

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

The January 1st snow survey is now complete. Data from 66 snow courses and 50 snow pillows around the province and climate data from Environment Canada have been used to form the basis for the following report¹.

Weather

Fall season temperatures were above average for most of the province, despite several Arctic air outbreaks since mid-November. For south-western parts of the province, temperatures were approximately 2 to 3°C above average during the fall. December was a warm month for the province, particularly for the interior with temperatures 3 to 5°C above average conditions in some locations.

With warm conditions prevalent through much of the early snow accumulation season and dry conditions during the Arctic outbreaks, precipitation has primarily been in the form of rain through the fall and December. After a particularly wet October, most major centres in the Okanagan, Columbia and Kootenay experienced lower than average precipitation in November and December. In the northeast, precipitation totals have been above average since November, while in the northwest, precipitation totals were lower than average since November. On the south coast and Vancouver Island, precipitation has been below average and has primarily occurred as rain. However, the recent winter storm that affected most of the southern regions of the province in early January has increased snow pack, which is not completely reflected within the January 1st snow measurements.

Snowpack

Early season snow pack has been slow to develop across the province and, in all regions of the province, snow basin indices are below normal for January 1st (Figure 1). Snow basin indices range from a low of 28 % on the south coast to a high of 96 % in North Thompson (Table 1).

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

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	88	Boundary	79
Upper Fraser East	87	Similkameen	94
Nechako	90	South Coast	49
Middle Fraser	82	Vancouver Island	28
Lower Fraser	49	Central Coast	93
North Thompson	96	Skagit	No Data
South Thompson	68	Peace	71
Upper Columbia	76	Skeena-Nass	32
West Kootenay	78	Stikine	65
East Kootenay	80	Liard	87
Okanagan	90	Northwest	No Data

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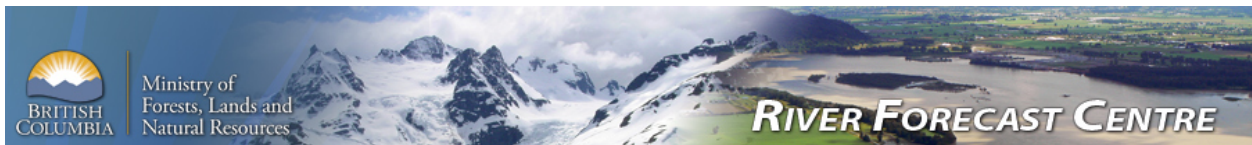
January snow surveys feature fewer individual survey measurements than survey dates later in the season. In combination with this, challenging weather conditions meant that not all scheduled surveys were completed in this period. As a result, some basin index values have been calculated from a limited number of survey points, and therefore may not be fully reflective of the conditions across the entire basin.

Very low snow packs (<50% of normal) are present in coastal British Columbia, particularly in the Lower Fraser, South Coast, Vancouver Island, and Skeena-Nass basins. In the Skeena-Nass basin, the low snow basin indice (32%) is strongly influenced by little or no snow coverage in valley-bottom locations (e.g. Terrace Airport). Moderately low snow packs (60-80% of normal) are present in the West Kootenay, Upper Columbia, Boundary, Peace and Stikine basins. Elsewhere in the province, snow packs are closer to normal (90-100%) for this time of year.

In order to better reflect regional snow pack variation and operational requirements, boundaries for snow basin indices have been adjusted this year (Figure 1). The Upper Fraser Basin has been divided into two separate basins. The new Upper Fraser West basin includes the unregulated portions of the Nechako River upstream of Prince George and includes the Stuart River, Nautley River, and other tributaries downstream of the Kenny Dam. The Nechako River snow basin remains unchanged and represents that drainage area upstream of the Kenny Dam. The new Upper Fraser East basin is the remaining areas of the previous Upper Fraser basin and includes the Fraser River upstream of Prince George (including the Willow River, Bowron River, and McGregor River). The old Okanagan-Kettle basin has been split into two separate basins: Okanagan and Boundary. The new Okanagan basin includes the drainage area of the Okanagan River upstream of the US border and the new Boundary basin includes the drainage areas of the Kettle and Granby Rivers upstream of the US border. A new West Kootenay basin combines the previous West Boundary and Lower Columbia boundaries and has been changed to better reflect regional administrative boundaries as well as seasonal flood risk in local watersheds rather than the regulated Columbia River. The boundaries of the East Kootenay and Upper Columbia basins remain unchanged.

Outlook

Early winter 2014-2015 has been characterized by a transition to near El Niño (ENSO) conditions. The Climate Prediction Centre (CPC) at the U.S. National Weather Service/NOAA has forecast a 65% chance of weak El Niño conditions developing in January and February and ENSO-neutral conditions thereafter. Although the warmer than average sea surface temperatures in the equatorial Pacific Ocean are indicative of El Niño, the overall atmospheric circulation was not strongly coupled with the warm Pacific Ocean resulting in ENSO-neutral conditions. However, an El Niño Watch remains in effect due to the greater likelihood of El Niño conditions occurring based on an ensemble of ENSO prediction models published by the CPC.



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In general, neutral ENSO conditions result in average weather conditions for most of the province. Under these conditions, there is potential for some areas of the province to experience conditions that depart substantially from the long-term average conditions. Such was the case in January 2014, where the Upper Fraser basin experienced snow packs 140% of average conditions and the Nechako basin experienced snow packs 63% of average conditions based on the January 1 snow pack surveys. El Niño conditions result in generally warmer conditions through most of the province, except for the northeast where conditions are expected to be seasonably cold. The effect of El Niño on precipitation is less certain.

In conjunction with warmer than normal sea surface temperatures in the equatorial Pacific Ocean, similar positive temperature anomalies have persisted in the Pacific waters adjacent to British Columbia. These warmer ocean temperatures have likely influenced the warmer than normal seasonal temperatures that have been observed since the late-spring and summer 2014.

Seasonal forecasts from Environment Canada indicate the western regions of the province may experience warmer than average temperatures and average precipitation for the period January to March 2015. This trend is related to the continued effects of above average temperatures of Pacific Ocean water at the BC coast. The seasonal forecasts for the interior, Columbia and Kootenay, and the northeast areas of the province do not indicate temperature conditions will vary much beyond seasonal average conditions but do indicate greater than average precipitation is expected through March 2015.

By early January, nearly half of the annual BC snowpack has typically accumulated. At this early stage in the season, there are no indications that any regions of the province are developing increased seasonal flood risk. Currently observed low snow pack in some regions of the province may be an early indication of the potential for lower than normal stream flow in the spring and summer. However, with three or more months left of snow accumulation, these outlooks could change significantly.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the February 1st 2015 bulletin, which is scheduled for release on February 6th.

BC River Forecast Centre
January 9, 2015

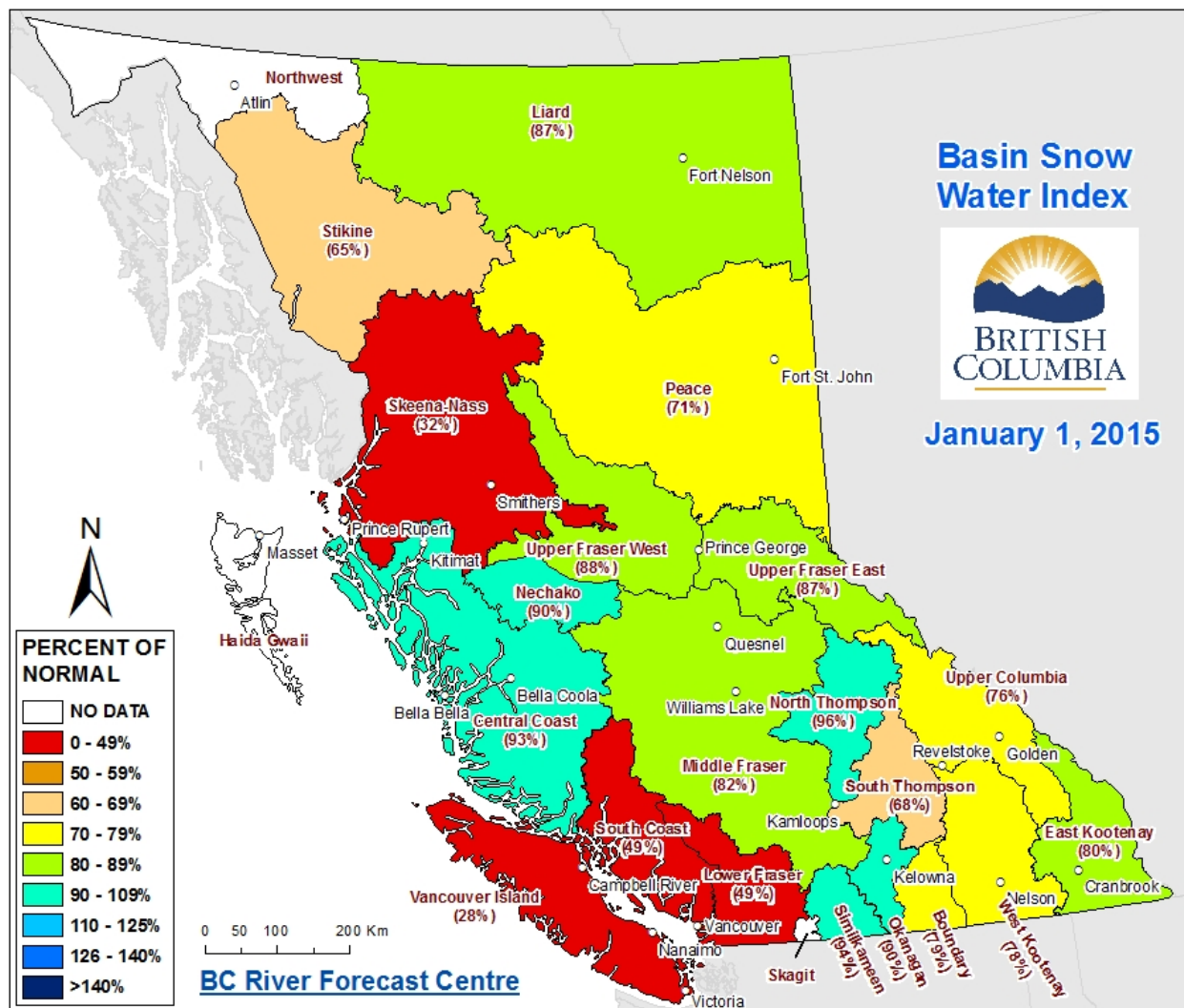


Ministry of
Forests, Lands and
Natural Resources

RIVER FORECAST CENTRE

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Figure 1: Basin Snow Water Index – January 1st, 2015



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2015 Automated Snow Pillow/Manual Snow Survey Data				January					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	2015-01-01	88	247		83%	251	222	184	428	296	17
1A02P	MC BRIDE (UPPER)	Upper Fraser East	1608	2015-01-01	100	245		124%	264	173	121	387	198	22
1A03P	BARKERVILLE	Upper Fraser East	1483	2015-01-01	61	164		106%	197	162	21	312	154	39
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	2014-12-29	150	422		103%	NS	NS	114	400	411	22
1A06A	HANSARD	Upper Fraser East	622	NS					NS	NS	NA	NA	NA	0
1A10	PRINCE GEORGE A	Upper Fraser East	684	NS					NS	86	0	156	59	51
1A11	PACIFIC LAKE	Upper Fraser East	756	2014-12-29	63	144		48%	577	378	56	577	303	30
1A12	KAZA LAKE	Upper Fraser West	1247	2015-01-04	67	116		64%	232	200	92	371	182	28
1A14P	HEDRICK LAKE	Upper Fraser East	1118	2015-01-01	107	214		61%	718	419	143	641	348	14
1A15	KNUDSEN LAKE	Upper Fraser East	1598	2014-12-29	103	264		62%	664	351	125	821	427	22
1A16	BURNS LAKE	Upper Fraser West	820	2015-01-06	58	80		113%	76	84	10	192	71	39
1A17P	REVOLUTION CREEK	Upper Fraser East	1676	2015-01-01	144	294		78%	635	392	184	814	377	29
1A19P	DOMO MOUNTAIN	Upper Fraser East	1768	2015-01-01	121	337		91%	527	323	171	581	372	8
1A23	BIRD CREEK	Upper Fraser West	1196	NS					76	NS	72	174	174	3
1B01	MOUNT WELLS	Nechako	1489	NS					256	NS	220	465	465	3
1B01P	MOUNT WELLS	Nechako	1489	2015-01-01	N/A	307		97%	264	193	131	516	316	22
1B02	TAHTSA LAKE	Nechako	1319	NS					444	NS	444	1084	1084	3
1B02P	TAHTSA LAKE	Nechako	1319	2015-01-01	N/A	452	E	65%	482	453	369	1168	693	22
1B05	SKINS LAKE	Nechako	877	2014-12-22	34	54		100%	0	62	0	127	54	29
1B06	MOUNT SWANNELL	Nechako	1596	NS					153	NS	134	247	247	3
1B07	NUTLI LAKE	Nechako	1502	NS					173	NS	173	527	527	3
1B08P	MOUNT PONDOSY	Nechako	1413	2015-01-01	N/A	440		98%	181	269	204	670	448	22
1C01	BROOKMERE	Middle Fraser	994	NS					NS	NS	22	170	97	14
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	NS					143	NS	140	458	274	18
1C06	PAVILION	Middle Fraser	1209	NS					NS	NS	0	80	32	11
1C08	NAZKO	Middle Fraser	1029	2014-12-29	28	52		127%	92	36	0	92	41	28
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	NS					NS	NS	12	104	51	11
1C12P	GREEN MOUNTAIN	Middle Fraser	1766	2015-01-01	N/A	381		81%	184	357	268	780	469	20
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	NS					NS	NS	NA	NA	NA	0
1C14	BRALORNE	Middle Fraser	1382	NS					56	86	0	158	81	20
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2015-01-01	45	104		65%	206	NS	38	350	160	18
1C18P	MISSION RIDGE	Middle Fraser	1903	2015-01-01	N/A	179	E	69%	205	229	148	659	261	44
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	NS					NS	NS	24	93	53	5
1C20P	BOSS MOUNTAIN MINE	Middle Fraser	1477	2015-01-01	100	255		79%	250	268	191	495	322	20
1C21	BIG CREEK	Middle Fraser	1130	2014-12-28	28	44		138%	68	15	10	68	32	27
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	2014-12-30	24	40		111%	52	20	0	106	36	40
1C23	PENFOLD CREEK	Middle Fraser	1687	NS					NS	NS	NA	NA	NA	0
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	2014-12-30	29	52		75%	61	112	10	146	69	41

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1C28	DUFFEY LAKE	Middle Fraser	1253	NS					NS	NS	NA	NA	NA	0
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	NS					NS	NS	NA	NA	NA	0
1C32	DEADMAN RIVER	Middle Fraser	1463	NS					NS	NS	30	141	65	7
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	2014-12-31	32	78		84%	124	102	46	124	93	9
1C37	BRALORNE(UPPER)	Middle Fraser	1980	NS					NS	304	116	504	309	18
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	NS					NS	388	272	690	489	17
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	NS					74	280	74	466	298	19
1C40	TYAUGHTON CREEK (NORTH)	Middle Fraser	1946	NS					180	226	92	418	244	17
1C41P	YANKS PEAK, EAST	Middle Fraser	1683	2015-01-01	519	389		98%	567	409	207	510	397	17
1C42	CAVERHILL LAKE NEW	Middle Fraser	N/A	NS					NS	NS	NA	NA	NA	0
1D06P	TENQUILLE LAKE	Lower Fraser	1669	2015-01-01	164	446		92%	221	458	285	817	485	13
1D08	STAVE LAKE	Lower Fraser	1211	2014-12-30	66	159		28%	226	916	112	976	578	22
1D09	WAHLEACH LAKE	Lower Fraser	1395	2014-12-30	42	91		38%	187	315	46	417	240	24
1D09P	WAHLEACH LAKE	Lower Fraser	1408	2015-01-01	N/A	214		48%	256	459	235	650	442	22
1D10	NAHATLATCH RIVER	Lower Fraser	1530	NS					NS	679	219	975	585	17
1D16	DICKSON LAKE	Lower Fraser	1147	NS					NS	884	274	1196	616	17
1D17P	CHILLIWACK RIVER	Lower Fraser	1621	2015-01-01	102	353		54%	560	811	383	1165	658	22
1D19P	SPUZZUM CREEK	Lower Fraser	1197	2015-01-01		198		30%	236	863	330	1268	662	15
1E01B	BLUE RIVER	North Thompson	673	NS					177	124	0	263	149	28
1E02P	MOUNT COOK	North Thompson	1574	2015-01-01	186	608		98%	503	655	420	901	621	14
1E03A	TROPHY MOUNTAIN	North Thompson	1907	NS					NS	NS	NA	NA	NA	0
1E05	KNOUFF LAKE	North Thompson	1189	NS					NS	NS	NA	NA	NA	0
1E07	ADAMS RIVER	North Thompson	1769	NS					NS	NS	205	475	324	14
1E08P	AZURE RIVER	North Thompson	1625	2015-01-01	186	607		102%	382	647	356	780	593	17
1E10P	KOSTAL LAKE	North Thompson	1760	2015-01-01	137	388		87%	403	410	271	615	448	29
1F01A	ABERDEEN LAKE	South Thompson	1262	2014-12-30	52	61		65%	71	NS	71	106	94	2
1F02	ANGLEMONT	South Thompson	1168	NS					NS	NS	164	164	164	1
1F03P	PARK MOUNTAIN	South Thompson	1857	2015-01-01	136	382		91%	439	429	256	632	421	29
1F04	ENDERBY	South Thompson	1948	NS					NS	NS	292	742	489	34
1F06P	CELISTA MOUNTAIN	South Thompson	1533	2015-01-01		388		83%	397	459	307	577	468	9
2A01A	CANOE RIVER	Upper Columbia	866	NS					NS	NS	29	86	48	4
2A02	GLACIER	Upper Columbia	1249	2014-12-29	97	266		88%	307	284	147	519	304	44
2A03A	FIELD	Upper Columbia	1310	NS					NS	NS	38	127	80	12
2A06P	MOUNT REVELSTOKE	Upper Columbia	1770	2015-01-01	N/A	450		77%	490	568	303	861	587	21
2A07	KICKING HORSE	Upper Columbia	1648	2014-12-31	52	114		78%	124	157	66	257	147	34
2A11	BEAVERFOOT	Upper Columbia	1924	2015-01-05	49	92		85%	104	122	52	215	108	29
2A14	MOUNT ABBOT	Upper Columbia	2031	2014-12-28	173	517		89%	426	619	298	1065	584	30
2A16	GOLDSTREAM	Upper Columbia	1914	NS					560	585	355	906	588	29
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	2014-12-28	176	510		86%	497	538	331	1228	596	40

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2A18	KEYSTONE CREEK	Upper Columbia	1839	NS					296	NS	217	577	405	28
2A19	VERMONT CREEK	Upper Columbia	1533	2015-01-05	67	122		59%	179	243	91	328	207	27
2A21P	MOLSON CREEK	Upper Columbia	1930	2015-01-01	N/A	431		77%	442	540	286	1072	563	33
2A22	SUNBEAM LAKE	Upper Columbia	2066	NS					NS	522	243	1131	471	29
2A23	BUSH RIVER	Upper Columbia	1982	NS					NS	480	216	940	417	29
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	2014-12-30	113	273		45%	517	709	273	1472	613	30
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	NS					372	288	166	504	298	25
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	NS					520	792	370	1022	706	25
2B02A	FARRON	West Kootenay	1229	2014-12-31	47	101		69%	115	140	40	330	146	30
2B05	WHATSHAN (UPPER)	West Kootenay	1476	2014-12-30	97	221		68%	351	NS	169	543	323	22
2B06	BARNES CREEK	West Kootenay	1598	2014-12-30	93	210		83%	304	213	146	376	253	25
2B06P	BARNES CREEK	West Kootenay	1595	2015-01-01	N/A	222		84%	247	234	158	405	265	21
2B07	KOCH CREEK	West Kootenay	1813	NS					242	473	170	473	346	17
2B08	ST. LEON CREEK	West Kootenay	1828	2014-12-30	176	521		89%	592	571	325	1164	585	21
2B08P	ST. LEON CREEK	West Kootenay	1822	2015-01-01	N/A	471		97%	439	492	221	855	488	21
2B09	RECORD MOUNTAIN	West Kootenay	1906	NS					136	575	134	575	319	27
2C01	SINCLAIR PASS	East Kootenay	1374	NS					NS	NS	25	107	54	13
2C04	SULLIVAN MINE	East Kootenay	1580	2015-01-01	30	78		62%	130	176	29	226	125	29
2C07	FERNIE EAST	East Kootenay	1213	2015-01-01	54	111		84%	106	147	28	330	132	37
2C09Q	MORRISSEY RIDGE	East Kootenay	1966	2015-01-01	N/A	171		56%		305	124	706	306	34
2C10P	MOYIE MOUNTAIN	East Kootenay	1840	2015-01-01	49	130		76%	171	178	76	354	172	35
2C11	KIMBERLEY (UPPER) VOR	East Kootenay	2148	NS					NS	NS	NA	NA	NA	0
2C12	KIMBERLEY (MIDDLE) VOR	East Kootenay	1692	NS					NS	NS	NA	NA	NA	0
2C14	FLOE LAKE	East Kootenay	2087	NS					324	494	181	747	384	28
2C14P	FLOE LAKE	East Kootenay	2110	2015-01-01	N/A	317		90%	272	423	173	503	352	21
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	NS					252	NS	111	567	267	27
2C16	MOUNT JOFFRE	East Kootenay	1763	NS					184	253	73	364	166	25
2C17	THUNDER CREEK	East Kootenay	2062	2015-01-05	50	138		110%	NS	196	61	276	126	27
2C20	VERMILLION RIVER NO. 3	East Kootenay	1612	NS					NS	NS	68	184	132	10
2D02	FERGUSON	West Kootenay	929	2015-01-02	100	254		99%	269	203	93	409	256	35
2D03	SANDON	West Kootenay	1072	NS					NS	NS	157	157	157	1
2D04	NELSON	West Kootenay	952	NS					100	121	61	366	167	55
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	NS					NS	NS	69	372	205	21
2D06	CHAR CREEK	West Kootenay	1290	2015-01-01	61	163		68%	184	310	110	480	239	31
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS					NS	NS	NA	NA	NA	0
2D08P	EAST CREEK	West Kootenay	2004	2015-01-01	N/A	374		85%	271	574	206	858	442	33
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	NS					NS	NS	277	902	496	17
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	NS					NS	NS	222	612	358	12
2D14P	REDFISH CREEK	West Kootenay	2086	2015-01-01	210	686		133%	473	712	401	742	514	12

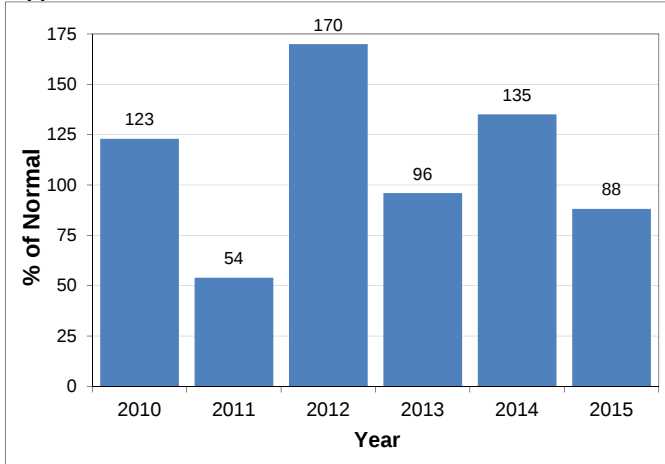
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2E01	MONASHEE PASS	Boundary	1387	2015-01-02	40	95		58%	226	104	84	239	163	31
2E02	CARMI	Boundary	1254	NS					NS	NS	86	102	NA	2
2E03	BIG WHITE MOUNTAIN	Boundary	1672	NS					NS	NS	112	326	235	17
2E06	BLUEJOINT MOUNTAIN	Boundary	1990	NS					NS	NS	NA	NA	NA	0
2E07P	GRANO CREEK	Boundary	1874	2015-01-01	71	179		80%	228	278	143	315	225	16
2F01A	TROUT CREEK (WEST)	Okanagan	1430	2014-12-28	41	68			NS	NS	68	140	0	1
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	NS					121	97	42	198	100	51
2F03	MC CULLOCH	Okanagan	1266	NS					NS	NS	28	144	78	31
2F04	GRAYSTOKE LAKE	Okanagan	1818	NS					NS	144	96	282	147	8
2F05P	MISSION CREEK	Okanagan	1794	2015-01-01	73	181		80%	281	240	104	398	227	44
2F07	POSTILL LAKE	Okanagan	1358	NS					NS	NS	NA	NA	NA	0
2F08	GRAYBACK RESERVOIR	Okanagan	1548	2014-12-31	53	118		111%	163	NS	56	181	106	28
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	NS					NS	NS	122	447	271	22
2F10	SILVER STAR MOUNTAIN	Okanagan	1834	NS					NS	NS	163	565	359	35
2F11	ISINTOK LAKE	Okanagan	1651	NS					57	82	16	196	69	49
2F12	MOUNT KOBAN	Okanagan	1817	2014-12-28	51	108		78%	65	NS	28	261	139	36
2F13	ESPERON CR (UPPER)	Okanagan	1634	NS					NS	NS	NA	NA	NA	0
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	NS					NS	NS	NA	NA	NA	0
2F18P	BRENDA MINE	Okanagan	1453	2015-01-01	N/A	120		65%	125	148	85	304	185	21
2F19	OYAMA LAKE	Okanagan	1365	NS					NS	NS	NA	NA	NA	0
2F20	VASEUX CREEK	Okanagan	1403	NS					NS	NS	32	117	56	19
2F21	BOULEAU LAKE	Okanagan	1405	NS					NS	NS	160	351	0	2
2F23	MACDONALD LAKE	Okanagan	1742	NS					NS	NS	81	328	189	16
2F24	ISLAHT LAKE	Okanagan	1492	NS					NS	NS	NA	NA	NA	0
2F25	POSTILL LAKE (UPPER)	Okanagan	1500	NS					NS	NS	NA	NA	NA	0
2G03P	BLACKWALL PEAK	Similkameen	1934	2015-01-01	132	357		94%	302	383	108	923	379	46
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	NS					NS	NS	54	120	93	7
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	NS					NS	NS	21	197	96	17
2G06	HAMILTON HILL	Similkameen	1477	NS					NS	NS	55	313	168	15
3A01	GROUSE MOUNTAIN	South Coast	1126	2014-12-31	37	96		20%	140	800	24	878	485	34
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS					NS	NS	NA	NA	NA	0
3A05	POWELL RIVER (LOWER)	South Coast	882	NS					NS	NS	NA	NA	NA	0
3A09	PALISADE LAKE	South Coast	898	NS					86	NS	86	334	334	2
3A10	DOG MOUNTAIN	South Coast	1007	2014-12-30	31	78		16%	134	790	96	879	488	28
3A19	ORCHID LAKE	South Coast	1178	2014-12-29	67	180		24%	224	820	202	1360	739	29
3A20	CALLAGHAN CREEK	South Coast	1009	NS					NS	NS	100	638	289	13
3A22P	NOSTETUKO RIVER	South Coast	1457	2015-01-01	68	217		84%	99	218	32	544	258	25
3A24P	UPPER MOSLEY CREEK	South Coast	1655	2015-01-01	64	187		96%	135	108	85	491	194	25
3A25P	SQUAMISH RIVER (UPPER)	South Coast	1387	2015-01-01	55	391		53%	289	792	449	1160	742	24

