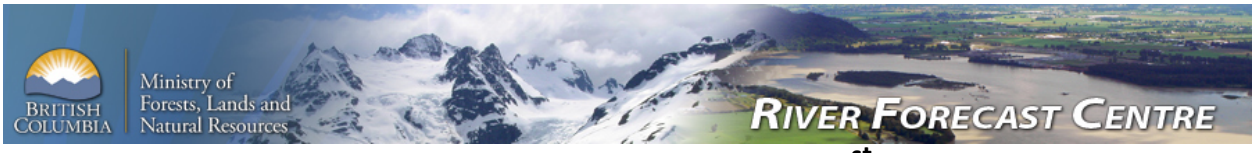

Snow Survey and Water Supply Bulletin – May 1st, 2015

The May 1st snow survey is now complete. Data from 123 snow courses and 49 snow pillows around the province and climate data from Environment Canada have been used to form the basis for the following report[1].

Weather

Temperatures across British Columbia continued to be above average through the month of April. Temperatures were typically 1 to 3°C above normal along coastal areas of BC, the northern interior, northeast, and southern interior. Temperatures were 3 to 5°C above normal in the Columbia and Kootenay regions. Short episodes of cooler temperatures, due to the passage of cold low pressure systems, have resulted in lingering winter-like conditions in some areas of the north. Current sea surface temperature anomalies in the Pacific Ocean off the shores of British Columbia have continued to be 1 to 3°C degrees above normal.

Precipitation trends during April in the northern interior and along the central and northern coasts ranged from 100 to 250% of average conditions. These precipitation events have come as rain and snow depending on the warmth of the system. Conditions in the southern interior, south coast, and Vancouver Island were much drier, ranging from 17 to 75% of average conditions as measured at Environment Canada meteorological stations in BC.

Snow Pack

April snow accumulation in the northern areas of BC has resulted in increased or stable snow basin indices through the month. Increased snow basin indices were recorded in the Nechako (+12%), Skeena-Nass (+16%), Stikine (+26%), Upper Fraser West (+35%), and Liard (+1%) basins due to snow accumulation associated with the cold low systems that affected the northern area of BC (Table 1). The Peace region has also experienced late season snow fall but this has not resulted in notable increases to the entire basin snow index.

Declines in snow basin indices were observed in all other basins with substantial decreases in the Similkameen (-35%), East Kootenay (-30%), and Central Coast (-29%) between the March and April surveys. The main cause of the rapidly reducing snow pack in these regions was the generally warm and dry conditions in the southern portions of the province.

The May 1st snow basin indices indicate the northern basins are above- or near-normal (except for the Northwest basin at 67% of normal) with the Upper Fraser and Nechako notably well above average conditions (Figure 1). Snow indices in the Thompson River basin remain close to average conditions for this time of year. Snow indices in the central and southern interior are all low, between 50 and 70% of average conditions. The Columbia, West and East Kootenay snow basins have all decreased since the April update and are below normal with conditions in the East Kootenay being particularly low at 46% of average conditions. Snow basin indices in the southwest portion of the province remain extremely low, continuing the low snow pack conditions of the winter of 2014-2015. Basins with record

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Snow Survey and Water Supply Bulletin – May 1st, 2015

low snow basin indices for the May 1st snow survey (since 1985) include the West and East Kootenay, Okanagan, Similkameen, Lower Fraser, South Coast, and Vancouver Island (Table 1).

The average of all provincial snow water equivalent measurements for May 1st is 69% of average conditions. This is the lowest province-wide average for the May 1st bulletin in the past 31 years of record and is primarily due to the record low snow packs in the southern areas of the province.

Table 1 - BC Snow Basin Indices – May 1, 2015

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	155	Boundary	58
Upper Fraser East	87	Similkameen	37*
Nechako	118	South Coast	12*
Middle Fraser	68	Vancouver Island	14*
Lower Fraser	24*	Central Coast	51
North Thompson	91	Skagit	14
South Thompson	81	Peace	88
Upper Columbia	72	Skeena-Nass	108
West Kootenay	67*	Stikine	94
East Kootenay	46*	Liard	105
Okanagan	57*	Northwest	61

*indicates record low snow basin index for May 1 snow survey (1985-2015)

As most snow basin indices are based on observations at higher elevations (e.g. 1100m to 2000m), indices reported here may not fully reflect the snow pack situation at low to mid-elevation. Field observations around the province indicate that snow packs at valley bottom to mid-elevation (e.g. 800 to 1100m) have mostly melted and recent accumulations at these elevations in the north have also melted.

Streamflow Runoff

Early season warmth and relatively dry conditions in late March through April resulted in seasonally high flows in many of the interior rivers and in some cases record high flows for early April, although below levels of concern for flooding. However, with high elevation temperatures remaining seasonal, most of the large interior rivers have returned to flow conditions typical of early May and remain below levels of concern.

Seasonal melt of particularly high snow packs have resulted in high flow conditions on the Nautley and upper Nechako Rivers. The high flow conditions are likely to persist through June depending on the spring precipitation conditions. Due to the early melt of low and mid-elevation snow pack throughout most of the province, smaller, low elevation, ungauged basins may have already passed through peak flows for the freshet season.

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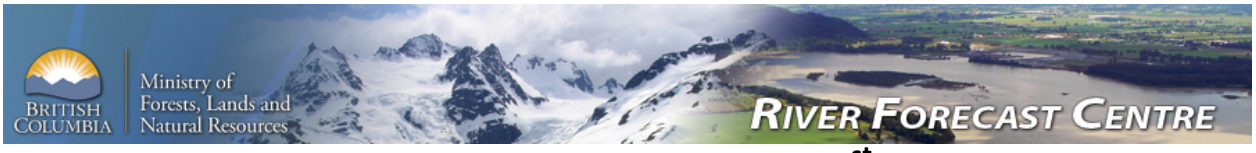

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Outlook

Warm Pacific Ocean temperatures persist off the BC coast. El Nino conditions are present in the equatorial Pacific and there is a 70% chance that El Nino conditions will persist into the summer. Based on a mid-April summary, NOAA is suggesting that the influence of El Niño through the spring will continue to be weak and possibly strengthen through the summer of 2015. Environment Canada is forecasting a very high likelihood of above normal temperatures over the May to July period across British Columbia, particularly for the coastal and southeastern areas of the province.

Typically by early May, all of the annual BC snow pack has accumulated and the snow pack begins to decrease. Late season accumulations in April in the north have resulted in stable or increased snow packs in some areas of the north of BC. It is expected the melt of the high elevation snow pack will increase in the next week to 10 days due to expected warm and dry conditions forecast for most of the province.

At a basin-wide scale, much higher than normal snow packs in the Upper Fraser West basin indicate increased seasonal flood risk in the Nechako basin this year. Elsewhere in the province, the seasonal flood risk is about normal in the Peace, Liard, Upper Fraser East, Skeena-Nass, Stikine, and Thompson basins due to close to normal snow basin indices. Below normal snow packs (50 to 80%) in the Middle Fraser, Upper Columbia, West Kootenay, Okanagan, Boundary, Central Coast, Stikine, and Northwest indicate below normal seasonal flood risk for these regions.

Similarly, seasonal flood risk for the entire Fraser River is below normal, with the observed 79% of normal snow basin index being the 58th lowest year out of the past 63 years of snow observations. The forecast peak flow for the Fraser River at Hope, given normal seasonal weather, is estimated to be in the range of 7000 to 8000 m^3/s, or slightly below mean annual flood level.

Flooding is always possible during the snow melt freshet season, even in areas with normal or lower than normal snow packs. Given the snow conditions this year for most of the province, extreme weather, such as extreme precipitation or combined hot and wet weather, would be required to produce flooding or higher than expected flows in most areas of the province.

