



## Snow Survey and Water Supply Bulletin – May 1<sup>st</sup>, 2017

The May 1<sup>st</sup> snow survey is now complete. Data from 118 snow courses and 71 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

April weather was dominated by prolonged periods of cool and moist unstable conditions particularly in southern British Columbia. Drier and warmer conditions prevailed in the northern half of the province.

For the month of April, temperatures were slightly below normal in most of southern BC (0.5 to 1.5 °C below normal) and slightly above normal in northern BC (1 to 2 °C above normal). Monthly precipitation was extreme through southern BC, particularly in the Central Interior, South Interior, Okanagan and Kootenay. In these regions precipitation was typically 150-300% of normal for April, and regionally one of the wettest Aprils on record. This follows on a trend of wetter conditions in southern BC since February. In the north-west, precipitation was generally drier than normal in April.

### Snowpack

Cool and wet weather through April has led to a significant increase in snowpack conditions across the province, with the biggest increases being observed in south and south-east BC. This has been pronounced by a delay in the onset of the snow melt season by about two weeks in most regions of the province.

Snow basin indices for May 1<sup>st</sup> 2017 range from a low of 58% of normal in the Northwest to a high of 147% of normal in the Okanagan (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, Liard and Northwest. Slightly elevated snowpacks (110-120%) are present in the Middle Fraser, North Thompson, South Thompson, Upper Columbia and Skagit, and elevated (>120%) in the Lower Fraser, West Kootenay, East Kootenay, Okanagan, Boundary, Similkameen and South Coast. Other areas of the province have near-normal May 1<sup>st</sup> snow basin indices. The May 1<sup>st</sup> basin index for the entire Fraser Basin is 108% of normal. Provincially, snow measurements have increased significantly, with the provincial average for all May 1<sup>st</sup> snow measurements at 118% of normal. This has increased from the average of 98% for April 1<sup>st</sup>.

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**Table 1 - BC Snow Basin Indices – May 1, 2017**

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	96	Boundary	121
Upper Fraser East	78	Similkameen	146
Nechako	109	South Coast	132
Middle Fraser	110	Vancouver Island	108
Lower Fraser	139	Central Coast	60
North Thompson	112	Skagit	114
South Thompson	115	Peace	76
Upper Columbia	115	Skeena-Nass	83
West Kootenay	134	Stikine	63
East Kootenay	137	Liard	64
Okanagan	147	Northwest	58

### Streamflow

With extremely wet weather through the spring in southern BC, most rivers are flowing well above normal for early May, including extreme flows and flood conditions in areas of the Middle Fraser, South Thompson, Okanagan, Similkameen, and Boundary. Snowmelt and rainfall in the north-east has also led to much higher than normal flows than normal for early-May. Other areas of the province have near-normal flow conditions for this time of year.

### 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 summer and 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 both the medium (second half of May) and long (May-July) range periods.

Seasonal volume runoff forecasts (see below) are near normal for most basins across the province. Well-above normal seasonal runoff (>120%) is forecasted in the Nicola, Similkameen and Okanagan basins.

This year the onset of the melt season has been delayed by about 2 weeks, with most regions firmly transitioned into the melting as of the first week of May. At low to mid-elevations (below 1500 m) much of the snow has melted, with significant snow still remaining higher up. Melt rates of 10-30 mm/day were observed last week at mid-elevation areas, and 5-15 mm/day at higher elevations.



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Significant snow accumulation over the past month has led to an increase in seasonal flood risk across most of the province. Elevated seasonal flood risk is present through the West Kootenay, East Kootenay, Similkameen, Okanagan and Boundary. Decreased seasonal flood risk is present in the Upper Fraser, Peace, Stikine, Liard and Northwest. Other areas of the province are entering into the spring freshet with normal levels of seasonal flood risk. In the Lower Fraser and South Coast, 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 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 8500-9500 m<sup>3</sup>/s, or slightly above 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. Extremely wet seasonal weather, particularly in southern BC, has led to saturated ground conditions, and rivers are much more responsive to water inputs, such as rainfall or rapid snowmelt, than normal. Cold winter temperatures and healthy seasonal accumulations of low and mid elevation snow earlier this year are also contributing to these conditions.

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.

Current advisories, warnings, freshet information, hydrometric monitoring, river modelling and snow data are available on the River Forecast Centre website:

<http://bcRFC.env.gov.bc.ca/>.

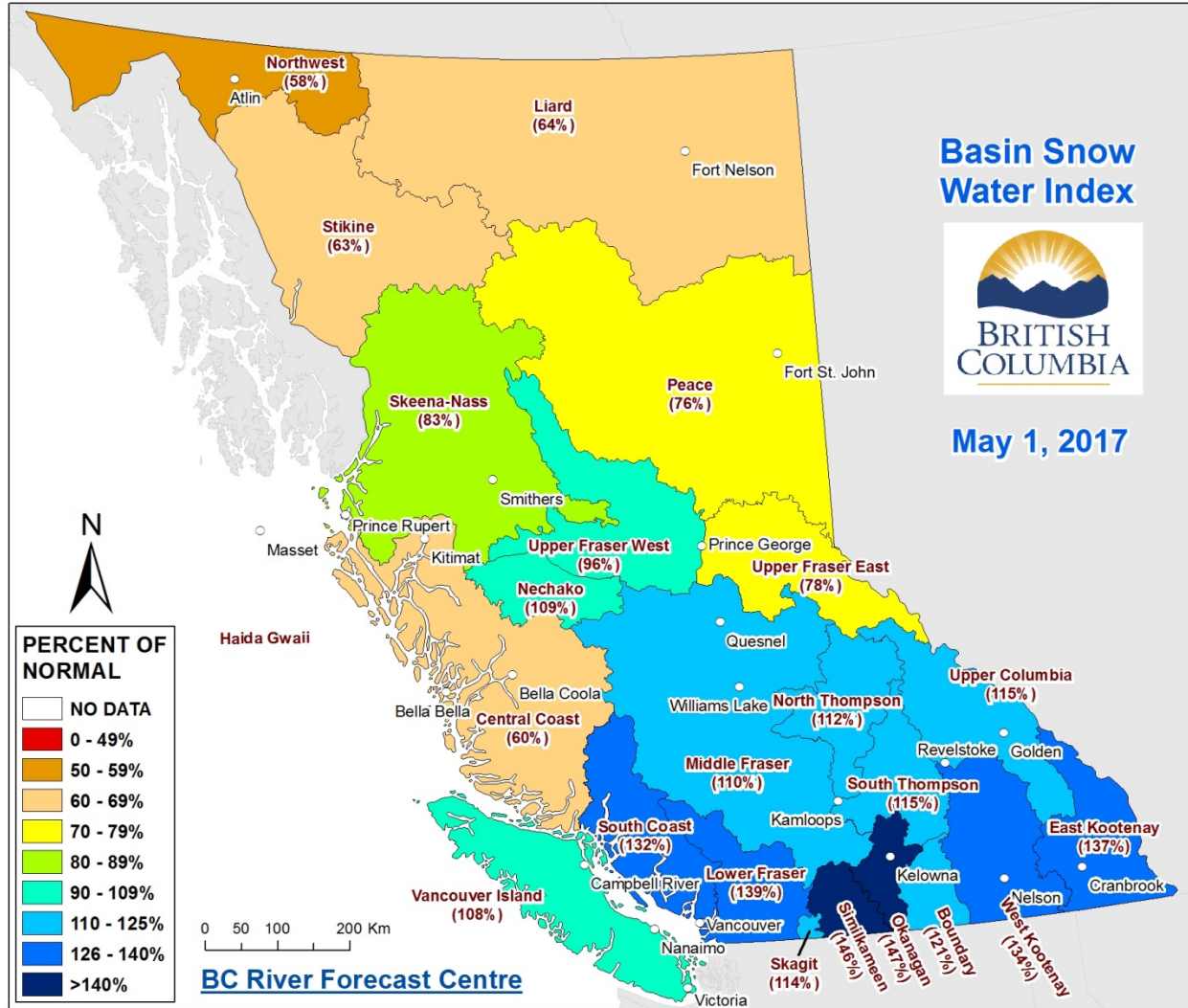
The River Forecast Centre will continue to monitor snowpack conditions and will provide an updated seasonal flood risk forecast in the May 15<sup>th</sup> 2017 bulletin, which is scheduled for release on May 23<sup>rd</sup>.