2015 Automated Snow Pillow/Manual Snow Survey Data				January					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	2014-12-28	84	219		35%	112	NS	0	1287	621	32
3B02A	MT. COKELY	Vancouver Island	1267	NS					NS	NS	NA	NA	NA	0
3B04	ELK RIVER	Vancouver Island	270	2014-12-28	0	0		0%	0	0	0	264	49	29
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	NS					NS	NS	546	734	587	4
3B13	HEATHER MOUNTAIN	Vancouver Island	1170	NS					NS	NS	NA	NA	NA	0
3B17P	WOLF RIVER	Vancouver Island	1422	2015-01-01	N/A	292		53%	141	775	43	1057	555	32
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	2014-12-28	34	116		44%	0	774	0	774	262	26
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	2014-12-28	14	40		25%	0	318	0	388	161	24
3B23P	JUMP CREEK	Vancouver Island	1134	2015-01-01	26	63		14%	6	620	64	1025	459	18
3B24	HEATHER MOUNTAIN UPPER	Vancouver Island	N/A	NS					NS	NS	NA	NA	NA	0
3C07	WEDEENE RIVER SOUTH	Central Coast	196	NS					NS	NS	242	242	242	1
3C08P	BURNT BRIDGE CREEK	Central Coast	1329	2015-01-01	128	398		93%	336	258	139	702	429	16
3D01C	SUMALLO RIVER WEST	Skagit	801	NS					47	NS	47	47	0	1
3D02	LIGHTNING LAKE	Skagit	1254	NS					NS	NS	NA	NA	NA	0
3D03A	KLESILKWA	Skagit	1134	NS					23	181	0	386	123	22
4A02	PINE PASS	Peace	1439	2015-01-03	155	432		69%	795	570	108	988	626	30
4A02P	PINE PASS	Peace	1386	2015-01-01	116	311		57%	677	475	241	1016	549	25
4A03	WARE (UPPER)	Peace	1563	2015-01-05	56	99		66%	145	189	64	248	151	25
4A04	WARE (LOWER)	Peace	969	2015-01-05	57	92		84%	152	118	52	240	110	23
4A05	GERMANSEN (UPPER)	Peace	1489	2015-01-04	75	173		93%	180	194	93	364	186	31
4A06	TUTIZZI LAKE	Peace	1043	2015-01-04	58	92		65%	171	157	72	223	142	24
4A07	LADY LAURIER LAKE	Peace		2015-01-06	103	225		76%	283	230	140	472	295	30
4A09	PULPIT LAKE	Peace	1331	2015-01-05	86	174		74%	307	250	130	398	235	26
4A09P	PULPIT LAKE	Peace	1331	2015-01-01	59	163		65%	292	250	138	344	250	24
4A10	FREDRICKSON LAKE	Peace	1323	2015-01-05	64	106		83%	197	245	54	250	128	25
4A11	TRYGVE LAKE	Peace	1409	NS					190	NS	126	299	207	25
4A12	TSAYDAYCHI LAKE	Peace	1173	2015-01-04	74	154		71%	222	225	128	393	217	31
4A13	PHILIP LAKE	Peace	1013	2015-01-04	57	119		77%	138	217	48	288	154	32
4A16	MORFEE MOUNTAIN	Peace	1427	2015-01-03	115	303		71%	637	446	199	710	425	18
4A18	MOUNT SHEBA	Peace	1480	2014-12-29	100	269		61%	628	491	106	793	438	25
4A20	MONKMAN CREEK	Peace	1566	2014-12-29	67	158		57%	386	323	107	546	277	19
4A21	MOUNT STEARNS	Peace	1514	2015-01-05	46	73		89%	89	100	14	151	82	24
4A25	FORT ST. JOHN AIRPORT	Peace	692	NS					NS	117	0	134	52	35
4A27P	KWADACHA RIVER	Peace	1695	2015-01-01	62	111	E	67%	203	161	82	307	166	17
4A30P	AIKEN LAKE	Peace	1061	2015-01-01	N/A	88		64%	168	128	71	262	138	29
4B01	KIDPRICE LAKE	Skeena-Nass	1415	NS					369	NS	369	894	894	3
4B02	JOHANSON LAKE	Skeena-Nass	1480	NS					185	145	84	282	167	31
4B03A	HUDSON BAY MTN	Skeena-Nass	1452	NS					275	239	135	470	264	38
4B04	CHAPMAN LAKE	Skeena-Nass	1485	NS					NS	NS	NA	NA	NA	0

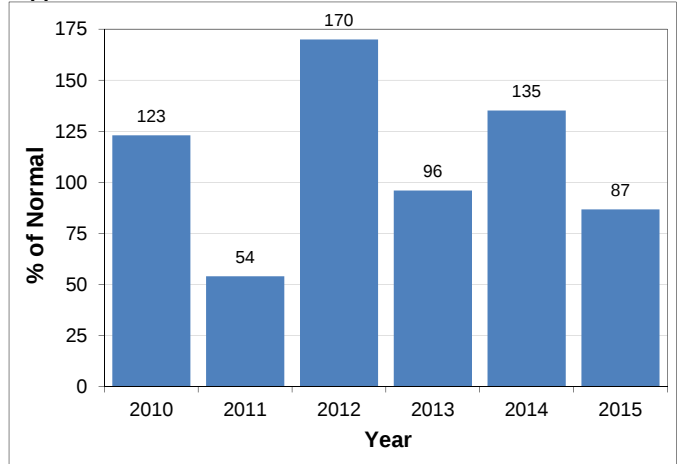
2015 Automated Snow Pillow/Manual Snow Survey Data				January					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4B06	TACHEK CREEK	Skeena-Nass	1133	NS					NS	NS	NA	NA	NA	0
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	NS					NS	NS	NA	NA	NA	0
4B08	MOUNT CRONIN	Skeena-Nass	1491	NS					NS	NS	NA	NA	NA	0
4B10	NINGUNSAW PASS	Skeena-Nass	647	NS					NS	NS	277	277	NA	1
4B11A	BEAR PASS	Skeena-Nass	437	NS					NS	NS	NA	NA	NA	0
4B13A	TERRACE AIRPORT	Skeena-Nass	219	NS					58	31	0	264	73	30
4B14	EQUITY MINE	Skeena-Nass	1434	NS					NS	NS	118	228	166	10
4B15	LU LAKE	Skeena-Nass	1296	NS					NS	NS	96	182	130	10
4B15P	LU LAKE	Skeena-Nass	1308	2015-01-01	60	174		123%	144	137	41	291	141	16
4B16P	SHEDIN CREEK	Skeena-Nass	1320	2015-01-01	84	206		48%	391	307	274	598	425	18
4B17P	TSAI CREEK	Skeena-Nass	1369	2015-01-01	148	475		79%	413	504	401	983	599	16
4B18P	CEDAR - KITEEN	Skeena-Nass	912	2015-01-01	489	167		54%	513	199	83	568	307	13
4C01	SIKANNI LAKE	Liard	1390	NS					NS	142	44	257	145	28
4C02	SUMMIT LAKE	Liard	1291	NS					NS	NS	58	58	0	1
4C03	DEASE LAKE	Liard	805	NS					168	79	20	168	68	46
4C05	FORT NELSON A	Liard	368	2015-01-06	22	42		74%	49	91	15	112	57	46
4C15	JADE CITY	Liard	943	NS					NS	NS	NA	NA	NA	0
4D01	TELEGRAPH CREEK	Stikine	490	NS					NS	NS	NA	NA	NA	0
4D02	ISKUT	Stikine	931	NS					NS	NS	76	76	0	1
4D11P	KINASKAN LAKE	Stikine	1020	2015-01-01	43	97		48%	NS	NS				
4E02B	ATLIN LAKE	Northwest							NS	NS	NA	NA	NA	0
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 - January 1, 2015

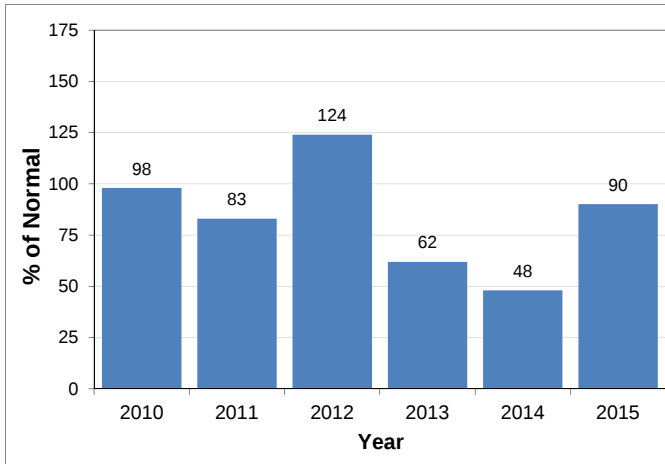
Upper Fraser West



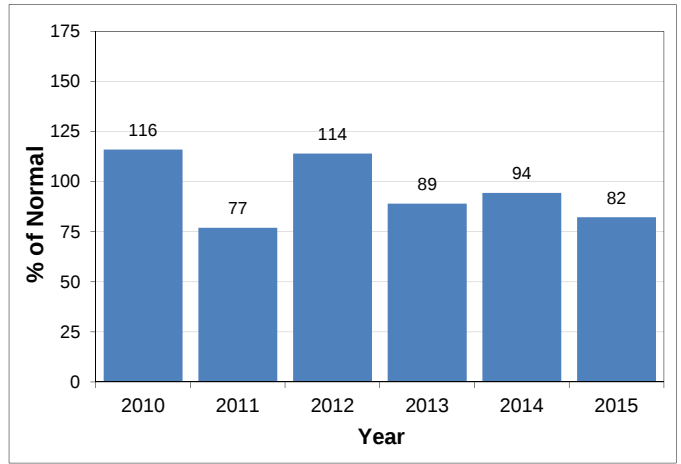
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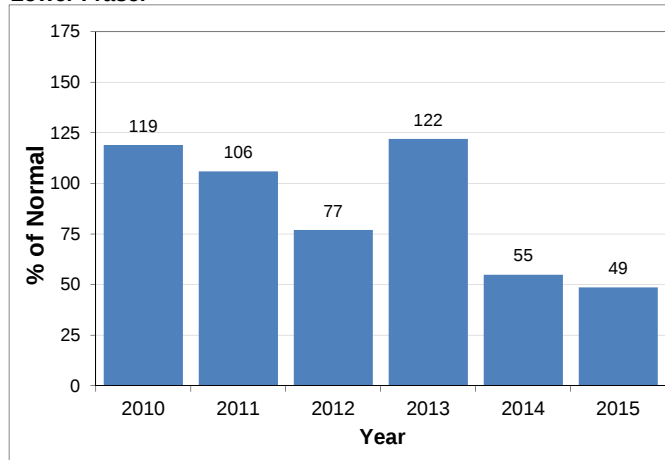
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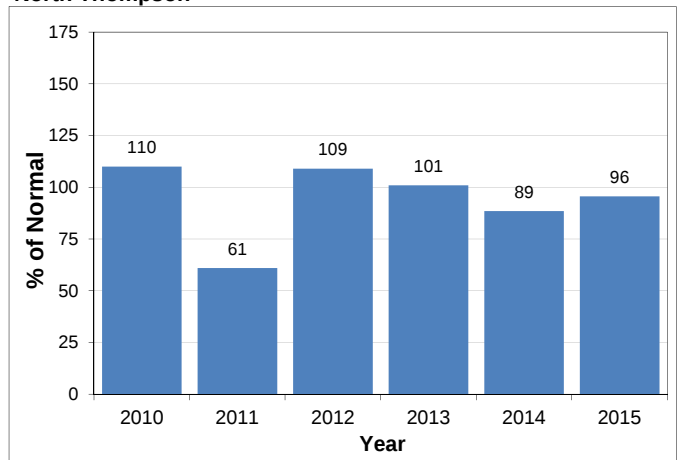
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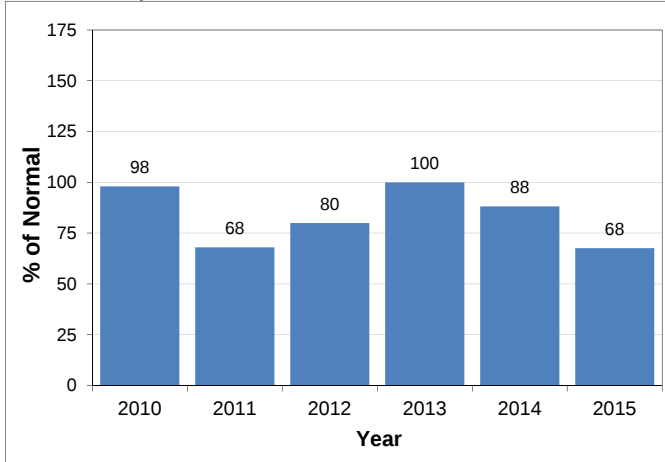
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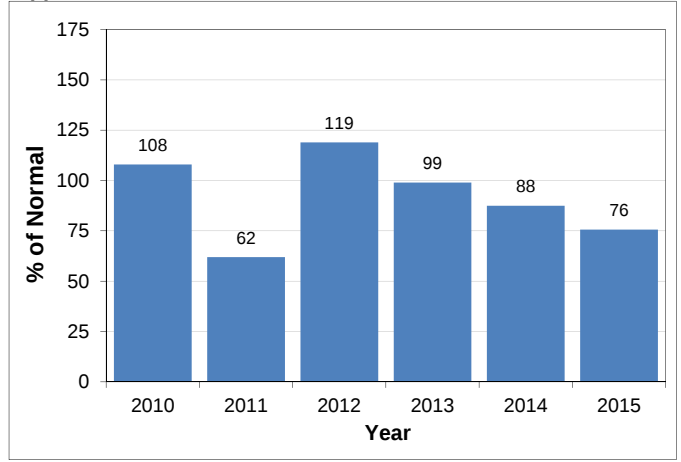
North Thompson



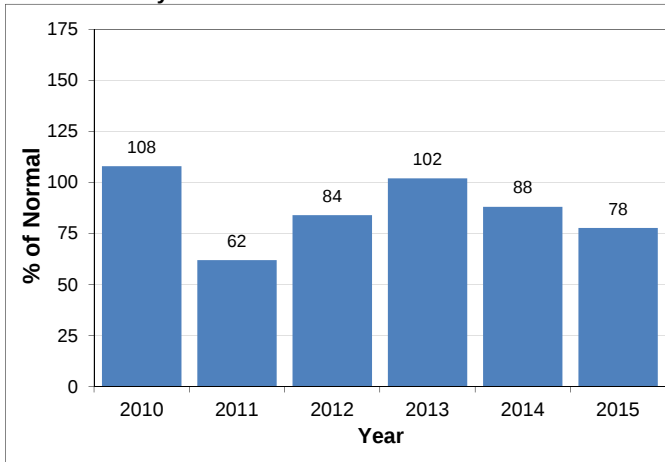
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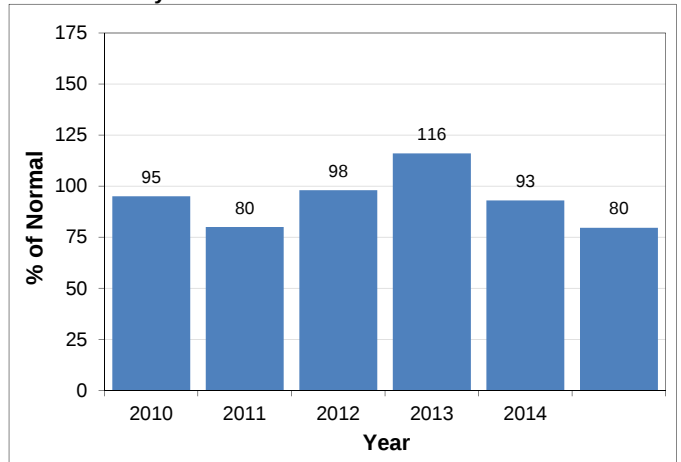
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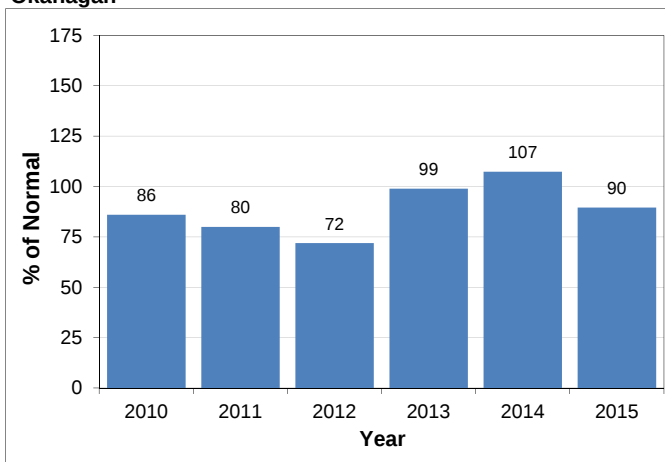
West Kootenay



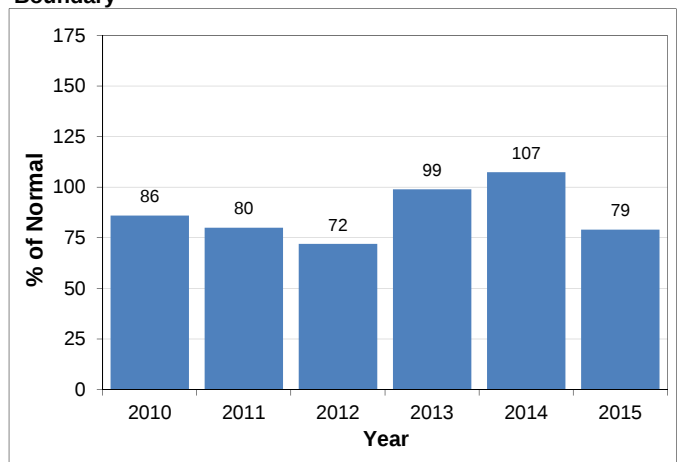
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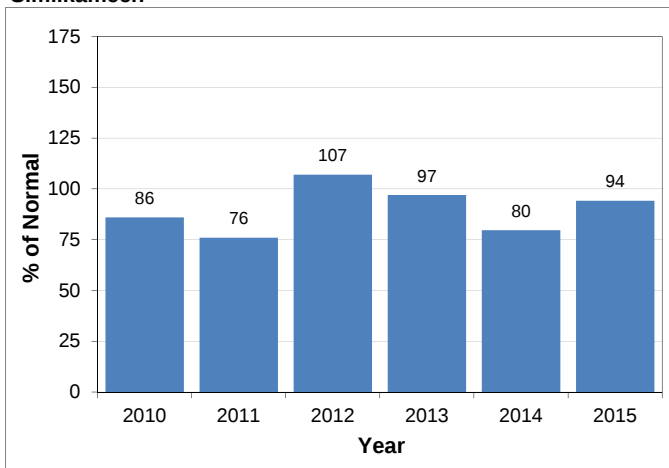
Okanagan



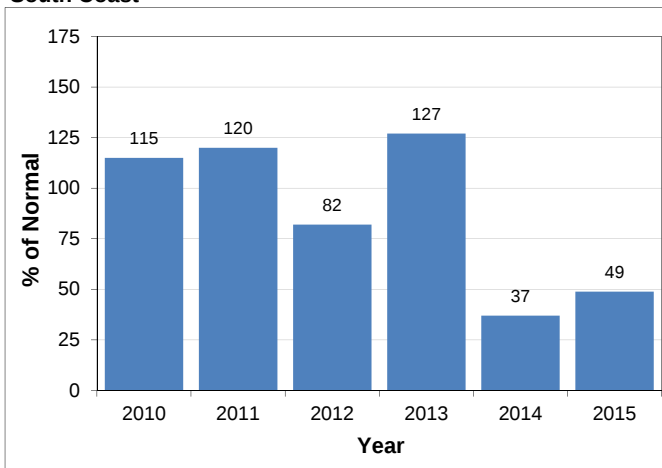
Boundary



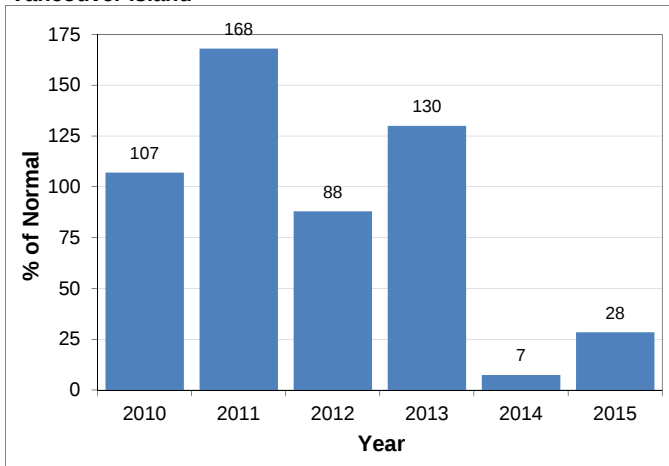
Similkameen



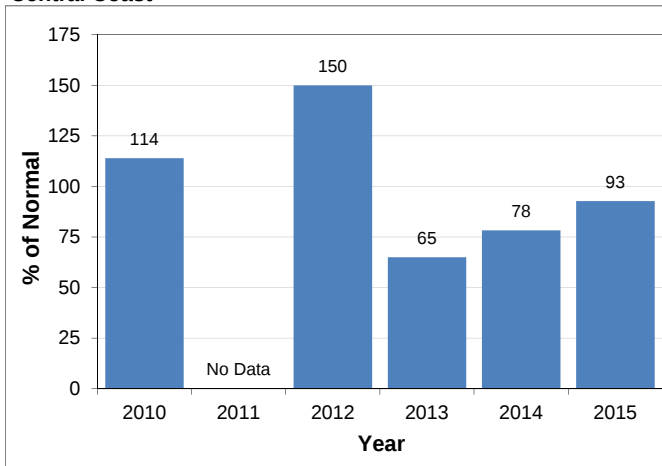
South Coast



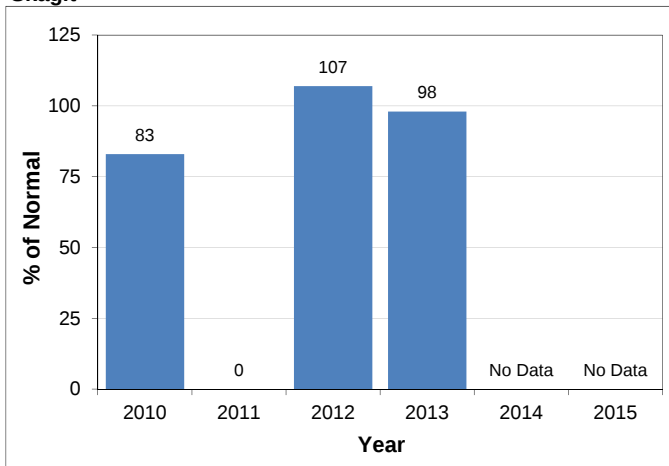
Vancouver Island



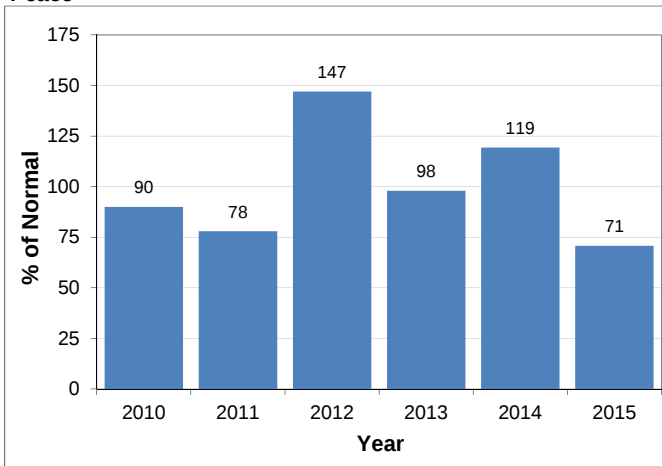
Central Coast



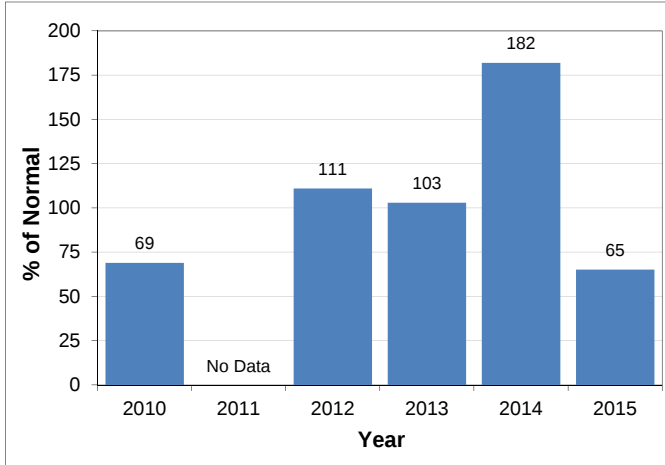
Skagit



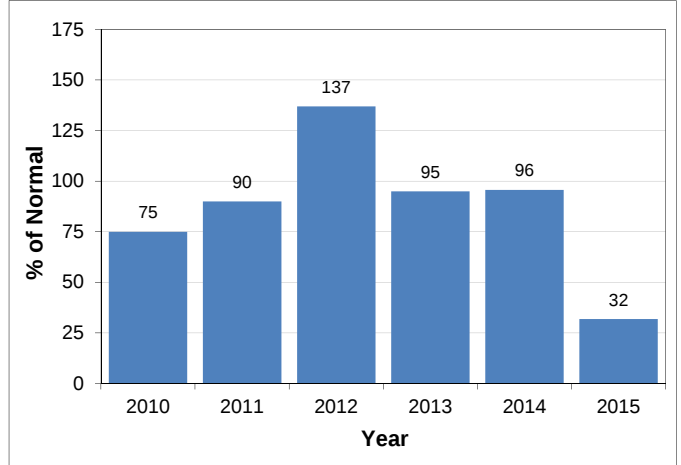
Peace



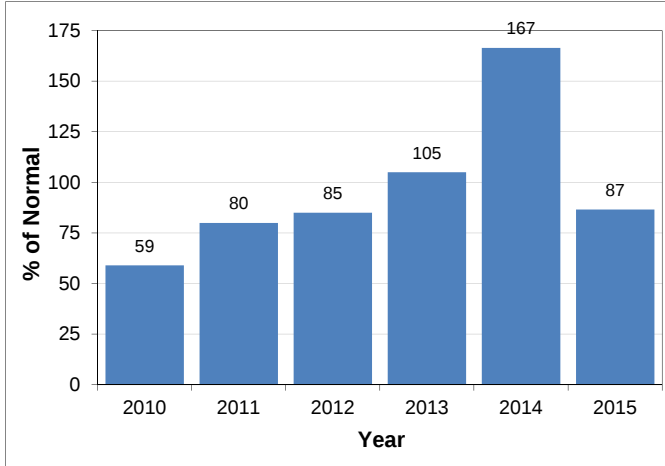
Skeena-Nass



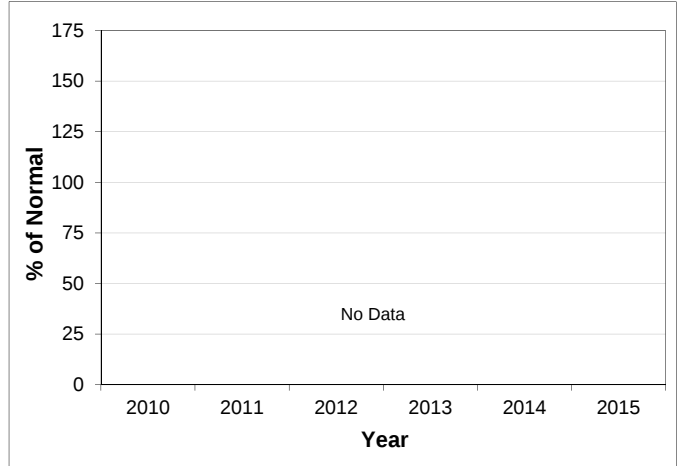
Stikine



Liard



Northwest



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

The February 1st snow survey is now complete. Data from 109 snow courses and 50 snow pillows around the province and climate data from Environment Canada have been used to form the basis for the following report¹.

Weather

Temperatures across British Columbia continued to be well above normal through the month of January. Temperatures were generally 2-4°C above normal, with the largest temperature anomalies occurring in the Central Interior and northern British Columbia. January sea surface temperature anomalies in the Pacific Ocean off the shores of British Columbia have continued to be several degrees above normal.

January precipitation trends have been varied across the province. Vancouver Island, South Coast, and Kootenays experienced below normal precipitation. Above normal precipitation occurred in the Okanagan, Interior, Central Coast and Northwest BC. With increased temperatures, particularly on Vancouver Island and south-west BC, rainfall was the dominant form of precipitation through mid-elevation terrain.

Snowpack

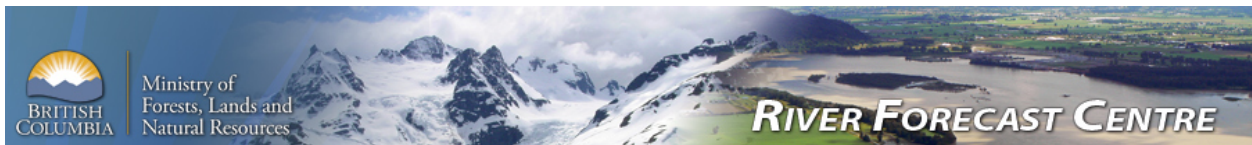
Snow pack accumulation trends from early in the season have persisted throughout January. With the exception of the Upper Fraser West and the Central Coast, all regions of the province have below normal February 1st snow basin indices (Figure 1). Snow basin indices range from a low of 12 % on the Skagit to a high of 148% of in Upper Fraser - West (Table 1 and Figure 1).