With extremely low snow packs in the Lower Fraser, South Coast, Similkameen, East Kootenay, Skagit and Vancouver Island, runoff from snow melt will be limited. Seasonal low flows are expected to occur earlier than normal this year, very low flows can be expected in the summer unless significant rainfall occurs through the spring and summer. Lower than normal snow packs in the West Kootenay, East Kootenay, Boundary, Similkameen, Okanagan, Northwest indicate an increased likelihood of summer low flows in these regions as well. A summary of seasonal volume runoff forecasts for select rivers in the province is

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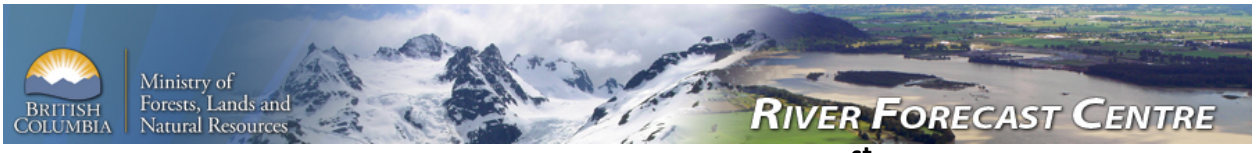

Snow Survey and Water Supply Bulletin – May 1st, 2015

included below. Slightly below average seasonal runoff is forecast for most basins, with very low runoff forecast for the Nicola (58 to 73% of normal), Kalamalka-Wood (33 to 42% of normal), Okanagan (71% to 74% of normal) and Cowichan (46 to 54% of normal).

The River Forecast Centre will continue to monitor snow pack conditions and streamflow across the province. Snow melt "Freshet" information, including stream flow mapping, is available at: http://bcrfc.env.gov.bc.ca/freshet/index.htm. The next Snow Survey and Water Supply Bulletin is scheduled for release on Thursday, May 21st.

BC River Forecast Centre
May 7, 2015

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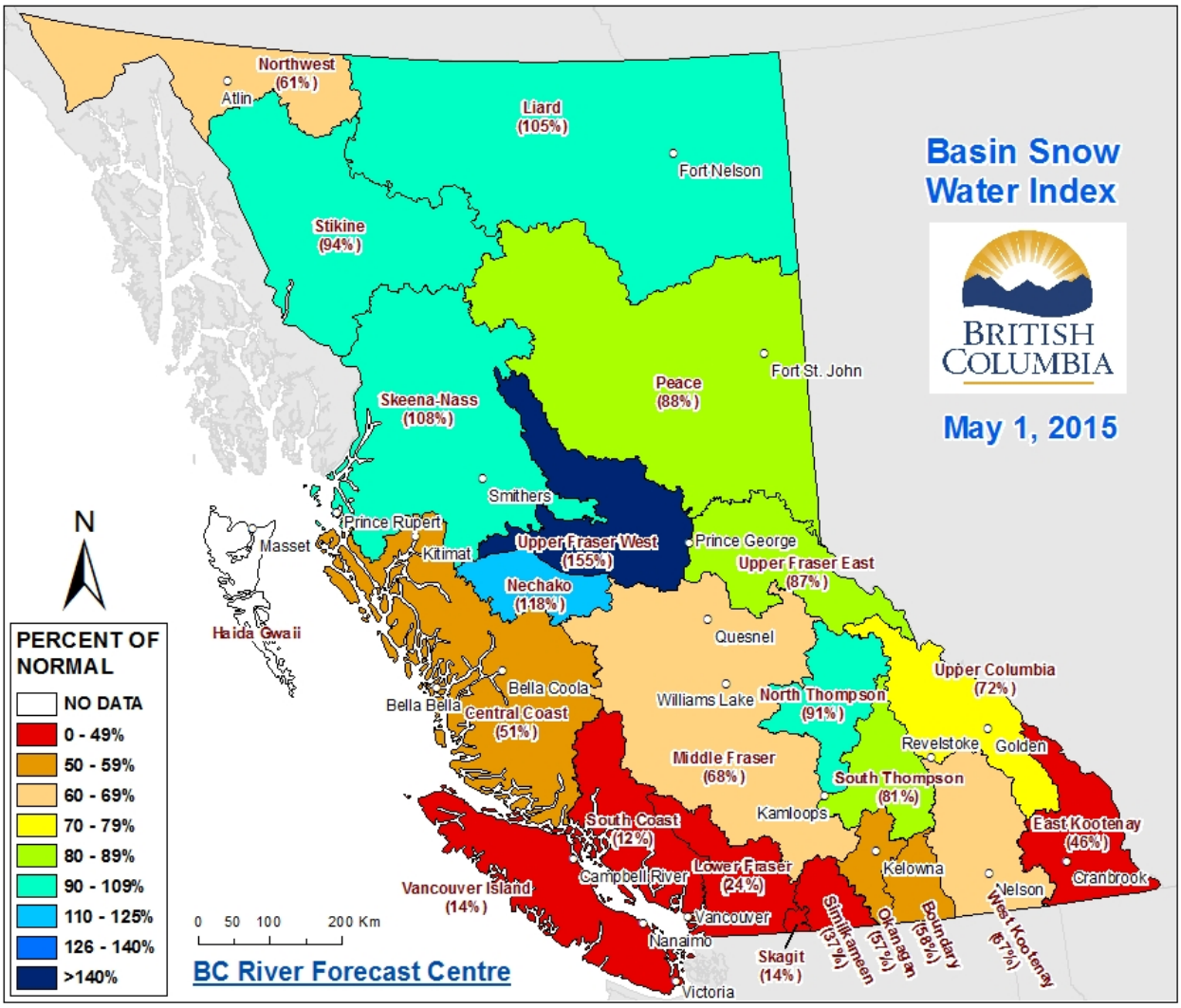
Snow Survey and Water Supply Bulletin – May 1st, 2015

Figure 1: Basin Snow Water Index Map – May 1st, 2015



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2015 Automated Snow Pillow/Manual Snow Survey Data				May					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	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	YELLOWHEAD LAKE	Upper Fraser East	1847	2015-05-01	136	537		95%	606	571	364	833	565	16
1A02P	MC BRIDE (UPPER)	Upper Fraser East	1608	2015-05-01	148	503		109%	611	532	239	749	462	21
1A03P	BARKERVILLE	Upper Fraser East	1483	2015-05-01	46	200		58%	473	388	165	604	346	38
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	NS					1252	1370	391	1370	830	59
1A06A	HANSARD	Upper Fraser East	622	NS					100	NS	NA	NA	NA	0
1A10	PRINCE GEORGE A	Upper Fraser East	684	NS						NS	0	216	10	40
1A11	PACIFIC LAKE	Upper Fraser East	756	2015-04-30	46	207		41%	840	NS	93	976	507	47
1A12	KAZA LAKE	Upper Fraser West	1247	2015-04-29	93	328		100%	411	363	166	481	328	48
1A14P	HEDRICK LAKE	Upper Fraser East	1118	2015-05-01	144	531		65%	1438	1268	585	1279	820	13
1A15	KNUDSEN LAKE	Upper Fraser East	1598	NS					1114	1076	501	1346	868	46
1A16	BURNS LAKE	Upper Fraser West	820	2015-04-29	2	8		31%	6	26	0	148	26	36
1A17P	REVOLUTION CREEK	Upper Fraser East	1676	2015-05-01	257	837		104%	1353	1094	486	1349	804	28
1A19P	DOME MOUNTAIN	Upper Fraser East	1768	2015-05-01	212	831		103%	1068	944	570	1163	810	7
1A23	BIRD CREEK	Upper Fraser West	1196	2015-05-02	34	130		333%		0	0	204	39	23
1B01	MOUNT WELLS	Nechako	1489	2015-05-02	170	663		136%		471	201	958	487	56
1B01P	MOUNT WELLS	Nechako	1489	2015-05-01	N/A	805		141%	602	504	311	919	569	21
1B02	TAHTSA LAKE	Nechako	1319	2015-05-02	304	1323		105%		957	701	2073	1256	59
1B02P	TAHTSA LAKE	Nechako	1319	2015-05-01	N/A	1351		99%	1017	969	826	2348	1362	21
1B05	SKINS LAKE	Nechako	877	NS						0	0	100	3	43
1B06	MOUNT SWANNELL	Nechako	1596	2015-05-02	102	377		131%		303	109	499	287	23
1B07	NUTLI LAKE	Nechako	1502	2015-05-02	143	547		107%		294	250	870	513	22
1B08P	MOUNT PONDOSY	Nechako	1413	2015-05-01	N/A	1014		128%	489	539	399	1277	794	21
1C01	BROOKMERE	Middle Fraser	994	2015-04-27	0	0			42	66	0	419	65	67
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	2015-05-04	74	362		63%	381	488	270	1118	573	61
1C06	PAVILION	Middle Fraser	1209	NS						0	0	0	0	14
1C08	NAZKO	Middle Fraser	1029	NS						NS	0	46	3	24
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	NS						NS	0	142	20	47
1C12P	GREEN MOUNTAIN	Middle Fraser	1766	2015-05-01	N/A	711		78%	628	691	579	1373	909	19
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	2015-04-29	87	372		91%	690	650	136	676	408	43
1C14	BRALORNE	Middle Fraser	1382	NS					98	84	0	255	58	50
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2015-04-28	40	142		55%	351	299	118	536	257	51
1C18P	MISSION RIDGE	Middle Fraser	1903	2015-05-01	N/A	341		69%	447	584	147	1028	496	43
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	NS						NS	0	241	54	45
1C20P	BOSS MOUNTAIN MINE	Middle Fraser	1477	2015-05-01	89	425		71%	565	638	394	821	597	19
1C21	BIG CREEK	Middle Fraser	1130	NS					0	NS	0	48	12	4
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	NS						NS	0	0	0	10
1C23	PENFOLD CREEK	Middle Fraser	1687	2015-05-04	220	915		86%	1103	1170	710	1420	1064	40
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	2015-05-01	0	0			95	74	0	168	30	41

