03-31	144	490		123%	500	219	190	843	397	51
2A21P	Molson Creek	Upper Columbia	1930	2017-04-01		1017		99%	945	965	481	1551	1029	36
2A22	SUNBEAM LAKE	Upper Columbia	2066	2017-03-30	279	955		108%	831	819	469	1384	885	50
2A23	BUSH RIVER	Upper Columbia	1982	2017-03-30	257	875		108%	753	715	455	1331	809	50
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	2017-03-30	383	1360		117%	1333	1105	671	1816	1163	45
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	2017-03-30	171	644		97%	682		338	1032	664	39
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	2017-03-30	407	1474		110%	1474	1066	335	2360	1334	39
2A30P	Colpitti Creek	Upper Columbia	2131	2017-04-01		907			803		803	803		1
2A31P	Caribou Creek Upper	Upper Columbia	2201	2017-04-01		1053			946		946	946		1
2A32P	Wildcat Creek	Upper Columbia	2122	2017-04-01		635			523		523	523		1
2B02A	FARRON	Lower Columbia	1229	2017-03-31	103	350		117%	347	127	127	480	300	44
2B05	WHATSHAN (UPPER)	Lower Columbia	1476	2017-04-03	182	588		92%	678	457	350	964	638	59
2B06P	Barnes Creek	Lower Columbia	1595	2017-04-01		428		81%	629	498	272	773	530	24
2B07	KOCH CREEK	Lower Columbia	1813	2017-04-03	252	819		113%	907		397	1156	722	57
2B08P	St. Leon Creek	Lower Columbia	1822	2017-04-01		1189		111%	1148	1079	536	1553	1072	24
2B09	RECORD MOUNTAIN	Lower Columbia	1906	2017-03-31	260	905		128%	895	388	315	1307	708	42
2C01	SINCLAIR PASS	East Kootenay	1374	2017-03-29	37	96		88%	116	45	36	262	109	80
2C04	SULLIVAN MINE	East Kootenay	1580	2017-03-30	102	326		120%	264	174	114	538	272	71
2C07	FERNIE EAST	East Kootenay	1213	2017-04-02	94	348		122%	205	24	24	605	286	66
2C09Q	Morrissey Ridge	East Kootenay	1966	2017-04-01		689		98%	719	488	308	1224	704	37
2C10P	Moyie Mountain	East Kootenay	1840	2017-04-01	128	561		136%	398	263	184	679	412	38
2C14P	Floe Lake	East Kootenay	2110	2017-04-01		850		122%	650	648	331	983	695	24
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	2017-03-31	227	673		131%	528	512	252	816	514	48
2C16	MOUNT JOFFRE	East Kootenay	1763	2017-03-31	124	358		103%	366	308	179	711	349	48
2C17	THUNDER CREEK	East Kootenay	2062	2017-03-31	107	312		120%	330	214	140	475	259	48
2D02	FERGUSON	West Kootenay	929		N	N	N		611	414	142	881	550	79
2D03	SANDON	West Kootenay	1072	2017-04-01	95	375		114%	241	154	71	585	330	74
2D04	NELSON	West Kootenay	952	2017-03-31	74	283		85%	156	5	5	622	334	79
2D05	GRAY CREEK (LOWER)	West Kootenay	1558		N	N	N		498	276	276	688	440	69
2D06	CHAR CREEK	West Kootenay	1290	2017-03-28	160	557		106%	488	241	214	940	525	51
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	2017-03-28	46	180		217%			0	223	83	25
2D08P	East Creek	West Kootenay	2004	2017-04-01		1044		121%	999	871	442	1245	863	36
2D09	MOUNT TEMPLEMAN	West Kootenay	1879		N	N	N		1078		520	1608	1013	46
2D10	GRAY CREEK (UPPER)	West Kootenay	1926		N	N	N		855	599	492	1123	722	48
2D14P	Redfish Creek	West Kootenay	2086	2017-04-01	505	1687		142%	1596	1427	751	1755	1188	15
2E01	MONASHEE PASS	Kettle	1387	2017-04-03	98	283		87%	356	258	165	517	324	68