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

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	148	Boundary	87
Upper Fraser East	98	Similkameen	96
Nechako	109	South Coast	29
Middle Fraser	86	Vancouver Island	33
Lower Fraser	36	Central Coast	115
North Thompson	87	Skagit	12
South Thompson	90	Peace	91
Upper Columbia	97	Skeena-Nass	96
West Kootenay	84	Stikine	85
East Kootenay	80	Liard	77
Okanagan	92	Northwest	NO DATA

Near-normal (90-100%) to slightly below normal (80-90%) snow packs are present through most of the province. Extremely low snow packs (<40%) are present throughout south-west BC, including the Lower Fraser, South Coast, Vancouver Island and Skagit basins. This is

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 – February 1st, 2015

the result of both warmer temperatures and drier conditions through the winter in these regions.

Variability in snow packs are present within snow basins. Above normal (>120%) snow measurements were observed in areas surrounding the Cariboo Mountains, Bowron and headwaters of the Quesnel River, West Central BC including areas around Burns Lake, Francois Lake and around Houston, and through the Chilcotin.

Outlook

Warm Pacific Ocean temperatures and weak El Niño-like conditions are expected to persist into the spring. These will likely drive continued warmer than average temperatures, particularly along coastal sections of the province. Environment Canada is forecasting a high likelihood of above normal temperatures over the February to April period across British Columbia.

By early February, two-thirds of the annual BC snowpack has typically accumulated. With the current seasonal weather outlook and snow pack conditions in south-west British Columbia, it is unlikely that snow packs will recovery significantly unless the region experiences much higher than normal precipitation over the next few months. Depending on spring weather, low flows can be expected to occur earlier than normal on Vancouver Island, South Coast, Skagit and Lower Fraser basins, and there is an increased risk of low flows through the summer.

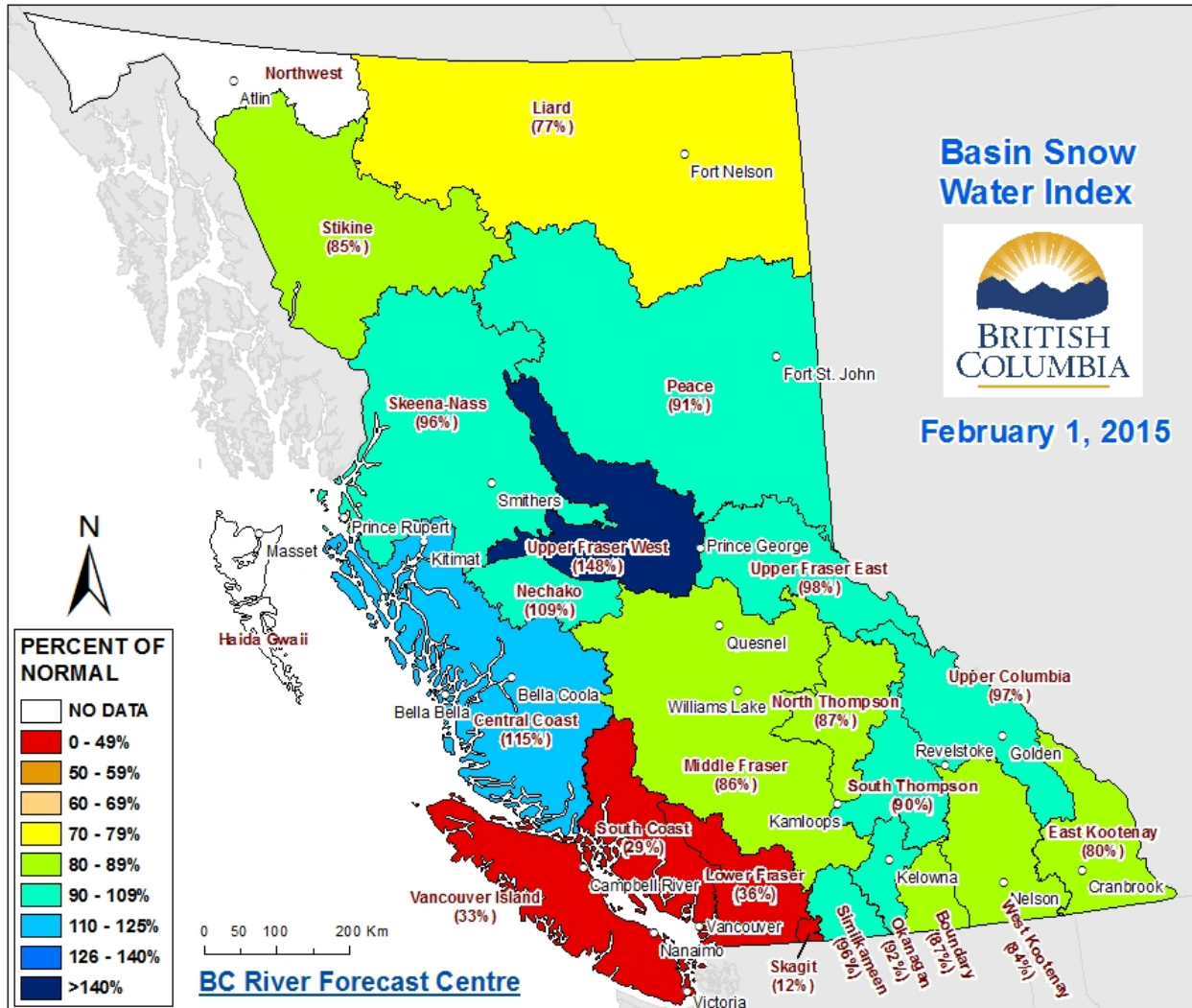
At a basin-wide scale, higher than normal snow packs in the Upper Fraser West basin indicate a trend towards increased seasonal flood risk in the unregulated regions of the Nechako basin this year. Similar smaller pockets of higher snow packs and potential increased flood risk exist in west central BC (Houston, Burns Lake, Vanderhoof), West Chilcotin, and Cariboo Mountains (Bowron River, Quesnel River and area). However, with two or more months still left of the snow accumulation season, conditions may change in these or other areas of the province.

The River Forecast Centre will continue to monitor snow pack conditions and will provide an updated seasonal flood risk forecast in the March 1st 2015 bulletin, which is scheduled for release on March 9th.

BC River Forecast Centre
February 6, 2015

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

Figure 1: Basin Snow Water Index – February 1st, 2015



2015 Automated Snow Pillow/Manual Snow Survey Data				February					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	YELLOWHEAD LAKE	Upper Fraser East	1847	2015-02-01	114	337		85%	359	267	233	596	396	17
1A02P	MC BRIDE (UPPER)	Upper Fraser East	1608	2015-02-01	128	368		120%	394	229	195	522	306	22
1A03P	BARKERVILLE	Upper Fraser East	1483	2015-02-01	79	245		114%	285	210	116	368	214	39
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	NS					1042	592	236	1042	559	41
1A06A	HANSARD	Upper Fraser East	622	NS					NS	NS	112	326	180	19
1A10	PRINCE GEORGE A	Upper Fraser East	684	NS					147	124	0	224	96	53
1A11	PACIFIC LAKE	Upper Fraser East	756	2015-01-28	96	307		71%	679	453	179	679	430	47
1A12	KAZA LAKE	Upper Fraser West	1247	2015-01-30	93	217		90%	266	220	125	440	240	42
1A14P	HEDRICK LAKE	Upper Fraser East	1118	2015-02-01	150	414		79%	911	649	356	934	524	14
1A15	KNUDSEN LAKE	Upper Fraser East	1598	2015-01-28	160	523		94%	818	455	284	899	554	44
1A16	BURNS LAKE	Upper Fraser West	820	2015-02-02	79	156		141%	86	94	44	232	111	44
1A17P	REVOLUTION CREEK	Upper Fraser East	1676	2015-02-01	205	532		93%	871	557	295	1042	574	29
1A19P	DOVE MOUNTAIN	Upper Fraser East	1768	2015-02-01	164	519		104%	699	449	364	853	501	8
1A23	BIRD CREEK	Upper Fraser West	1196	2015-02-04	102	220		214%	104	112	56	196	103	23
1B01	MOUNT WELLS	Nechako	1489	2015-02-04	175	466		128%	344	272	188	606	365	29
1B01P	MOUNT WELLS	Nechako	1489	2015-02-01	N/A	484		118%	386	259	210	656	411	22
1B02	TAHTSA LAKE	Nechako	1319	2015-02-03	273	773		91%	585	694	508	1442	853	58
1B02P	TAHTSA LAKE	Nechako	1319	2015-02-01	N/A	730.4	E	79%	630	564	564	1532	929	22
1B05	SKINS LAKE	Nechako	877	2015-01-30	67	146		176%	55	88	35	224	83	46
1B06	MOUNT SWANNELL	Nechako	1596	2015-02-04	136	353		167%	210	168	88	334	211	25
1B07	NUTLI LAKE	Nechako	1502	2015-02-04	153	404		107%	262	218	218	729	378	23
1B08P	MOUNT PONDOSY	Nechako	1413	2015-02-01	N/A	689		119%	273	343	273	877	578	22
1C01	BROOKMERE	Middle Fraser	994	NS					NS	NS	41	297	142	45
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	2015-01-30	85	269		68%	205	296	150	645	397	61
1C06	PAVILION	Middle Fraser	1209	2015-01-30	14	40		82%	NS	NS	0	130	49	29
1C08	NAZKO	Middle Fraser	1029	2015-01-30	46	103		181%	100	54	6	132	57	35
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	NS					NS	NS	20	188	67	24
1C12P	GREEN MOUNTAIN	Middle Fraser	1766	2015-02-01	N/A	466		75%	278	439	278	985	620	20
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	NS					NS	NS	204	475	310	9
1C14	BRALORNE	Middle Fraser	1382	2015-01-30	28	73		58%	84	NS	0	338	125	41
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2015-02-01	61	175		79%	315	221	92	384	221	47
1C18P	MISSION RIDGE	Middle Fraser	1903	2015-02-01	N/A	237		60%	290	322	185	794	398	44
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	NS					NS	NS	18	198	76	22
1C20P	BOSS MOUNTAIN MINE	Middle Fraser	1477	2015-02-01	124	388		94%	383	351	281	611	411	20
1C21	BIG CREEK	Middle Fraser	1130	2015-01-28	32	80		163%	72	36	0	94	49	39
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	2015-01-30	36	84		162%	64	44	0	126	52	42
1C23	PENFOLD CREEK	Middle Fraser	1687	NS					NS	NS	663	663	663	2
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	2015-01-30	42	86		88%	73	143	13	177	98	42
1C28	DUFFEY LAKE	Middle Fraser	1253	NS					NS	NS				

2015 Automated Snow Pillow/Manual Snow Survey Data				February					Historic Snow Water Equivalent (mm)					
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1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	2015-01-30	52	146		86%	121	200	48	307	169	32
1C32	DEADMAN RIVER	Middle Fraser	1463	NS					NS	NS	50	130	81	6
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	2015-02-03	62	157		113%	173	145	97	175	139	9
1C37	BRALORNE(UPPER)	Middle Fraser	1980	2015-01-30	110	372		86%	250	NS	178	724	434	19
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	2015-01-30	156	564		87%	208	NS	208	980	646	18
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	2015-01-30	106	346		78%	164	306	112	688	444	18
1C40	TYAUGHTON CREEK (NORTH)	Middle Fraser	1946	2015-01-30	85	254		77%	224	NS	128	654	331	16
1C41P	YANKS PEAK, EAST	Middle Fraser	1683	2015-02-01	171	591		105%	787	540	312	803	565	17
1C42	CAVERHILL LAKE NEW	Middle Fraser	N/A	NS					NS					
1D06P	TENQUILLE LAKE	Lower Fraser	1669	2015-02-01	191	584		82%	344	577	344	1092	708	13
1D08	STAVE LAKE	Lower Fraser	1211	2015-01-29	72	261		30%	418	NS	163	2010	881	39
1D09	WAHLEACH LAKE	Lower Fraser	1395	2015-01-29	14	38		10%	243	559	33	665	364	40
1D09P	WAHLEACH LAKE	Lower Fraser	1408	2015-02-01	N/A	246		38%	325	661	314	1061	644	22
1D10	NAHATLATCH RIVER	Lower Fraser	1530	2015-01-29	107	387		46%	NS	NS	262	1359	833	36
1D16	DICKSON LAKE	Lower Fraser	1147	2015-01-29	34	122		13%	472	1530	206	1538	918	19
1D17P	CHILLIWACK RIVER	Lower Fraser	1621	2015-02-01	115	550		55%	1001	1125	368	1659	992	22
1D19P	SPUZZUM CREEK	Lower Fraser	1197	2015-02-01	85	328		31%	544	1176	300	1902	1074	15
1E01B	BLUE RIVER	North Thompson	673	2015-02-02	99	216		88%	332	185	98	380	245	30
1E02P	MOUNT COOK	North Thompson	1574	2015-02-01	224	840		94%	784	835	713	1098	890	14
1E03A	TROPHY MOUNTAIN	North Thompson	1907	NS					NS	NS				
1E05	KNOUFF LAKE	North Thompson	1189	2015-02-02	46	122		112%	123	132	38	229	109	52
1E07	ADAMS RIVER	North Thompson	1769	2015-02-02	134	291		64%	468	471	285	654	457	33
1E08P	AZURE RIVER	North Thompson	1625	2015-02-01	207	801		98%	607	821	506	1043	814	17
1E10P	KOSTAL LAKE	North Thompson	1760	2015-02-01	182	567		93%	572	539	417	790	611	29
1F01A	ABERDEEN LAKE	South Thompson	1262	2015-02-03	64	180		168%	123	116	48	193	107	57
1F02	ANGLEMONT	South Thompson	1168	2015-01-30	70	254		93%	346	244	130	483	272	54
1F03P	PARK MOUNTAIN	South Thompson	1857	2015-02-01	153	537		91%	607	608	331	867	593	29
1F04	ENDERBY	South Thompson	1948	NS					707	817	348	932	688	48
1F06P	CELISTA MOUNTAIN	South Thompson	1533	2015-02-01	170	584		91%	533	599	533	788	643	9
2A01A	CANOE RIVER	Upper Columbia	866	2015-02-04	47	124		168%	120	47	17	140	74	38
2A02	GLACIER	Upper Columbia	1249	2015-01-26	137	419		90%	480	428	241	828	468	74
2A03A	FIELD	Upper Columbia	1310	2015-01-29	54	144		117%	130	76	46	233	123	75
2A06P	MOUNT REVELSTOKE	Upper Columbia	1770	2015-02-01	N/A	687		84%	677	769	464	1190	819	21
2A07	KICKING HORSE	Upper Columbia	1648	2015-01-30	72	201		89%	222	178	102	384	227	68
2A11	BEAVERFOOT	Upper Columbia	1924	2015-02-03	55	142		100%	148	170	78	244	142	43
2A14	MOUNT ABBOT	Upper Columbia	2031	2015-01-27	204	684		83%	685	785	396	1209	822	54
2A16	GOLDSTREAM	Upper Columbia	1914	2015-01-29	224	816		100%	709	721	460	1136	816	43
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	2015-01-28	221	705		83%	736	687	430	1376	854	52
2A18	KEYSTONE CREEK	Upper Columbia	1839	2015-01-29	149	548		100%	396	520	290	866	548	42

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2A19	VERMONT CREEK	Upper Columbia	1533	2015-02-03	81	216		75%	229	NS	102	574	287	43
2A21P	MOLSON CREEK	Upper Columbia	1930	2015-02-01	N/A	604		80%	645	687	417	1155	759	33
2A22	SUNBEAM LAKE	Upper Columbia	2066	2015-02-04	201	613		97%	551	NS	348	886	629	42
2A23	BUSH RIVER	Upper Columbia	1982	2015-02-04	165	528		92%	418	NS	292	902	577	43
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	2015-01-29	225	843		102%	639	832	381	1472	827	37
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	NS					480	448	256	740	501	31
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	NS					726	910	466	1422	965	31
2B02A	FARRON	West Kootenay	1229	2015-01-29	66	174		79%	182	190	63	346	219	41
2B05	WHATSHAN (UPPER)	West Kootenay	1476	NS					445	418	249	759	475	36
2B06	BARNES CREEK	West Kootenay	1598	NS					373	339	169	612	360	46
2B06P	BARNES CREEK	West Kootenay	1595	2015-02-01	N/A	348		94%	366	355	195	566	369	21
2B07	KOCH CREEK	West Kootenay	1813	NS					NS	NS	203	708	497	34
2B08	ST. LEON CREEK	West Kootenay	1828	NS					755	809	474	1247	848	41
2B08P	ST. LEON CREEK	West Kootenay	1822	2015-02-01	N/A	692		90%	653	694	311	1130	767	21
2B09	RECORD MOUNTAIN	West Kootenay	1906	2015-01-27	103	306		64%	236	640	117	802	481	36
2C01	SINCLAIR PASS	East Kootenay	1374	NS					NS	NS	33	208	77	44
2C04	SULLIVAN MINE	East Kootenay	1580	2015-01-31	37	108		58%	188	238	46	397	187	69
2C07	FERNIE EAST	East Kootenay	1213	2015-01-29	57	166		78%	184	199	51	467	212	59
2C09Q	MORRISSEY RIDGE	East Kootenay	1966	2015-02-01	N/A	280		60%	399	428	173	886	463	34
2C10P	MOYIE MOUNTAIN	East Kootenay	1840	2015-02-01	59	192		67%	286	255	104	518	286	35
2C11	KIMBERLEY (UPPER) VOR	East Kootenay	2148	NS					NS	NS	114	571	290	23
2C12	KIMBERLEY (MIDDLE) VOR	East Kootenay	1692	NS					NS	NS	81	356	174	23
2C14	FLOE LAKE	East Kootenay	2087	2015-02-04	160	473		91%	418	606	239	811	517	41
2C14P	FLOE LAKE	East Kootenay	2110	2015-02-01	N/A	409		87%	408	533	221	746	471	21
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	2015-02-04	130	371		106%	NS	NS	140	592	351	38
2C16	MOUNT JOFFRE	East Kootenay	1763	2015-02-03	84	215		90%	223	289	96	439	240	40
2C17	THUNDER CREEK	East Kootenay	2062	2015-02-03	55	137		78%	193	NS	69	335	175	38
2C20	VERMILLION RIVER NO. 3	East Kootenay	1612	NS					NS	NS	130	363	188	15
2D02	FERGUSON	West Kootenay	929	2015-01-26	166	397		98%	360	340	237	616	407	37
2D03	SANDON	West Kootenay	1072	NS					NS	NS	328	328	N/A	1
2D04	NELSON	West Kootenay	952	2015-01-28	61	167		63%	160	180	79	508	264	76
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	2015-01-29	82	231		76%	345	NS	127	511	304	62
2D06	CHAR CREEK	West Kootenay	1290	2015-02-01	82	222		60%	256	368	117	650	371	48
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	2015-01-30	46	140		106%	104	62	60	283	132	24
2D08P	EAST CREEK	West Kootenay	2004	2015-02-01	N/A	522		85%	471	665	274	1012	616	33
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	NS					528	NS	409	1115	701	39
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	2015-01-29	135	411		83%	500	NS	268	792	497	41
2D14P	REDFISH CREEK	West Kootenay	2086	2015-02-01	233	869		106%	713	882	667	1067	821	12
2E01	MONASHEE PASS	Boundary	1387	NS					292	208	122	364	236	53

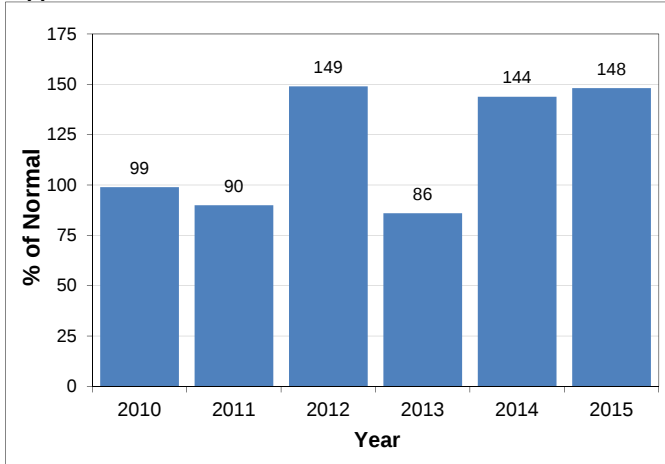
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2E02	CARMI	Boundary	1254	NS					NS	NS	51	196	97	26
2E03	BIG WHITE MOUNTAIN	Boundary	1672	2015-02-03	110	280		87%	301	334	178	483	322	47
2E06	BLUEJOINT MOUNTAIN	Boundary	1990	NS					NS	NS				
2E07P	GRANO CREEK	Boundary	1874	2015-02-01	84	274		83%	156	337	156	476	330	16
2F01A	TROUT CREEK (WEST)	Okanagan	1430	2015-01-28	56	145		99%	184	212	147	212	147	5
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	NS					120	159	65	307	156	50
2F03	MC CULLOCH	Okanagan	1266	2015-02-01	53	144		123%	166	153	63	196	117	75
2F04	GRAYSTOKE LAKE	Okanagan	1818	NS					308	266	128	324	219	14
2F05P	MISSION CREEK	Okanagan	1794	2015-02-01	86	287		90%	403	372	164	503	320	44
2F07	POSTILL LAKE	Okanagan	1358	2015-01-29	50	140		101%	122	134	73	243	138	64
2F08	GRAYBACK RESERVOIR	Okanagan	1548	2015-01-28	72	175		111%	195	191	60	269	157	40
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2015-01-27	90	275		75%	248	429	135	693	366	42
2F10	SILVER STAR MOUNTAIN	Okanagan	1834	2015-02-05	167	518		104%	483	626	229	721	498	56
2F11	ISINTOK LAKE	Okanagan	1651	NS					80	106	26	307	109	48
2F12	MOUNT KOBAL	Okanagan	1817	2015-01-31	60	181		92%	84	400	43	400	196	48
2F13	ESPERON CR (UPPER)	Okanagan	1634	NS					NS	NS	156	457	156	4
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	NS					NS	NS	146	399	208	11
2F18P	BRENDA MINE	Okanagan	1453	2015-02-01	N/A	207		83%	171	211	148	368	249	21
2F19	OYAMA LAKE	Okanagan	1365	2015-02-02	60	90		76%	44	100	31	193	119	46
2F20	VASEUX CREEK	Okanagan	1403	2015-01-31	44	104		120%	110	98	44	208	87	27
2F21	BOULEAU LAKE	Okanagan	1405	NS					NS	NS	168	396	216	8
2F23	MACDONALD LAKE	Okanagan	1742	NS					NS	285	132	411	273	16
2F24	ISLAHT LAKE	Okanagan	1492	2015-01-30	68	182		81%	123	NS	123	364	225	31
2F25	POSTILL LAKE (UPPER)	Okanagan	1500	2015-01-29	43	139			153		120	160	N/A	3
2G03P	BLACKWALL PEAK	Similkameen	1934	2015-02-01	144	471		85%	466	512	158	1076	553	46
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	2015-01-30	62	176		127%	150	212	70	335	139	53
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2015-01-30	51	131		91%	133	130	60	284	144	48
2G06	HAMILTON HILL	Similkameen	1477	2015-01-29	59	174		82%	106	185	91	411	213	49
3A01	GROUSE MOUNTAIN	South Coast	1126	2015-01-28	22	90		12%	250	1142	50	1530	761	64
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS					NS	NS				
3A05	POWELL RIVER (LOWER)	South Coast	882	NS					NS	NS	620	620	620	1
3A09	PALISADE LAKE	South Coast	898	NS					NS	NS	318	914	616	3
3A10	DOG MOUNTAIN	South Coast	1007	2015-01-28	18	77		11%	280	1071	206	1243	715	31
3A19	ORCHID LAKE	South Coast	1178	2015-01-30	72	273		25%	470	1289	408	1855	1114	35
3A20	CALLAGHAN CREEK	South Coast	1009	2015-01-30	48	160		30%	234	552	50	1040	542	31
3A22P	NOSTETUKO RIVER	South Coast	1457	2015-02-01	52	264		72%	160	279	120	780	368	25
3A24P	UPPER MOSLEY CREEK	South Coast	1655	2015-02-01	75	237		98%	162	127	106	509	242	25
3A25P	SQUAMISH RIVER (UPPER)	South Coast	1387	2015-02-01	N/A	566		52%	503	988	503	1543	1087	24
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	2015-01-28	65	231		25%	253	1091	42	1640	922	54

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3B02A	MT. COKELY	Vancouver Island	1267	NS					NS	NS	234	1050	586	6
3B04	ELK RIVER	Vancouver Island	270	2015-01-28	0	0	T	0%	0	82	0	544	61	54
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	NS					NS	NS	28	1534	285	18
3B13	HEATHER MOUNTAIN	Vancouver Island	1170	NS					NS	NS	0	864	362	7
3B17P	WOLF RIVER	Vancouver Island	1422	2015-02-01	N/A	350		41%	252	877	162	1383	858	32
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	2015-01-28	24	41		10%	0	544	0	742	400	42
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	2015-01-28	0	0	T	0%	0	368	0	572	244	41
3B23P	JUMP CREEK	Vancouver Island	1134	2015-02-01	8	0		0%	113	823	8	1367	616	18
3B24	HEATHER MOUNTAIN UPPER	Vancouver Island	N/A	NS					NS					
3C07	WEDEENE RIVER SOUTH	Central Coast	196	NS					NS	NS	105	497	304	13
3C08P	BURNT BRIDGE CREEK	Central Coast	1329	2015-02-01	152	663		115%	526	388	248	1124	577	16
3D01C	SUMALLO RIVER WEST	Skagit	801	2015-01-29	10	29		18%	57	NS	0	368	161	21
3D02	LIGHTNING LAKE	Skagit	1254	NS					NS	NS	67	242	154	3
3D03A	KLESILKWA	Skagit	1134	2015-01-29	4	10		6%	60	NS	0	508	180	52
4A02	PINE PASS	Peace	1439	2015-01-31	207	670		81%	955	755	411	1194	827	42
4A02P	PINE PASS	Peace	1386	2015-02-01	191	555		74%	839	599	469	1250	745	25
4A03	WARE (UPPER)	Peace	1563	2015-01-29	67	152		83%	166	204	108	289	184	43
4A04	WARE (LOWER)	Peace	969	2015-01-29	63	146		102%	186	137	63	286	143	44
4A05	GERMANSEN (UPPER)	Peace	1489	2015-01-30	99	252		106%	235	216	140	371	237	45
4A06	TUTIZZI LAKE	Peace	1043	2015-01-30	79	174		94%	192	175	109	348	186	45
4A07	LADY LAURIER LAKE	Peace		2015-01-29	123	325		88%	343	290	226	679	369	42
4A09	PULPIT LAKE	Peace	1331	2015-01-29	114	263		84%	361	328	190	530	312	44
4A09P	PULPIT LAKE	Peace	1331	2015-02-01	106	274		85%	350	335	232	405	324	24
4A10	FREDRICKSON LAKE	Peace	1323	2015-01-30	81	196		109%	233	135	110	309	179	44
4A11	TRYGVE LAKE	Peace	1409	2015-01-30	98	236		89%	224	242	183	434	264	43
4A12	TSAYDAYCHI LAKE	Peace	1173	2015-01-30	109	272		98%	271	232	146	507	277	45
4A13	PHILIP LAKE	Peace	1013	2015-01-30	79	199		100%	166	204	118	355	199	46
4A16	MORFEE MOUNTAIN	Peace	1427	2015-01-30	109	511		86%	736	606	323	952	597	46
4A18	MOUNT SHEBA	Peace	1480	NS					759	567	299	932	566	45
4A20	MONKMAN CREEK	Peace	1566	NS					482	366	163	775	376	35
4A21	MOUNT STEARNS	Peace	1514	NS					100	115	40	196	103	40
4A25	FORT ST. JOHN AIRPORT	Peace	692	NS					132	121	22	154	80	39
4A27P	KWADACHA RIVER	Peace	1695	2015-02-01	93	216	E	92%	238	222	139	371	234	17
4A30P	AIKEN LAKE	Peace	1061	2015-02-01	N/A	172		89%	194	152	116	330	193	29
4B01	KIDPRICE LAKE	Skeena-Nass	1415	NS					512	490	420	1220	664	55
4B02	JOHANSON LAKE	Skeena-Nass	1480	NS					214	184	115	355	211	43
4B03A	HUDSON BAY MTN	Skeena-Nass	1452	NS					340	299	221	665	361	43
4B04	CHAPMAN LAKE	Skeena-Nass	1485	NS					NS	NS				
4B06	TACHEK CREEK	Skeena-Nass	1133	NS					170	142	99	298	156	18