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1C28	DUFFEY LAKE	Middle Fraser	1253	NS						NS	206	624	377	13
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	2015-04-29	0	0			84	85	0	305	82	33
1C32	DEADMAN RIVER	Middle Fraser	1463	2015-04-30	0	0			0	60	0	194	32	28
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	2015-04-30	0	0			110	114	0	221	89	8
1C37	BRALORNE(UPPER)	Middle Fraser	1980	2015-05-04	145	638		94%	496	572	364	1092	676	18
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	2015-05-04	181	878		103%	554	726	450	1340	856	17
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	2015-05-04	110	526		88%	392	470	244	1018	600	18
1C40	TYAUGHTON CREEK (NORTH)	Middle Fraser	1946	2015-05-04	79	396		89%	304	396	268	806	443	18
1C41P	YANKS PEAK, EAST	Middle Fraser	1683	2015-05-01	183	863		105%	1192	1027	548	1058	825	16
1C42	CAVERHILL LAKE NEW	Middle Fraser	N/A	NS						NS	172	172	N/A	1
1D06P	TENQUILLE LAKE	Lower Fraser	1669	2015-05-01	219	912		87%	801	985	653	1705	1047	12
1D08	STAVE LAKE	Lower Fraser	1211	2015-05-04	15	62		4%	1291	1631	574	3120	1513	45
1D09	WAHLEACH LAKE	Lower Fraser	1395	2015-05-04	19	4	A	1%	709	19	A	0.7916667	615	44
1D09P	WAHLEACH LAKE	Lower Fraser	1408	2015-05-01	N/A	344		33%	1009	1090	509	1757	1043	21
1D10	NAHATLATCH RIVER	Lower Fraser	1530	2015-05-04	102	468		34%	1225	1570	608	2720	1361	42
1D16	DICKSON LAKE	Lower Fraser	1147	2015-05-04	11	4	A		1516	2132	520	3180	1553	23
1D17P	CHILLIWACK RIVER	Lower Fraser	1621	2015-05-01	123	675		45%	2245	1911	720	2436	1513	21
1D19P	SPUZZUM CREEK	Lower Fraser	1197	2015-05-01	43	162		10%	1613	1859	401	2930	1635	14
1E01B	BLUE RIVER	North Thompson	673	2015-05-01	0	0			233	133	0	265	29	29
1E02P	MOUNT COOK	North Thompson	1574	2015-05-01	242	1184		88%	1389	1462	998	1665	1346	13
1E03A	TROPHY MOUNTAIN	North Thompson	1907	NS					685	710	417	960	607	37
1E05	KNOUFF LAKE	North Thompson	1189	NS						NS	0	142	45	9
1E07	ADAMS RIVER	North Thompson	1769	2015-04-29	138	561		77%	778	843	396	1173	726	40
1E08P	AZURE RIVER	North Thompson	1625	2015-05-01	259	1312		108%	1122	1389	773	1635	1214	16
1E10P	KOSTAL LAKE	North Thompson	1760	2015-05-01	199	813		91%	952	1041	641	1268	891	28
1F01A	ABERDEEN LAKE	South Thompson	1262	NS						88	0	165	19	57
1F02	ANGLEMONT	South Thompson	1168	NS						176	0	496	160	53
1F03P	PARK MOUNTAIN	South Thompson	1857	2015-05-01	197	854		89%	1158	1118	570	1343	955	28
1F04	ENDERBY	South Thompson	1948	NS						1381	700	1430	1079	50
1F06P	CELISTA MOUNTAIN	South Thompson	1533	2015-05-01	168	847		93%	1030	1096	746	1187	914	8
2A01A	CANOE RIVER	Upper Columbia	866	NS						NS	0	147	5	24
2A02	GLACIER	Upper Columbia	1249	2015-04-26	102	497		77%	809	653	320	1247	643	68
2A03A	FIELD	Upper Columbia	1310	NS					110	NS	0	178	20	48
2A06P	MOUNT REVELSTOKE	Upper Columbia	1770	2015-05-01	N/A	1063		84%	1268	1402	874	1625	1265	20
2A07	KICKING HORSE	Upper Columbia	1648	2015-04-30	50	185		63%	469	270	63	589	296	63
2A11	BEAVERFOOT	Upper Columbia	1924	2015-04-27	0	0			270	162	58	495	170	51
2A14	MOUNT ABBOT	Upper Columbia	2031	2015-04-25	268	1156		86%	1366	1384	853	1885	1345	48
2A16	GOLDSTREAM	Upper Columbia	1914	2015-04-27	267	1156		96%	1331	1358	850	1781	1200	50
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	2015-04-26	268	1181		90%	1522	1399	817	1986	1306	50

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2A18	KEYSTONE CREEK	Upper Columbia	1839	2015-04-27	188	734		89%		911	514	1421	823	46
2A19	VERMONT CREEK	Upper Columbia	1533	2015-04-28	0	0			383	392	140	1026	327	47
2A21P	MOLSON CREEK	Upper Columbia	1930	2015-05-01	N/A	1054		96%	1104	1268	645	1678	1100	32
2A22	SUNBEAM LAKE	Upper Columbia	2066	2015-04-27	219	922		98%	999	1022	611	1562	939	45
2A23	BUSH RIVER	Upper Columbia	1982	2015-04-27	184	728		87%	834	928	492	1392	834	44
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	2015-04-27	263	1134		91%	1331	1498	865	1797	1243	41
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	NS					682	568	0	910	517	36
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	2015-04-27	257	1112		79%	1344	1598	802	2242	1402	35
2B02A	FARRON	West Kootenay	1229	2015-05-01	0	0			158	135	23	406	183	41
2B05	WHATSHAN (UPPER)	West Kootenay	1476	2015-04-28	87	405		73%	707	558	255	983	557	53
2B06	BARNES CREEK	West Kootenay	1598	2015-04-28	94	416		89%	616	617	211	742	470	53
2B06P	BARNES CREEK	West Kootenay	1595	2015-05-01	N/A	487		90%	681	693	360	821	541	20
2B07	KOCH CREEK	West Kootenay	1813	2015-04-28	152	615		79%	685	906	391	1201	778	53
2B08	ST. LEON CREEK	West Kootenay	1828	2015-04-28	253	1125		89%	1447	1304	816	1974	1267	47
2B08P	ST. LEON CREEK	West Kootenay	1822	2015-05-01	N/A	1023		92%	1345	1299	701	1501	1113	20
2B09	RECORD MOUNTAIN	West Kootenay	1906	2015-05-04	44	214		29%	455	865	157	1278	727	39
2C01	SINCLAIR PASS	East Kootenay	1374	2015-04-29	0	0			98	0	0	246	37	67
2C04	SULLIVAN MINE	East Kootenay	1580	NS					304	220	0	518	182	68
2C07	FERNIE EAST	East Kootenay	1213	2015-04-25	0	0			257	81	0	541	136	59
2C09Q	MORRISSEY RIDGE	East Kootenay	1966	2015-05-01	N/A	337		50%	949	600	317	1332	670	33
2C10P	MOYIE MOUNTAIN	East Kootenay	1840	2015-05-01	18	110		33%	544	355	18	689	338	34
2C11	KIMBERLEY (UPPER) VOR	East Kootenay	2148	NS						NS	188	935	434	44
2C12	KIMBERLEY (MIDDLE) VOR	East Kootenay	1692	NS						NS	0	483	156	44
2C14	FLOE LAKE	East Kootenay	2087	2015-04-28	181	723		90%	897	971	497	1369	800	43
2C14P	FLOE LAKE	East Kootenay	2110	2015-05-01	N/A	690		90%	868	872	491	1188	767	20
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	NS					607	639	339	930	566	43
2C16	MOUNT JOFFRE	East Kootenay	1763	2015-04-28	88	36		10%	491	450	180	772	346	44
2C17	THUNDER CREEK	East Kootenay	2062	2015-04-28	66	197		73%		379	163	556	271	42
2C20	VERMILLION RIVER NO. 3	East Kootenay	1612	NS						NS	71	422	196	15
2D02	FERGUSON	West Kootenay	929	2015-04-29	76	333		78%		385	160	773	429	68
2D03	SANDON	West Kootenay	1072	2015-05-01	0	0			79	31	0	399	45	59
2D04	NELSON	West Kootenay	952	NS					66	4	0	508	143	57
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	2015-04-28	68	269		63%	592	449	229	726	429	64
2D06	CHAR CREEK	West Kootenay	1290	2015-05-01	36	134		30%	488	424	79	838	449	46
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS						NS	0	42	14	4
2D08P	EAST CREEK	West Kootenay	2004	2015-05-01	N/A	933		103%	1167	976	480	1346	910	32
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	2015-04-28	213	958		89%	1182	1166	731	1679	1075	45
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	2015-04-28	160	657		86%	922	923	505	1300	767	43
2D14P	REDFISH CREEK	West Kootenay	2086	2015-05-01	288	1409		109%	1496	1628	1035	1863	1298	11