2E02	CARMI	Kettle	1254	2017-03-29	39	88		77%	31	0	0	290	115	54
2E03	BIG WHITE MOUNTAIN	Kettle	1672	2017-03-29	166	396		83%	608	319	319	762	476	51
2E07P	Grano Creek	Kettle	1874	2017-04-01		479		93%	703	400	285	791	516	19
2F01A	TROUT CREEK (West)	Okanagan	1430	2017-03-26	62	163		83%	211	132	93	272	196	7
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	2017-03-30	84	227		115%	290	171	96	389	197	81
2F03	MC CULLOCH	Okanagan	1266	2017-03-29	38	144		109%	168	6	6	249	132	82
2F04	GRAYSTOKE LAKE	Okanagan	1818		N	N	N		390		168	828	339	43
2F05P	Mission Creek	Okanagan	1794	2017-04-01	167	432		90%	627	396	242	728	478	47
2F07	POSTILL LAKE	Okanagan	1358		N	N	N		239	90	90	348	202	67
2F08P	Greyback Reservoir	Okanagan	1550	2017-04-01	78	257								0
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2017-04-01	180	555		107%	785	389	318	1021	521	64
2F10P	Silver Star Mountain	Okanagan	1839	2017-04-01	290	649			786		786	786		1
2F11	ISINTOK LAKE	Okanagan	1651	2017-03-30	60	141		95%	144	114	66	340	148	52
2F12	MOUNT KOBAN	Okanagan	1817	2017-03-31	121	375		123%	481	229	105	602	304	51
2F13	ESPERON CR (UPPER)	Okanagan	1634	2017-04-01	127	386		101%	524	260	244	805	383	51
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	2017-04-01	107	318		97%	516	224	196	607	328	51
2F18P	Brenda Mine	Okanagan	1453	2017-04-01		308		89%	436	190	190	497	345	24
2F19	OOYAMA LAKE	Okanagan	1365	2017-03-31	69	182		118%	188		61	255	154	47
2F20	VASEUX CREEK	Okanagan	1403	2017-03-31	41	100		76%	176	44	40	239	132	46
2F21	BOULEAU LAKE	Okanagan	1405	2017-03-26	101	252		82%	344	160	160	564	306	46
2F23	MACDONALD LAKE	Okanagan	1742	2017-04-04	157	45		11%	596	307	257	677	428	39
2F24	ISLAHT LAKE	Okanagan	1492		N	N	N		480	145	145	501	309	35
2F25	POSTILL LAKE UPPER	Okanagan	1500		N	N	N		281	38	38	281		7
2G03P	Blackwall Peak	Similkameen	1934	2017-04-01	220	754		98%	893	636	403	1497	770	49
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	2017-03-31	73	181	B	84%	268	242	138	533	216	56
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2017-03-31	74	208	B	106%	215	100	90	361	197	56
2G06	HAMILTON HILL	Similkameen	1477	2017-03-26	89	265	B	91%	220	119	83	851	291	57
3A01	GROUSE MOUNTAIN	South Coast	1126	2017-03-29	401	1694		146%	1150	0	0	2670	1160	81
3A02	POWELL RIVER (UPPER)	South Coast	1002		NS	NS	NS		826	15	15	1813	969	65
3A05	POWELL RIVER (LOWER)	South Coast	882		NS	NS	NS		344	8	8	1554	651	58
3A09	PALISADE LAKE	South Coast	898	2017-03-30	371	1620		123%	1106	0	0	3560	1322	70
3A10	DOG MOUNTAIN	South Coast	1007	2017-03-31	347	1496		132%	1008	0	0	2720	1137	72
3A19	ORCHID LAKE	South Coast	1178	2017-03-30	512	1970		111%	1402	90	90	3770	1769	44
3A20	CALLAGHAN CREEK	South Coast	1009	2017-03-29	228	940		115%	1040	24	24	1604	820	40
3A22P	Nostetuko River	South Coast	1457	2017-04-01	121	516		91%	593	287	233	1074	568	28
3A24P	Mosley Creek Upper	South Coast	1655	2017-04-01	87	269		93%	238	334	147	567	288	28
3A25P	Squamish River Upper	South Coast	1387	2017-04-01		1595		101%	1725	715	715	2760	1584	27
3A26	CHAPMAN CREEK	South Coast	1022	2017-03-31	358	318		103%			704	1728	308	9
3A27	EDWARDS LAKE	South Coast	1070		N	N	N				398	1286	215	6
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	2017-03-30	338	1432		96%	1667	30	30	3550	1485	62
3B02A	MOUNT COKELY	Vancouver Island	1267		N	N	N		790	0	0	2100	831	36
3B04	ELK RIVER	Vancouver Island	270	2017-03-30	15	55	T	162%	0	0	0	607	34	61