BC River Forecast Centre  
May 8, 2017



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Figure 1: Basin Snow Water Index – May 1<sup>st</sup>, 2017



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2017 Automated Snow Weather Station/Manual Snow Survey Data				May 1					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2016 SWE (mm)	2015 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	Yellowhead Lake	Upper Fraser East	1847	2017-05-01	144	564		100%	386	537	254	833	565	20
1A02P	McBride Upper	Upper Fraser East	1608	2017-05-01	118	430		93%	203	503	198	749	462	25
1A03P	Barkerville	Upper Fraser East	1483	2017-05-01	95	328		95%	2	200	123	604	346	42
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693		N	N	N		462		296	1370	830	63
1A05P	Longworth Upper	Upper Fraser East	1740	2017-05-01	205	657								0
1A06A	HANSARD	Upper Fraser East	622		NS	NS	NS							0
1A10	PRINCE GEORGE A	Upper Fraser East	684		NS	NS	NS				0	216	10	41
1A11	PACIFIC LAKE	Upper Fraser East	756	2017-04-26	77	297		59%	0	207	93	976	507	54
1A12	KAZA LAKE	Upper Fraser West	1247	2017-04-27	76	230		70%	200	328	132	481	328	54
1A12P	Kaza Lake	Upper Fraser West	1248	2017-05-01	87	241			193		193	193		1
1A14P	Hedrick Lake	Upper Fraser East	1118	2017-05-01	162	427		52%	248	531	214	1279	820	17
1A15	KNUDSEN LAKE	Upper Fraser East	1598	2017-04-26	175	679		78%			501	1346	868	49
1A15P	Knudsen Lake	Upper Fraser East	1601	2017-05-01	183	526								0
1A16	BURNS LAKE	Upper Fraser West	820	2017-05-01	0	0		0%	0	8	0	148	26	39
1A17P	Revolution Creek	Upper Fraser East	1676	2017-05-01	199	673		84%	517	837	326	1349	804	32
1A19P	Dome Mountain	Upper Fraser East	1768	2017-05-01	202	673		83%	535	831	298	1163	810	11
1A23	BIRD CREEK	Upper Fraser West	1196	2017-05-01	20	58		149%	0	130	0	204	39	26
1B01	MOUNT WELLS	Nechako	1489	2017-05-01	165	590		121%	255	663	201	958	487	63
1B01P	Mount Wells	Nechako	1489	2017-05-01		672		118%	325	805	227	919	569	25
1B02	TAHTSA LAKE	Nechako	1319	2017-05-01	293	1265		101%	877	1323	701	2073	1256	64
1B02P	Tahtsa Lake	Nechako	1319	2017-05-01		1359		100%	1012	1351	464	2348	1362	25
1B05	SKINS LAKE	Nechako	877	2017-05-01	0	0		0%	0		0	100	3	46
1B06	MOUNT SWANNELL	Nechako	1596	2017-05-01	100	312		109%	15	377	109	499	287	27
1B07	NUTLI LAKE	Nechako	1502	2017-05-01	150	579		113%	227	547	250	870	513	25
1B08P	Mount Pondosy	Nechako	1413	2017-05-01		1013		128%	527	1014	363	1277	794	25
1C01	BROOKMERE	Middle Fraser	994	2017-04-30	31	99		152%	0	0	0	419	65	71
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	2017-04-28	155	590		103%	321	362	239	1118	573	65
1C06	PAVILION	Middle Fraser	1209		NS	NS	NS				0	0	0	16
1C08	NAZKO	Middle Fraser	1029		N	N	N				0	46	3	25
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	2017-05-03	39	101		505%	0		0	142	20	48
1C12P	Green Mountain	Middle Fraser	1766	2017-05-01		788		87%	736	711	429	1373	909	23
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	2017-04-25	130	460		113%	282	372	136	676	408	47
1C14	BRALORNE	Middle Fraser	1382	2017-04-28	49	161		278%	0		0	255	58	53
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2017-05-01	76	235		91%	90	142	118	536	257	56
1C18P	Mission Ridge	Middle Fraser	1903	2017-05-01		659		133%	238	341	147	1028	496	47
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	2017-05-03	44	160		296%	0		0	241	54	47
1C20P	Boss Mountain Mine	Middle Fraser	1477	2017-05-01	150	574		96%	394	425	255	821	597	23



1C21	BIG CREEK	Middle Fraser	1130	2017-04-27	0	0		0%			0	48	12	6
1C22	PUNTZI MOUNTAIN	Middle Fraser	939		N	N	N	N			0	22	0	11
1C23	PENFOLD CREEK	Middle Fraser	1687		N	N	N	N	829	915	525	1420	1064	47
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471		N	N	N	N	0	0	0	168	30	44
1C28	DUFFEY LAKE	Middle Fraser	1253		NS	NS	NS	NS			206	624	377	14
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456		N	N	N	N	0	0	0	305	82	36
1C32	DEADMAN RIVER	Middle Fraser	1463	2017-05-03	0	0		0%	0	0	0	194	32	33
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175		N	N	N	N	0	0	0	221	89	11
1C37	BRALORNE(UPPER)	Middle Fraser	1980	2017-04-28	199	764		113%	513	638	290	1092	676	22
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	2017-04-28	231	888		104%	852	878	450	1340	856	22
1C38P	Downton Lake Upper	Middle Fraser	1829	2017-05-01		869			807		807	807		1
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	2017-04-28	166	612		102%	640	526	244	1018	600	22
1C40	TYAUGHTON	Middle Fraser	1946	2017-04-28	122	394		89%	258	396	198	806	443	22
1C40P	North Tyaughton	Middle Fraser	1969	2017-05-01		354			180		180	180		1
1C41P	Yanks Peak East	Middle Fraser	1683	2017-05-01	189	818		99%	619	863	365	1058	825	20
1C42	CAVERHILL LAKE	Middle Fraser	1400		NS	NS	NS	NS			172	172		2
1D06P	Tenquille Lake	Lower Fraser	1669	2017-05-01	328	1401		134%	953	912	526	1705	1047	16
1D08	STAVE LAKE	Lower Fraser	1211	2017-04-28	379	1918		127%	1210	62	62	3120	1513	50
1D09	WAHLEACH LAKE	Lower Fraser	1395		N	N	N	N	236	4	4	709	615	50
1D09P	Wahleach Lake Upper	Lower Fraser	1408	2017-05-01		632		61%	595	344	290	1757	1043	25
1D10	NAHATLATCH RIVER	Lower Fraser	1530	2017-04-28	371	1739		128%	1196	468	468	2720	1361	48
1D16	DICKSON LAKE	Lower Fraser	1147		N	N	N	N	876	4	4	3180	1553	26
1D17P	Chilliwack River	Lower Fraser	1621	2017-05-01	335	1769		117%	1253	675	675	2436	1513	25
1D19P	Spuzzum Creek	Lower Fraser	1197	2017-05-01	327	1881		115%	1119	162	162	2930	1635	18
1E01B	BLUE RIVER	North Thompson	673	2017-04-24	38	146		503%	0	0	0	265	29	33
1E02P	Mount Cook	North Thompson	1574	2017-05-01	322	1327		99%	1527	1184	684	1665	1346	17
1E03A	TROPHY MOUNTAIN	North Thompson	1907	2017-04-25	195	664		109%			417	960	607	42
1E05	KNOUFF LAKE	North Thompson	1189		NS	NS	NS	NS			0	142	45	10
1E07	ADAMS RIVER	North Thompson	1769	2017-04-26	248	934		129%	740	561	396	1173	726	46
1E08P	Azure River	North Thompson	1625	2017-05-01	281	1338		110%	1010	1312	528	1635	1214	20
1E10P	Kostal Lake	North Thompson	1760	2017-05-01		974		109%	903	813	417	1268	891	32
1E14P	Cook Creek	North Thompson	1280	2017-05-01	101	64			0		0	0		1
1F01A	ABERDEEN LAKE	South Thompson	1262	2017-05-03	12	47		247%			0	165	19	60
1F02	ANGLEMONT	South Thompson	1168		N	N	N	N	0		0	496	160	58
1F03P	Park Mountain	South Thompson	1857	2017-05-01	280	993	E	104%	890	854	379	1343	955	32
1F04P	Enderby	South Thompson	1950	2017-05-01	356	1146								0
1F06P	Celista Mountain	South Thompson	1533	2017-05-01	240	1114		122%	1013	847	506	1187	914	12
2A01A	CANOE RIVER	Upper Columbia	866		NS	NS	NS	NS			0	147	5	26
2A02	GLACIER	Upper Columbia	1249	2017-04-26	126	614		95%	481	497	320	1247	643	71
2A03A	FIELD	Upper Columbia	1310		NS	NS	NS	NS			0	178	20	52
2A06P	Mount Revelstoke	Upper Columbia	1770	2017-05-01		1383		109%	1117	1063	595	1625	1265	24
2A07	KICKING HORSE	Upper Columbia	1648	2017-04-26	105	322		109%	120	185	63	589	296	67