2015 Automated Snow Pillow/Manual Snow Survey Data				May					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	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2E01	MONASHEE PASS	Boundary	1387	2015-04-28	45	193		73%	393	258	67	505	266	54
2E02	CARMI	Boundary	1254	2015-05-07	0	0			0	0	0	173	12	50
2E03	BIG WHITE MOUNTAIN	Boundary	1672	2015-05-04	70	249		55%	516	514	237	762	451	48
2E06	BLUEJOINT MOUNTAIN	Boundary	1990	NS						NS	287	1201	725	33
2E07P	GRANO CREEK	Boundary	1874	2015-05-01	97	424		76%	614	557	420	814	561	15
2F01A	TROUT CREEK (WEST)	Okanagan	1430	NS					207	124	112	292	112	4
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	2015-05-01	0	0			0	30	0	368	129	48
2F03	MC CULLOCH	Okanagan	1266	NS					0	0	0	188	12	66
2F04	GRAYSTOKE LAKE	Okanagan	1818	NS						NS	120	940	343	40
2F05P	MISSION CREEK	Okanagan	1794	2015-05-01	100	407		85%	716	631	141	784	481	43
2F07	POSTILL LAKE	Okanagan	1358	2015-04-29	12	50		41%	176	150	0	282	121	61
2F08	GRAYBACK RESERVOIR	Okanagan	1548	2015-04-25	44	171		108%	282	206	0	386	158	41
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2015-04-28	74	339		72%	508	633	175	1013	470	43
2F10	SILVER STAR MOUNTAIN	Okanagan	1834	2015-05-05	132	493		67%	875	983	371	1135	734	54
2F11	ISINTOK LAKE	Okanagan	1651	2015-04-30	0	0			190	146	0	437	98	48
2F12	MOUNT KOBAU	Okanagan	1817	2015-04-26	54	204		66%	226	509	53	597	309	48
2F13	ESPERON CR (UPPER)	Okanagan	1634	2015-04-26	59	228		66%	364	430	119	805	346	44
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	NS						NS	0	551	216	30
2F18P	BRENDA MINE	Okanagan	1453	2015-05-01	N/A	0			177	178	0	342	128	20
2F19	OYAMA LAKE	Okanagan	1365	NS					233	44	0	185	55	43
2F20	VASEUX CREEK	Okanagan	1403	2015-04-26	0	0	T		195	0	0	192	41	42
2F21	BOULEAU LAKE	Okanagan	1405	2015-04-26	23	80		32%	238	322	40	488	251	41
2F23	MACDONALD LAKE	Okanagan	1742	NS					421	412	198	650	421	33
2F24	ISLAHT LAKE	Okanagan	1492	2015-04-30	19	76	A	32%		364	64	433	234	32
2F25	POSTILL LAKE (UPPER)	Okanagan	1500	NS						NS	71	71	N/A	2
2G03P	BLACKWALL PEAK	Similkameen	1934	2015-05-01	139	593		77%	968	800	375	1569	768	45
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	2015-04-27	70	235		109%	309	303	64	554	215	50
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2015-04-28	0	0			269	178	0	323	102	49
2G06	HAMILTON HILL	Similkameen	1477	2015-04-28	0	0			251	162	0	838	190	54
3A01	GROUSE MOUNTAIN	South Coast	1126	2015-05-06	0	0			800	1650	120	2870	1170	63
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS						NS	533	1712	783	6
3A05	POWELL RIVER (LOWER)	South Coast	882	NS						NS	181	426	349	4
3A09	PALISADE LAKE	South Coast	898	2015-05-06	0	0			700	1480	0	3600	1291	60
3A10	DOG MOUNTAIN	South Coast	1007	2015-05-06	0	0			710	1530	122	2760	1137	30
3A19	ORCHID LAKE	South Coast	1178	2015-05-06	25	100		5%	1550	2000	900	3845	1866	41
3A20	CALLAGHAN CREEK	South Coast	1009	2015-04-29	0	0	T		662	690	156	1568	711	36
3A22P	NOSTETUKO RIVER	South Coast	1457	2015-05-01	36	201		37%	399	430	207	1053	542	24
3A24P	UPPER MOSLEY CREEK	South Coast	1655	2015-05-01	64	309		122%	227	158	143	532	254	24
3A25P	SQUAMISH RIVER (UPPER)	South Coast	1387	2015-05-01	80	695		44%	1282	1787	990	2910	1597	23