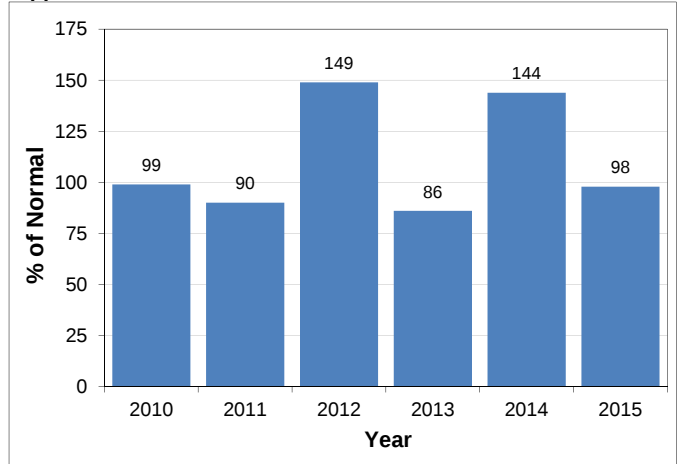
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4B07	MCKENDRICK CREEK	Skeena-Nass	1048	NS					NS	NS	264	264	N/A	1
4B08	MOUNT CRONIN	Skeena-Nass	1491	NS					NS	NS				
4B10	NINGUNSAW PASS	Skeena-Nass	647	NS					245	242	171	603	312	36
4B11A	BEAR PASS	Skeena-Nass	437	NS					NS	315	192	821	455	28
4B13A	TERRACE AIRPORT	Skeena-Nass	219	NS					18	59	0	330	128	33
4B14	EQUITY MINE	Skeena-Nass	1434	NS					NS	NS	174	444	265	13
4B15	LU LAKE	Skeena-Nass	1296	NS					NS	NS	134	352	214	12
4B15P	LU LAKE	Skeena-Nass	1308	2015-02-01	120	322		168%	214	182	90	351	192	16
4B16P	SHEDIN CREEK	Skeena-Nass	1320	2015-02-01	153	382		62%	499	449	435	878	617	18
4B17P	TSAI CREEK	Skeena-Nass	1369	2015-02-01	208	769		93%	561	632	561	1489	827	16
4B18P	CEDAR - KITEEN	Skeena-Nass	912	2015-02-01	489	342		70%	613	327	254	856	486	13
4C01	SIKANNI LAKE	Liard	1390	NS					256	171	81	325	193	46
4C02	SUMMIT LAKE	Liard	1291	NS					NS	NS	36	146	91	17
4C03	DEASE LAKE	Liard	805	NS					218	148	36	218	101	48
4C05	FORT NELSON A	Liard	368	NS					94	113	35	128	76	48
4C15	JADE CITY	Liard	943	2015-01-30	67	144		87%	260	178	102	260	165	12
4D01	TELEGRAPH CREEK	Stikine	490	NS					NS	NS	51	244	110	19
4D02	ISKUT	Stikine	931	NS					90	76	30	162	82	37
4D11P	KINASKAN LAKE	Stikine	1020	2015-02-01	68	194								
4E02B	ATLIN LAKE	Northwest		NS										
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 - February 1, 2015

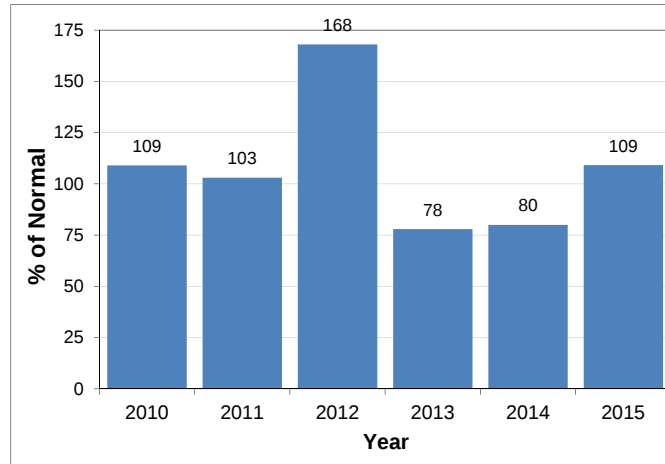
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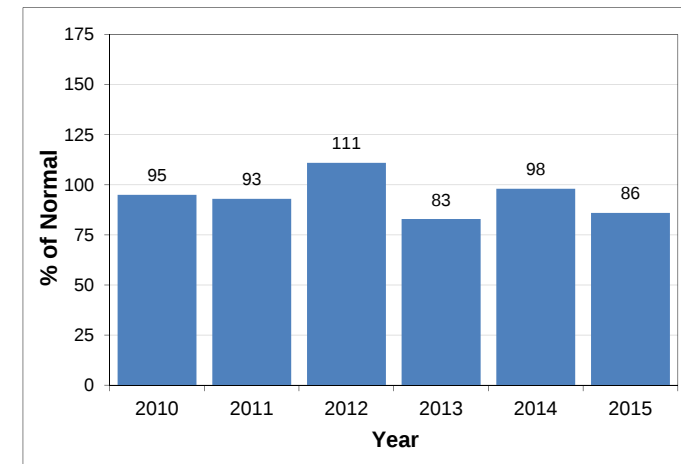
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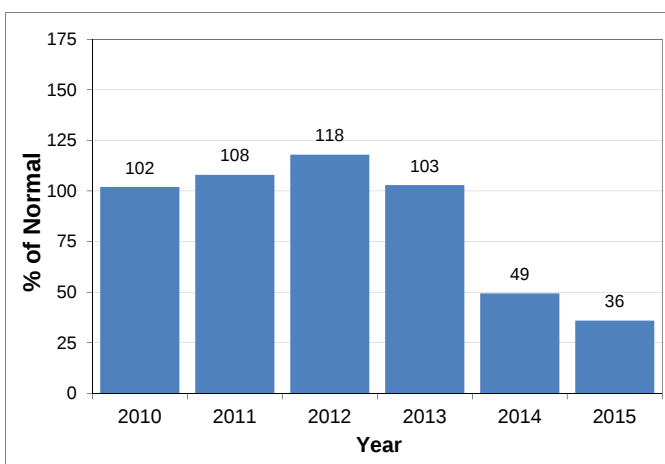
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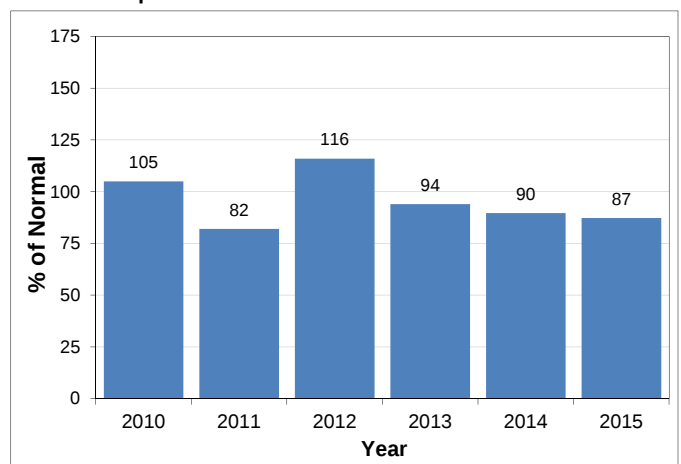
Middle Fraser



Lower Fraser

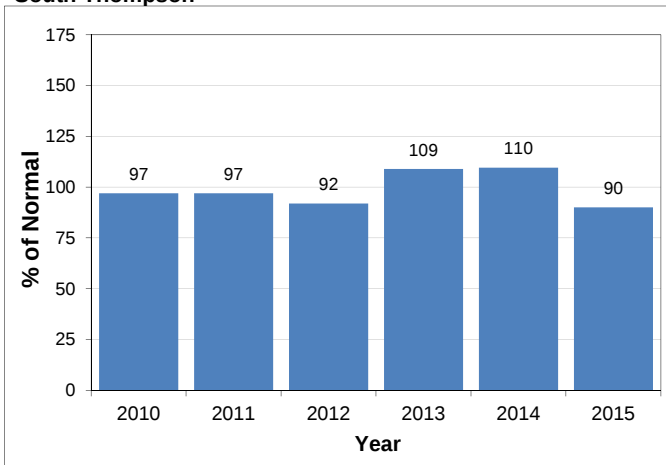


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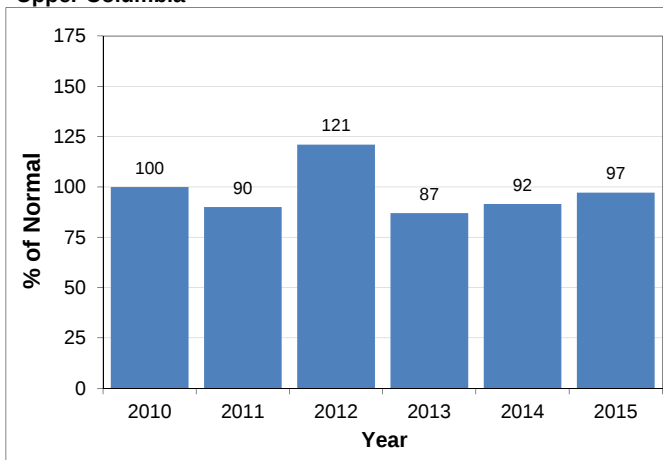


Snow Basin Index Graphs - February 1, 2015

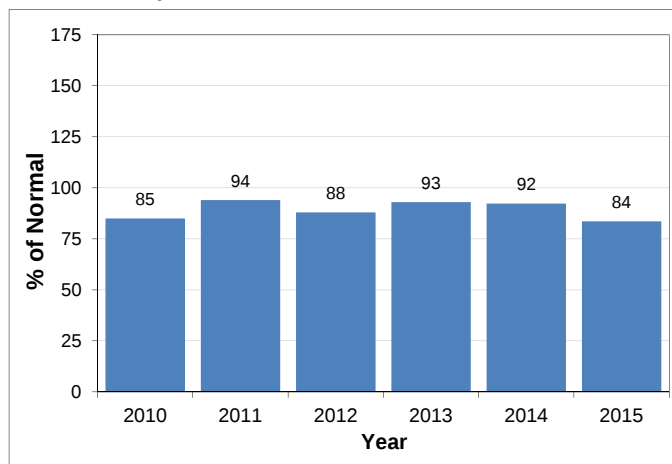
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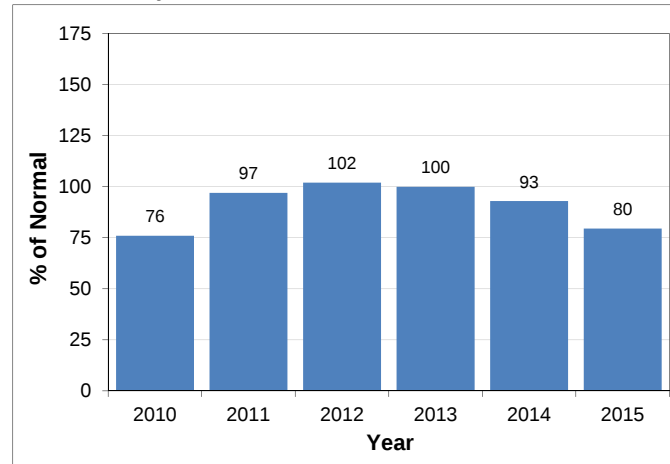
Upper Columbia



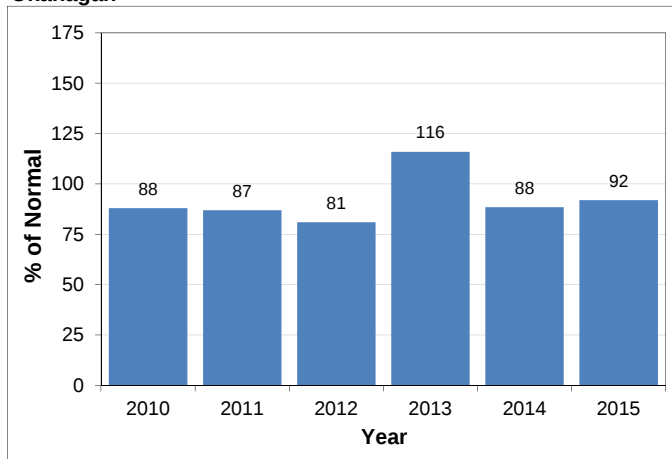
West Kootenay



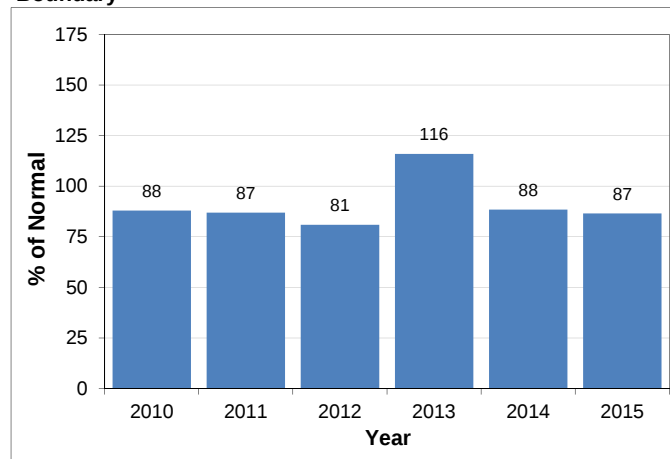
East Kootenay



Okanagan

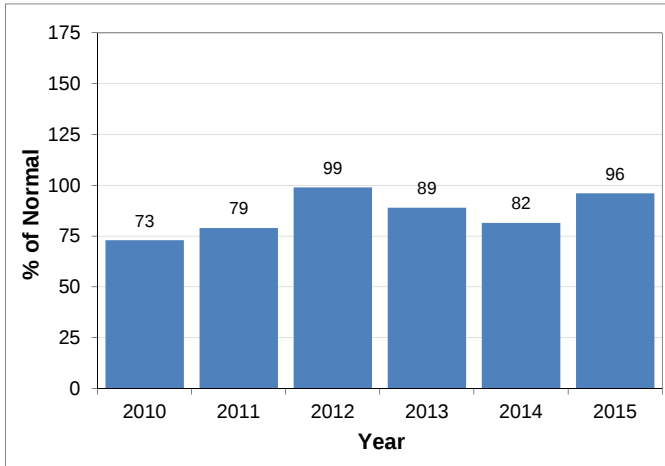


Boundary

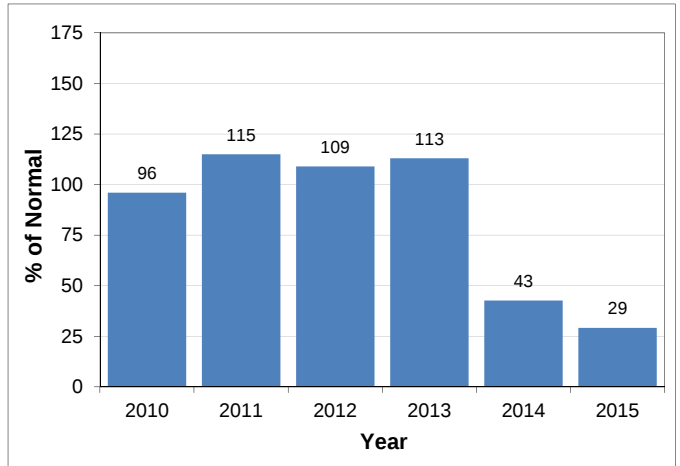


Snow Basin Index Graphs - February 1, 2015

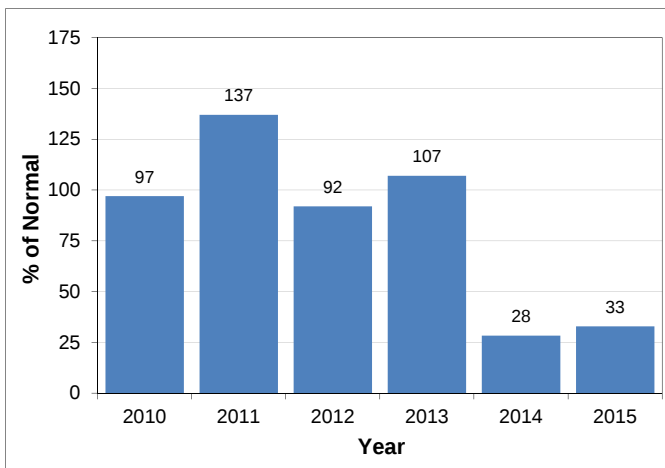
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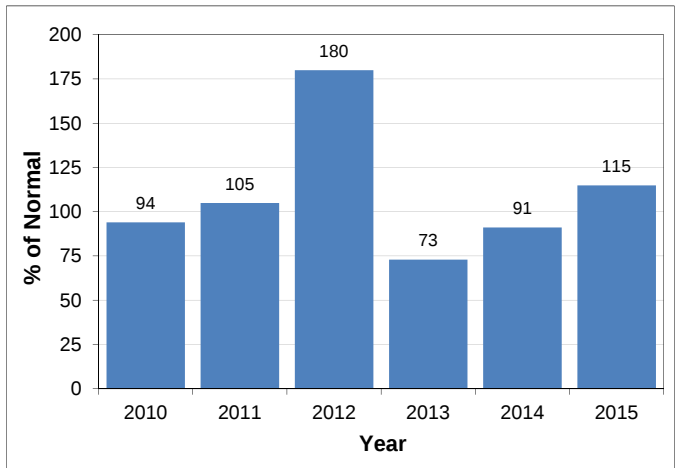
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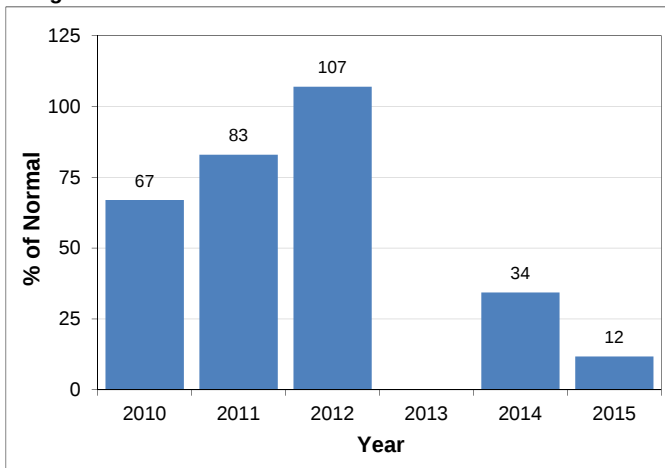
Vancouver Island



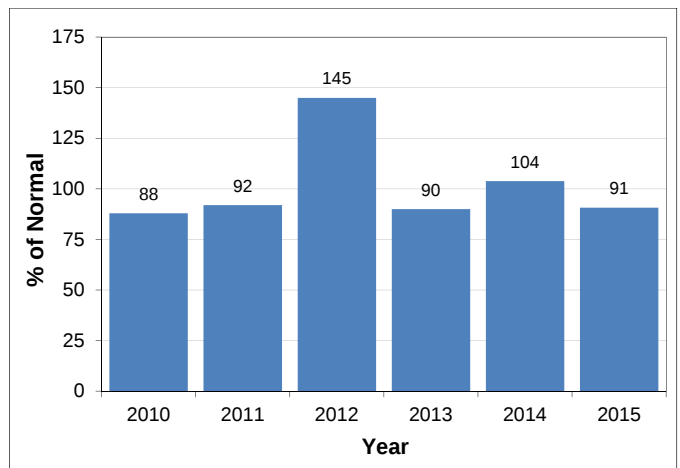
Central Coast



Skagit

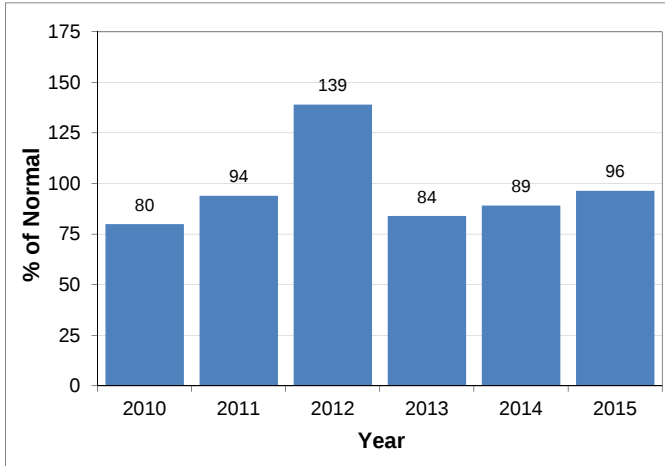


Peace

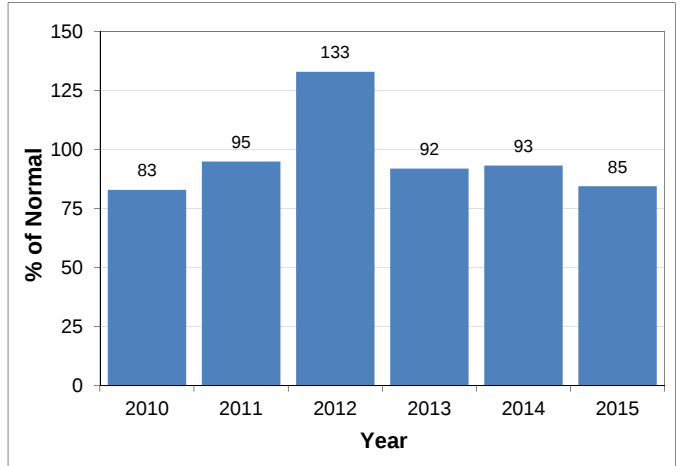


Snow Basin Index Graphs - February 1, 2015

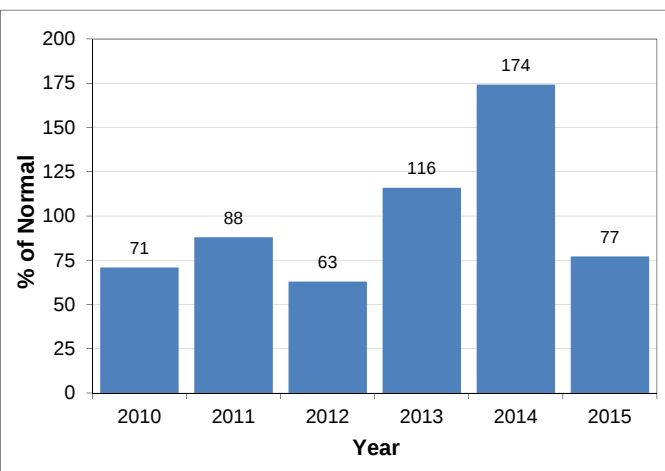
Skeena-Nass



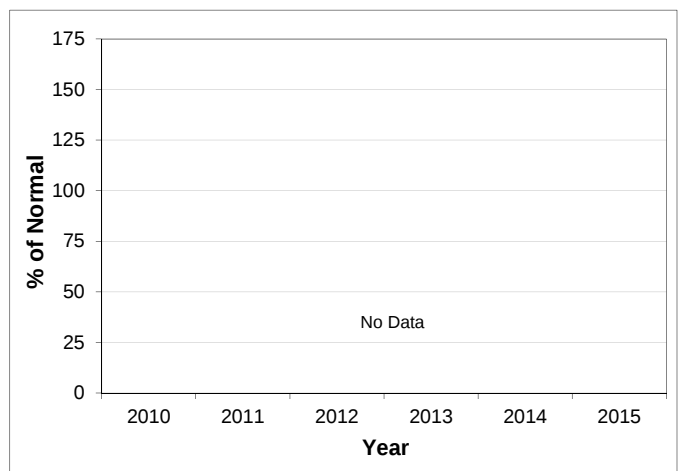
Stikine



Liard



Northwest



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

Location		Feb - Jun Runoff				Feb - Jul Runoff				Feb - 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					4145	3858	107	333	5753	5325	108	396
	McGregor at Lower Canyon					3965	4185	95	553	5031	5231	96	672
	Fraser at Shelley					17265	16786	103	1716	21440	20845	103	2033
Middle Fraser Basin	Quesnel River at Quesnel					5300	4930	108	551	6814	6261	109	661
Thompson Basin	N. Thompson at McLure					8381	9411	89	710	9933	11580	86	925
	S. Thompson at Chase					6346	6389	99	650	7963	7956	100	940
	Thompson at Spences Bridge					15688	16353	96	1381	19338	20333	95	1775
Bulkley and Skeena	Bulkley at Quick					2784	2784	100	1655	3410	3381	101	2173
	Skeena at Usk					19887	19604	101	1553	23227	23948	97	2123
Nicola Lake	Inflows	80	131	61	33	140	148	95	38				
Nicola River	at Spences Bridge	405	549	74	100	446	616	72	123				
Okanagan and Kalamalka- Wood Lake	Okanagan Lake with Greyback (2F08)	486	488	100	99	511	515	99	120				
	Kalamalka-Wood Lake	18.8	33.1	57	12.8	18.1	34.5	52	15.1				
Similkameen River	at Nighthawk	1469	1391	106	166					1792	1701	105	196
	at Hedley	1166	1080	108	139					1371	1268	108	148

Note: 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.

There is inherent uncertainty in runoff forecasts including potential errors in data and the unpredictable nature of seasonal weather

Use at your own risk

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

The March 1st snow survey is now complete. Data from 147 snow courses and 50 snow pillows around the province and climate data from Environment Canada have been used to form the basis for the following report¹.

Weather

Temperatures across British Columbia continued to be well above normal through the month of February. Temperatures were generally 3-5°C above normal, with the largest temperature anomalies occurring in southwest British Columbia. February sea surface temperature anomalies in the Pacific Ocean off the shores of British Columbia have continued to be several degrees above normal.

February precipitation trends have been varied across the province. Vancouver Island, South Coast, and the Kootenay's experienced below normal precipitation. Above normal precipitation occurred in the Okanagan, Central Interior, Northwest and Northeast BC. With increased temperatures, rainfall was the dominant form of precipitation through mid-elevation terrain.

Snow Pack

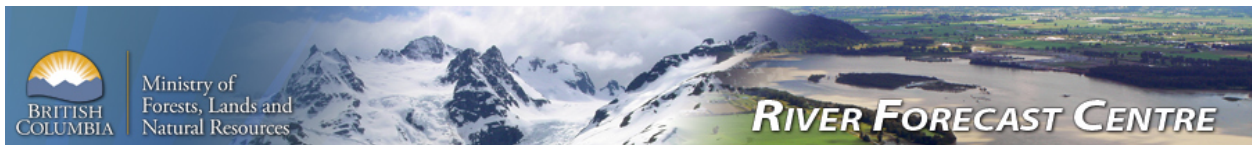
Snow pack accumulation trends from early in the season have persisted throughout February. Modest declines in snow basin indices were observed in most basins between the February and March surveys. With the exception of the Upper Fraser West, all regions of the province have near normal or below normal March 1st snow basin indices (Figure 1). Snow basin indices range from a low of 15 % on the South Coast to a high of 142% of in Upper Fraser West (Table 1 and Figure 1).

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

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	142	Boundary	75
Upper Fraser East	98	Similkameen	89
Nechako	105	South Coast	15
Middle Fraser	84	Vancouver Island	21
Lower Fraser	28	Central Coast	93
North Thompson	96	Skagit	27
South Thompson	91	Peace	95
Upper Columbia	91	Skeena-Nass	92
West Kootenay	83	Stikine	70
East Kootenay	76	Liard	83
Okanagan	85	Northwest	78

Near-normal (90-110%) to slightly below normal (80-90%) snow packs are present through most of the province. Moderately low snow packs (70-80%) are present in the East Kootenay, Boundary, Stikine and the Northwest. Extremely low snow packs (<40%) are

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 – March 1st, 2015

present throughout southwest BC, including the Lower Fraser, South Coast, Vancouver Island and Skagit basins.

The overall Fraser Basin snow index is 84%, with the extremely low snow pack in the Lower Fraser offsetting the moderate snow packs in the Upper Fraser, Middle Fraser and Thompson basins.

Variability in snow packs is present within snow basins. Above normal (>120%) snow measurements were observed in West Central BC including areas around Burns Lake, Francois Lake and around Houston, and through the Chilcotin.

Field observations around the province indicate that snow packs at valley bottom to mid-elevation (e.g. 800-1100m) is limited. As most snow basin indices are based on observations at higher elevations (e.g. 1100m-2000m), indices reported here may not fully reflect the snow pack situation at low to mid-elevation.

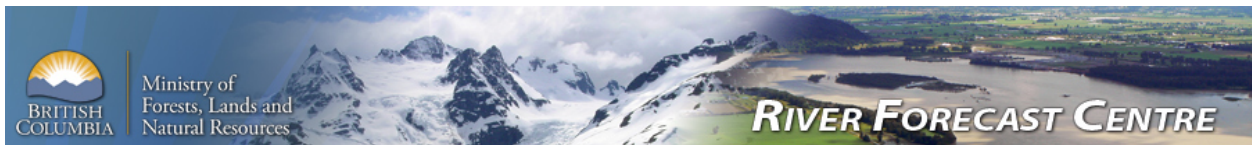
The extremely low snow packs in southwest BC and low snow packs in the low to mid-elevation terrain, are the result of both warmer temperatures and drier conditions through the winter. A high proportion of precipitation has been delivered as rain rather than snow. Snow basin indices are at historic minimum values (30 years of record) in the Lower Fraser, South Coast and Skagit basins, and near minimum values on Vancouver Island. Similar low snow pack conditions in southwest BC were observed in 2005.