2A11	BEAVERFOOT	Upper Columbia	1924	2017-05-02	78	238		140%	44	0	0	495	170	68
2A14	MOUNT ABBOT	Upper Columbia	2031	2017-04-25	355	1495		111%	1063	1156	600	1885	1345	58
2A16	GOLDSTREAM	Upper Columbia	1914	2017-04-29	332	1339		112%	1039	1156	584	1781	1200	54
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	2017-04-27	315	1395		107%	1108	1181	590	1986	1306	54
2A18	KEYSTONE CREEK	Upper Columbia	1839	2017-04-29	264	1004		122%	705	734	414	1421	823	50
2A18P	Keystone Creek	Upper Columbia	1850	2017-05-01		1288			744		744	744		1
2A19	VERMONT CREEK	Upper Columbia	1533	2017-05-02	108	424		130%	180	0	0	1026	327	51
2A21P	Molson Creek	Upper Columbia	1930	2017-05-01		1144		104%	886	1054	481	1678	1100	36
2A22	SUNBEAM LAKE	Upper Columbia	2066	2017-04-29	268	1045		111%	762	922	469	1562	939	50
2A23	BUSH RIVER	Upper Columbia	1982	2017-04-29	256	993		119%	677	728	483	1392	834	50
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	2017-04-29	359	1540		124%	1162	1134	671	1797	1243	45
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	2017-04-29	129	584		113%	348		0	910	517	39
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	2017-04-29	378	1640		117%	1320	1112	335	2242	1402	39
2A30P	Colpitti Creek	Upper Columbia	2131	2017-05-01		1122			602		602	602		1
2A31P	Caribou Creek Upper	Upper Columbia	2201	2017-05-01		1214			795		795	795		1
2A32P	Wildcat Creek	Upper Columbia	2122	2017-05-01		751			442		442	442		1
2B02A	FARRON	Lower Columbia	1229	2017-04-25	80	309		169%	66	0	0	406	183	44
2B05	WHATSHAN (UPPER)	Lower Columbia	1476	2017-04-28	152	596		107%	374	405	255	983	557	56
2B06P	Barnes Creek	Lower Columbia	1595	2017-05-01		549		101%	550	487	272	821	541	24
2B07	KOCH CREEK	Lower Columbia	1813	2017-04-28	255	971		125%	701	615	391	1201	778	57
2B08P	St. Leon Creek	Lower Columbia	1822	2017-05-01		1394		125%	949	1023	536	1501	1113	24
2B09	RECORD MOUNTAIN	Lower Columbia	1906	2017-04-30	260	1080		149%	520	214	157	1278	727	42
2C01	SINCLAIR PASS	East Kootenay	1374	2017-04-27	8	30		81%	0	0	0	246	37	71
2C04	SULLIVAN MINE	East Kootenay	1580	2017-04-29	82	288		158%	54		0	518	182	70
2C07	FERNIE EAST	East Kootenay	1213	2017-04-29	53	202		149%	0	0	0	541	136	66
2C09Q	Morrissey Ridge	East Kootenay	1966	2017-05-01		812		121%	325	337	308	1332	670	37
2C10P	Moyie Mountain	East Kootenay	1840	2017-05-01	115	583		172%	0	110	18	689	338	38
2C14P	Floe Lake	East Kootenay	2110	2017-05-01		994		130%	528	690	331	1188	767	24
2C15	MOUNT ASSINIBOINE	East Kootenay	2230		N	N	N	N	434		270	930	566	47
2C16	MOUNT JOFFRE	East Kootenay	1763	2017-05-02	107	362		105%	216	36	36	772	346	48
2C17	THUNDER CREEK	East Kootenay	2062	2017-05-02	116	360		133%	189	197	163	556	271	48
2D02	FERGUSON	West Kootenay	929		N	N	N	N	313	333	160	773	429	70
2D03	SANDON	West Kootenay	1072	2017-05-01	36	132	B	293%	0	0	0	399	45	67
2D04	NELSON	West Kootenay	952	2017-04-27	15	67		47%	0		0	508	143	59
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	2017-04-28	133	512		119%	305	269	229	726	429	68
2D06	CHAR CREEK	West Kootenay	1290	2017-04-29	134	549		122%	287	134	79	838	449	51
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662		NS	NS	NS	NS			0	42	14	5
2D08P	East Creek	West Kootenay	2004	2017-05-01		1164		128%	794	933	480	1346	910	36
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	2017-04-28	310	1240		115%	903	958	520	1679	1075	50
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	2017-04-28	246	946		123%	648	657	505	1300	767	47
2D14P	Redfish Creek	West Kootenay	2086	2017-05-01	540	2035		157%	1494	1409	751	1863	1298	15
2E01	MONASHEE PASS	Kettle	1387	2017-04-28	90	305		115%	114	193	67	505	266	59