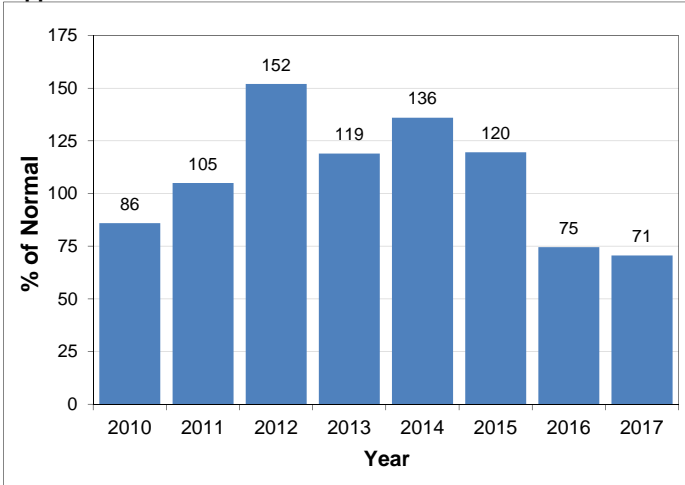
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	2017-03-30	345	1436		99%	1384	0	0	3200	1455	59
3B17P	Wolf River Upper	Vancouver Island	1422	2017-04-01		1162		88%	1473	382	305	2600	1320	35
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	2017-03-30	155	560	A	91%	612	0	0	1706	618	47
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	2017-03-30	80	312		99%	150	0	0	1198	315	47
3B23P	Jump Creek	Vancouver Island	1134	2017-04-01	292	1334		123%	811	0	0	3040	1088	21
3B24P	Heather Mountain Upper	Vancouver Island	1190	2017-04-01	343	1745			1429		1429	1429		1
3B26P	Mount Arrowsmith	Vancouver Island	1465	2017-04-01	285									0
3C07	WEDEENE RIVER SOUTH	North Coast	196	2017-03-29	99	380		99%	140	208	96	981	383	31
3C08P	Burnt Bridge Creek	North Coast	1329	2017-04-01	190	740		92%	649	847	382	1402	802	19
3D01C	SUMALLO RIVER WEST	Skagit	801		N	N	N		0	0	0	461	191	25
3D02	LIGHTNING LAKE	Skagit	1254	2017-03-26	86	262	B	94%	360	190	60	622	278	70
3D03A	KLESILKWA	Skagit	1134	2017-03-30	76	293		127%	110	0	0	792	231	69
4A02P	Pine Pass	Peace	1386	2017-04-01	271	859		84%	945	877	363	1550	1026	28
4A03	WARE (UPPER)	Peace	1563	2017-03-29	90	198		77%	162	233	90	390	258	55
4A03P	Ware Upper	Peace	1565	2017-04-01	89	203								0
4A04	WARE (LOWER)	Peace	969	2017-03-29	68	143		74%	167	180	89	316	194	55
4A04P	Ware Lower	Peace	971	2017-04-01	75	150								0
4A05	GERMANSEN (UPPER)	Peace	1489	2017-03-30	100	253		73%	318	352	156	523	348	56
4A06	TUTIZZI LAKE	Peace	1043	2017-03-30	72	188		73%	175	213	106	406	259	54
4A07	LADY LAURIER LAKE	Peace	1460	2017-03-28	154	436		82%	436	509	194	854	529	54
4A09	PULPIT LAKE	Peace	1331	2017-03-29	127	329		77%	353	420	152	618	425	54
4A09P	Pulpit Lake	Peace	1331	2017-04-01	112	282		64%	297	380	133	620	439	27
4A10	FREDRICKSON LAKE	Peace	1323	2017-03-30	75	149		60%	165	256	93	351	247	54
4A11	TRYGV E LAKE	Peace	1409	2017-03-29	114	285		77%	253	374	119	511	370	54
4A12	TSAYDAYCHI LAKE	Peace	1173	2017-03-30	121	346		87%	346	393	166	639	398	54
4A13	PHILIP LAKE	Peace	1013	2017-03-30	59	133		48%	251	221	137	449	279	54
4A16	MORFEE MOUNTAIN	Peace	1427		N	N	N		685		265	1158	833	48
4A18	MOUNT SHEBA	Peace	1480		N	N	N		676	839	369	1294	823	48
4A20	MONKMAN CREEK	Peace	1566	2017-04-01	169	535		99%	398	567	190	1067	540	43
4A21	MOUNT STEARNS	Peace	1514	2017-03-28	80	180		122%	81	156	41	239	147	43
4A25	FORT ST. JOHN A	Peace	692	2017-03-29	35	105		108%		129	0	226	97	42
4A27P	Kwadacha North	Peace	1554	2017-04-01	124	227								0
4A30P	Aiken Lake	Peace	1061	2017-04-01	68	191		71%	208	249	90	371	268	32
4A31P	Crying Girl Prairie	Peace	1358	2017-04-01		278			173		173	173		1
4A33P	Muskwa-Kechika	Peace	1196	2017-04-01		129			46		46	46		1
4A34P	Dowling Creek	Peace	1456	2017-04-01		444								0
4B01	KIDPRICE LAKE	Skeena-Nass	1415	2017-03-30	269	999		107%	685	915	622	1781	931	63
4B02	JOHANSON LAKE	Skeena-Nass	1480	2017-03-30	96	226		75%	270	306	108	417	301	54
4B03A	HUDSON BAY MTN.	Skeena-Nass	1452	2017-03-30	134	408		82%	392	536	168	846	499	45
4B04	CHAPMAN LAKE	Skeena-Nass	1485	2017-03-31	136	422		92%	375	425	315	762	457	52
4B06	TACHEK CREEK	Skeena-Nass	1133	2017-03-29	68	178		80%	208	244	112	362	223	49
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	2017-03-31	70	199		73%	222	276	183	427	271	49

4B08	MOUNT CRONIN	Skeena-Nass	1491	2017-03-31	170	549		96%	460	496	433	1097	570	48
4B10	NINGUNSAW PASS	Nass	647		N	N	N		199	220	220	730	434	42
4B11A	BEAR PASS	Nass	437	2017-03-27	115	430		67%	322		330	1013	642	30
4B12P	Granduc Mine	Skeena-Nass	790	2017-04-01	428	82								0
4B13A	TERRACE A	Skeena-Nass	219	2017-03-29	17	60		71%	0	0	0	333	84	37
4B14	EQUITY MINE	Skeena-Nass	1434	2017-03-29	136	406		105%	364	468	258	640	385	40
4B15	LU LAKE	Skeena-Nass	1296	2017-03-29	95	252		87%	250	360	162	504	291	40
4B15P	Lu Lake	Skeena-Nass	1308	2017-04-01	93	285		108%	259	436	119	478	264	19
4B16P	Shedin Creek	Skeena-Nass	1320	2017-04-01	190	532		59%	469	582	195	1096	896	21
4B17P	Tsai Creek	Skeena-Nass	1360	2017-04-01		934		80%	808	1088	302	1825	1165	19
4B18P	Cedar-Kiteen	Skeena-Nass	912	2017-04-01	126	472		66%	365	411	178	1126	712	16
4C01	SIKANNI LAKE	Liard	1390	2017-03-29	78	171		62%	158	287	78	380	276	54
4C01P	Sikanni Lake	Liard	1400	2017-04-01	80	171								0
4C02	SUMMIT LAKE	Liard	1291	2017-03-29	52	95		84%	54	124	0	240	113	53
4C03	DEASE LAKE	Liard	805		N	N	N		58		50	259	132	50
4C05	FORT NELSON AIRPORT	Liard	368	2017-03-29	45	96		102%	66	60	23	198	94	50
4C15	JADE CITY	Liard	943		N	N	N		150	156	156	340	238	15
4D01	TELEGRAPH CREEK	Stikine	490		N	N	N		14	85	37	343	146	40
4D02	ISKUT	Stikine	931		NS	NS	NS		0		0	180	98	41
4D11P	Kinaskan Lake	Stikine	1020	2017-04-01	107	330		81%	237	323	94	323	405	21
4E02B	ATLIN LAKE	Yukon	730	2017-04-01	42	92			46		76	243		11