Streamflow Runoff

As a result of warmer temperatures, increased proportion of precipitation falling as rain rather than snow, and mid-season melt of snow packs (particularly at low- to mid-elevation), rivers across the province have seen well above normal flows through the winter. Flows through this water year (October 1st, 2014 to February 28th, 2015) have been approximately 130-170% of normal through the Thompson River Basin, 115% of normal in the Okanagan, 150% of normal on the Skeena River, and near historic maximum levels through the Fraser River (from Prince George through Hope) for the time of year, but remain below flood stage.

Outlook

Warm Pacific Ocean temperatures and weak El Niño-like conditions are expected to persist into the spring. However NOAA is suggesting that the influence of El Niño through the spring is likely to be small given the weak nature of the El Niño conditions. In the north Pacific, well above normal temperatures continue to persist and are likely to have a stronger influence on temperature patterns into the spring, particularly along coastal sections of the province. Environment Canada is forecasting a high likelihood of above normal temperatures over the March to May period across British Columbia.



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

By early March, 80% of the annual BC snow pack has typically accumulated. At a basin-wide scale, higher than normal snow packs in the Upper Fraser West basin indicate a trend towards increased seasonal flood risk in the unregulated regions of the Nechako basin this year. Similar smaller pockets of higher snow packs and potential for increased flood risk exist in west central BC (Houston, Burns Lake, Vanderhoof) and West Chilcotin. Near-normal snow packs (90-110%) in the Upper Fraser East, Nechako, North Thompson, South Thompson, Upper Columbia, Central Coast, Peace and Skeena-Nass indicate normal seasonal flood risk. Below normal snow packs (70%-90%) in the Middle Fraser, West Kootenay, East Kootenay, Okanagan, Boundary, Similkameen, Stikine, Liard, and North-west indicate below normal seasonal flood risk for these regions. Similarly, seasonal flood risk for the entire Fraser River is below normal, with the observed 84% of normal snow basin index being the 54th lowest year out of the past 63 years of snow observations, and the forecast peak flow for the Fraser River at Hope, given normal seasonal weather, is estimated to be 7500-8500 m³/s, or slightly below mean annual flood level.

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

With the current seasonal weather outlook and snow pack conditions in southwest British Columbia, it is unlikely that snow packs will recover significantly. With extremely low snow packs in the Lower Fraser, South Coast, Skagit and Vancouver Island, runoff from snow melt will be limited. 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. To a lesser extent, lower snow packs in the East Kootenay, Boundary, Stikine and 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 below. Near normal runoff is forecast for most basins, with below normal runoff forecast for the Nicola (70-78% of normal) and Okanagan (85-86% of normal) and Kalamalka-Wood (59-63% of normal).

The River Forecast Centre will continue to monitor snow pack conditions and streamflows and will provide updated seasonal flood risk and water supply forecasts in the April 1st 2015 bulletin, which is scheduled for release on Wednesday, April 8th.

BC River Forecast Centre
March 9, 2015

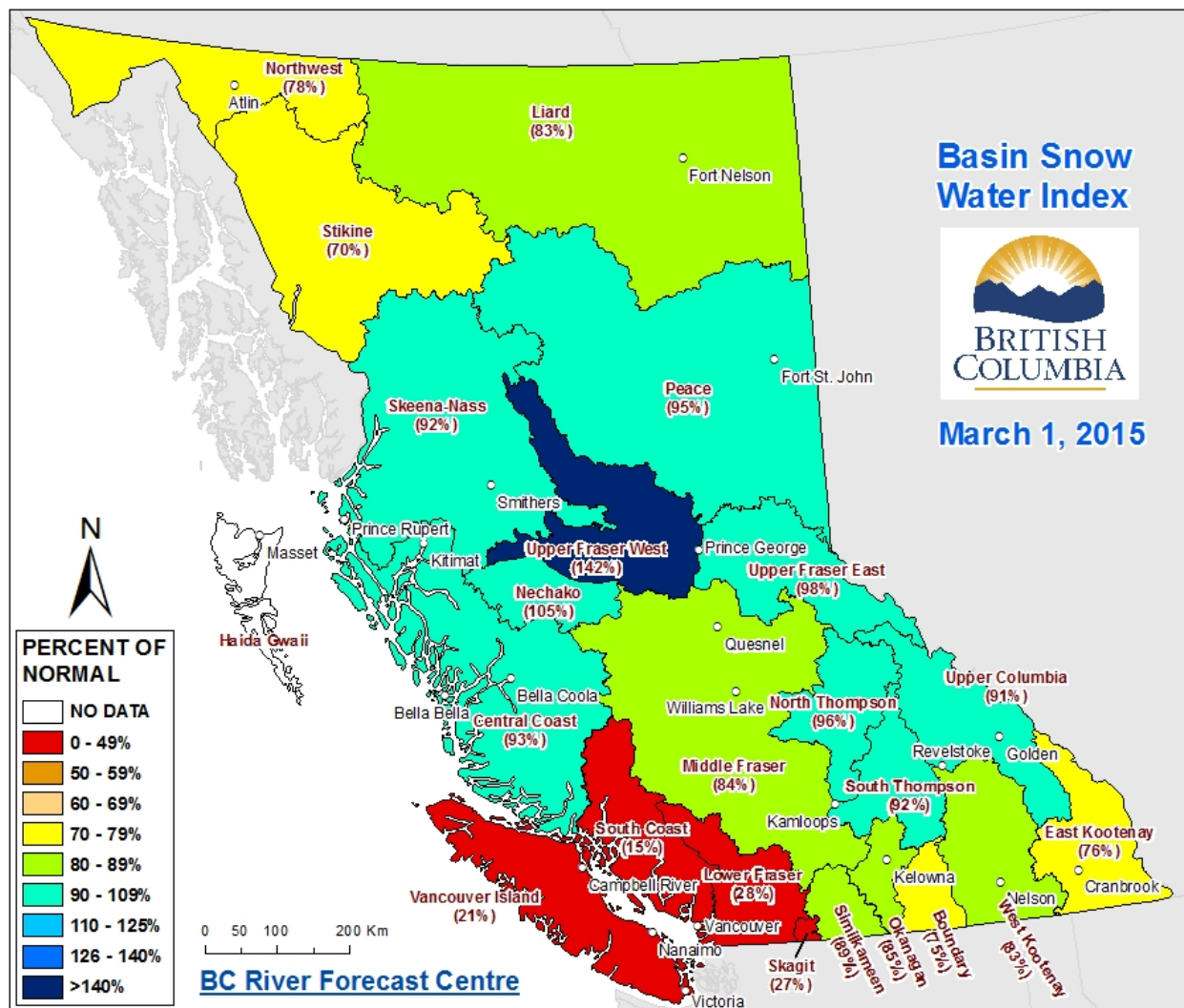


Ministry of
Forests, Lands and
Natural Resources

RIVER FORECAST CENTRE

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

Figure 1: Basin Snow Water Index – March 1st, 2015



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.

2015 Automated Snow Pillow/Manual Snow Survey Data				March					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	2015-03-01	128	428		96%	347	563	266	720	445	16
1A02P	MC BRIDE (UPPER)	Upper Fraser East	1608	2015-03-01	133	414		111%	311	556	257	562	372	21
1A03P	BARKERVILLE	Upper Fraser East	1483	2015-03-01	90	274		94%	287	353	150	479	292	38
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	2015-02-24	223	858		127%	804	954	307	1104	676	54
1A06A	HANSARD	Upper Fraser East	622	2015-02-26	70	218		128%	357	167	44	396	170	41
1A10	PRINCE GEORGE A	Upper Fraser East	684	2015-02-26	44	124		106%	140	131	0	296	117	52
1A11	PACIFIC LAKE	Upper Fraser East	756	2015-02-24	112	392		72%	732	866	277	866	546	51
1A12	KAZA LAKE	Upper Fraser West	1247	2015-02-25	105	299		101%	308	354	186	478	295	47
1A14P	HEDRICK LAKE	Upper Fraser East	1118	2015-03-01	166	526		80%	971	1058	386	1066	654	13
1A15	KNUDSEN LAKE	Upper Fraser East	1598	2015-02-24	183	627		91%	735	1024	404	1098	692	43
1A16	BURNS LAKE	Upper Fraser West	820	2015-03-04	69	194		149%	110	152	60	250	130	42
1A17P	REVOLUTION CREEK	Upper Fraser East	1676	2015-03-01	207	608		90%	804	1135	336	1133	674	28
1A19P	DOMO MOUNTAIN	Upper Fraser East	1768	2015-03-01	170	615		101%	643	908	450	912	611	7
1A23	BIRD CREEK	Upper Fraser West	1196	2015-02-27	87	231		176%	160	156	72	232	131	24
1B01	MOUNT WELLS	Nechako	1489	2015-02-27	167	533		118%	354	637	244	954	452	61
1B01P	MOUNT WELLS	Nechako	1489	2015-03-01	N/A	585		124%	341	712	244	739	470	21
1B02	TAHTSA LAKE	Nechako	1319	2015-02-27	276	1017		98%	875	1777	571	1777	1034	62
1B02P	TAHTSA LAKE	Nechako	1319	2015-03-01	N/A	999		90%	776	1624	661	1725	1108	21
1B05	SKINS LAKE	Nechako	877	NS					92	90	54	226	103	49
1B06	MOUNT SWANNELL	Nechako	1596	2015-02-27	120	359		142%	231	254	132	446	252	25
1B07	NUTLI LAKE	Nechako	1502	2015-02-27	141	439		95%	317	779	229	779	460	23
1B08P	MOUNT PONDOSY	Nechako	1413	2015-03-01	N/A	798		116%	442	986	363	995	686	21
1C01	BROOKMERE	Middle Fraser	994	2015-02-28	40	135		81%	172	190	53	351	167	69
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	2015-02-25	101	320		65%	NS	555	222	1016	492	60
1C06	PAVILION	Middle Fraser	1209	NS					66	50	0	168	58	56
1C08	NAZKO	Middle Fraser	1029	2015-03-05	47	132		206%	75	62	0	142	64	36
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	2015-03-04	30	86		112%	108	96	25	229	77	48
1C12P	GREEN MOUNTAIN	Middle Fraser	1766	2015-03-01	N/A	591		79%	527	796	445	1265	751	19
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	2015-02-28	116	412		96%	534	408	238	624	428	40
1C14	BRALORNE	Middle Fraser	1382	2015-02-25	17	54		36%	158	98	0	363	149	50
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2015-03-01	77	201		76%	285	329	141	468	266	51
1C18P	MISSION RIDGE	Middle Fraser	1903	2015-03-01	N/A	316		67%	383	563	160	866	475	43
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	2015-03-04	32	90		94%	122	122	15	259	96	46
1C20P	BOSS MOUNTAIN MINE	Middle Fraser	1477	2015-03-01	129	456		94%	475	460	308	739	487	19
1C21	BIG CREEK	Middle Fraser	1130	2015-02-26	23	74		154%	54	22	0	112	48	42
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	2015-02-27	35	84		153%	60	44	0	128	55	43
1C23	PENFOLD CREEK	Middle Fraser	1687	2015-02-23	187	674		84%	NS	978	453	1132	807	37
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	2015-03-01	37	110		92%	147	104	13	213	120	41

2015 Automated Snow Pillow/Manual Snow Survey Data				March					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
1C28	DUFFEY LAKE	Middle Fraser	1253	2015-03-01	69	273		64%	390	534	194	762	428	35
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	2015-02-25	37	121		56%	197	267	100	398	216	32
1C32	DEADMAN RIVER	Middle Fraser	1463	2015-03-01	39	110		110%	150	145	44	220	100	30
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	2015-02-27	50	156		90%	181	183	132	211	173	8
1C37	BRALORNE(UPPER)	Middle Fraser	1980	2015-02-25	131	448		83%	NS	NS	268	944	543	17
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	2015-02-25	192	690		94%	NS	804	302	1250	737	18
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	2015-02-25	122	412		81%	430	522	146	954	508	19
1C40	TYAUGHTON CREEK (NORTH)	Middle Fraser	1946	2015-02-25	103	300		75%	138	410	138	916	399	19
1C41P	YANKS PEAK, EAST	Middle Fraser	1683	2015-03-01	174	684		104%	728	781	406	904	655	16
1C42	CAVERHILL LAKE NEW	Middle Fraser	N/A	2015-02-23	62	184			60	218	60	270	N/A	9
1D06P	TENQUILLE LAKE	Lower Fraser	1669	2015-03-01	195	727		90%	727	951	518	1227	810	12
1D08	STAVE LAKE	Lower Fraser	1211	2015-02-24	32	120		10%	NS	1250	304	2500	1178	45
1D09	WAHLEACH LAKE	Lower Fraser	1395	2015-02-24	12	37		8%	652	570	86	1072	468	45
1D09P	WAHLEACH LAKE	Lower Fraser	1408	2015-03-01	N/A	251		30%	812	768	451	1320	846	21
1D10	NAHATLATCH RIVER	Lower Fraser	1530	2015-02-24	98	426		39%	NS	NS	400	2380	1092	43
1D16	DICKSON LAKE	Lower Fraser	1147	2015-02-24	6	22		2%	1810	1348	322	1814	1186	19
1D17P	CHILLIWACK RIVER	Lower Fraser	1621	2015-03-01	118	607		50%	1422	1775	506	2353	1208	21
1D19P	SPUZZUM CREEK	Lower Fraser	1197	2015-03-01	63	265		20%	1583	1579	341	2615	1312	14
1E01B	BLUE RIVER	North Thompson	673	2015-02-23	73	267		95%	252	232	179	411	280	30
1E02P	MOUNT COOK	North Thompson	1574	2015-03-01	225	988		96%	1012	1164	821	1319	1028	13
1E03A	TROPHY MOUNTAIN	North Thompson	1907	2015-03-06	135	273		60%	432	537	216	778	452	39
1E05	KNOUFF LAKE	North Thompson	1189	2015-02-28	37	121		98%	150	125	36	284	124	55
1E07	ADAMS RIVER	North Thompson	1769	2015-02-27	134	504		90%	570	635	262	892	560	42
1E08P	AZURE RIVER	North Thompson	1625	2015-03-01	222	982		105%	999	1092	548	1339	934	16
1E10P	KOSTAL LAKE	North Thompson	1760	2015-03-01	184	654		92%	710	791	477	1023	712	28
1F01A	ABERDEEN LAKE	South Thompson	1262	2015-02-27	46	160		120%	140	144	51	231	133	57
1F02	ANGLEMONT	South Thompson	1168	NS					304	314	160	635	323	56
1F03P	PARK MOUNTAIN	South Thompson	1857	2015-03-01	177	646		90%	756	630	383	1021	714	28
1F04	ENDERBY	South Thompson	1948	2015-03-01	213	806		96%	1030	NS	440	1200	840	47
1F06P	CELISTA MOUNTAIN	South Thompson	1533	2015-03-01	173	699		95%	782	752	596	923	739	8
2A01A	CANOE RIVER	Upper Columbia	866	2015-02-27	34	120		135%	132	126	19	251	89	72
2A02	GLACIER	Upper Columbia	1249	2015-02-25	134	490		84%	542	824	251	952	585	74
2A03A	FIELD	Upper Columbia	1310	2015-02-26	49	157		107%	82	128	53	248	147	73
2A06P	MOUNT REVELSTOKE	Upper Columbia	1770	2015-03-01	N/A	851		86%	985	1083	537	1487	992	20
2A07	KICKING HORSE	Upper Columbia	1648	2015-02-27	81	218		78%	241	245	140	462	279	67
2A11	BEAVERFOOT	Upper Columbia	1924	2015-02-24	60	150		90%	156	206	80	333	167	51
2A14	MOUNT ABBOT	Upper Columbia	2031	2015-02-24	237	784		78%	960	1294	508	1448	1000	52
2A16	GOLDSTREAM	Upper Columbia	1914	2015-02-23	247	937		98%	1006	1228	553	1351	954	49
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	2015-02-25	244	877		84%	963	1369	534	1703	1043	51

2015 Automated Snow Pillow/Manual Snow Survey Data				March					Historic Snow Water Equivalent (mm)					
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2A18	KEYSTONE CREEK	Upper Columbia	1839	2015-02-23	169	630		94%	720	862	357	1277	671	44
2A19	VERMONT CREEK	Upper Columbia	1533	2015-02-24	88	266		75%	360	427	152	643	356	47
2A21P	MOLSON CREEK	Upper Columbia	1930	2015-03-01	N/A	773		87%	851	1125	437	1215	887	32
2A22	SUNBEAM LAKE	Upper Columbia	2066	2015-02-23	196	699		93%	814	NS	389	1117	751	43
2A23	BUSH RIVER	Upper Columbia	1982	2015-02-23	187	624		91%	NS	NS	281	1078	682	42
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	2015-02-23	230	965		97%	1138	1049	526	1476	990	41
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	NS					620	NS	378	1018	618	31
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	2015-02-23	240	938		82%	1240	1278	614	2120	1146	34
2B02A	FARRON	West Kootenay	1229	2015-02-25	52	166		60%	253	197	79	450	276	39
2B05	WHATSHAN (UPPER)	West Kootenay	1476	2015-02-28	122	460		81%	516	515	285	918	570	51
2B06	BARNES CREEK	West Kootenay	1598	2015-02-28	110	365		85%	416	402	251	634	428	51
2B06P	BARNES CREEK	West Kootenay	1595	2015-03-01	N/A	393		90%	439	431	229	690	437	20
2B07	KOCH CREEK	West Kootenay	1813	2015-02-28	143	488		81%	714	529	269	996	601	48
2B08	ST. LEON CREEK	West Kootenay	1828	2015-02-28	244	943		91%	1036	1044	500	1621	1031	43
2B08P	ST. LEON CREEK	West Kootenay	1822	2015-03-01	N/A	858		95%	864	878	416	1392	900	20
2B09	RECORD MOUNTAIN	West Kootenay	1906	2015-03-04	117	416		69%	745	480	147	1136	601	37
2C01	SINCLAIR PASS	East Kootenay	1374	2015-02-26	31	80		78%	60	138	44	262	103	65
2C04	SULLIVAN MINE	East Kootenay	1580	2015-02-26	54	138		59%	214	264	53	465	235	67
2C07	FERNIE EAST	East Kootenay	1213	2015-02-26	40	120		44%	225	278	61	584	270	63
2C09Q	MORRISSEY RIDGE	East Kootenay	1966	2015-03-01	N/A	372		65%	488	514	233	1074	571	33
2C10P	MOYIE MOUNTAIN	East Kootenay	1840	2015-03-01	61	216		65%	299	418	149	653	333	34
2C11	KIMBERLEY (UPPER) VOR	East Kootenay	2148	NS					NS	NS	152	696	337	42
2C12	KIMBERLEY (MIDDLE) VOR	East Kootenay	1692	NS					NS	NS	97	386	207	41
2C14	FLOE LAKE	East Kootenay	2087	2015-02-24	180	631		101%	654	694	279	993	623	43
2C14P	FLOE LAKE	East Kootenay	2110	2015-03-01	N/A	553		95%	589	683	257	889	581	20
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	NS					NS	NS	185	680	421	41
2C16	MOUNT JOFFRE	East Kootenay	1763	2015-02-24	100	292		100%	363	302	122	551	291	41
2C17	THUNDER CREEK	East Kootenay	2062	2015-02-24	65	165		77%	274	272	91	378	214	42
2C20	VERMILLION RIVER NO. 3	East Kootenay	1612	NS					NS	NS	142	493	243	17
2D02	FERGUSON	West Kootenay	929	2015-03-03	119	488		97%	470	NS	283	796	502	58
2D03	SANDON	West Kootenay	1072	2015-02-28	66	245		77%	265	NS	196	475	319	34
2D04	NELSON	West Kootenay	952	2015-03-03	41	118		36%	194	288	140	558	328	74
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	2015-02-24	75	258		68%	368	406	201	663	378	62
2D06	CHAR CREEK	West Kootenay	1290	2015-03-01	79	258		58%	425	477	231	754	447	46
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	2015-03-01	36	148		103%	52	172	52	322	144	22
2D08P	EAST CREEK	West Kootenay	2004	2015-03-01	N/A	694		95%	768	750	312	1167	732	32
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	2015-02-24	220	806		94%	NS	NS	490	1534	859	38
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	2015-02-24	150	511		84%	659	667	343	955	607	42
2D14P	REDFISH CREEK	West Kootenay	2086	2015-03-01	289	1162		122%	1067	1241	772	1256	954	11

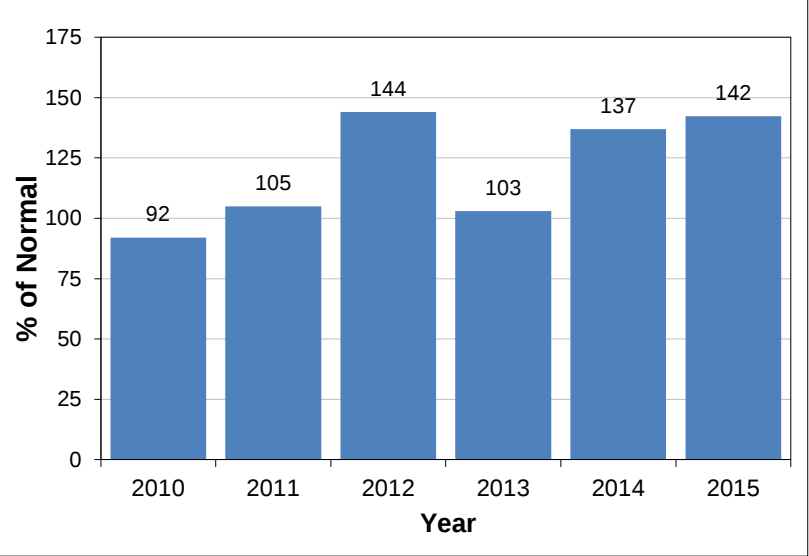
2015 Automated Snow Pillow/Manual Snow Survey Data				March					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2E01	MONASHEE PASS	Boundary	1387	2015-02-28	78	251		89%	285	283	149	442	282	54
2E02	CARMI	Boundary	1254	2015-03-05	29	68		52%	132	121	56	274	130	51
2E03	BIG WHITE MOUNTAIN	Boundary	1672	2015-03-04	103	305		76%	428	355	213	676	402	48
2E06	BLUEJOINT MOUNTAIN	Boundary	1990	2015-02-28	140	468		70%	716	448	448	773	667	7
2E07P	GRANO CREEK	Boundary	1874	2015-03-01	96	323		79%	387	363	206	679	411	15
2F01A	TROUT CREEK (WEST)	Okanagan	1430	2015-02-27	46	139		71%	169	229	169	229	196	4
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	2015-02-26	59	207		109%	181	234	97	381	190	53
2F03	MC CULLOCH	Okanagan	1266	2015-02-27	31	108		74%	179	NS	71	249	146	73
2F04	GRAYSTOKE LAKE	Okanagan	1818	NS					290	288	128	605	285	30
2F05P	MISSION CREEK	Okanagan	1794	2015-03-01	95	332		85%	458	395	208	608	392	43
2F07	POSTILL LAKE	Okanagan	1358	2015-03-02	48	133		77%	169	186	98	274	173	64
2F08	GRAYBACK RESERVOIR	Okanagan	1548	2015-02-28	65	186		99%	218	214	91	312	188	46
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2015-02-25	105	355		79%	487	427	180	809	450	57
2F10	SILVER STAR MOUNTAIN	Okanagan	1834	2015-03-05	147	523		86%	749	588	347	912	610	55
2F11	ISINTOK LAKE	Okanagan	1651	2015-02-26	42	145		110%	151	171	53	358	132	49
2F12	MOUNT KOBAN	Okanagan	1817	2015-02-28	63	194		77%	447	164	61	488	253	48
2F13	ESPERON CR (UPPER)	Okanagan	1634	2015-02-25	70	218		66%	354	284	157	635	330	45
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	NS					NS	NS	132	513	287	24
2F18P	BRENDA MINE	Okanagan	1453	2015-03-01	N/A	243		77%	258	296	184	431	315	20
2F19	OYAMA LAKE	Okanagan	1365	2015-02-27	44	76		53%	110	118	73	241	144	44
2F20	VASEUX CREEK	Okanagan	1403	2015-02-28	26	88		78%	114	106	52	284	113	42
2F21	BOULEAU LAKE	Okanagan	1405	2015-02-28	52	202		76%	276	220	165	432	267	42
2F23	MACDONALD LAKE	Okanagan	1742	2015-02-25	95	305		83%	323	314	170	583	368	37
2F24	ISLAHT LAKE	Okanagan	1492	2015-02-27	67	207		73%	286	234	161	497	285	32
2F25	POSTILL LAKE (UPPER)	Okanagan	1500	2015-03-02	41	112			217	213	131	217	N/A	4
2G03P	BLACKWALL PEAK	Similkameen	1934	2015-03-01	157	542		82%	593	861	228	1323	665	45
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	2015-02-25	71	205		115%	218	187	92	508	178	51
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2015-02-26	45	142		78%	142	210	76	363	182	50
2G06	HAMILTON HILL	Similkameen	1477	2015-02-27	50	167		63%	211	325	102	676	267	49
3A01	GROUSE MOUNTAIN	South Coast	1126	2015-02-24	0	0		0%	1640	1152	143	2320	966	63
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS					NS	NS	868	868	868	1
3A05	POWELL RIVER (LOWER)	South Coast	882	NS					NS	NS	588	588	588	1
3A09	PALISADE LAKE	South Coast	898	2015-02-24	0	0		0%	1455	1120	95	3150	1106	50
3A10	DOG MOUNTAIN	South Coast	1007	2015-02-24	0	0		0%	1440	937	256	2146	952	30
3A19	ORCHID LAKE	South Coast	1178	2015-02-24	42	190		13%	1770	1335	444	2960	1467	38
3A20	CALLAGHAN CREEK	South Coast	1009	2015-02-28	9	40		6%	734	840	200	1260	702	34
3A22P	NOSTETUKO RIVER	South Coast	1457	2015-03-01	60	268		58%	354	582	165	876	462	24
3A24P	UPPER MOSLEY CREEK	South Coast	1655	2015-03-01	89	268		101%	127	288	98	555	266	24
3A25P	SQUAMISH RIVER (UPPER)	South Coast	1387	2015-03-01	27	558		43%	1353	1392	574	2301	1303	23