2E02	CARMI	Kettle	1254	2017-04-26	0	0		0%	0	0	0	173	12	53
2E03	BIG WHITE MOUNTAIN	Kettle	1672	2017-04-26	163	547		121%	340	249	237	762	451	51
2E07P	Grano Creek	Kettle	1874	2017-05-01		708		126%	546	424	285	814	561	19
2F01A	TROUT CREEK (West)	Okanagan	1430	2017-04-30	52	160		143%	30		93	292	112	6
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	2017-04-28	50	185		220%	0	0	0	368	84	52
2F03	MC CULLOCH	Okanagan	1266	2017-04-28	9	42		350%	0		0	188	12	69
2F04	GRAYSTOKE LAKE	Okanagan	1818	2017-05-02	137	450		131%	232		120	940	343	43
2F05P	Mission Creek	Okanagan	1794	2017-05-01		590		123%	471	407	141	784	481	47
2F07	POSTILL LAKE	Okanagan	1358	2017-04-28	56	191		158%	0	50	0	282	121	65
2F08P	Greyback Reservoir	Okanagan	1550	2017-05-01	82	270								0
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2017-04-30	182	708		151%	456	339	175	1013	470	46
2F10P	Silver Star Mountain	Okanagan	1839	2017-05-01	290	809			784		784	784		1
2F11	ISINTOK LAKE	Okanagan	1651	2017-05-03	59	174		178%	0	0	0	437	98	52
2F12	MOUNT KOBAN	Okanagan	1817	2017-04-29	133	468		151%	300	204	53	597	309	51
2F13	ESPERON CR (UPPER)	Okanagan	1634	2017-04-30	132	456		132%	346	228	119	805	346	47
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	2017-04-30	101	372		172%			0	551	216	31
2F18P	Brenda Mine	Okanagan	1453	2017-05-01		288		225%	7	0	0	342	128	24
2F19	OOYAMA LAKE	Okanagan	1365	2017-04-30	28	84		153%	0		0	185	55	47
2F20	VASEUX CREEK	Okanagan	1403	2017-04-29	22	96		234%	0	0	0	192	41	45
2F21	BOULEAU LAKE	Okanagan	1405	2017-04-29	102	344		137%	16	80	40	488	251	46
2F23	MACDONALD LAKE	Okanagan	1742	2017-04-28	163	590		140%	420		198	650	421	39
2F24	ISLAHT LAKE	Okanagan	1492	2017-05-01	102	320		137%	189	76	64	433	234	35
2F25	POSTILL LAKE UPPER	Okanagan	1500		N	N	N		0		0	0		3
2G03P	Blackwall Peak	Similkameen	1934	2017-05-01	203	812		106%	663	593	375	1569	768	49
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	2017-04-26	88	236	B	110%	10	235	64	554	215	57
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2017-04-27	71	206	B	202%	0	0	0	323	102	57
2G06	HAMILTON HILL	Similkameen	1477	2017-04-26	69	254	B	134%	0	0	0	838	190	57
3A01	GROUSE MOUNTAIN	South Coast	1126	2017-04-26	379	1730		148%	752	0	0	2870	1170	67
3A02	POWELL RIVER (UPPER)	South Coast	1002		NS	NS	NS				533	1712	783	9
3A05	POWELL RIVER (LOWER)	South Coast	882		NS	NS	NS				181	426	349	7
3A09	PALISADE LAKE	South Coast	898	2017-04-28	321	1648		128%	670	0	0	3600	1291	67
3A10	DOG MOUNTAIN	South Coast	1007	2017-04-27	346	1762		155%	662	0	0	2760	1137	33
3A19	ORCHID LAKE	South Coast	1178	2017-04-28	474	2423		130%	1453	100	100	3845	1866	45
3A20	CALLAGHAN CREEK	South Coast	1009		N	N	N		598	0	0	1568	711	40
3A22P	Nostetuko River	South Coast	1457	2017-05-01	101	527		97%	355	201	201	1053	542	28
3A24P	Mosley Creek Upper	South Coast	1655	2017-05-01	77	319		126%	19	309	143	532	254	28
3A25P	Squamish River Upper	South Coast	1387	2017-05-01		1775		111%	1459	695	695	2910	1597	27
3A26	CHAPMAN CREEK	South Coast	1022		N	N	N				756	1710	262	8
3A27	EDWARDS LAKE	South Coast	1070		N	N	N				400	1180	176	6
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	2017-04-28	321	1507		100%	1386	0	0	3500	1507	60
3B02A	MOUNT COKELY	Vancouver Island	1267		N	N	N		100	0	0	2062	813	35
3B04	ELK RIVER	Vancouver Island	270	2017-04-28	0	0			0	0	0	40	0	33



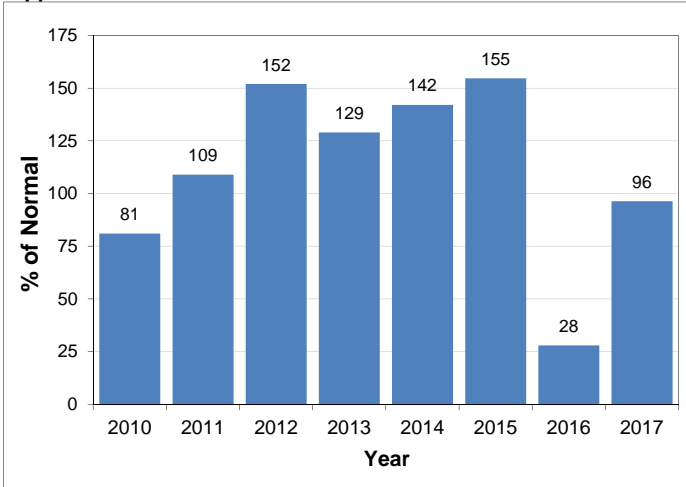
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	2017-04-28	304	1460	A	98%	1136	0	0	3560	1484	59
3B17P	Wolf River Upper	Vancouver Island	1422	2017-05-01		1373		101%	1112	374	374	2691	1356	35
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	2017-04-28	144	586		107%	120	0	0	1652	546	47
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	2017-04-28	15	62		46%	0	0	0	1118	134	47
3B23P	Jump Creek	Vancouver Island	1134	2017-05-01	268	1432		121%	426	0	0	3485	1180	21
3B24P	Heather Mountain Upper	Vancouver Island	1190	2017-05-01	334	1933			1248		1248	1248		1
3B26P	Mount Arrowsmith	Vancouver Island	1465	2017-05-01	292									0
3C07	WEDEENE RIVER SOUTH	North Coast	196	2017-04-28	6	36		26%	0	0	0	749	136	29
3C08P	Burnt Bridge Creek	North Coast	1329	2017-05-01	148	729		94%	392	791	382	1464	776	19
3D01C	SUMALLO RIVER WEST	Skagit	801	2017-04-28	24	96		145%	0	0	0	371	66	24
3D02	LIGHTNING LAKE	Skagit	1254	2017-04-27	60	213	B	96%	155	92	7	599	223	45
3D03A	KLESILKWA	Skagit	1134	2017-04-28	26	105		102%	0	0	0	752	103	44
4A02P	Pine Pass	Peace	1386	2017-05-01	239	959		89%	956	977	363	1704	1072	28
4A03	WARE (UPPER)	Peace	1563	2017-04-28	80	213		78%	149	237	90	402	274	56
4A03P	Ware Upper	Peace	1565	2017-05-01	74	216								0
4A04	WARE (LOWER)	Peace	969	2017-04-28	22	71		57%	13	92	0	229	124	55
4A04P	Ware Lower	Peace	971	2017-05-01	20	36								0
4A05	GERMANSEN (UPPER)	Peace	1489	2017-04-27	90	238		67%	259	220	156	597	355	56
4A06	TUTIZZI LAKE	Peace	1043	2017-04-27	22	83		54%	0	104	0	325	155	54
4A07	LADY LAURIER LAKE	Peace	1460	2017-04-29	132	439		79%	425	545	194	926	555	54
4A09	PULPIT LAKE	Peace	1331	2017-04-28	99	325		78%	270	429	152	623	418	54
4A09P	Pulpit Lake	Peace	1331	2017-05-01	77	258		63%	183	384	133	633	407	27
4A10	FREDRICKSON LAKE	Peace	1323	2017-04-27	47	131		57%	87	226	93	358	231	54
4A11	TRYGVGE LAKE	Peace	1409	2017-04-27	90	267		70%	220	418	119	599	381	54
4A12	TSAYDAYCHI LAKE	Peace	1173	2017-04-27	99	328		85%	250	316	166	700	386	54
4A13	PHILIP LAKE	Peace	1013	2017-04-27	30	89		45%	52	81	0	406	196	54
4A16	MORFEE MOUNTAIN	Peace	1427	2017-04-26	150	606		75%	597	803	265	1181	812	48
4A18	MOUNT SHEBA	Peace	1480	2017-04-26	202	805		90%	591	867	369	1371	891	48
4A20	MONKMAN CREEK	Peace	1566	2017-04-26	180	603		104%	337	653	190	1042	580	43
4A21	MOUNT STEARNS	Peace	1514	2017-04-28	78	206		141%	17	157	0	271	146	43
4A25	FORT ST. JOHN A	Peace	692	2017-04-27	0	0	T				0	56	0	27
4A27P	Kwadacha North	Peace	1554	2017-05-01	113	267								0
4A30P	Aiken Lake	Peace	1061	2017-05-01	17	123		68%	17	167	71	313	181	32
4A31P	Crying Girl Prairie	Peace	1358	2017-05-01		313			0		0	0		1
4A33P	Muskwa-Kechika	Peace	1196	2017-05-01		101			0		0	0		1
4A34P	Dowling Creek	Peace	1456	2017-05-01		444								0
4B01	KIDPRICE LAKE	Skeena-Nass	1415	2017-05-01	241	997		105%	593	1076	551	1591	951	64
4B02	JOHANSON LAKE	Skeena-Nass	1480	2017-04-27	81	226		75%	200	291	108	433	301	54
4B03A	HUDSON BAY MTN.	Skeena-Nass	1452	2017-05-02	126	443		87%	272	548	168	795	509	45
4B04	CHAPMAN LAKE	Skeena-Nass	1485	2017-05-01	127	463		98%	286	484	308	749	473	50
4B06	TACHEK CREEK	Skeena-Nass	1133	2017-05-03	45	130		74%	58	240	55	363	175	48
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	2017-05-01	45	158		71%	72	266	80	422	223	49