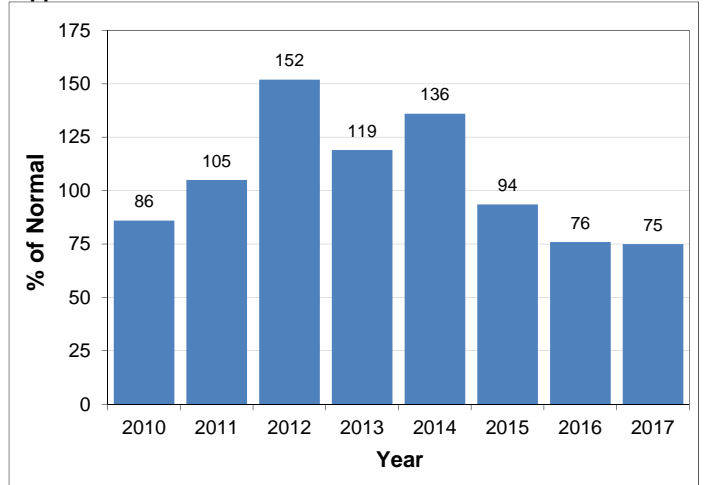
Code	Description
A	Sampling problems were encountered
B	Early or late sampling
C	Early or late sampling w/problems encountered
E	Estimate
N	Scheduled, but not sampled
NA	Not available
NS	Not scheduled
SD	Snow Depth
SWE	Snow Water Equivalent
T	Trace Amount