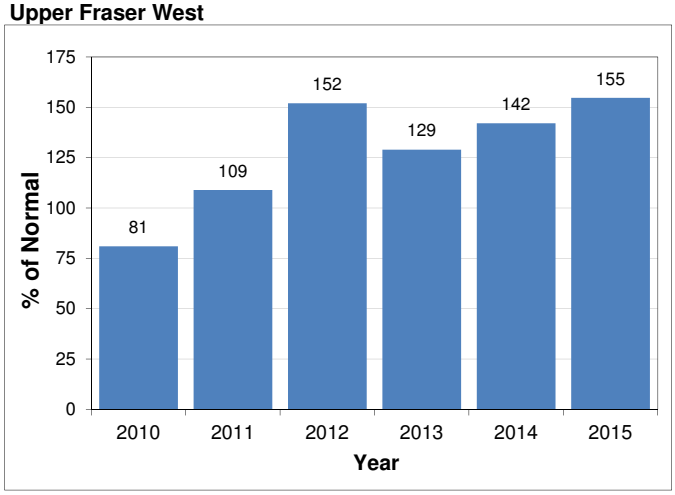
2015 Automated Snow Pillow/Manual Snow Survey Data				May					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	2015-05-04	0	0			929	1431	448	3500	1507	56
3B02A	MT. COKELY	Vancouver Island	1267	2015-04-29	0	0				918	196	2062	813	30
3B04	ELK RIVER	Vancouver Island	270	2015-05-04	0	0				0	0	0	0	29
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	2015-05-04	0	0			934	1500	524	3560	1484	51
3B13	HEATHER MOUNTAIN	Vancouver Island	1170	2015-04-27	8	28		4%	516	918	183	2383	674	29
3B17P	WOLF RIVER	Vancouver Island	1422	2015-05-01	N/A	374		28%	924	1175	439	2691	1356	31
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	2015-05-04	0	0			290	504	0	1652	546	43
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	2015-05-04	0	0			0	0	0	1118	134	43
3B23P	JUMP CREEK	Vancouver Island	1134	2015-05-01	N/A	0			758	1043	266	3485	1180	17
3B24	HEATHER MOUNTAIN UPPER	Vancouver Island	N/A	2015-04-26	40	110			852	NS	N/A	N/A	N/A	0
3C07	WEDEENE RIVER SOUTH	Central Coast	196	2015-04-30	0	0			46	42	0	749	136	26
3C08P	BURNT BRIDGE CREEK	Central Coast	1329	2015-05-01	151	791		102%	786	716	454	1464	776	15
3D01C	SUMALLO RIVER WEST	Skagit	801	2015-05-04	0	0			118	98	0	371	66	21
3D02	LIGHTNING LAKE	Skagit	1254	2015-04-26	28	92		41%	278	249	7	599	223	41
3D03A	KLESILKWA	Skagit	1134	2015-05-04	0	0			144	155	0	752	103	38
4A02	PINE PASS	Peace	1439	2015-04-29	253	1098		85%	1344	1238	681	1825	1292	53
4A02P	PINE PASS	Peace	1386	2015-05-01	234	977		91%	1192	1045	898	1704	1072	24
4A03	WARE (UPPER)	Peace	1563	2015-04-28	78	237		86%	319	288	141	402	274	47
4A04	WARE (LOWER)	Peace	969	2015-04-28	36	92		74%	176	140	0	229	124	45
4A05	GERMANSEN (UPPER)	Peace	1489	2015-04-29	92	220		62%	388	371	181	597	355	52
4A06	TUTIZZI LAKE	Peace	1043	2015-04-29	32	104		67%	194	189	0	325	155	50
4A07	LADY LAURIER LAKE	Peace		2015-04-27	146	545		98%	557	491	305	926	555	51
4A09	PULPIT LAKE	Peace	1331	2015-04-28	110	429		103%	519	486	287	623	418	49
4A09P	PULPIT LAKE	Peace	1331	2015-05-01	104	384		94%	455	489	288	633	407	23
4A10	FREDRICKSON LAKE	Peace	1323	2015-04-29	70	226		98%	308	163	107	358	231	50
4A11	TRYGVE LAKE	Peace	1409	2015-04-28	117	418		110%	384	372	272	599	381	50
4A12	TSAYDAYCHI LAKE	Peace	1173	2015-04-29	91	316		82%	415	368	168	700	386	51
4A13	PHILIP LAKE	Peace	1013	2015-04-29	25	81		41%	203	276	0	406	196	50
4A16	MORFEE MOUNTAIN	Peace	1427	2015-04-29	176	803		99%	973	896	410	1181	812	43
4A18	MOUNT SHEBA	Peace	1480	2015-04-30	207	867		97%	1091	1054	503	1371	891	44
4A20	MONKMAN CREEK	Peace	1566	2015-04-30	169	653		113%	709	NS	329	1042	580	33
4A21	MOUNT STEARNS	Peace	1514	2015-04-28	65	157		108%	196	142	0	271	146	40
4A25	FORT ST. JOHN AIRPORT	Peace	692	NS						NS	0	56	0	26
4A27P	KWADACHA RIVER	Peace	1695	2015-05-01	103	210		59%	291	347	259	476	355	16
4A30P	AIKEN LAKE	Peace	1061	2015-05-01	N/A	167		92%	233	186	71	313	181	28
4B01	KIDPRICE LAKE	Skeena-Nass	1415	2015-05-02	257	1076		113%		726	551	1591	951	59
4B02	JOHANSON LAKE	Skeena-Nass	1480	2015-04-29	90	291		97%	368	287	143	433	301	51
4B03A	HUDSON BAY MTN	Skeena-Nass	1452	2015-04-29	132	548		108%	518	448	343	795	509	41
4B04	CHAPMAN LAKE	Skeena-Nass	1485	2015-04-29	126	484		102%	428	458	308	749	473	45

2015 Automated Snow Pillow/Manual Snow Survey Data				May					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	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4B06	TACHEK CREEK	Skeena-Nass	1133	2015-04-27	71	240		137%		225	55	363	175	44
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	2015-04-29	67	266		119%	242	257	80	422	223	45
4B08	MOUNT CRONIN	Skeena-Nass	1491	2015-04-29	143	560		91%	495	580	422	1125	616	42
4B10	NINGUNSAW PASS	Skeena-Nass	647	NS					276	240	0	676	263	36
4B11A	BEAR PASS	Skeena-Nass	437	NS						NS	256	860	541	22
4B13A	TERRACE AIRPORT	Skeena-Nass	219	NS					1115	0	0	58	14	6
4B14	EQUITY MINE	Skeena-Nass	1434	2015-04-29	135	535		143%		390	212	690	373	36
4B15	LU LAKE	Skeena-Nass	1296	2015-04-29	101	390		146%	404	248	144	528	267	34
4B15P	LU LAKE	Skeena-Nass	1308	2015-05-01	95	455		200%	300	295	79	517	227	15
4B16P	SHEDIN CREEK	Skeena-Nass	1320	2015-05-01	187	1310		135%	311	803	650	1226	972	17
4B17P	TSAI CREEK	Skeena-Nass	1369	2015-05-01	255	1310		100%	597	1021	975	2081	1307	15
4B18P	CEDAR - KITEEN	Skeena-Nass	912	2015-05-01	61	325		53%	1050	497	210	1075	612	12
4C01	SIKANNI LAKE	Liard	1390	2015-04-28	83	278		105%	710	262	115	404	266	50
4C02	SUMMIT LAKE	Liard	1291	2015-05-01	23	72		164%	355	106	0	200	44	47
4C03	DEASE LAKE	Liard	805	NS						147	0	178	38	47
4C05	FORT NELSON A	Liard	368	NS					192	NS	0	103	12	31
4C15	JADE CITY	Liard	943	2015-04-25	53	136		72%		296	28	350	189	12
4D01	TELEGRAPH CREEK	Stikine	490	2015-05-01	0	0			302	0	0	163	23	36
4D02	ISKUT	Stikine	931	NS						NS	0	146	18	23
4D11P	KINASKAN LAKE	Stikine	1020	2015-05-01	70	305			0					
4E02B	ATLIN LAKE	Northwest		2015-04-30	0	0			0	123	0	140	N/A	8

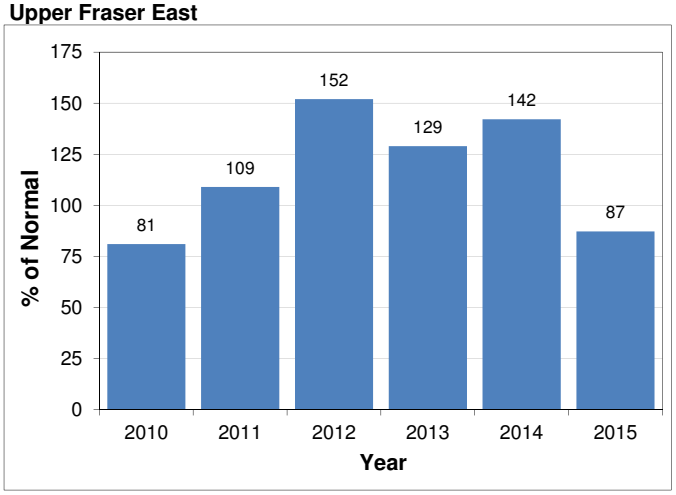
Code	Description
A	Sampling problems were encountered
ASP	Automated Snow Pillow
B	Early or late sample
C	Combination of A and B
E	Estimate
MSS	Manual Snow Survey
N	Scheduled, but not measured
NA	Not Available
NS	Not Sampled
SD	Snow Depth
SWE	Snow Water Equivalent
T	Trace Amount