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3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	2015-02-23	29	119		10%	1417	1367	101	2730	1203	58
3B02A	MT. COKELY	Vancouver Island	1267	2015-03-03	16	14	A	2%	NS	682	34	1034	662	30
3B04	ELK RIVER	Vancouver Island	270	2015-02-23	0	0		0%	0	55	0	546	58	53
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	2015-02-23	0	0		0%	1588	1428	126	2440	1128	53
3B13	HEATHER MOUNTAIN	Vancouver Island	1170	2015-02-26	0	0		0%	NS	NS	0	1803	530	26
3B17P	WOLF RIVER	Vancouver Island	1422	2015-03-01	N/A	358		33%	1070	1149	195	2085	1085	31
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	2015-02-23	0	0		0%	696	442	20	1344	509	43
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	2015-02-23	0	0		0%	438	346	0	1064	301	43
3B23P	JUMP CREEK	Vancouver Island	1134	2015-03-01	18	20		2%	1243	861	64	2228	849	17
3B24	HEATHER MOUNTAIN UPPER	Vancouver Island	N/A	2015-02-26	0	0			NS	NS	N/A	N/A	N/A	0
3C07	WEDEENE RIVER SOUTH	Central Coast	196	2015-02-26	88	330		79%	417	945	45	945	418	27
3C08P	BURNT BRIDGE CREEK	Central Coast	1329	2015-03-01	164	737		107%	583	1231	282	1245	691	15
3D01C	SUMALLO RIVER WEST	Skagit	801	2015-02-24	0	0		0%	246	306	7	442	218	21
3D02	LIGHTNING LAKE	Skagit	1254	2015-02-25	67	200		80%	244	357	36	497	250	40
3D03A	KLESILKWA	Skagit	1134	2015-02-24	0	0		0%	268	263	0	759	228	58
4A02	PINE PASS	Peace	1439	2015-02-24	226	898		85%	968	1622	480	1622	1051	50
4A02P	PINE PASS	Peace	1386	2015-03-01	195	705		80%	878	1336	600	1485	880	24
4A03	WARE (UPPER)	Peace	1563	2015-02-26	81	202		92%	247	203	114	360	220	52
4A04	WARE (LOWER)	Peace	969	2015-02-26	74	188		113%	171	167	97	246	167	47
4A05	GERMANSEN (UPPER)	Peace	1489	2015-02-25	104	310		106%	274	378	174	520	293	52
4A06	TUTIZZI LAKE	Peace	1043	2015-02-25	88	232		101%	229	298	140	386	230	49
4A07	LADY LAURIER LAKE	Peace		2015-02-26	131	407		90%	379	609	255	662	452	47
4A09	PULPIT LAKE	Peace	1331	2015-02-26	119	344		92%	426	427	233	531	372	49
4A09P	PULPIT LAKE	Peace	1331	2015-03-01	112	331		87%	388	417	271	471	381	23
4A10	FREDRICKSON LAKE	Peace	1323	2015-02-25	85	239		112%	189	215	129	315	213	48
4A11	TRYGVE LAKE	Peace	1409	2015-02-25	104	306		96%	312	392	211	453	319	48
4A12	TSAYDAYCHI LAKE	Peace	1173	2015-02-25	112	341		100%	322	504	166	540	340	49
4A13	PHILIP LAKE	Peace	1013	2015-02-25	84	235		97%	244	312	138	400	242	49
4A16	MORFEE MOUNTAIN	Peace	1427	2015-02-24	183	685		94%	696	911	312	1166	725	46
4A18	MOUNT SHEBA	Peace	1480	2015-02-24	193	687		96%	NS	998	394	1123	712	42
4A20	MONKMAN CREEK	Peace	1566	2015-02-24	139	455		96%	539	658	211	925	472	30
4A21	MOUNT STEARNS	Peace	1514	2015-02-26	63	143		115%	136	95	56	227	124	39
4A25	FORT ST. JOHN AIRPORT	Peace	692	2015-03-06	65	131		132%	129	69	38	191	99	39
4A27P	KWADACHA RIVER	Peace	1695	2015-03-01	106	273	E	98%	263	259	203	405	279	16
4A30P	AIKEN LAKE	Peace	1061	2015-03-01	N/A	217		94%	180	285	150	363	232	28
4B01	KIDPRICE LAKE	Skeena-Nass	1415	2015-02-27	224	800		98%	636	1320	429	1320	817	62
4B02	JOHANSON LAKE	Skeena-Nass	1480	2015-02-25	92	256		101%	237	294	148	368	253	49
4B03A	HUDSON BAY MTN	Skeena-Nass	1452	NS					356	616	287	719	443	42
4B04	CHAPMAN LAKE	Skeena-Nass	1485	NS					364	575	266	691	407	47

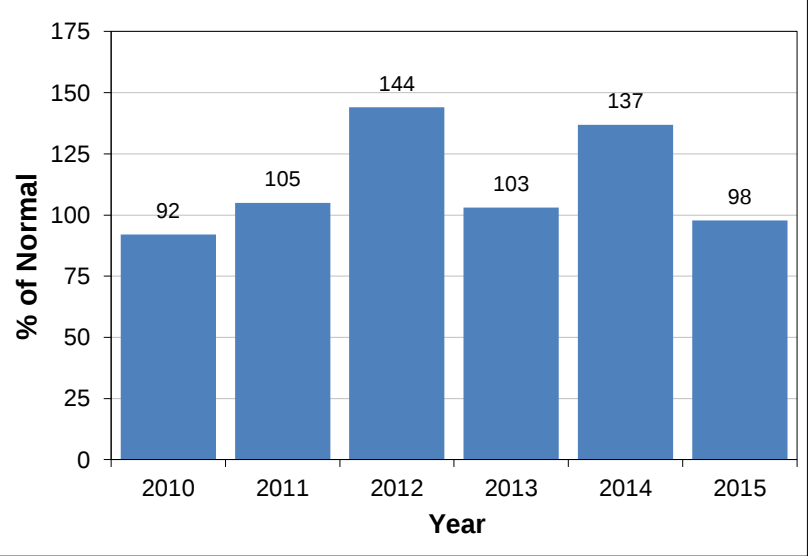
2015 Automated Snow Pillow/Manual Snow Survey Data				March					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4B06	TACHEK CREEK	Skeena-Nass	1133	NS					184	272	117	332	195	46
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	NS					226	340	155	391	246	43
4B08	MOUNT CRONIN	Skeena-Nass	1491	NS					454	627	345	869	498	43
4B10	NINGUNSAW PASS	Skeena-Nass	647	NS					330	375	224	629	397	39
4B11A	BEAR PASS	Skeena-Nass	437	NS					510	87	87	824	574	28
4B13A	TERRACE AIRPORT	Skeena-Nass	219	NS					0	335	0	407	141	31
4B14	EQUITY MINE	Skeena-Nass	1434	NS					274	470	190	546	333	36
4B15	LU LAKE	Skeena-Nass	1296	NS					210	358	122	412	254	35
4B15P	LU LAKE	Skeena-Nass	1308	2015-03-01	108	388		176%	218	355	116	405	221	15
4B16P	SHEDIN CREEK	Skeena-Nass	1320	2015-03-01	153	475		66%	619	957	507	957	723	17
4B17P	TSAI CREEK	Skeena-Nass	1369	2015-03-01	214	921		95%	810	1601	701	1618	969	15
4B18P	CEDAR - KITEEN	Skeena-Nass	912	2015-03-01	489	416		71%	477	936	280	956	582	12
4C01	SIKANNI LAKE	Liard	1390	NS					215	240	107	335	238	48
4C02	SUMMIT LAKE	Liard	1291	NS					166	78	0	190	111	43
4C03	DEASE LAKE	Liard	805	NS					153	81	45	229	124	48
4C05	FORT NELSON A	Liard	368	NS					135	50	40	177	92	47
4C15	JADE CITY	Liard	943	NS					224	186	128	310	206	12
4D01	TELEGRAPH CREEK	Stikine	490	NS					116	NS	53	345	144	38
4D02	ISKUT	Stikine	931	NS					86	108	33	176	105	39
4D11P	KINASKAN LAKE	Stikine	1020	2015-03-01	76	236		68%						
4E02B	ATLIN LAKE	Northwest		2015-03-01	28	68			106	NS	70	166		9
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 - March 1, 2015

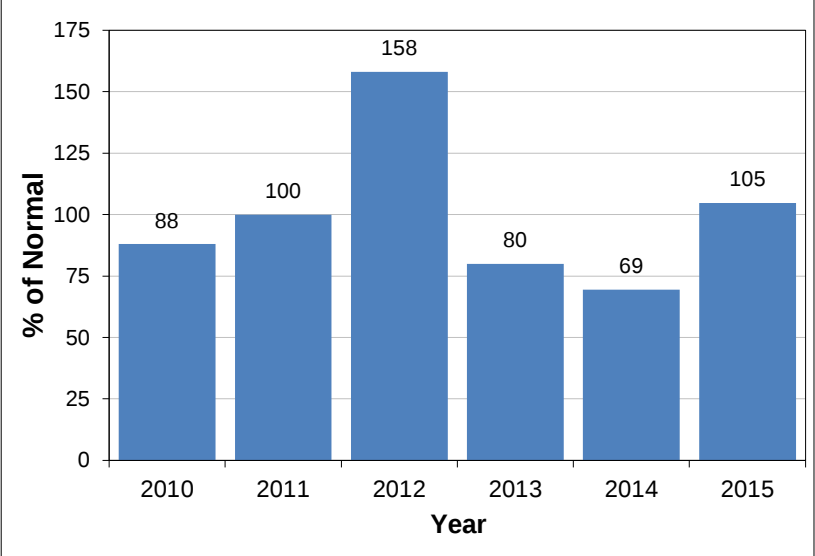
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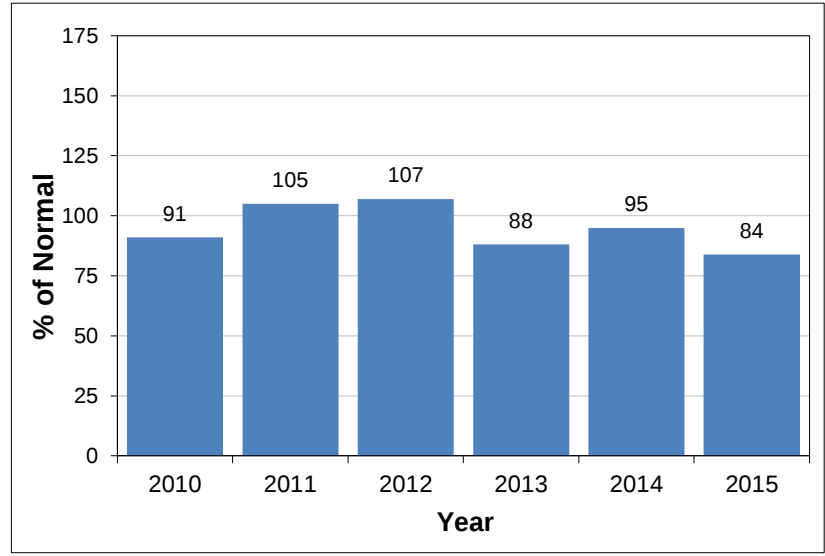
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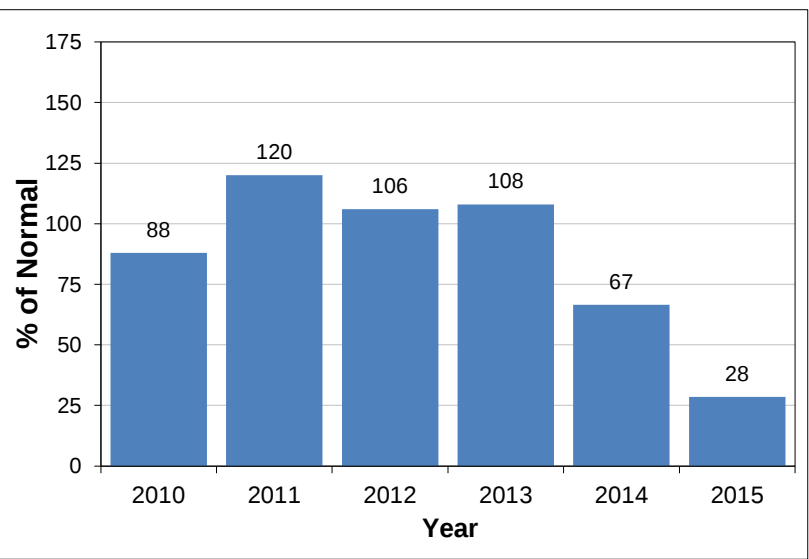
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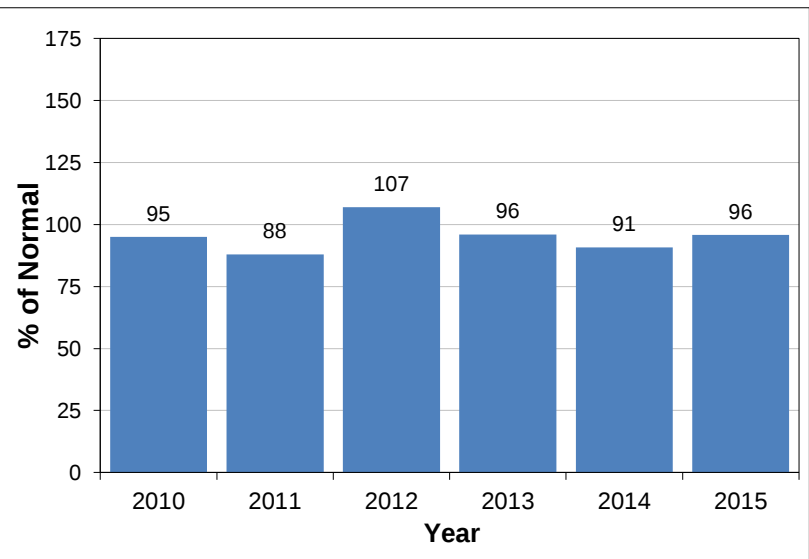
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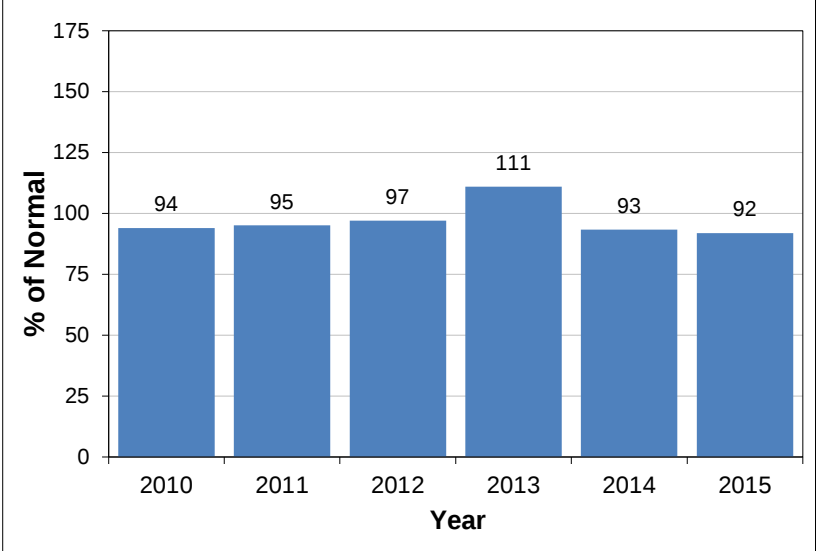
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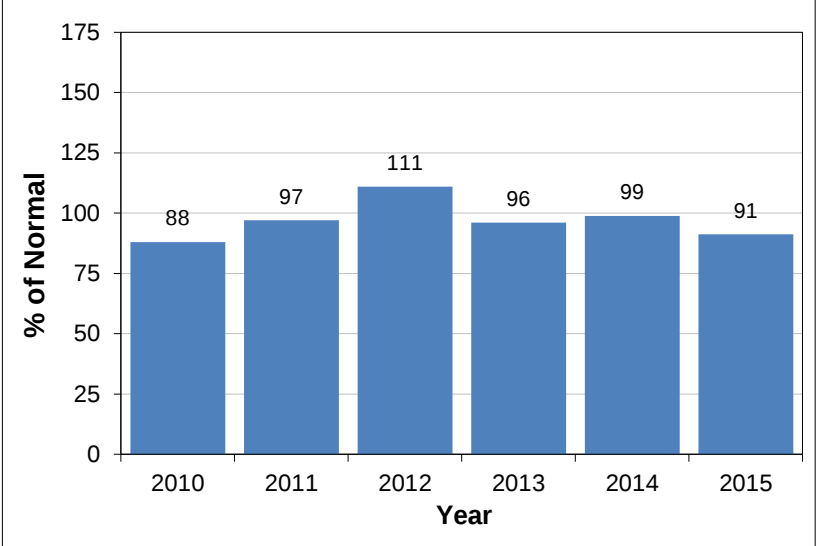
North Thompson



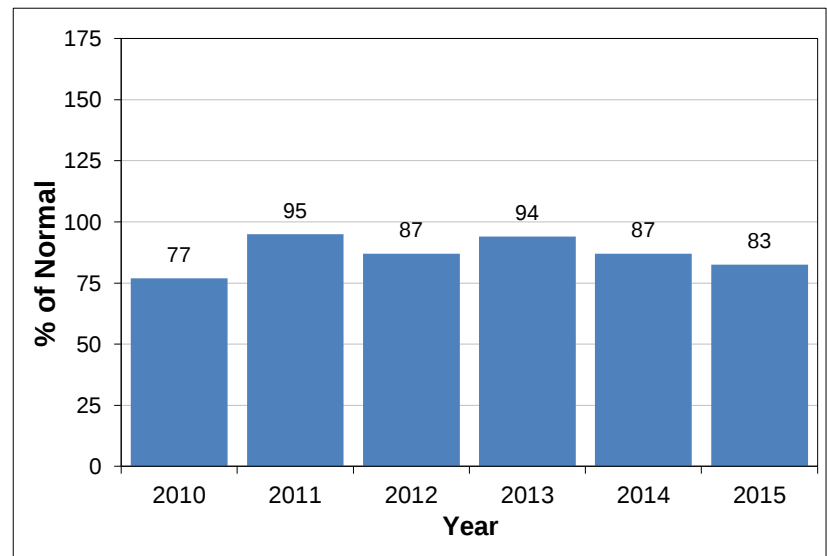
South Thompson



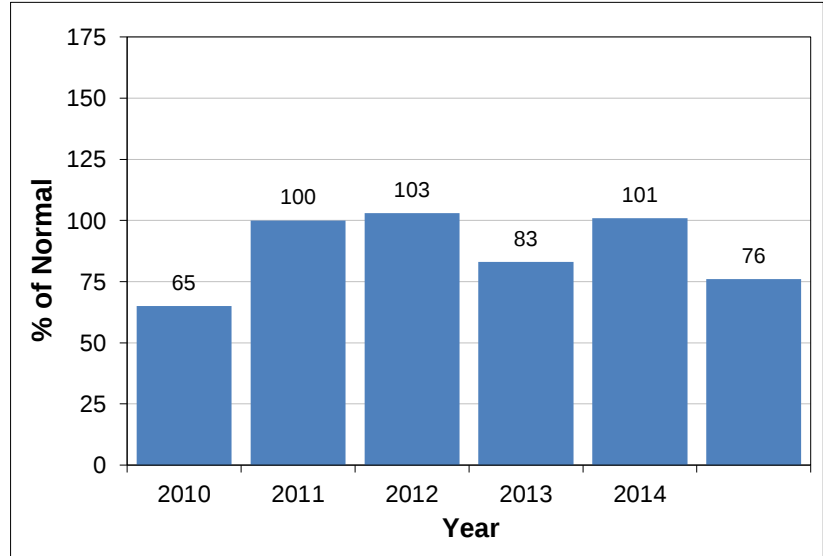
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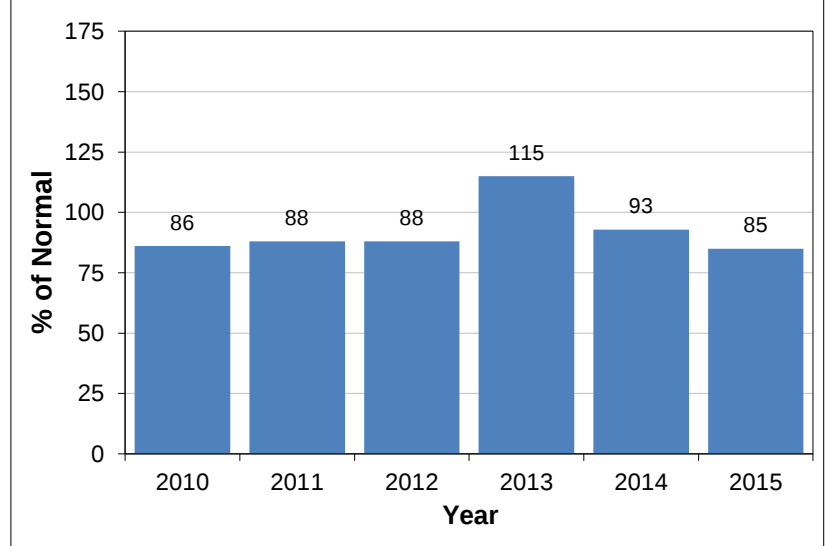
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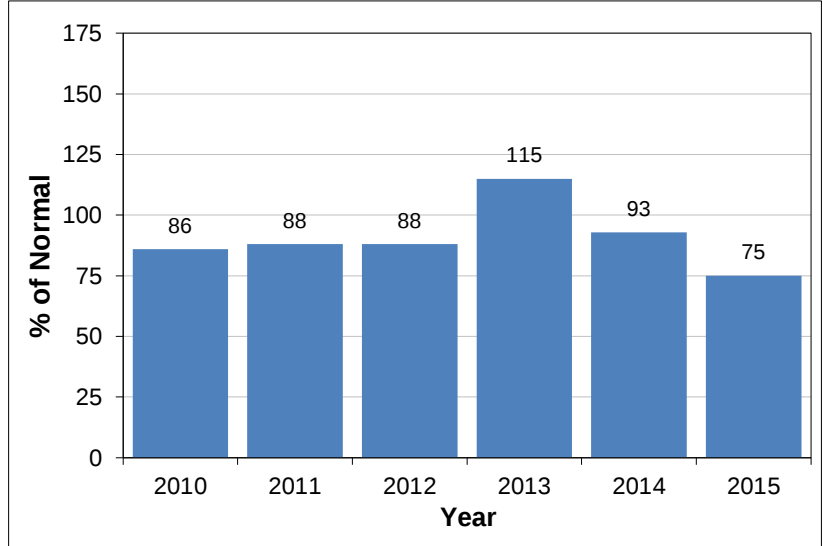
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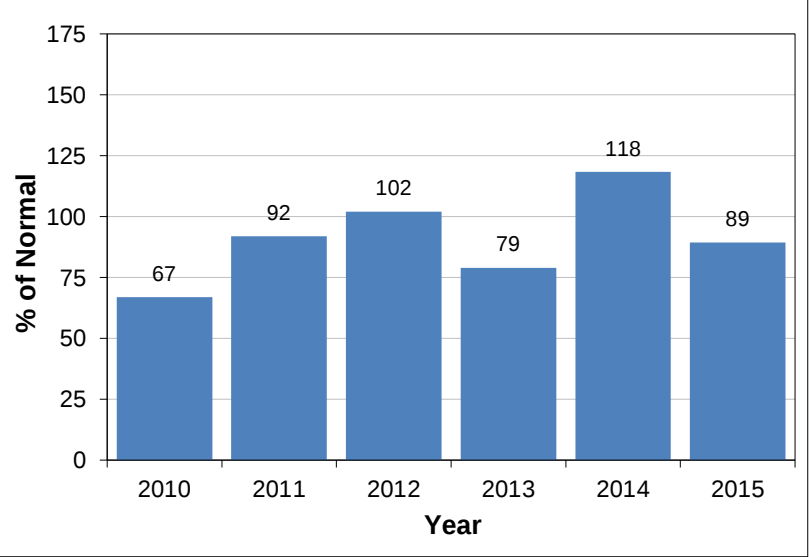
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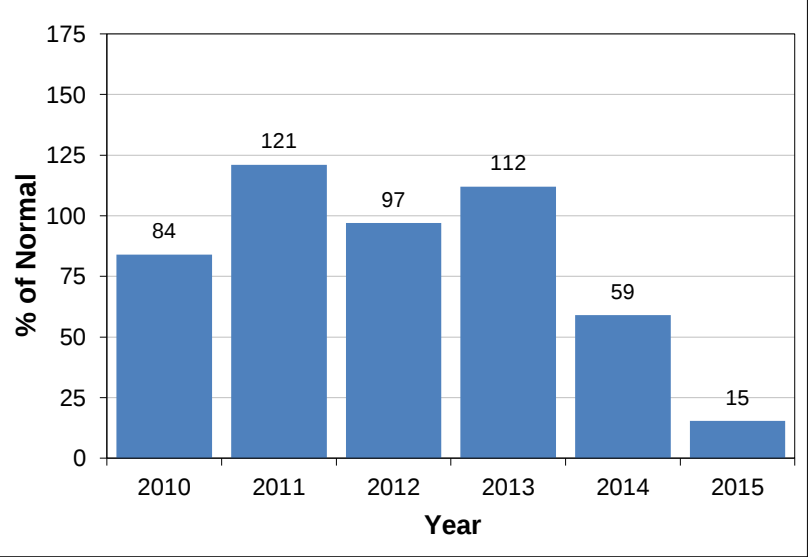
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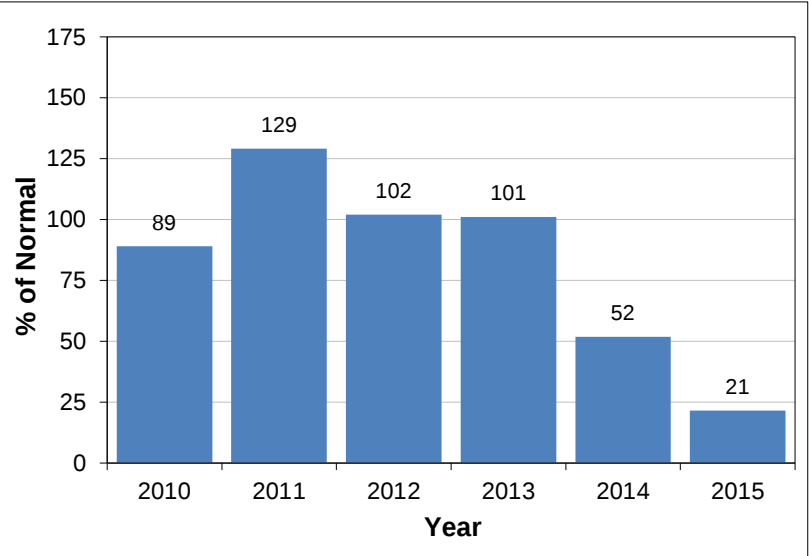
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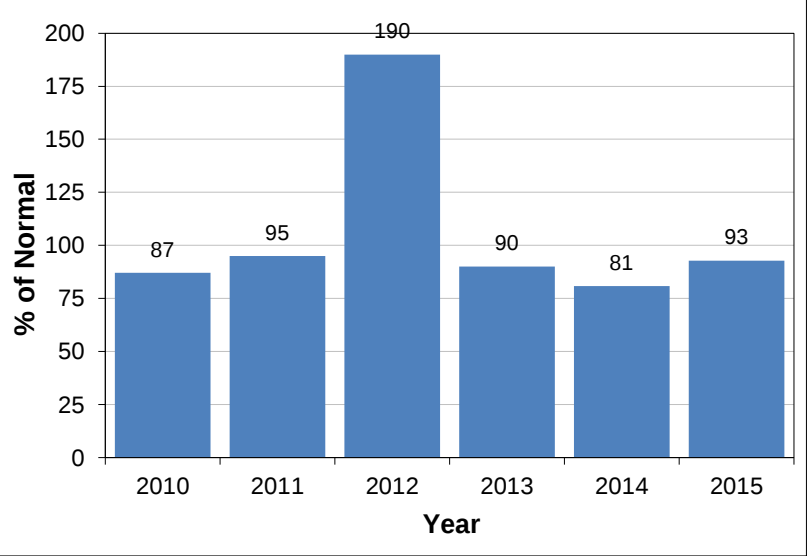
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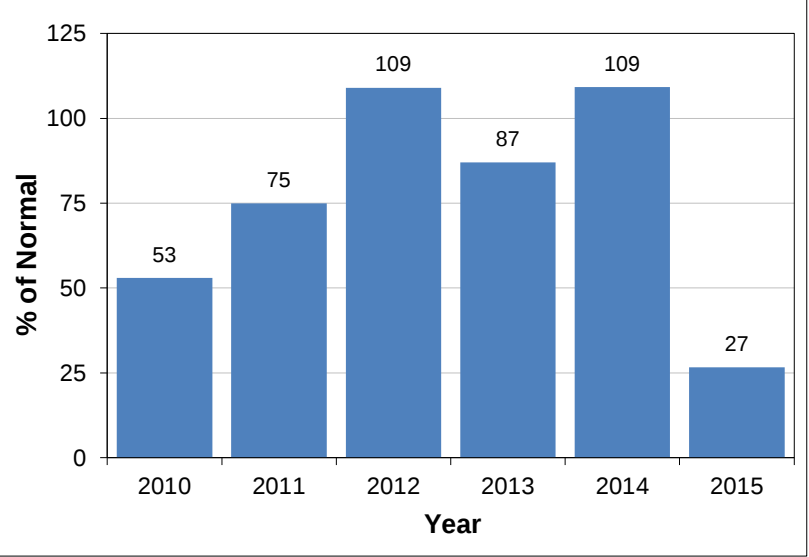
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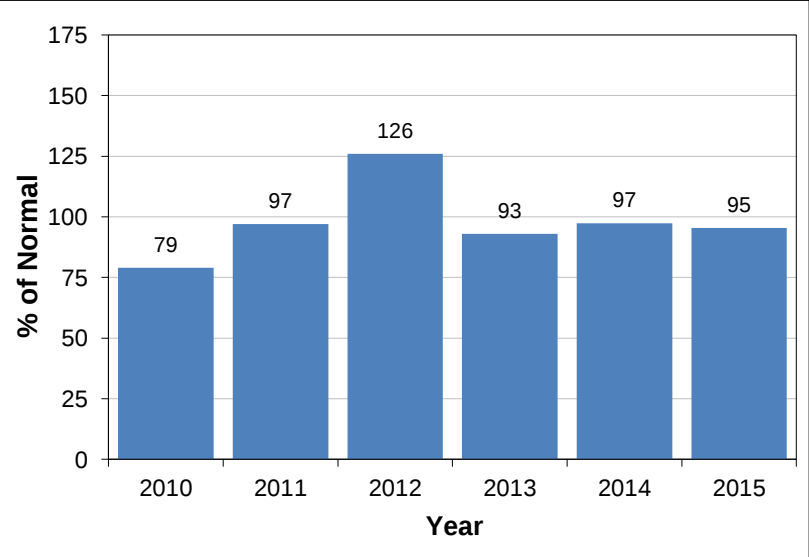
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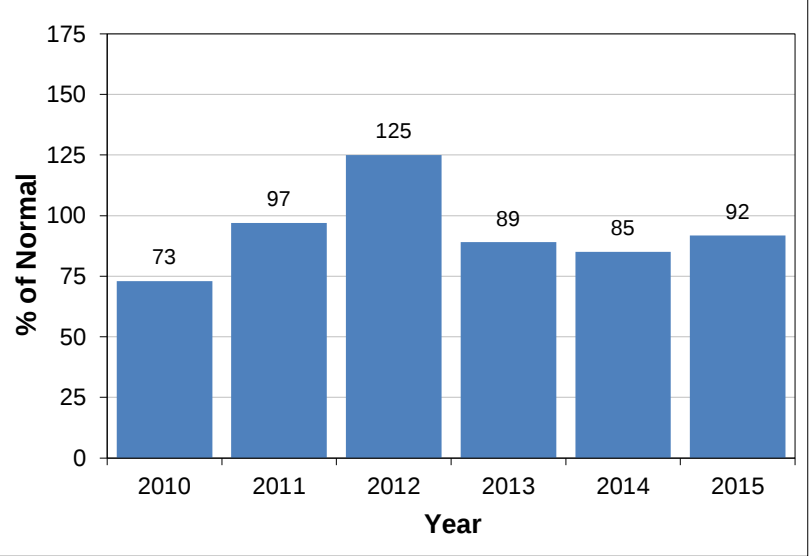
Skagit