Snow Basin Index Graphs - April 1, 2017

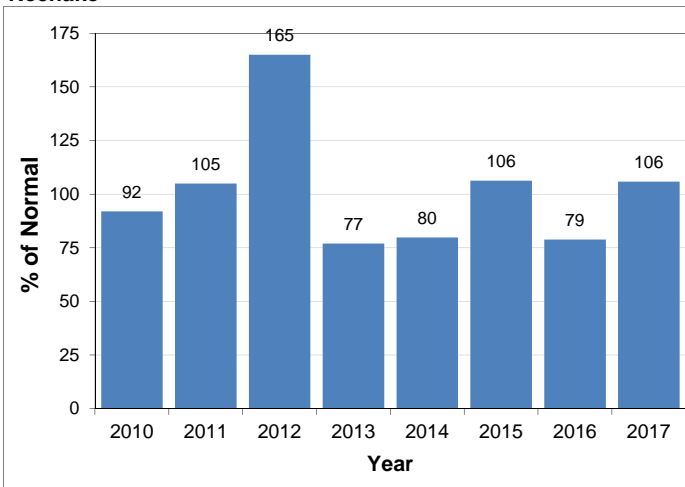
Upper Fraser West



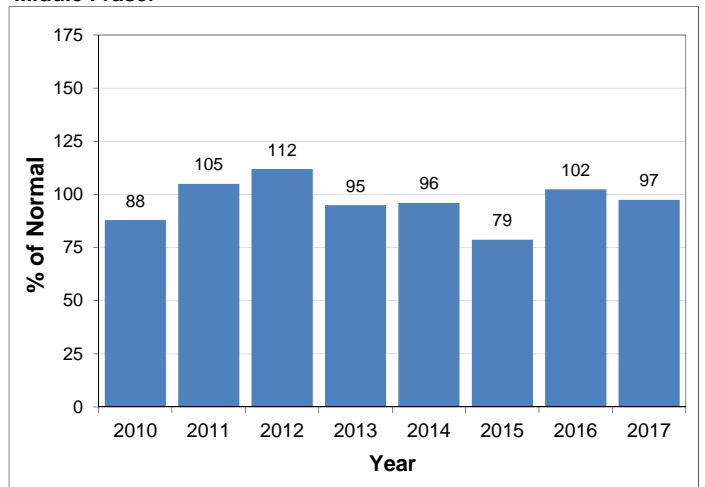
Upper Fraser East



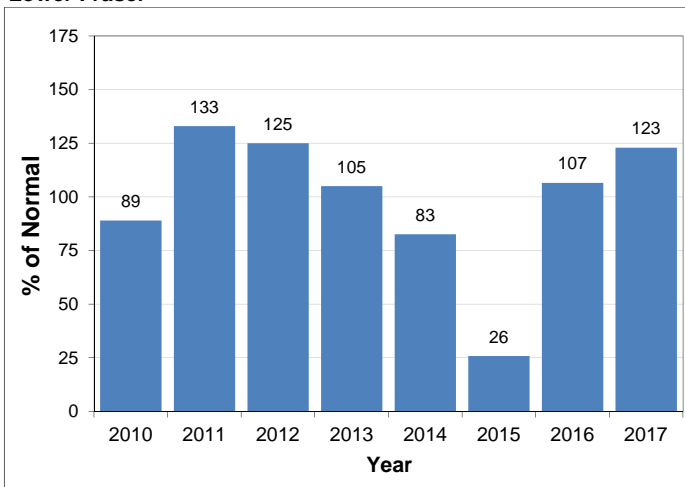
Nechako



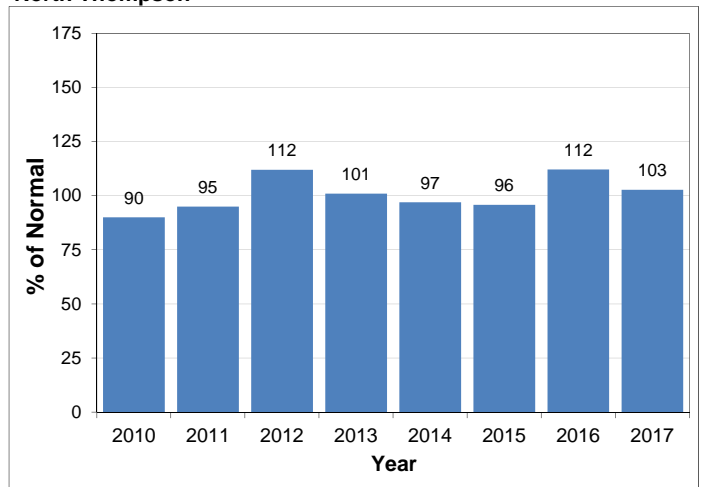
Middle Fraser



Lower Fraser

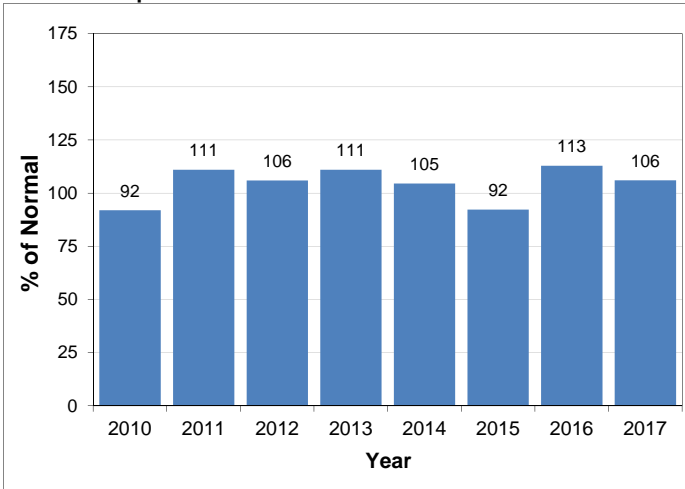


North Thompson

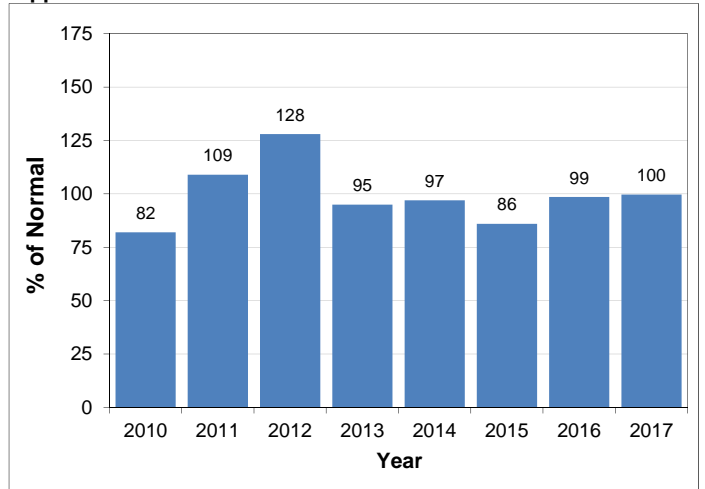


Snow Basin Index Graphs - April 1, 2017

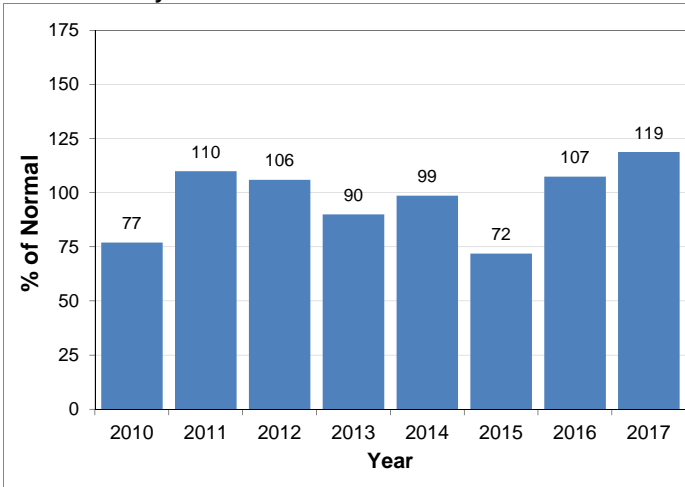
South Thompson



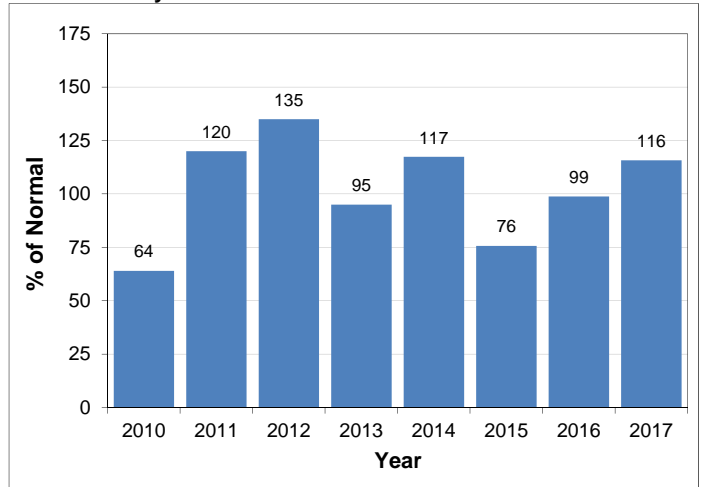
Upper Columbia



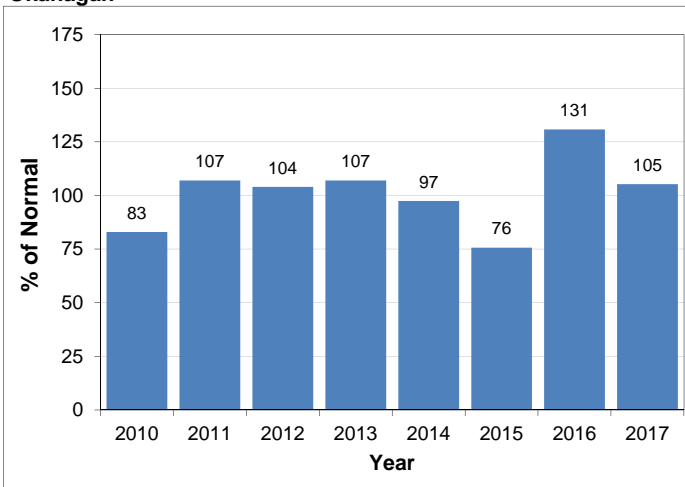
West Kootenay



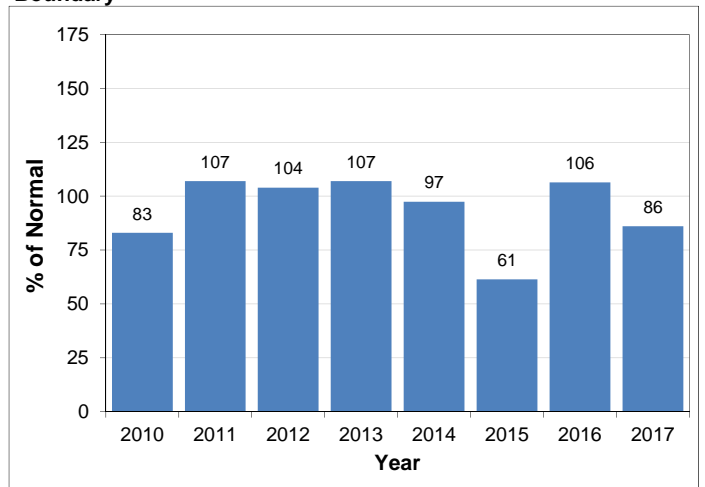
East Kootenay