Snow Basin Index Graphs - May 1, 2015

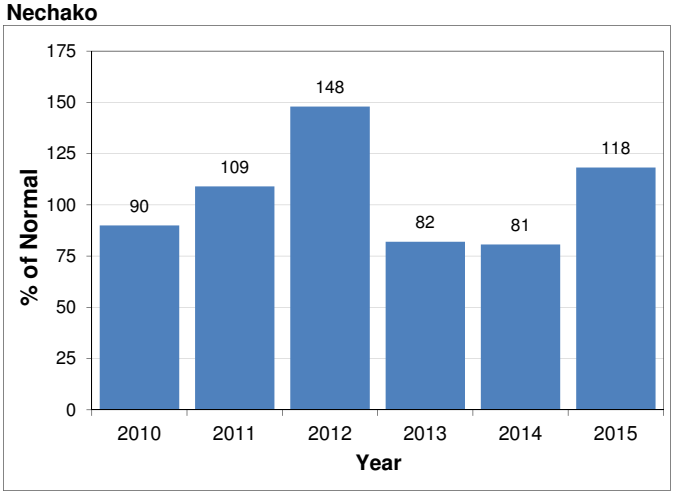
Upper Fraser West



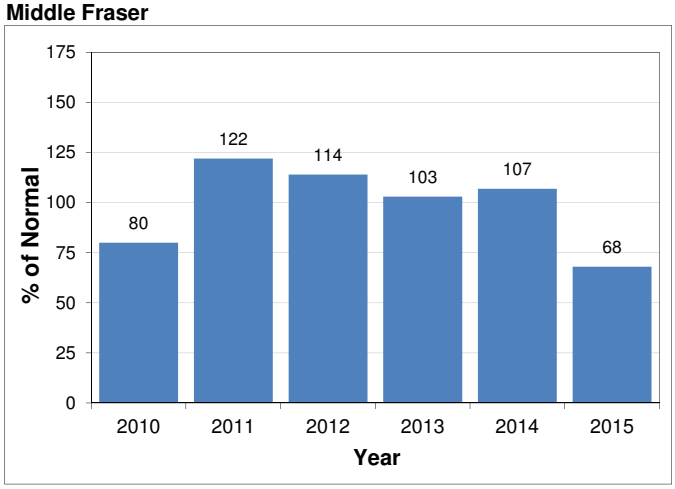
Upper Fraser East



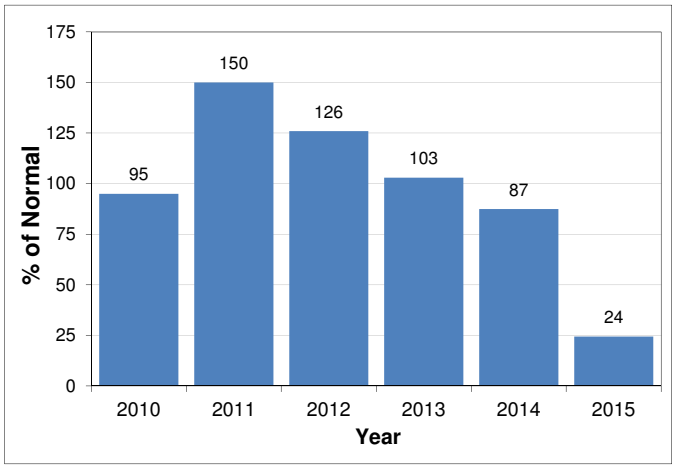
Nechako



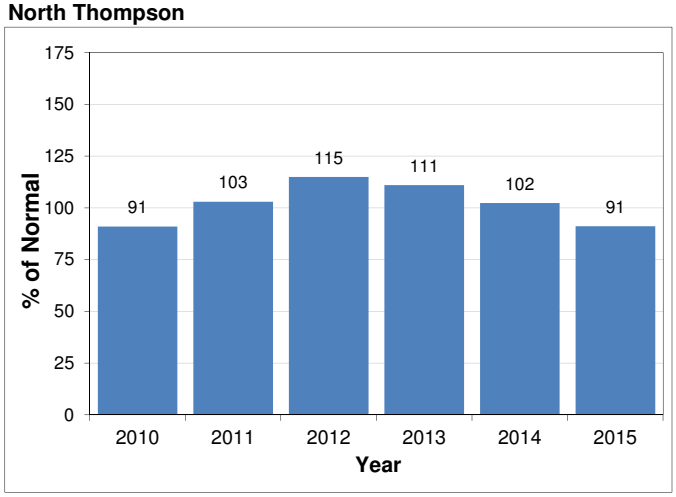
Middle Fraser



Lower Fraser

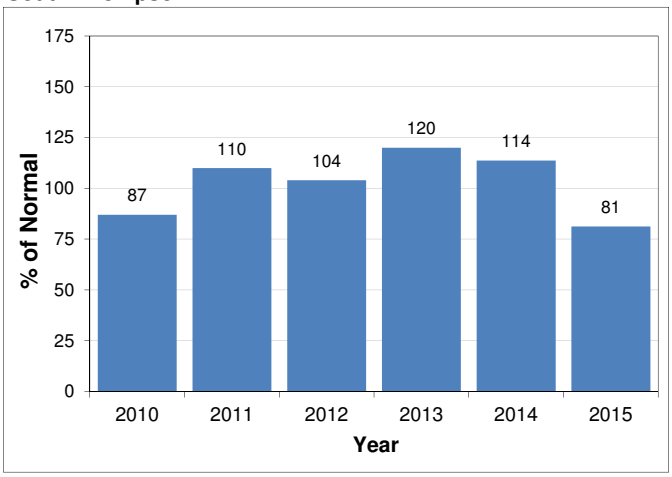


North Thompson

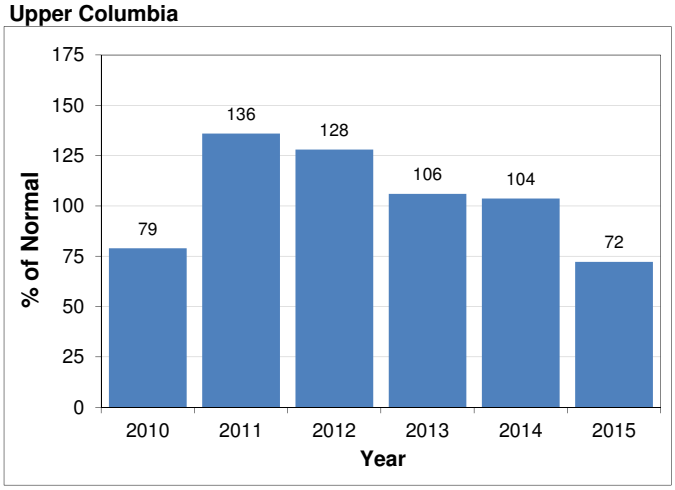


Snow Basin Index Graphs - May 1, 2015

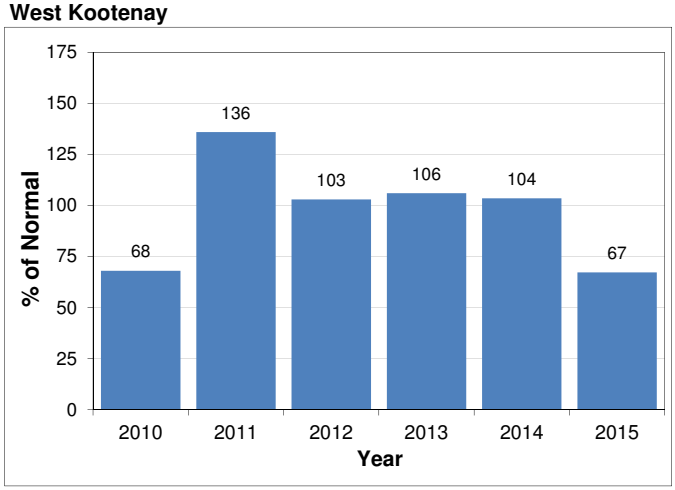
South Thompson



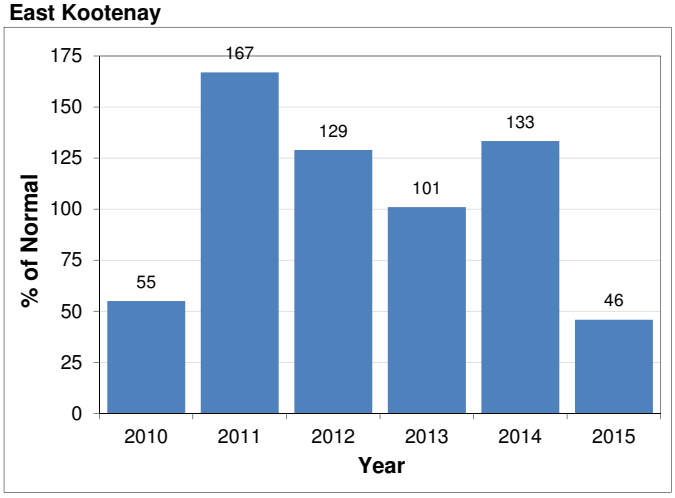
Upper Columbia



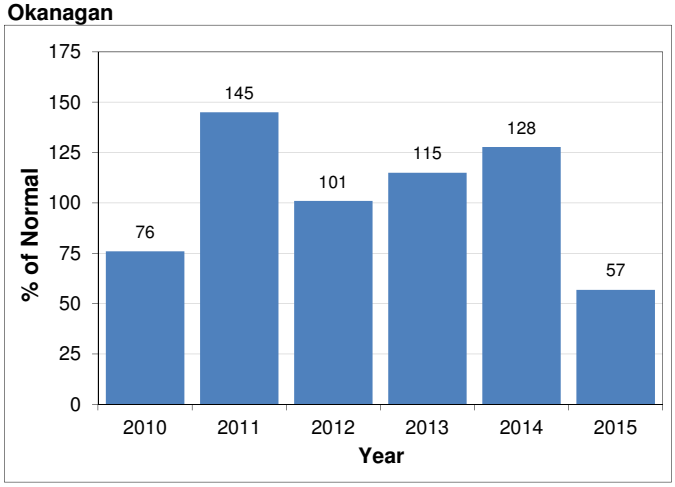
West Kootenay



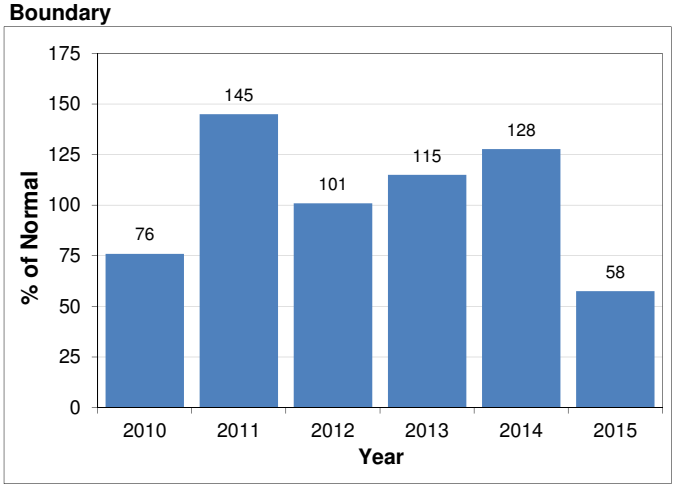
East Kootenay



Okanagan

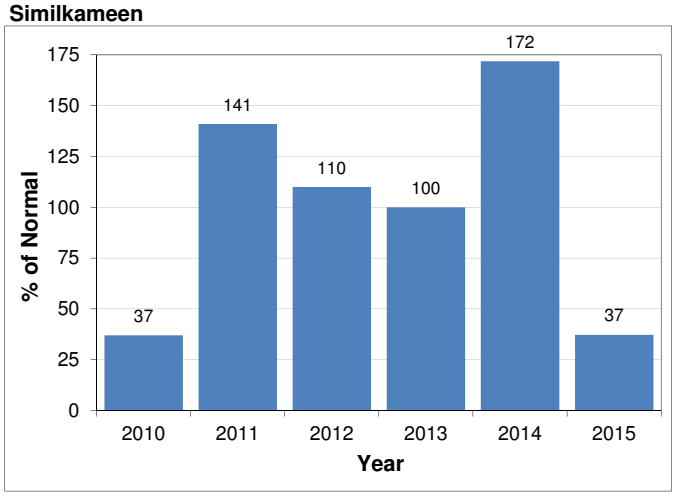


Boundary

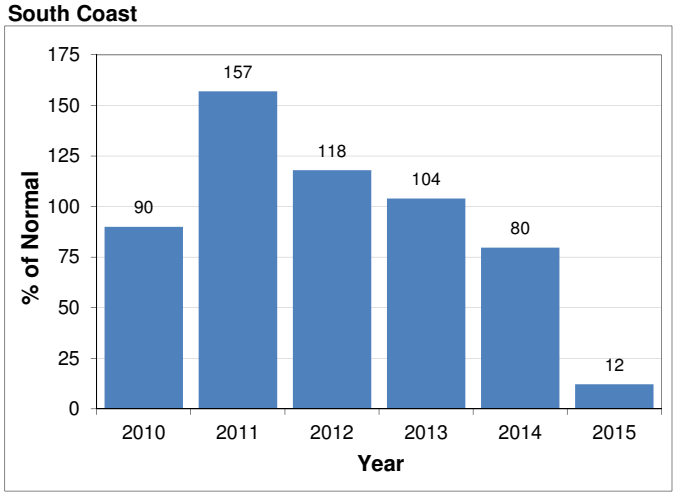


Snow Basin Index Graphs - May 1, 2015

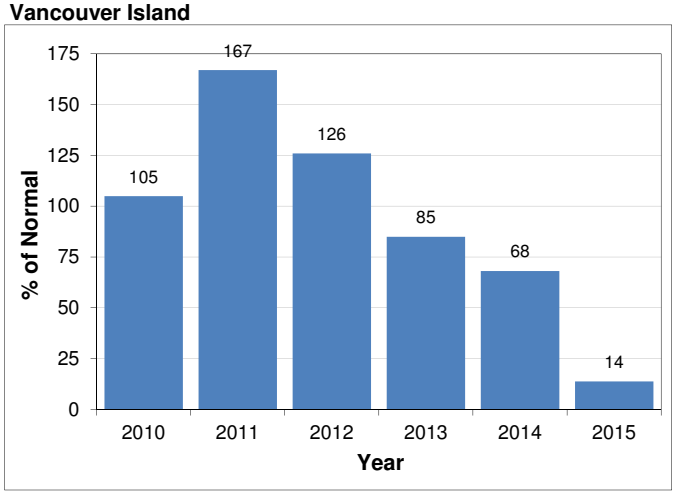
Similkameen



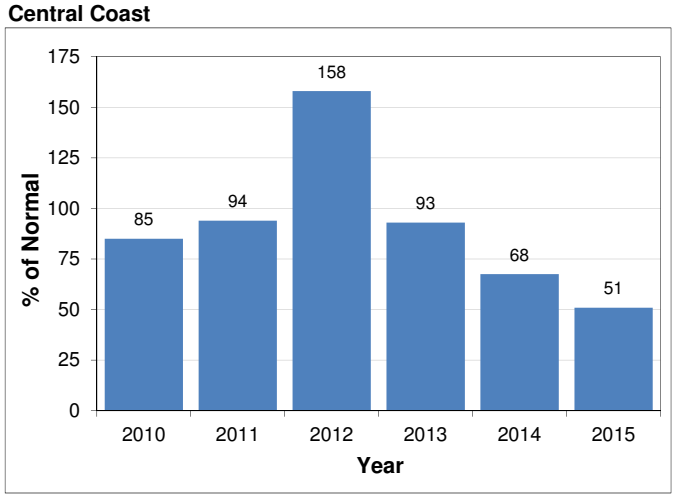
South Coast



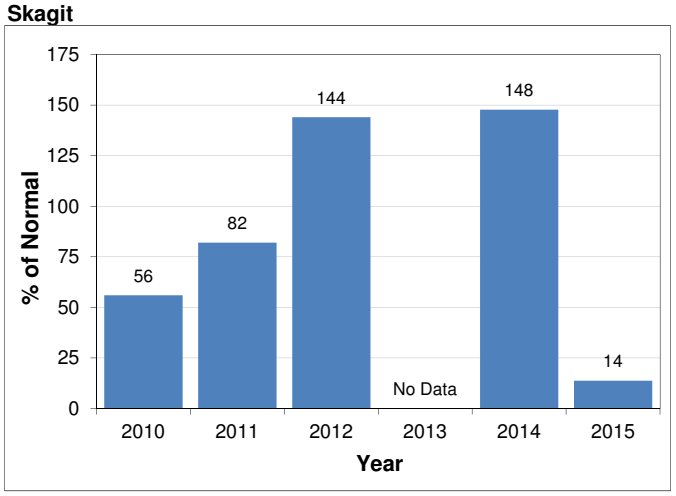
Vancouver Island