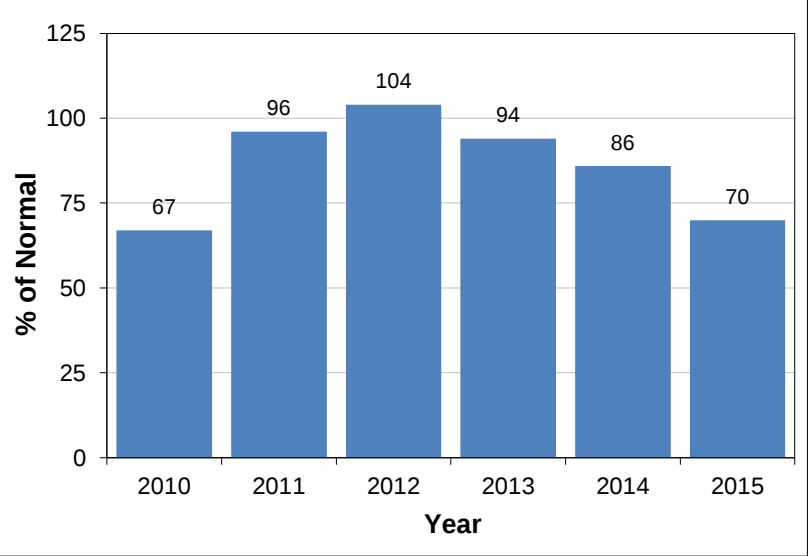
Peace



Skeena-Nass



Stikine



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

Location		Mar - Jun Runoff				Mar - Jul Runoff				Mar - 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					3908	3786	103	331	5508	5252	105	390
	McGregor at Lower Canyon					3809	4087	93	490	4884	5132	95	639
	Fraser at Shelley					16585	16310	102	1494	20656	20369	101	1832
Middle Fraser Basin	Quesnel River at Quesnel					4574	4747	96	510	5904	6078	97	670
Thompson Basin	N. Thompson at McLure					8505	9190	93	536	10650	11359	94	826
	S. Thompson at Chase					6040	6111	99	566	7641	7678	100	832
	Thompson at Spences Bridge					15083	15775	96	1174	19087	19755	97	1814
Bulkley and Skeena	Bulkley at Quick					2829	2709	104	1361	3442	3306	104	1939
	Skeena at Usk					19984	19187	104	1335	24393	23531	104	1809
Nicola Lake	Inflows	98	126	78	31	111	143	78	35				
Nicola River	at Spences Bridge	366	523	70	82	401	591	68	103				
Similkameen River	at Nighthawk	1270	1342	95	158					1540	1652	93	184
	at Hedley	1003	1045	96	134					1162	1233	94	151
Okanagan and Kalamalka- Wood Lake	Okanagan Lake Inflow	404	470	86	89	422	497	85	110				
	Kalamalka-Wood Lake Inflow	20	31	63	12	19	33	59	15				

Note: 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.

There is inherent uncertainty in runoff forecasts including potential errors in data and the unpredictable nature of seasonal weather

Use at your own risk

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

The April 1st snow survey is now complete. Data from 154 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 report¹.

Weather

Temperatures across British Columbia continued to be well above normal through the month of March. Temperatures were typically 1-3°C above normal along coastal areas of BC, and 3-5°C above normal across the interior. March sea surface temperature anomalies in the Pacific Ocean off the shores of British Columbia have continued to be 1-3°C degrees above normal, and NOAA's National Climatic Data Centre is reporting that temperature anomalies off the BC coast have been at record high levels through the winter of 2014-15.

March precipitation trends have been varied across the province, but in general have been well above normal (120-200%). Areas of the central interior (e.g. Merritt, Salmon Arm) and Okanagan experienced below normal (40-60%) precipitation. With increased temperatures, rainfall was the dominant form of precipitation through mid-elevation terrain.

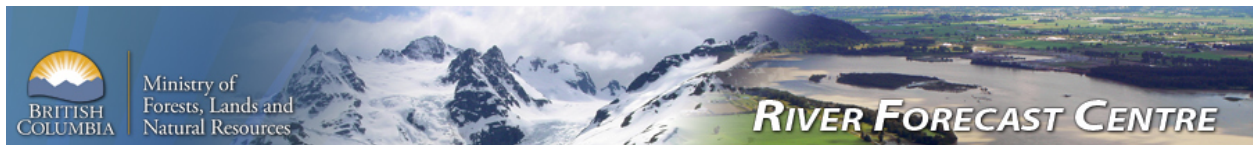
Snow Pack

Snow pack accumulation trends from early in the season have persisted throughout March. Snow accumulation through the month has been modest, and in some cases some locations experienced a net loss of snow. Declines in snow basin indices were observed in almost all basins between the March and April surveys. With the exception of the Upper Fraser West, all regions of the province have near normal or below normal April 1st snow basin indices (Figure 1). Snow basin indices range from a low of 13% on the South Coast to a high of 120% in Upper Fraser West (Table 1 and Figure 1). The average of all provincial snow water equivalent measurements for April 1st is 73% of normal. This is the second lowest provincial average snow water equivalent in the past 31 years of record.

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

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	120	Boundary	61
Upper Fraser East	94	Similkameen	73
Nechako	106	South Coast	13
Middle Fraser	79	Vancouver Island	15
Lower Fraser	26	Central Coast	80
North Thompson	96	Skagit	34
South Thompson	92	Peace	98
Upper Columbia	86	Skeena-Nass	92
West Kootenay	72	Stikine	69
East Kootenay	76	Liard	104
Okanagan	76	Northwest	68

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, 2015

Near-normal (90-110%) to slightly below normal (80-90%) snow packs are present through the Upper Fraser East, Nechako North Thompson, South Thompson, Upper Columbia, Peace, Liard, Skeena-Nass, and Central Coast. Moderately low snow packs (70-80%) are present in the Middle Fraser, West Kootenay, East Kootenay, Similkameen and Okanagan. Very low snow pack (60-70%) is present in the Boundary, and extremely low snow packs (<40%) are present throughout southwest BC, including the Lower Fraser, South Coast, Vancouver Island and Skagit basins.

Field observations around the province indicate that snow packs at valley bottom to mid-elevation (e.g. 800-1100m) is limited. As most snow basin indices are based on observations at higher elevations (e.g. 1100m-2000m), indices reported here may not fully reflect the snow pack situation at low to mid-elevation.

The extremely low snow packs in southwest BC and low snow packs in the low to mid-elevation terrain, are the result of both warmer temperatures and drier conditions through the winter. A high proportion of precipitation has been delivered as rain rather than snow. Snow basin indices are at historic minimum values (30 years of record) in the Lower Fraser, South Coast, and Vancouver Island.

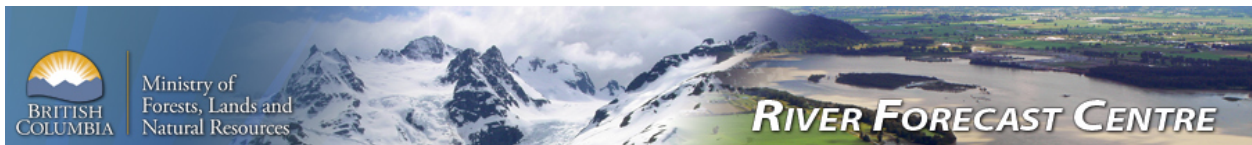
Streamflow Runoff

As a result of warmer temperatures, increased proportion of precipitation falling as rain rather than snow, and mid-season melt of snow packs (particularly at low- to mid-elevation), rivers across the province have seen well above normal flows through the winter. Warm temperatures in mid- to late-March led to increased melt at mid-elevation, leading to dramatic rises in many interior rivers. For example, the Fraser River at Hope (Water Survey of Canada gauge 08MF005) reached approximately 5200 m³/s towards the end of March. This was an historic high for this time of year and occurred approximately 6 weeks earlier than is typically observed. Similar high flows have been observed in most of the major rivers of the province. In the interior plateau, early snow melt runoff is leading very high flows in some medium sized rivers around Prince George, Quesnel, Williams Lake, and surrounding areas.

Outlook

Extremely warm Pacific Ocean temperatures persist off the BC coast. El Niño conditions are present in the equatorial Pacific, and there is a moderate likelihood of those conditions persisting into the summer. However, NOAA is suggesting that the influence of El Niño through the spring is likely to be small given the weak nature of the El Niño conditions. Environment Canada is forecasting a very high likelihood of above normal temperatures over the April to June period across British Columbia, particularly for the coastal areas.

By early April, nearly all of the annual BC snow pack has accumulated, with a typical peak accumulation occurring in mid-April. Additional accumulation through April is possible, but



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

given the existing conditions, it is expected that the province will generally commence into melt at mid to high elevations this month.

At a basin-wide scale, higher than normal snow packs in the Upper Fraser West basin indicate increased seasonal flood risk in the unregulated regions of the Nechako basin this year.

Near-normal snow packs (90-110%) in the Upper Fraser East, Nechako, North Thompson, South Thompson, Peace, Liard and Skeena-Nass indicate normal seasonal flood risk. Below normal snow packs (60-90%) in the Middle Fraser, Upper Columbia, West Kootenay, East Kootenay, Okanagan, Boundary, Similkameen, 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, and the forecast peak flow for the Fraser River at Hope, given normal seasonal weather, is estimated to be 7000-8000 m³/s, or slightly below mean annual flood level.

Flooding is always possible during the snow melt freshet season, even in years 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.

With extremely low snow packs in the Lower Fraser, South Coast, 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 snow packs in the West Kootenay, East Kootenay, Boundary, Similkameen, Okanagan, Stikine-Nass and 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 below. Normal, or slightly below normal, seasonal runoff is forecast for most basins, with below normal runoff forecast for the Nicola (48-81% of normal), Kalamalka-Wood (50-64% of normal) and Cowichan (57-65% 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>. Hydrologic modelling forecasts will be available and posted towards the end of April. The next Snow Survey and Water Supply Bulletin is scheduled for release on Thursday, May 7th.

BC River Forecast Centre
April 8, 2015

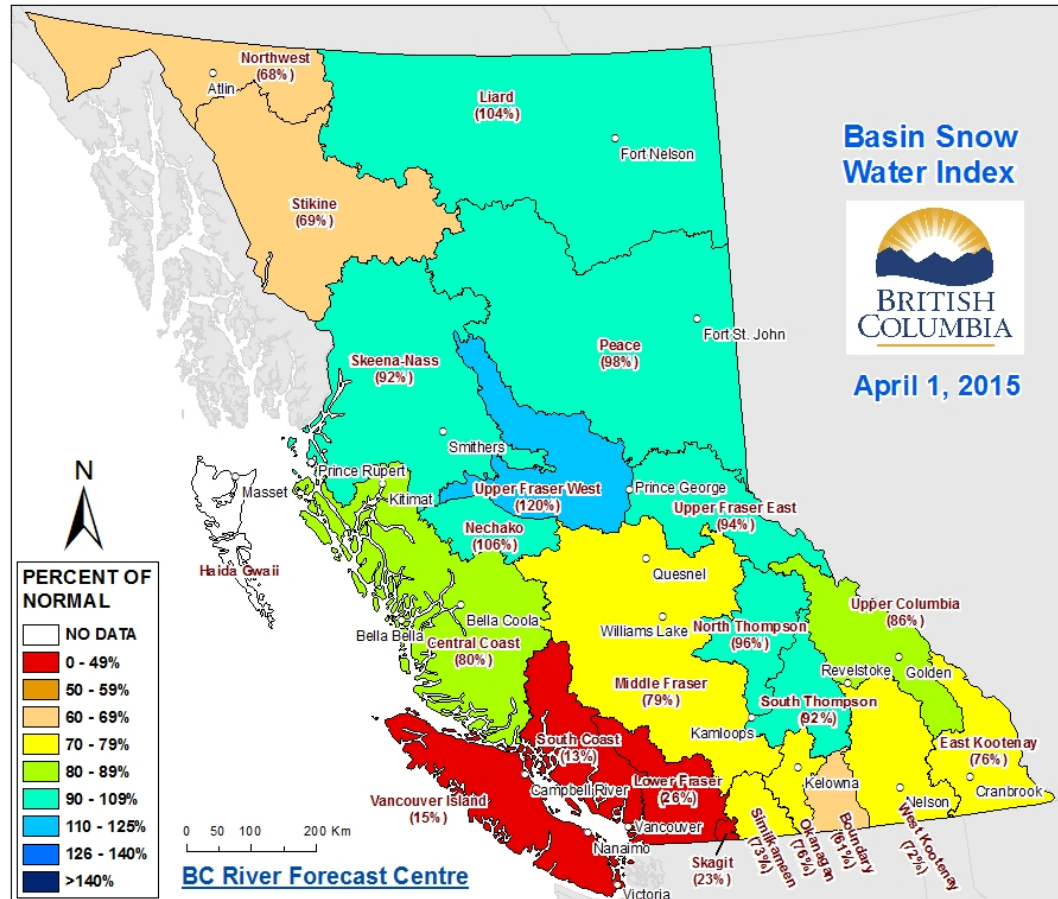


Ministry of
Forests, Lands and
Natural Resources

RIVER FORECAST CENTRE

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

Figure 1: Basin Snow Water Index – April 1st, 2015



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2015 Automated Snow Pillow/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	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
1A01P	YELLOWHEAD LAKE	Upper Fraser East	1847	2015-04-01	139	510		94%	473	724	349	784	541	16
1A02P	MC BRIDE (UPPER)	Upper Fraser East	1608	2015-04-01	506	485		110%	436	681	297	693	442	21
1A03P	BARKERVILLE	Upper Fraser East	1483	2015-04-01	77	274		75%	375	438	221	524	364	38
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693				N		1220	1150	467	1234	768	55
1A06A	HANSARD	Upper Fraser East	622	NS					NS	NS	72	442	176	17
1A10	PRINCE GEORGE A	Upper Fraser East	684	2015-03-31	0	0		0%	175	143	0	313	98	52
1A11	PACIFIC LAKE	Upper Fraser East	756	2015-03-30	92	391		64%	920	1060	290	1060	608	50
1A12	KAZA LAKE	Upper Fraser West	1247	2015-03-31	110	345		101%	346	476	220	476	341	47
1A14P	HEDRICK LAKE	Upper Fraser East	1118	2015-04-01	N/A	538	E	67%	1177	1287	581	1288	801	13
1A15	KNUDSEN LAKE	Upper Fraser East	1598	2015-03-30	203	817		102%	941	1264	506	1346	801	46
1A16	BURNS LAKE	Upper Fraser West	820	2015-03-31	42	128		108%	112	162	0	264	119	42
1A17P	REVOLUTION CREEK	Upper Fraser East	1676	2015-04-01	243	763		97%	960	1292	453	1292	783	28
1A19P	DOMO MOUNTAIN	Upper Fraser East	1768	2015-04-01	201	761		104%	825	1062	503	1069	732	7
1A23	BIRD CREEK	Upper Fraser West	1196	2015-03-31	65	210		150%	168	132	84	270	140	24
1B01	MOUNT WELLS	Nechako	1489	2015-03-31	185	602		123%	409	706	273	690	490	58
1B01P	MOUNT WELLS	Nechako	1489	2015-04-01	N/A	722		130%	421	792	347	869	557	21
1B02	TAHTSA LAKE	Nechako	1319	2015-03-31	315	1175		98%	920	1972	775	1972	1202	60
1B02P	TAHTSA LAKE	Nechako	1319	2015-04-01	N/A	1202		94%	884	1839	860	2227	1278	21
1B05	SKINS LAKE	Nechako	877	2015-03-30	30	107		119%	100	92	0	203	90	49
1B06	MOUNT SWANNELL	Nechako	1596	2015-03-31	109	378		134%	269	273	148	490	282	25
1B07	NUTLI LAKE	Nechako	1502	2015-03-31	158	523		101%	316	834	301	834	518	23
1B08P	MOUNT PONDOSY	Nechako	1413	2015-04-01	N/A	968		123%	530	1147	527	1152	790	21
1C01	BROOKMERE	Middle Fraser	994	2015-03-30	11	45		26%	143	223	51	399	171	68
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	2015-04-02	104	381		67%	462	793	322	1118	572	60
1C06	PAVILION	Middle Fraser	1209	NS					0	0	0	147	22	53
1C08	NAZKO	Middle Fraser	1029	2015-03-31	4	13	A	28%	23	73	0	142	46	51
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	2015-03-31	68	230		277%	128	140	3	249	83	46
1C12P	GREEN MOUNTAIN	Middle Fraser	1766	2015-04-01	N/A	694		79%	619	1057	616	1408	878	19
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	2015-03-30	109	446		96%	584	502	282	716	466	43
1C14	BRALORNE	Middle Fraser	1382	2015-04-02	0	0		0%	151	204	0	389	153	47
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2015-04-01	68	219		74%	364	353	186	533	296	51
1C18P	MISSION RIDGE	Middle Fraser	1903	2015-04-01	N/A	385		70%	498	709	157	1012	550	43
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	2015-03-31	57	140		132%	146	195	21	307	106	45
1C20P	BOSS MOUNTAIN MINE	Middle Fraser	1477	2015-04-01	124	525		90%	595	556	424	866	585	19
1C21	BIG CREEK	Middle Fraser	1130	2015-03-31	0	0		0%	6	10	0	119	14	41
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	2015-03-30	0	0		0%	40	0	0	91	19	41
1C23	PENFOLD CREEK	Middle Fraser	1687	2015-04-01	225	749		77%	1055	1173	641	1285	979	37
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	2015-04-02	0	0	T	0%	174	170	43	228	127	41

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1C28	DUFFEY LAKE	Middle Fraser	1253	2015-03-31	49	212		44%	536	646	244	866	480	36
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	2015-04-03	4	16	A	7%	237	337	70	442	222	30
1C32	DEADMAN RIVER	Middle Fraser	1463	2015-04-01	19	54		52%	120	168	30	196	104	28
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	2015-03-27	21	93		49%	205	191	115	272	188	8
1C37	BRALORNE(UPPER)	Middle Fraser	1980	2015-04-02	151	504		76%	NS	NS	328	1010	665	16
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	2015-04-02	203	780		92%	678	NS	422	1416	847	17
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	2015-04-02	128	460		79%	468	780	240	1086	580	18
1C40	TYAUGHTON CREEK (NORTH)	Middle Fraser	1946	2015-04-02	99	328		75%	350	550	264	844	440	18
1C41P	YANKS PEAK, EAST	Middle Fraser	1683	2015-04-01	195	826		104%	884	932	532	1013	794	16
1C42	CAVERHILL LAKE NEW	Middle Fraser	N/A	2015-03-28	47	186		79%	276	272	174	284	235	9
1D06P	TENQUILLE LAKE	Lower Fraser	1669	2015-04-01	218	857		85%	915	1316	713	1587	1014	12
1D08	STAVE LAKE	Lower Fraser	1211	2015-03-27	21	98		7%	1615	1985	446	2750	1448	43
1D09	WAHLEACH LAKE	Lower Fraser	1395	2015-03-27	9	33	A	6%	779	NS	125	1270	588	42
1D09P	WAHLEACH LAKE	Lower Fraser	1408	2015-04-01	N/A	265		26%	985	924	604	1640	1026	21
1D10	NAHATLATCH RIVER	Lower Fraser	1530	2015-03-27	107	468		36%	1351	NS	523	2410	1296	42
1D16	DICKSON LAKE	Lower Fraser	1147	2015-03-27	17	56	A	4%	2106	NS	412	2990	1497	19
1D17P	CHILLIWACK RIVER	Lower Fraser	1621	2015-04-01	136	666		46%	1825	2348	590	2418	1435	21
1D19P	SPUZZUM CREEK	Lower Fraser	1197	2015-04-01	N/A	166		10%	1783	2294	465	2745	1600	14
1E01B	BLUE RIVER	North Thompson	673	2015-04-01	50	189	A	69%	300	382	154	425	272	31
1E02P	MOUNT COOK	North Thompson	1574	2015-04-01	245	1156		96%	1258	1471	998	1480	1209	13
1E03A	TROPHY MOUNTAIN	North Thompson	1907	2015-04-01	154	492		92%	568	668	332	888	537	36
1E05	KNOUFF LAKE	North Thompson	1189	2015-04-01	0	0		0%	174	176	58	274	134	56
1E07	ADAMS RIVER	North Thompson	1769	2015-04-01	151	566		84%	769	815	435	1069	673	42
1E08P	AZURE RIVER	North Thompson	1625	2015-04-01	269	1249		110%	1222	1371	716	1538	1135	16
1E10P	KOSTAL LAKE	North Thompson	1760	2015-04-01	218	793		93%	893	985	618	1169	850	28
1F01A	ABERDEEN LAKE	South Thompson	1262	2015-03-26	27	101		81%	143	153	6	259	124	71
1F02	ANGLEMONT	South Thompson	1168	NS					334	324	142	561	321	56
1F03P	PARK MOUNTAIN	South Thompson	1857	2015-04-01	204	797		94%	948	802	549	1207	852	28
1F04	ENDERBY	South Thompson	1948	2015-04-03	250	980		98%	1171	1115	610	1501	1002	48
1F06P	CELISTA MOUNTAIN	South Thompson	1533	2015-04-01	178	827		95%	935	995	720	1117	867	8
2A01A	CANOE RIVER	Upper Columbia	866	2015-03-31	0	0		0%	NS	192	0	262	65	72
2A02	GLACIER	Upper Columbia	1249	2015-03-28	119	480		72%	660	976	376	1161	670	75
2A03A	FIELD	Upper Columbia	1310	2015-03-30	14	49		36%	71	151	8	251	137	70
2A06P	MOUNT REVELSTOKE	Upper Columbia	1770	2015-04-01	N/A	1003		83%	1223	1439	709	1686	1210	20
2A07	KICKING HORSE	Upper Columbia	1648	2015-03-30	66	236		74%	280	381	185	589	317	62
2A11	BEAVERFOOT	Upper Columbia	1924	2015-04-02	47	126		66%	196	284	105	460	191	50
2A14	MOUNT ABBOT	Upper Columbia	2031	2015-03-26	268	963		80%	1282	1623	698	1849	1199	50
2A16	GOLDSTREAM	Upper Columbia	1914	2015-04-02	277	1074		95%	1236	1410	785	1638	1133	46
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	2015-03-28	266	1021		84%	1269	1740	730	1951	1210	49

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2A18	KEYSTONE CREEK	Upper Columbia	1839	2015-04-02	174	667		85%	856	1037	485	1388	788	44
2A19	VERMONT CREEK	Upper Columbia	1533	2015-04-03	62	219		55%	425	603	190	843	397	45
2A21P	MOLSON CREEK	Upper Columbia	1930	2015-04-01	N/A	965		94%	1079	1384	651	1551	1029	32
2A22	SUNBEAM LAKE	Upper Columbia	2066	2015-04-02	218	819		93%	983	1216	590	1384	885	44
2A23	BUSH RIVER	Upper Columbia	1982	2015-04-02	203	715		88%	862	NS	455	1331	809	43
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	2015-04-02	267	1105		95%	1324	1360	701	1816	1163	40
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964				N		624	858	448	1032	664	35
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	2015-04-02	270	1066		80%	1332	1570	858	2360	1334	35
2B02A	FARRON	West Kootenay	1229	2015-03-30	35	127		42%	258	311	162	480	300	41
2B05	WHATSHAN (UPPER)	West Kootenay	1476	2015-03-30	110	457		72%	524	686	350	964	638	50
2B06	BARNES CREEK	West Kootenay	1598	2015-03-30	111	413		83%	473	550	299	768	497	52
2B06P	BARNES CREEK	West Kootenay	1595	2015-04-01	N/A	498		94%	548	566	323	773	530	20
2B07	KOCH CREEK	West Kootenay	1813				N		748	825	397	1156	722	49
2B08	ST. LEON CREEK	West Kootenay	1828	2015-03-30	282	1148		96%	1227	1442	818	1831	1200	39
2B08P	ST. LEON CREEK	West Kootenay	1822	2015-04-01	N/A	1079		101%	1166	1215	581	1553	1072	20
2B09	RECORD MOUNTAIN	West Kootenay	1906	2015-03-24	110	388	B	55%	780	805	315	1307	708	36
2C01	SINCLAIR PASS	East Kootenay	1374	2015-03-31	14	45		41%	73	184	36	262	109	74
2C04	SULLIVAN MINE	East Kootenay	1580	2015-03-29	52	174		64%	242	372	134	538	272	68
2C07	FERNIE EAST	East Kootenay	1213	2015-03-29	6	24		8%	246	372	123	605	286	61
2C09Q	MORRISSEY RIDGE	East Kootenay	1966	2015-04-01	N/A	488		69%	595	833	360	1224	704	33
2C10P	MOYIE MOUNTAIN	East Kootenay	1840	2015-04-01	60	263		64%	351	625	216	679	412	34
2C11	KIMBERLEY (UPPER) VOR	East Kootenay	2148	NS					NS	582	197	798	407	43
2C12	KIMBERLEY (MIDDLE) VOR	East Kootenay	1692	NS					NS	448	116	462	237	43
2C14	FLOE LAKE	East Kootenay	2087	2015-04-03	188	679		93%	899	1027	411	1242	734	40
2C14P	FLOE LAKE	East Kootenay	2110	2015-04-01	N/A	648		93%	757	994	364	983	695	20
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	2015-04-03	150	512		100%	592	NS	252	816	514	40
2C16	MOUNT JOFFRE	East Kootenay	1763	2015-04-03	90	308		88%	428	533	179	711	349	40
2C17	THUNDER CREEK	East Kootenay	2062	2015-04-03	74	214		83%	377	452	140	475	259	40
2C20	VERMILLION RIVER NO. 3	East Kootenay	1612	NS					NS	NS	175	401	264	16
2D02	FERGUSON	West Kootenay	929	2015-03-29	90	414		75%	498	620	142	881	550	70
2D03	SANDON	West Kootenay	1072	2015-04-01	37	154		47%	249	NS	71	585	330	69
2D04	NELSON	West Kootenay	952	2015-04-01	2	5		1%	210	393	137	622	334	75
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	2015-04-02	76	276		63%	413	645	290	688	440	63
2D06	CHAR CREEK	West Kootenay	1290	2015-04-01	65	241		46%	445	620	273	940	525	47
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS					0	132	0	223	83	23
2D08P	EAST CREEK	West Kootenay	2004	2015-04-01	N/A	871		101%	971	1009	442	1245	863	32
2D09	MOUNT TEMPLEMAN	West Kootenay	1879				N		1086	NS	688	1608	1013	35
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	2015-04-02	166	599		83%	785	1048	492	1123	722	42
2D14P	REDFISH CREEK	West Kootenay	2086	2015-04-01	325	1427		120%	1377	1755	994	1755	1188	11