4B08	MOUNT CRONIN	Skeena-Nass	1491	2017-05-01	174	595			97%	429	560	422	1125	616	48
4B10	NINGUNSAW PASS	Nass	647		N	N	N	N		0		0	676	263	39
4B11A	BEAR PASS	Nass	437		N	N	N	N		0		256	860	541	25
4B12P	Granduc Mine	Skeena-Nass	790	2017-05-01	327	82									0
4B13A	TERRACE A	Skeena-Nass	219	2017-04-28	0	0			0%			0	68	14	7
4B14	EQUITY MINE	Skeena-Nass	1434	2017-04-28	130	434			116%	220	535	212	690	373	40
4B15	LU LAKE	Skeena-Nass	1296	2017-04-28	91	276			103%	132	390	144	528	267	39
4B15P	Lu Lake	Skeena-Nass	1308	2017-05-01	80	320			141%	106	455	79	517	227	19
4B16P	Shedin Creek	Skeena-Nass	1320	2017-05-01	143	514			53%	487	669	195	1310	972	21
4B17P	Tsai Creek	Skeena-Nass	1360	2017-05-01		1053			81%	834	1310	302	2081	1307	19
4B18P	Cedar-Kiteen	Skeena-Nass	912	2017-05-01	55	267			44%	11	325	178	1075	612	16
4C01	SIKANNI LAKE	Liard	1390	2017-04-28	64	171			64%	88	278	78	404	266	54
4C01P	Sikanni Lake	Liard	1400	2017-05-01	53	159									0
4C02	SUMMIT LAKE	Liard	1291	2017-05-02	47	120			273%	0	72	0	200	44	52
4C03	DEASE LAKE	Liard	805		N	N	N	N		0		0	178	38	50
4C05	FORT NELSON AIRPORT	Liard	368		N	N	N	N				0	103	12	32
4C15	JADE CITY	Liard	943		N	N	N	N		0	136	28	350	189	15
4D01	TELEGRAPH CREEK	Stikine	490		N	N	N	N		0	0	0	163	23	42
4D02	ISKUT	Stikine	931		NS	NS	NS	NS				0	146	18	25
4D11P	Kinaskan Lake	Stikine	1020	2017-05-01	62	262			74%	114	305	0	305	352	21
4E02B	ATLIN LAKE	Yukon	730		N	N	N	N		0	0	0	140		11

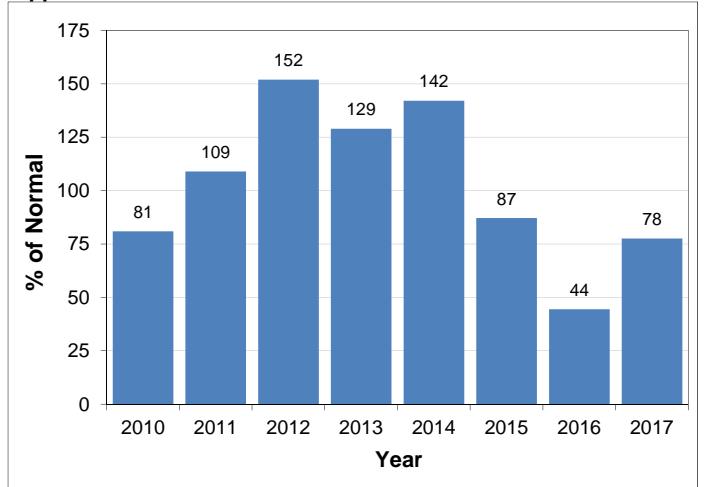
Code	Description
A	Sampling problems were encountered
B	Early or late sampling
C	Early or late sampling w/problems encountered
E	Estimate
N	Scheduled, but not sampled
NA	Not available
NS	Not scheduled
SD	Snow Depth
SWE	Snow Water Equivalent
T	Trace Amount