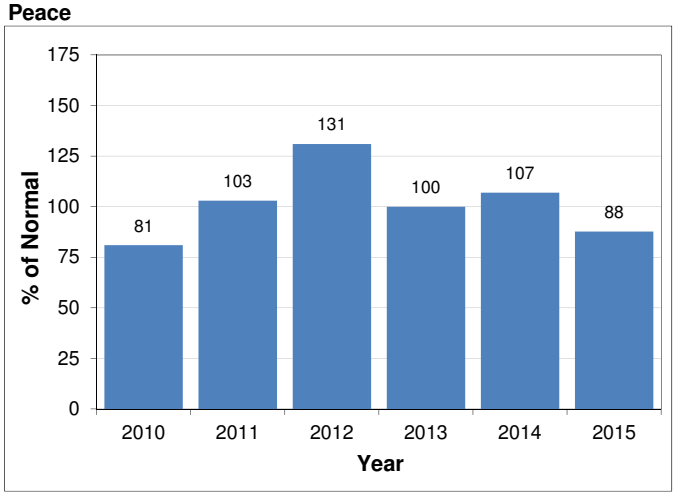
Central Coast



Skagit

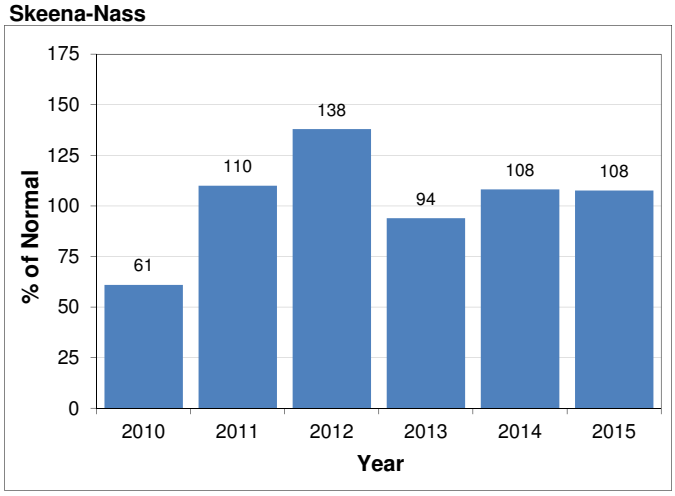


Peace

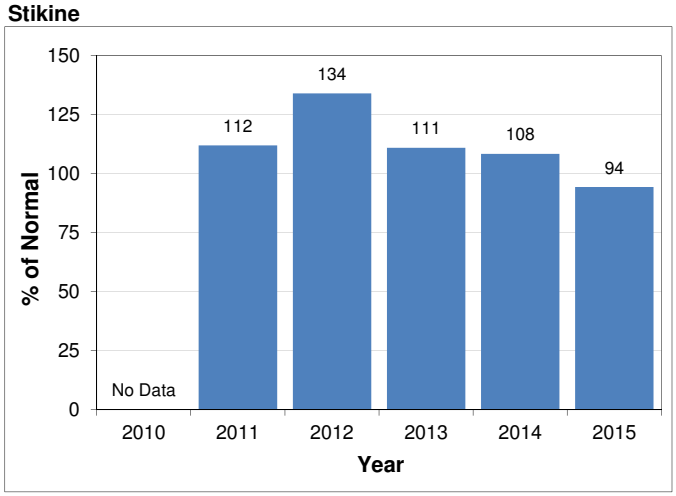


Snow Basin Index Graphs - May 1, 2015

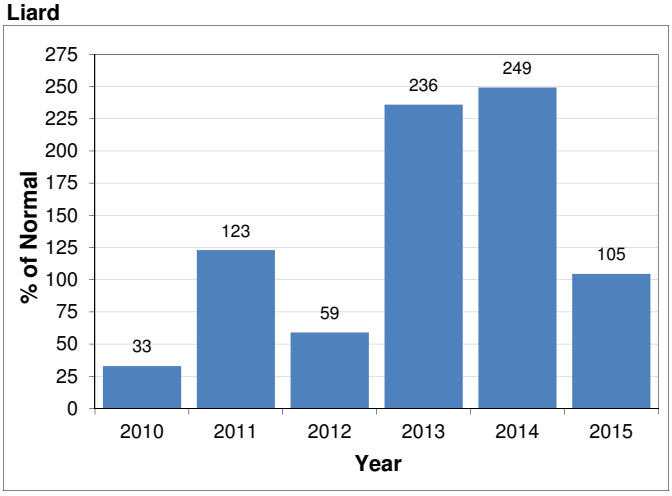
Skeena-Nass



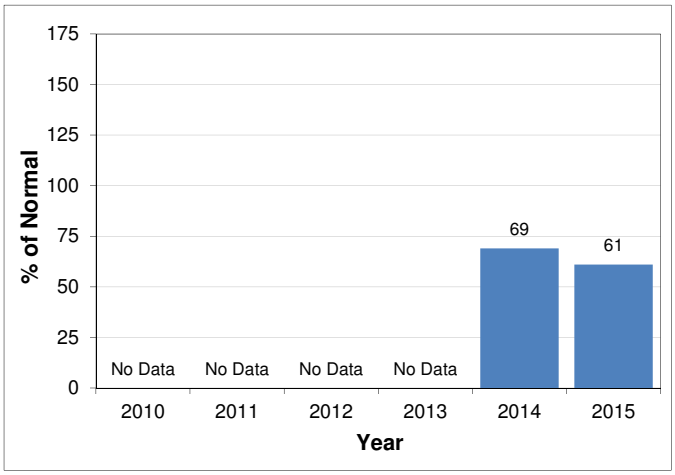
Stikine



Liard



Northwest



Ministry of Forests, Lands and Natural Resource Operations
River Forecast Centre
Volume Runoff Forecast May 2015

Location		May - Jun Runoff				May - Jul Runoff				May - Sep Runoff			
		Forecast ($kdam^3$)	Normal (1981-2010) ($kdam^3$)	% of Normal	Std. Error ($kdam^3$)	Forecast ($kdam^3$)	Normal (1981-2010) ($kdam^3$)	% of Normal	Std. Error ($kdam^3$)	Forecast ($kdam^3$)	Normal (1981-2010) ($kdam^3$)	% of Normal	Std. Error ($kdam^3$)
Upper Fraser Basin	Fraser at McBride					3241	3534	92%	297	4737	5000	95%	373
	McGregor at Lower Canyon					3045	3552	86%	376	4094	4598	89%	563
	Fraser at Shelley					12996	13672	95%	1070	16156	17732	91%	1657