Okanagan

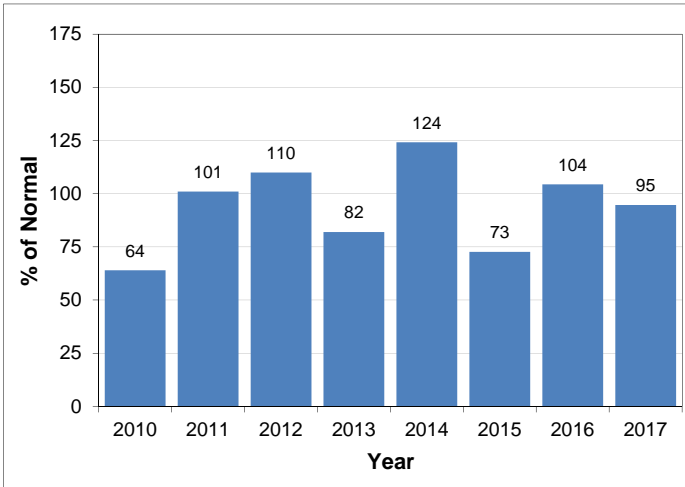


Boundary

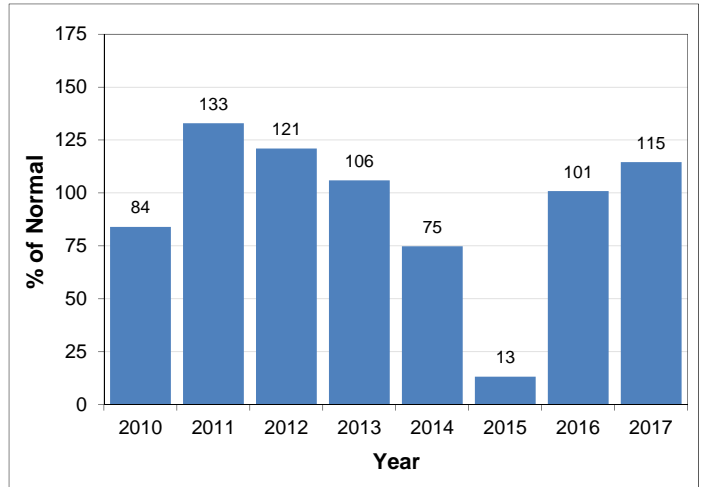


Snow Basin Index Graphs - April 1, 2017

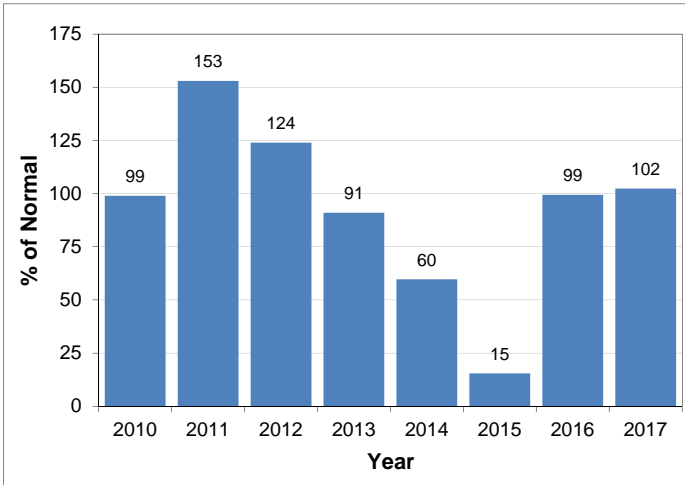
Similkameen



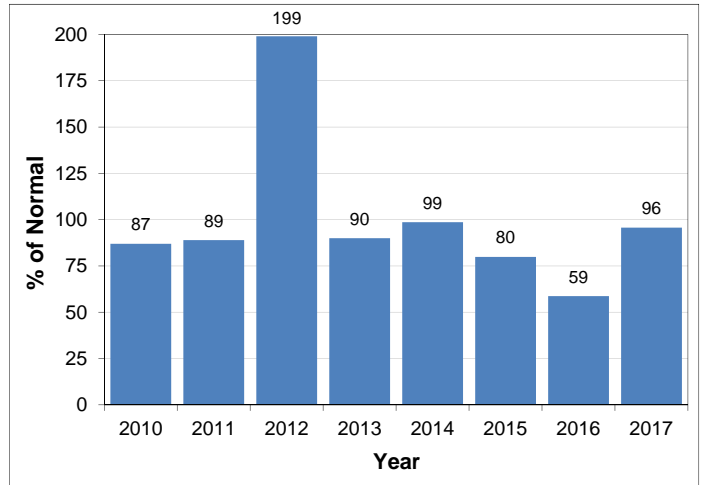
South Coast



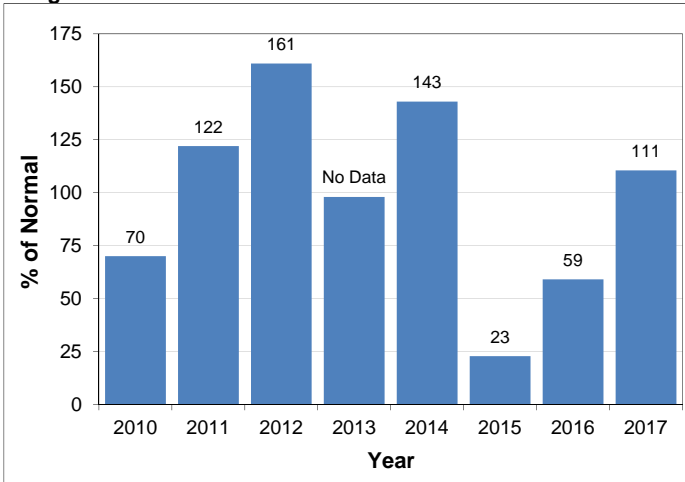
Vancouver Island



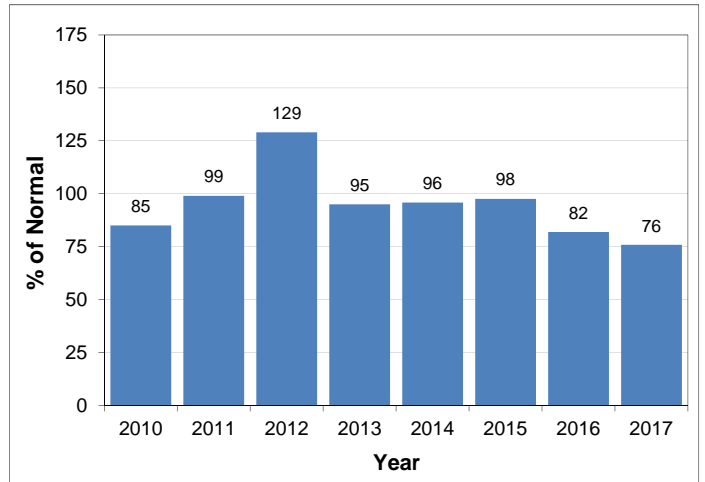
Central Coast



Skagit

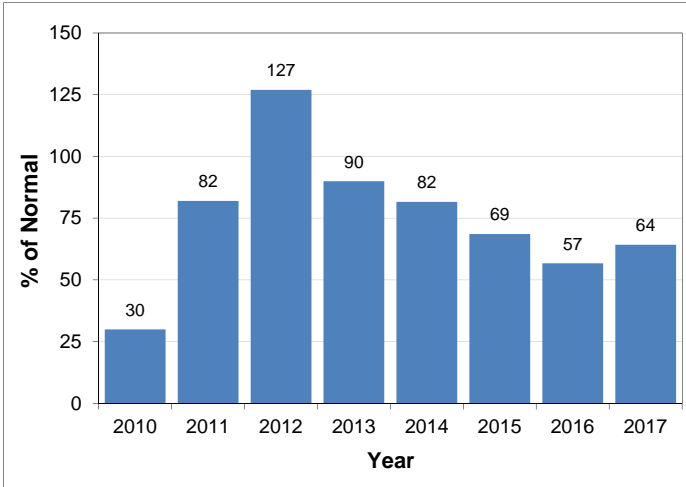


Peace

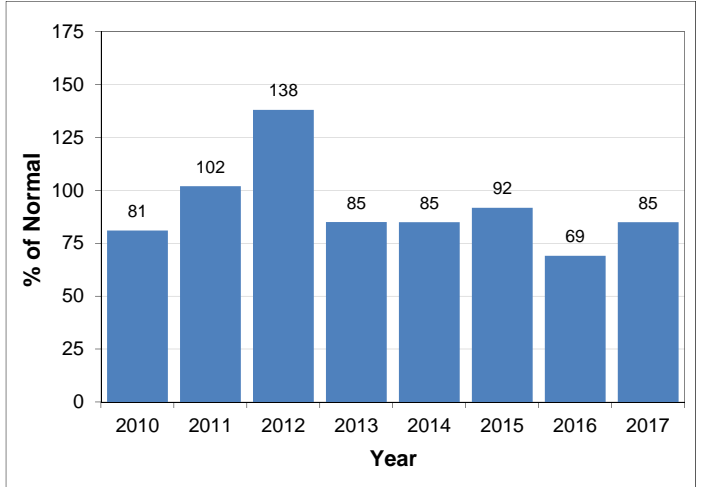


Snow Basin Index Graphs - April 1, 2017

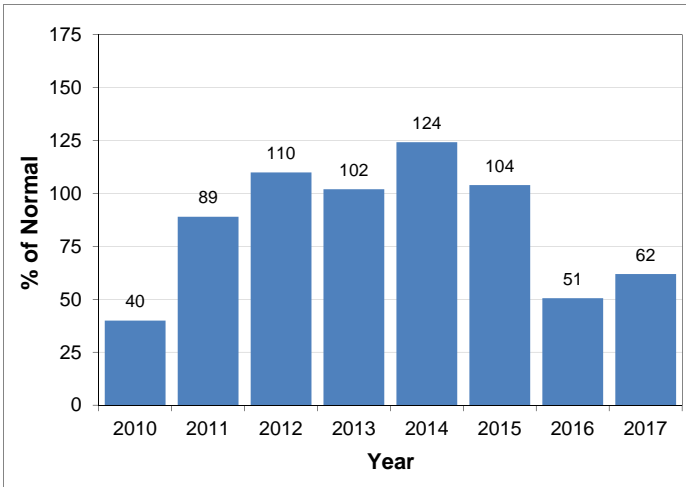
Stikine



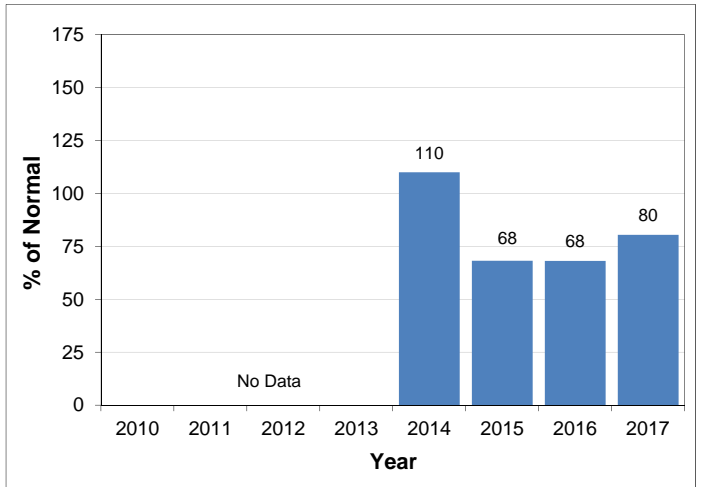
Skeena-Nass



Liard



Northwest