# Snow Basin Index Graphs - May 1, 2017

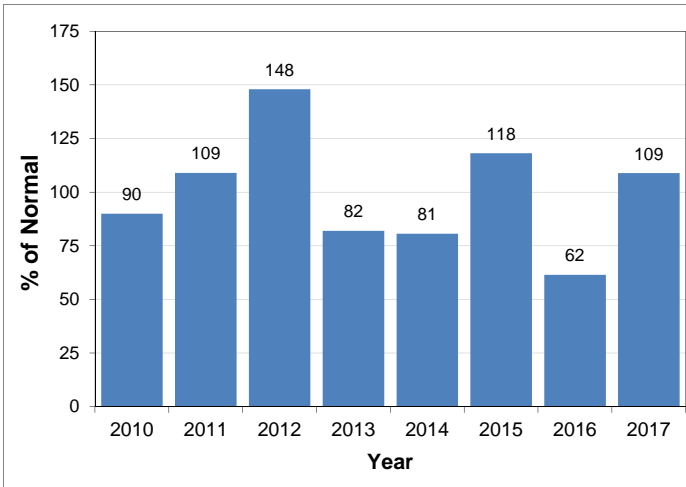
## Upper Fraser West



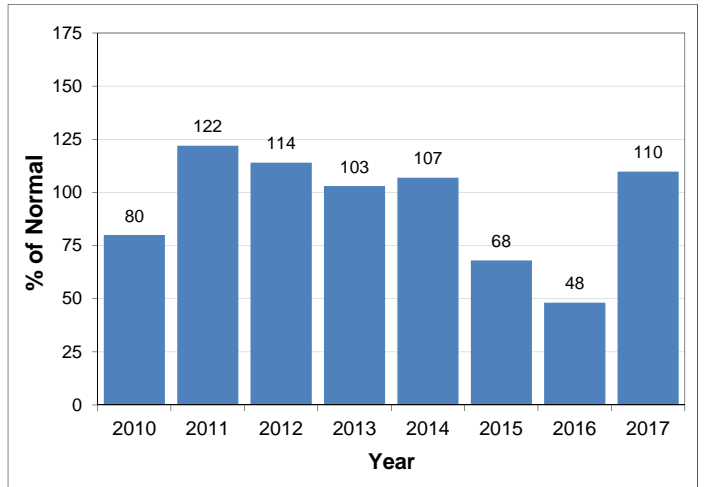
## Upper Fraser East



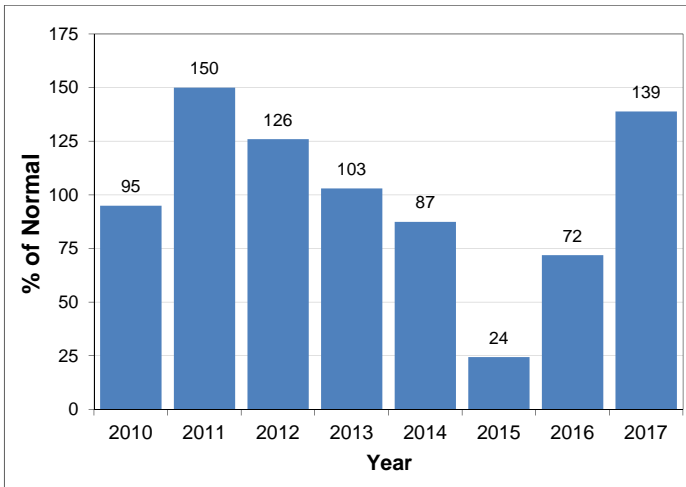
## Nechako



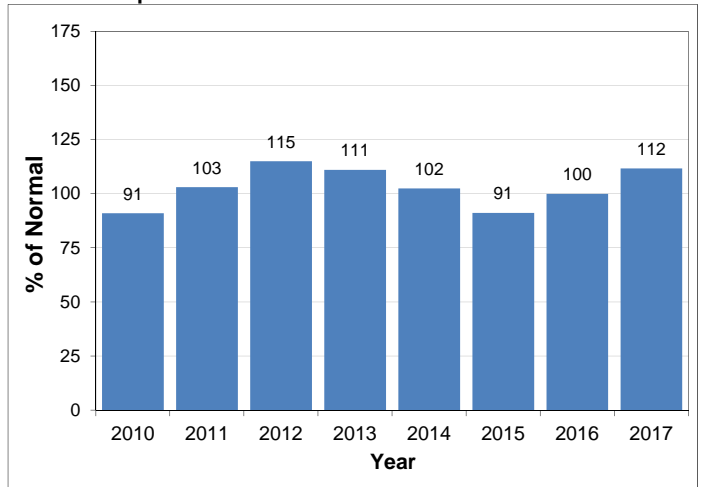
## Middle Fraser



## Lower Fraser

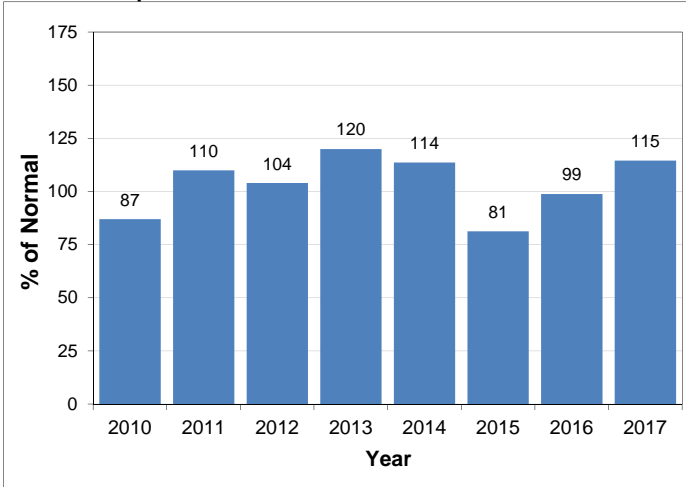


## North Thompson

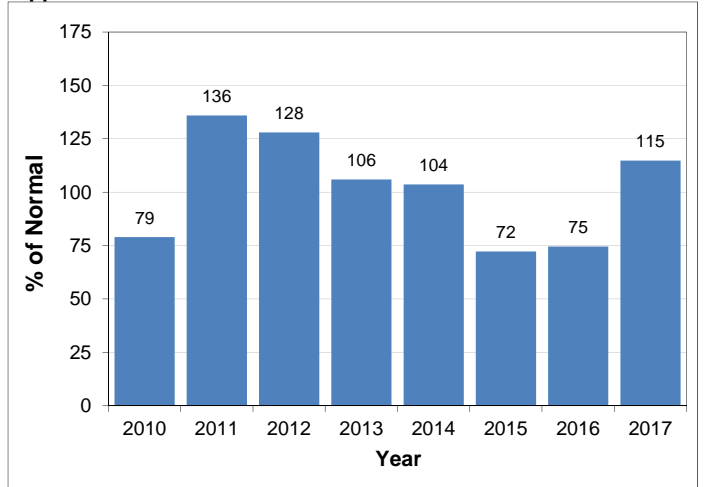


# Snow Basin Index Graphs - May 1, 2017

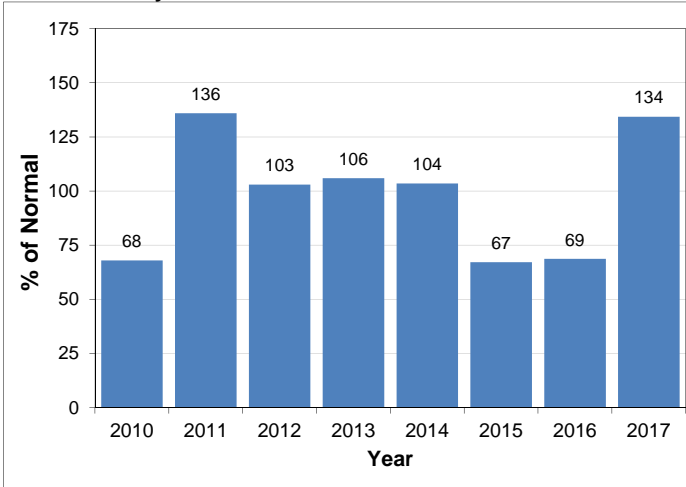
## South Thompson



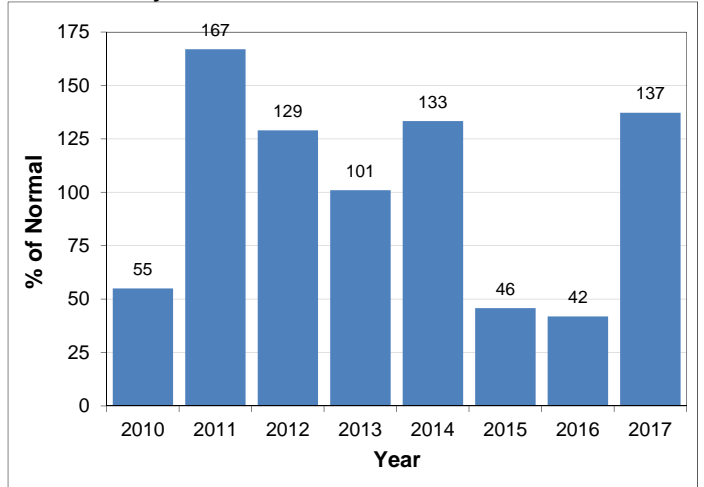
## Upper Columbia



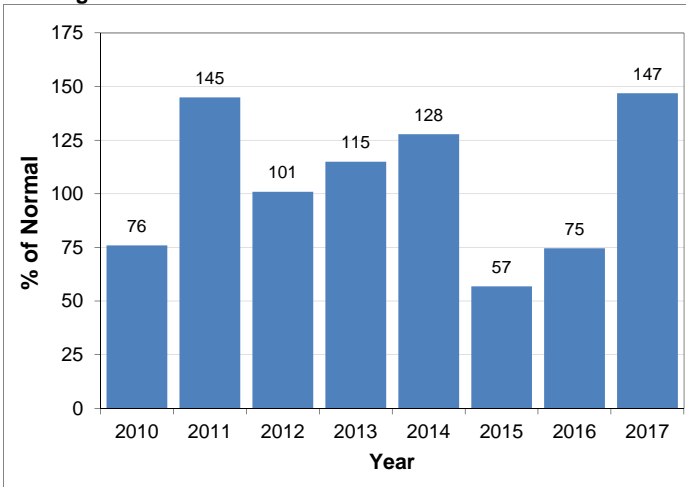
## West Kootenay



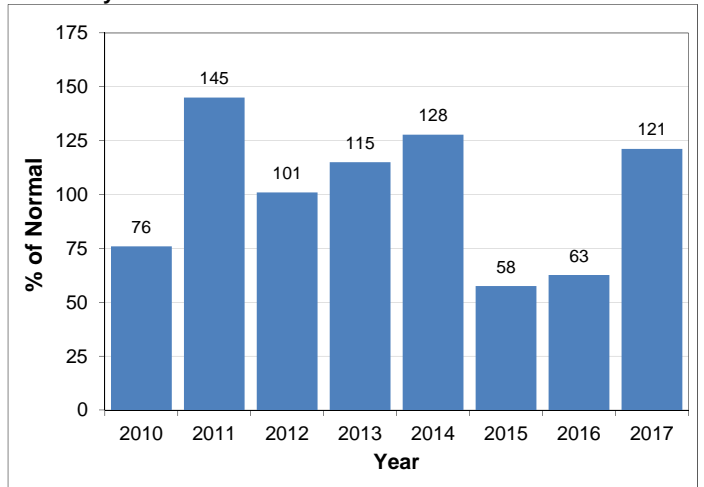
## East Kootenay



## Okanagan

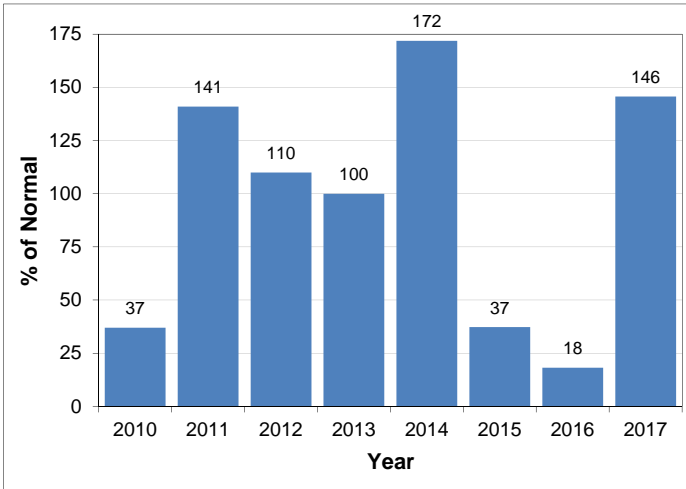


## Boundary

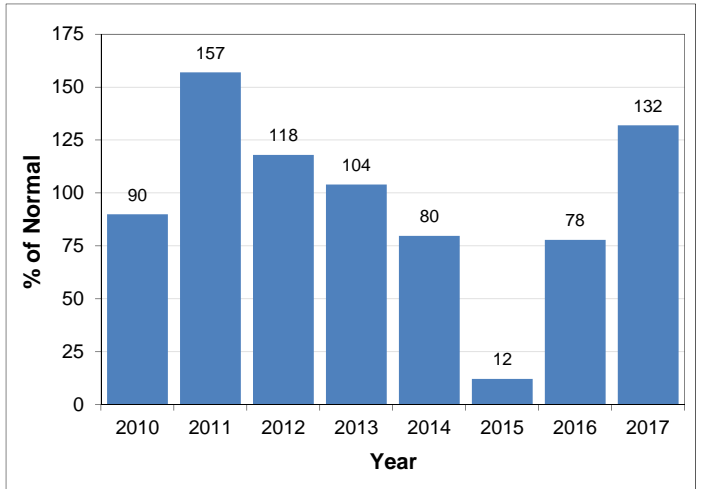


# Snow Basin Index Graphs - May 1, 2017

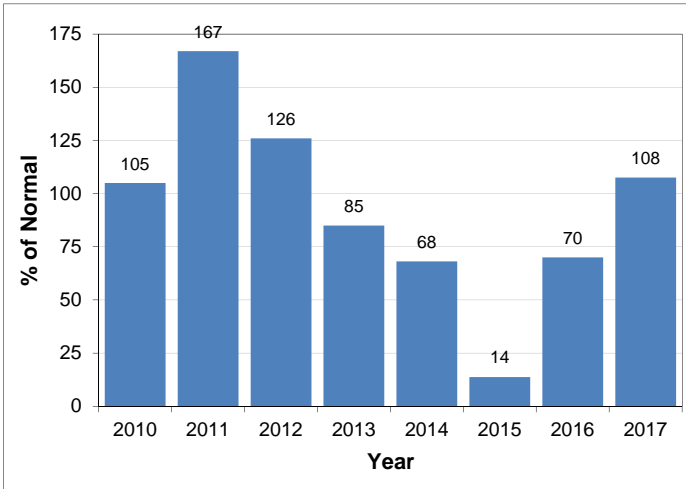