Middle Fraser Basin	Quesnel River at Quesnel					3627	4117	88%	396	4881	5448	90%	574
Thompson Basin	N. Thompson at McLure					7590	8209	92%	425	9722	10379	94%	785
	S. Thompson at Chase					5056	5298	95%	403	6574	6865	96%	659
	Thompson at Spences Bridge					12613	13923	91%	825	16346	17903	91%	1510
Bulkley and Skeena	Bulkley at Quick					2792	2383	117%	185	3446	2980	111%	220
	Skeena at Usk					19188	17317	111%	964	23344	21661	108%	1463
Nicola Lake	Inflows	70	105	67%	28	89	122	73%	33				
Nicola River	at Spences Bridge	248	409	61%	76	278	476	58%	98				
Okanagan and Kalamalka-Wood Lake	Okanagan Lake Inflow	260	349	74%	81	266	376	71%	103				
	Kalamalka-Wood Lake Inflow	7.9	19.0	42%	8.2	6.8	20.4	33%	10.7				
Similkameen River	Similkameen at Nighthawk	935	1101	85%	152					1178	1411	83%	193
	Similkameen at Hedley	634	827	77%	91					755	1015	74%	105
Cowichan River	Cowichan Lake Inflows	60	130	46%	45					94	174	54%	45

1 $kdam^3$=1,000,000 m^3
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