Ministry of Forests, Lands and Natural Resource Operations
River Forecast Centre
Volume Runoff Forecast April 2017

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				3426	3699	93%	307	4868	5166	94%	381	
	McGregor at Lower Canyon				3283	3964	83%	428	4307	5010	86%	564	
	Fraser at Shelley				12590	15670	80%	1179	16486	19730	84%	1562	
Middle Fraser Basin	Quesnel River at Quesnel				3913	4541	86%	418	5115	5872	87%	568	
Thompson Basin	N. Thompson at McLure				9241	8916	104%	481	11608	11085	105%	753	
	S. Thompson at Chase				5725	5792	99%	448	7310	7359	99%	686	
	Thompson at Spences Bridge				15538	15114	103%	973	19881	19094	104%	1560	
Bulkley and Skeena	Bulkley at Quick				2636	2625	100%	236	3241	3222	101%	272	
	Skeena at Usk				17667	18673	95%	1173	21901	23017	95%	1698	
Nicola Lake	Inflows	184	121	153%	30	209	138	152%	35				
Nicola River	at Spences Bridge	557	523	106%	82	634	591	107%	103				
Okanagan and Kalamalka-Wood Lake	Okanagan Lake Inflow	530	440	120%	88	570	465	122%	108				
	Kalamalka-Wood Lake Inflow	23	28	82%	11	25	29	85%	13				
Similkameen River	Similkameen at Nighthawk	1381	1273	109%	128					1725	1583	109%	156
	Similkameen at Hedley	1150	989	116%	96					1387	1177	118%	96
Cowichan River	Cowichan Lake Inflows	263	248	106%	57					303	290	104%	57

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