## Similkameen



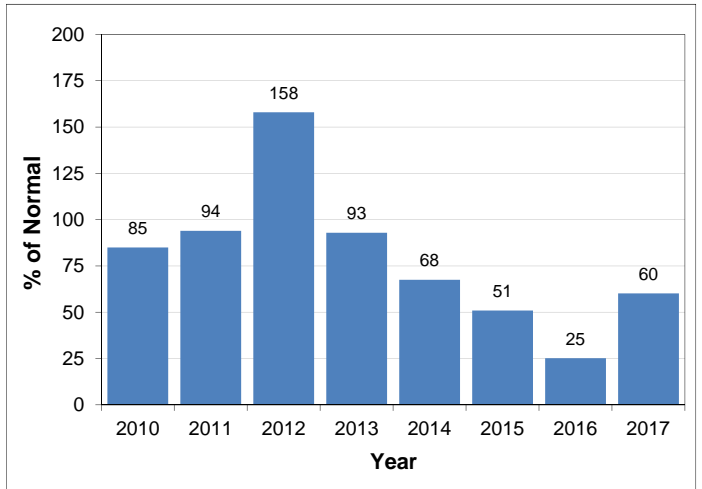
## South Coast



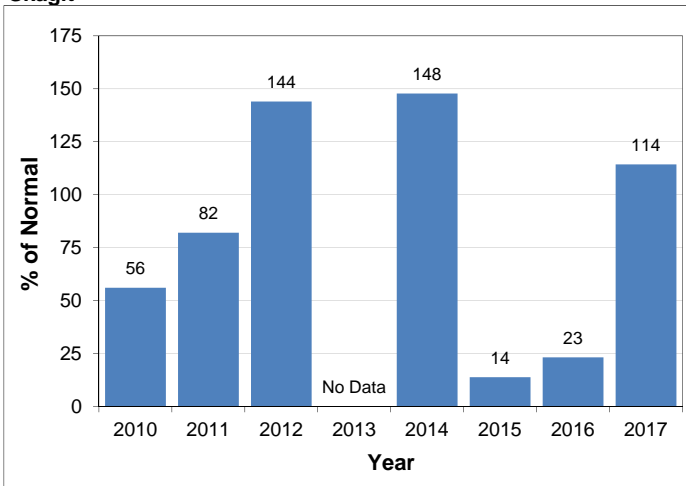
## Vancouver Island



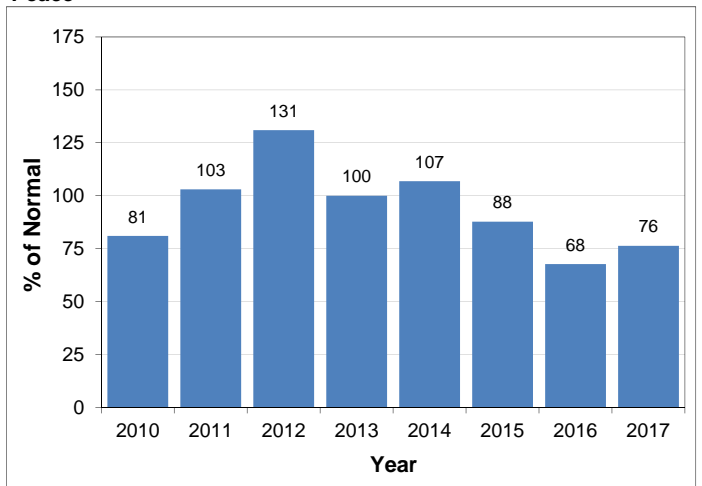
## Central Coast



## Skagit

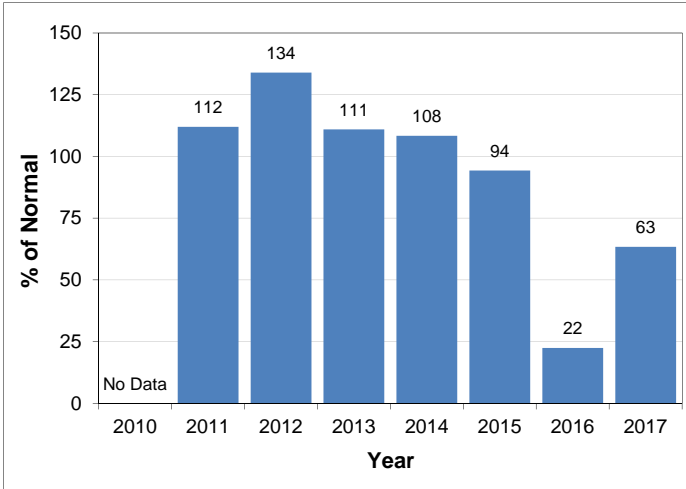


## Peace

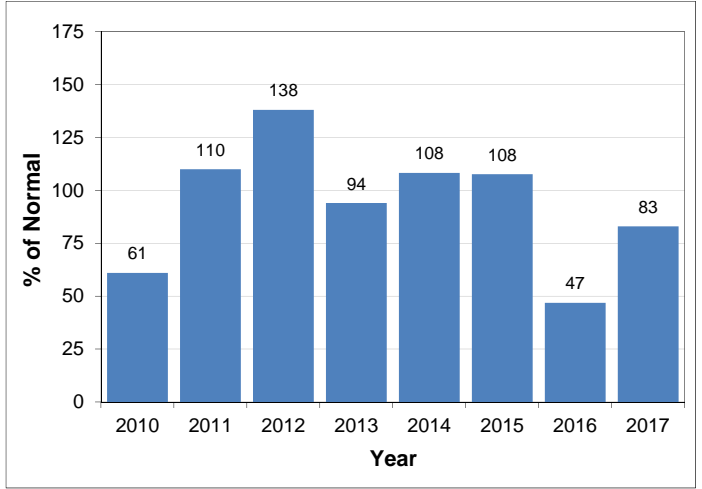


## Snow Basin Index Graphs - May 1, 2017

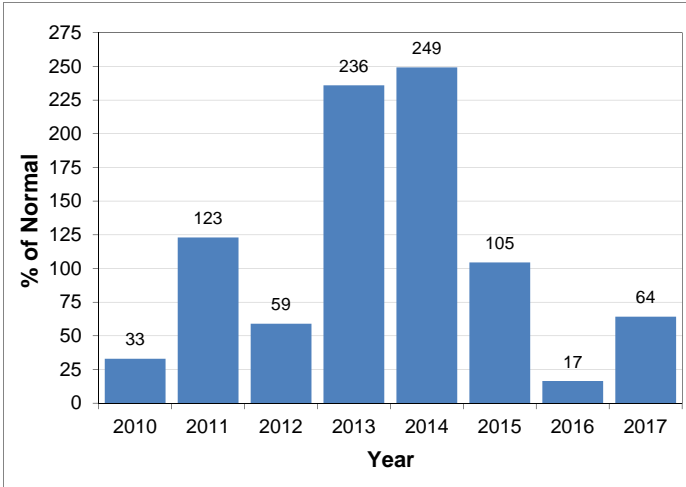
### Stikine



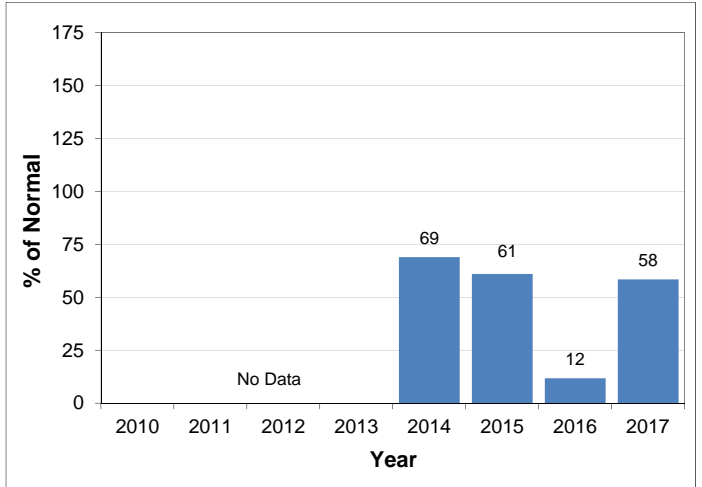
### Skeena-Nass



### Liard



### Northwest





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

Location	May - Jun Runoff				May - Jul Runoff				May - 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				3273	3534	93%	297	4787	5000	96%	373
	McGregor at Lower Canyon				2973	3552	84%	376	4016	4598	87%	563
	Fraser at Shelley				12443	13672	91%	1070	16608	17732	94%	1657
Middle Fraser Basin	Quesnel River at Quesnel				3848	4117	93%	396	5156	5448	95%	574
Thompson Basin	N. Thompson at McLure				8947	8209	109%	425	11406	10379	110%	785
	S. Thompson at Chase				5835	5298	110%	403	7627	6865	111%	659
	Thompson at Spences Bridge				15524	13923	111%	825	20211	17903	113%	1510
Bulkley and Skeena	Bulkley at Quick				2431	2383	102%	185	3045	2980	96%	220
	Skeena at Usk				16569	17317	96%	964	21131	21661	98%	1463
Nicola Lake	Inflows	168	105	161%	28	195	122	160%	33			
Nicola River	at Spences Bridge	644	409	157%	76	769	476	161%	98			
Okanagan and Kalamalka-Wood Lake	Okanagan Lake Inflow	502	349	144%	81	554	376	147%	103			
	Kalamalka-Wood Lake Inflow	24	19	124%	8	26	20	127%	11			
Similkameen River	Similkameen at Nighthawk	1299	1101	118%	152				1695	1411	120%	193
	Similkameen at Hedley	1015	827	123%	91				1268	1015	125%	105
Cowichan River	Cowichan Lake Inflows	109	118	93%	45				130	153	85%	45

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.

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