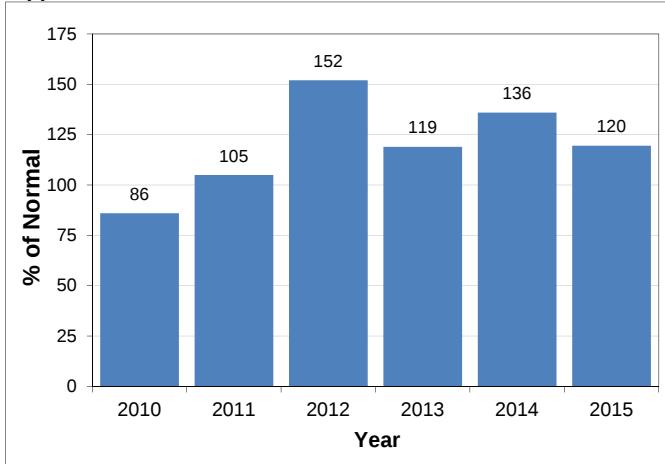
2015 Automated Snow Pillow/Manual Snow Survey Data				April					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2E01	MONASHEE PASS	Boundary	1387	2015-03-30	69	258		80%	291	375	188	517	324	59
2E02	CARMI	Boundary	1254	2015-04-01	0	0		0%	72	134	14	290	115	51
2E03	BIG WHITE MOUNTAIN	Boundary	1672	2015-04-01	101	319		67%	450	478	332	762	476	48
2E06	BLUEJOINT MOUNTAIN	Boundary	1990	NS					736	692	329	1175	706	31
2E07P	GRANO CREEK	Boundary	1874	2015-04-01	104	400	E	78%	482	549	334	791	516	15
2F01A	TROUT CREEK (WEST)	Okanagan	1430	2015-03-31	30	132		67%	210	272	210	272	196	3
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	2015-03-26	47	171		87%	224	239	96	389	197	72
2F03	MC CULLOCH	Okanagan	1266	2015-03-31	2	6	A	5%	165	189	38	249	132	75
2F04	GRAYSTOKE LAKE	Okanagan	1818	NS					NS	430	196	828	339	40
2F05P	MISSION CREEK	Okanagan	1794	2015-04-01	109	396		83%	546	549	276	728	478	43
2F07	POSTILL LAKE	Okanagan	1358	2015-04-01	28	90		45%	190	241	109	348	202	63
2F08	GRAYBACK RESERVOIR	Okanagan	1548	2015-03-28	54	193		87%	253	298	114	351	223	60
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2015-03-28	102	389		75%	601	563	318	1021	521	60
2F10	SILVER STAR MOUNTAIN	Okanagan	1834	2015-04-02	167	657	A	91%	854	740	414	1115	723	55
2F11	ISINTOK LAKE	Okanagan	1651	2015-03-24	37	114	B	77%	176	200	66	340	148	46
2F12	MOUNT KOBAL	Okanagan	1817	2015-03-29	63	229		75%	496	312	105	602	304	48
2F13	ESPERON CR (UPPER)	Okanagan	1634	2015-03-28	69	260		68%	410	384	244	805	383	42
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	2015-03-28	55	224		68%	342	296	196	607	328	43
2F18P	BRENDA MINE	Okanagan	1453	2015-04-01	N/A	190		55%	274	340	201	497	345	20
2F19	OYAMA LAKE	Okanagan	1365	NS					136	174	61	255	154	41
2F20	VASEUX CREEK	Okanagan	1403	2015-03-28	18	44		33%	104	118	40	239	132	42
2F21	BOULEAU LAKE	Okanagan	1405	2015-03-30	43	160		52%	324	246	192	564	306	39
2F23	MACDONALD LAKE	Okanagan	1742	2015-04-01	78	307		72%	428	380	257	677	428	34
2F24	ISLAHT LAKE	Okanagan	1492	2015-04-01	45	145		47%	259	227	165	501	309	31
2F25	POSTILL LAKE (UPPER)	Okanagan	1500	2015-04-01	14	38	A		231	274	170	274	N/A	4
2G03P	BLACKWALL PEAK	Similkameen	1934	2015-04-01	172	636		83%	712	1135	403	1497	770	45
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	2015-03-27	75	242		112%	248	243	138	533	216	49
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2015-03-26	31	100		51%	166	246	90	361	197	48
2G06	HAMILTON HILL	Similkameen	1477	2015-03-26	35	119		41%	213	367	83	851	291	54
3A01	GROUSE MOUNTAIN	South Coast	1126	2015-04-01	0	0		0%	1650	1590	44	2670	1160	72
3A02	POWELL RIVER (UPPER)	South Coast	1002	2015-03-31	16	15	A	2%	888	NS	511	1813	969	31
3A05	POWELL RIVER (LOWER)	South Coast	882	2015-03-31	8	8	A	1%	1138	NS	85	1554	651	32
3A09	PALISADE LAKE	South Coast	898	2015-04-01	0	0		0%	1610	1857	285	3560	1322	55
3A10	DOG MOUNTAIN	South Coast	1007	2015-04-01	0	0		0%	1540	1525	51	2720	1137	63
3A19	ORCHID LAKE	South Coast	1178	2015-03-27	26	90		5%	1953	2495	748	3770	1769	34
3A20	CALLAGHAN CREEK	South Coast	1009	2015-03-30	4	24	A	3%	882	1128	192	1604	820	35
3A22P	NOSTETUKO RIVER	South Coast	1457	2015-04-01	57	287		51%	428	829	233	1074	568	24
3A24P	UPPER MOSLEY CREEK	South Coast	1655	2015-04-01	90	334		116%	161	331	147	567	288	24
3A25P	SQUAMISH RIVER (UPPER)	South Coast	1387	2015-04-01	N/A	715		45%	1574	1973	803	2760	1584	23

2015 Automated Snow Pillow/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	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	2015-04-02	6	30	A	2%	1529	2188	387	3550	1485	59
3B02A	MT. COKELY	Vancouver Island	1267	2015-04-02	0	0	T	0%	1086	NS	331	2100	831	31
3B04	ELK RIVER	Vancouver Island	270	2015-04-02	0	0		0%	0	0	0	607	34	49
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	2015-04-02	0	0		0%	1634	2158	354	3200	1455	53
3B13	HEATHER MOUNTAIN	Vancouver Island	1170	NS					NS	NS	170	1892	818	25
3B17P	WOLF RIVER	Vancouver Island	1422	2015-04-01	N/A	382		29%	1220	1627	305	2600	1320	31
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	2015-04-02	0	0		0%	640	828	0	1706	618	41
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	2015-04-02	0	0		0%	326	650	0	1198	315	41
3B23P	JUMP CREEK	Vancouver Island	1134	2015-04-01	N/A	0		0%	1267	1708	184	3040	1088	17
3B24	HEATHER MOUNTAIN UPPER	Vancouver Island	N/A	NS					NS	NS	N/A	N/A	N/A	N/A
3C07	WEDEENE RIVER SOUTH	Central Coast	196	2015-03-26	49	208		54%	482	981	96	981	383	26
3C08P	BURNT BRIDGE CREEK	Central Coast	1329	2015-04-01	185	847		106%	725	1390	427	1402	802	15
3D01C	SUMALLO RIVER WEST	Skagit	801	2015-03-27	0	0		0%	239	461	0	461	191	20
3D02	LIGHTNING LAKE	Skagit	1254	2015-03-27	54	190		68%	276	445	60	622	278	63
3D03A	KLESILKWA	Skagit	1134	2015-03-27	0	0		0%	303	416	0	792	231	61
4A02	PINE PASS	Peace	1439				N		1179	1731	668	1731	1204	51
4A02P	PINE PASS	Peace	1386	2015-04-01	241	877		85%	965	1487	844	1550	1026	24
4A03	WARE (UPPER)	Peace	1563	2015-04-01	85	233		90%	266	235	157	390	258	42
4A04	WARE (LOWER)	Peace	969	2015-04-01	69	180		93%	190	215	118	316	194	41
4A05	GERMANSEN (UPPER)	Peace	1489	2015-03-31	112	352		101%	326	488	261	523	348	46
4A06	TUTIZZI LAKE	Peace	1043	2015-03-31	76	213		82%	231	349	166	406	259	49
4A07	LADY LAURIER LAKE	Peace		2015-04-01	161	509		96%	414	694	384	854	529	47
4A09	PULPIT LAKE	Peace	1331	2015-04-01	129	420		99%	439	516	297	618	425	49
4A09P	PULPIT LAKE	Peace	1331	2015-04-01	122	380		87%	438	527	344	620	439	23
4A10	FREDRICKSON LAKE	Peace	1323	2015-03-31	95	256		104%	221	259	163	351	247	49
4A11	TRYGVE LAKE	Peace	1409	2015-03-31	124	374		101%	328	452	257	511	370	49
4A12	TSAYDAYCHI LAKE	Peace	1173	2015-03-31	112	393		99%	363	575	277	639	398	47
4A13	PHILIP LAKE	Peace	1013	2015-03-31	67	221		79%	322	357	176	449	279	47
4A16	MORFEE MOUNTAIN	Peace	1427				N		863	1003	555	1158	833	46
4A18	MOUNT SHEBA	Peace	1480	2015-03-30	215	839		102%	1010	1181	495	1294	823	44
4A20	MONKMAN CREEK	Peace	1566	2015-03-30	161	567		105%	717	796	313	1067	540	33
4A21	MOUNT STEARNS	Peace	1514	2015-04-01	69	156		106%	151	110	59	239	147	36
4A25	FORT ST. JOHN AIRPORT	Peace	692	2015-03-30	49	129		133%	154	70	0	226	97	39
4A27P	KWADACHA RIVER	Peace	1695	2015-04-01	125	313	E	95%	298	330	236	446	328	16
4A30P	AIKEN LAKE	Peace	1061	2015-04-01	N/A	249		93%	201	328	197	371	268	28
4B01	KIDPRICE LAKE	Skeena-Nass	1415	2015-03-31	255	915		98%	694	1781	622	1781	931	58
4B02	JOHANSON LAKE	Skeena-Nass	1480	2015-03-31	107	306		102%	272	341	173	417	301	49
4B03A	HUDSON BAY MTN	Skeena-Nass	1452	2015-03-31	154	536		107%	392	651	356	846	499	42
4B04	CHAPMAN LAKE	Skeena-Nass	1485	2015-04-01	126	425		93%	404	672	315	762	457	48

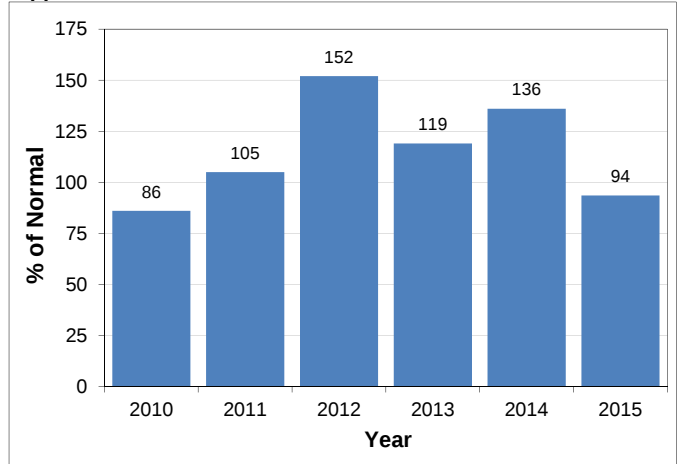
2015 Automated Snow Pillow/Manual Snow Survey Data				April					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4B06	TACHEK CREEK	Skeena-Nass	1133	2015-03-29	84	244		109%	242	328	112	362	223	45
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	2015-04-01	74	276		102%	265	362	183	427	271	45
4B08	MOUNT CRONIN	Skeena-Nass	1491	2015-04-01	148	496		87%	512	743	433	1097	570	45
4B10	NINGUNSAW PASS	Skeena-Nass	647	2015-03-31	58	220		51%	324	554	231	730	434	39
4B11A	BEAR PASS	Skeena-Nass	437	NS					544	771	330	1013	642	29
4B13A	TERRACE AIRPORT	Skeena-Nass	219	2015-03-26	0	0		0%	13	309	0	333	84	33
4B14	EQUITY MINE	Skeena-Nass	1434	2015-03-26	130	468		122%	332	556	258	640	385	37
4B15	LU LAKE	Skeena-Nass	1296	2015-03-26	104	360		124%	272	456	162	504	291	37
4B15P	LU LAKE	Skeena-Nass	1308	2015-04-01	102	436		165%	263	383	154	478	264	15
4B16P	SHEDIN CREEK	Skeena-Nass	1320	2015-04-01	181	582		65%	684	1096	660	1096	896	17
4B17P	TSAI CREEK	Skeena-Nass	1369	2015-04-01	246	1088		93%	936	1754	929	1825	1165	15
4B18P	CEDAR - KITEEN	Skeena-Nass	912	2015-04-01	489	411		58%	530	1042	349	1126	712	12
4C01	SIKANNI LAKE	Liard	1390	2015-04-01	108	287		104%	231	294	194	380	276	48
4C02	SUMMIT LAKE	Liard	1291	2015-03-31	58	124		110%	75	54	0	240	113	45
4C03	DEASE LAKE	Liard	805	NS					160	67	50	259	132	48
4C05	FORT NELSON A	Liard	368	2015-03-31	27	60		64%	108	58	23	198	94	47
4C15	JADE CITY	Liard	943	2015-03-25	67	156		66%	238	254	162	340	238	12
4D01	TELEGRAPH CREEK	Stikine	490	2015-04-01	27	85		58%	121	NS	37	343	146	37
4D02	ISKUT	Stikine	931	NS					94	106	0	180	98	39
4D11P	KINASKAN LAKE	Stikine	1020	2015-04-01	93	323		80%						
4E02B	ATLIN LAKE	Northwest		NS					104	NS	76	243	N/A	9
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 - April 1, 2015

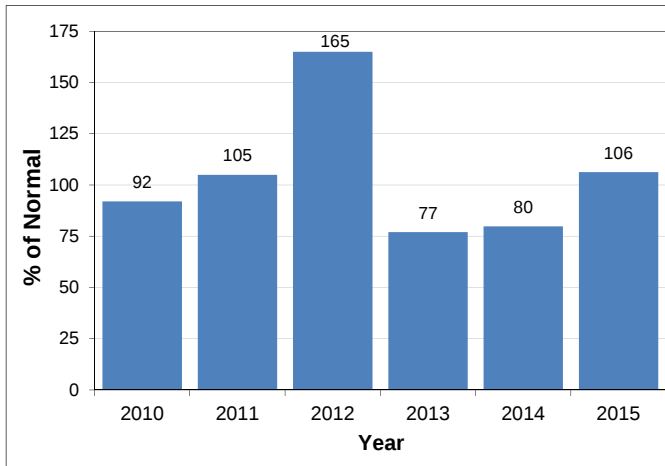
Upper Fraser West



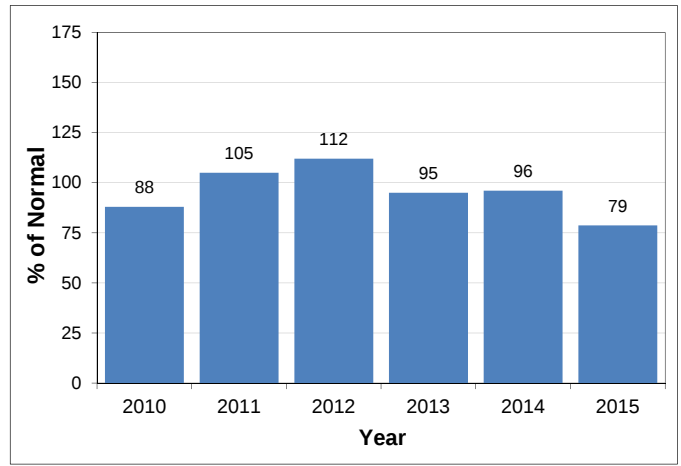
Upper Fraser East



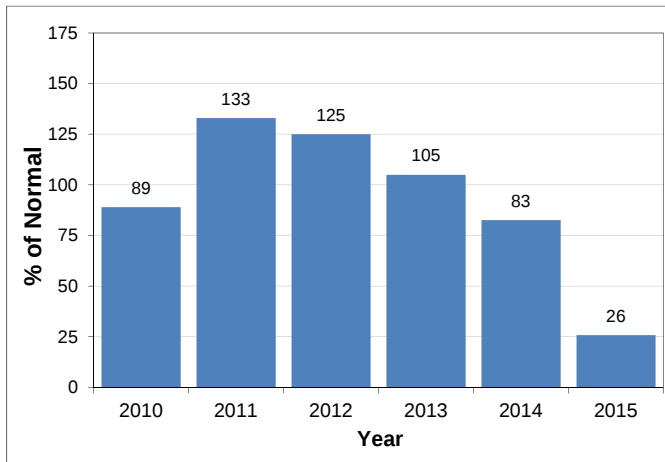
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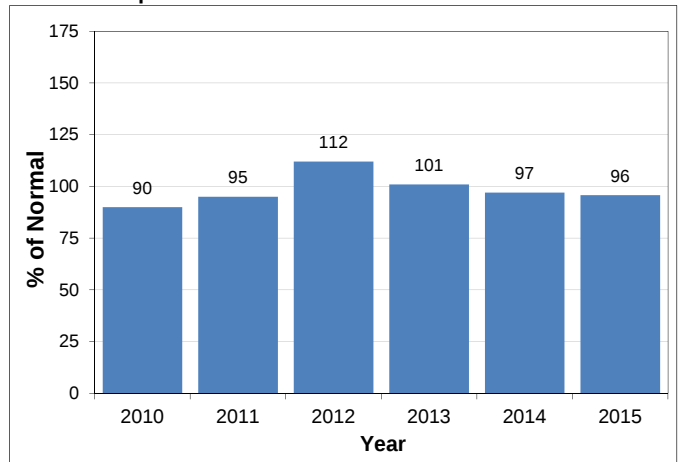
Middle Fraser



Lower Fraser

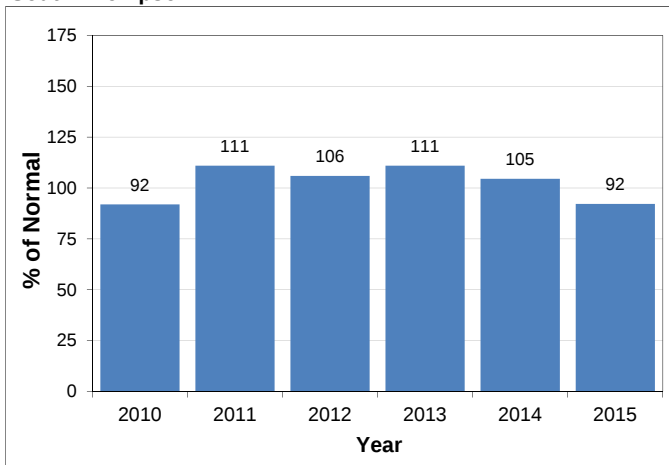


North Thompson

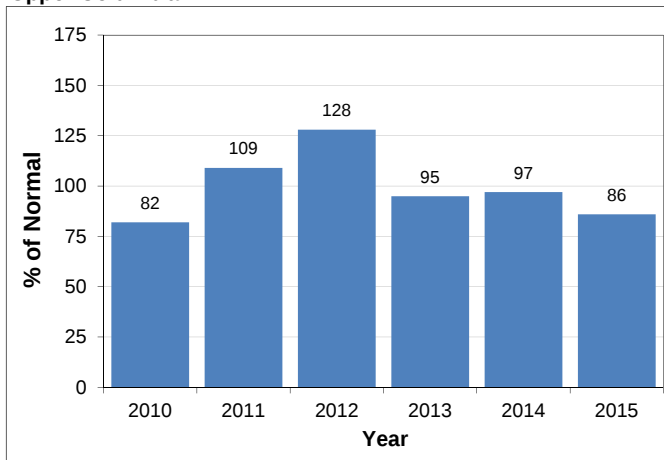


Snow Basin Index Graphs - April 1, 2015

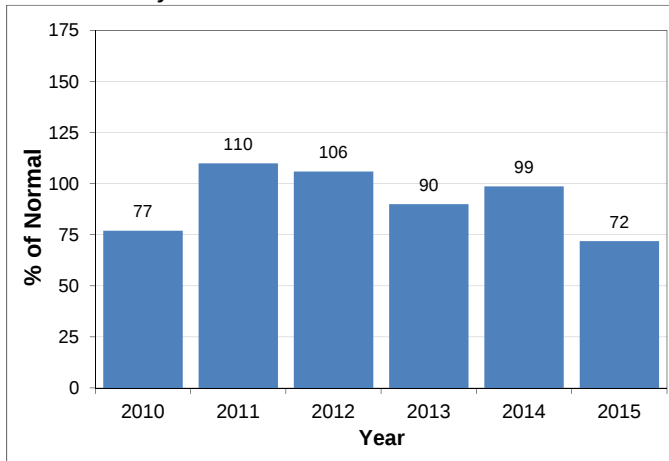
South Thompson



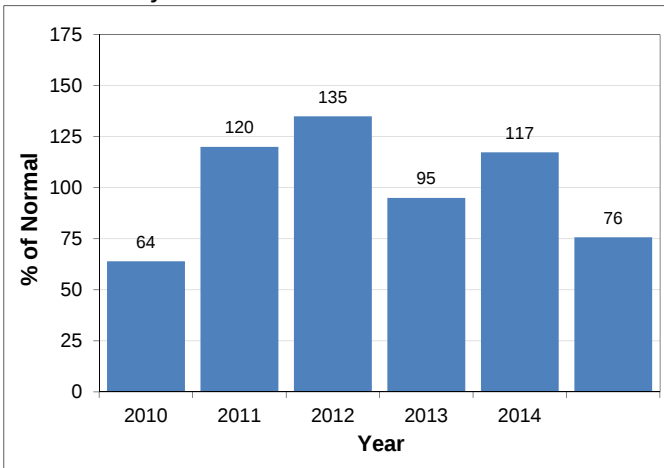
Upper Columbia



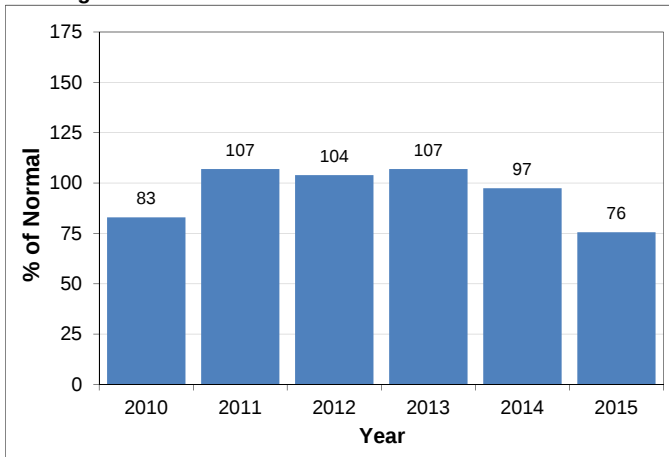
West Kootenay



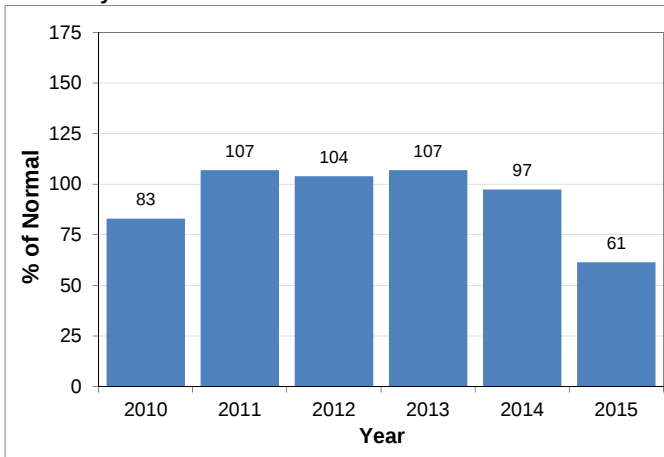
East Kootenay



Okanagan

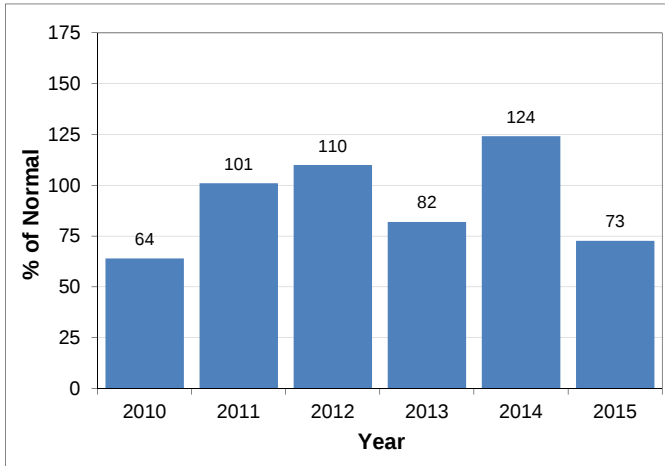


Boundary

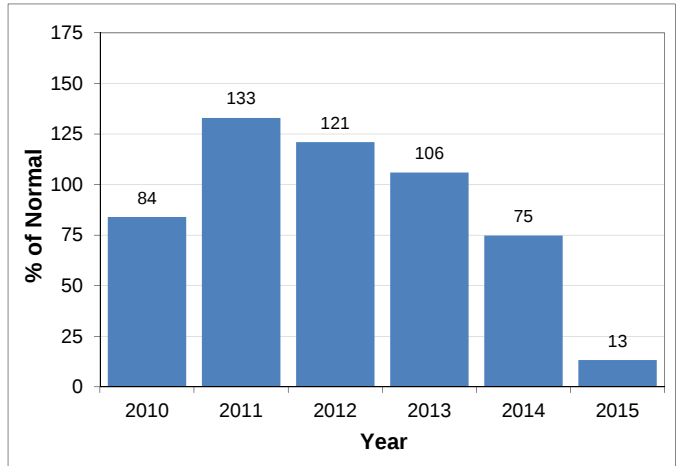


Snow Basin Index Graphs - April 1, 2015

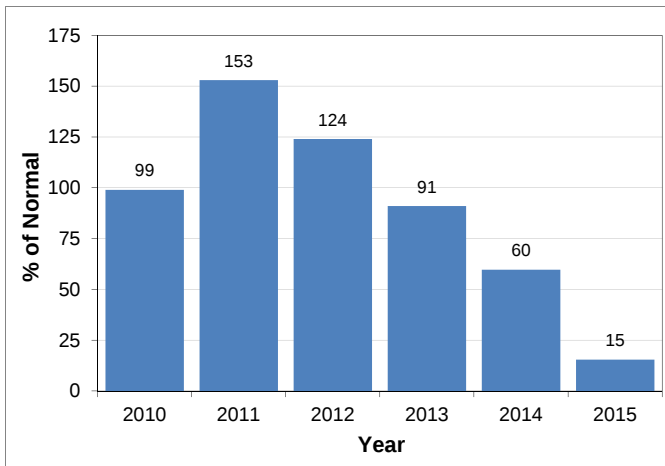
Similkameen



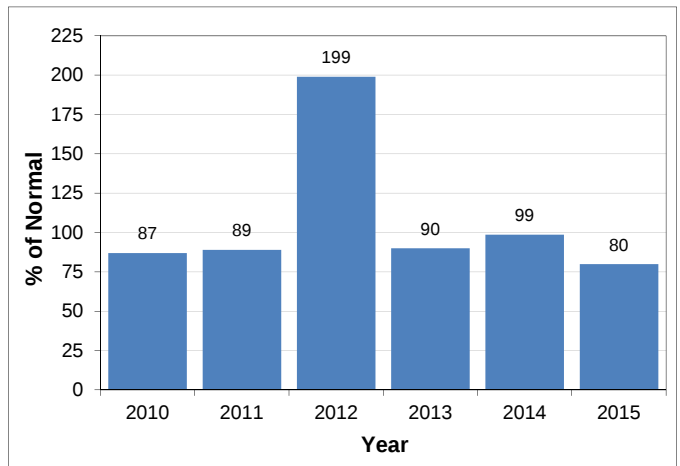
South Coast



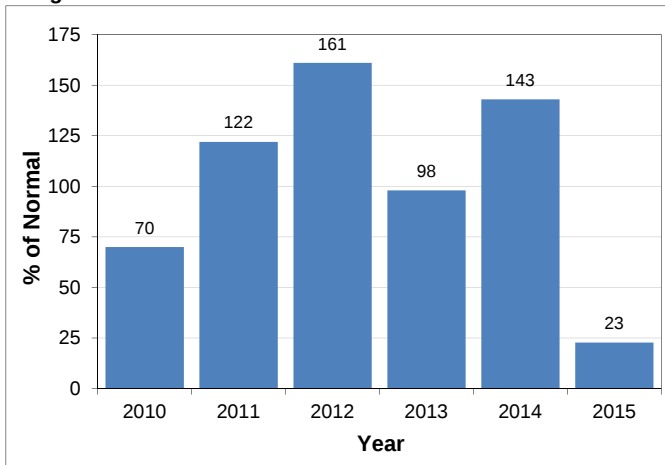
Vancouver Island



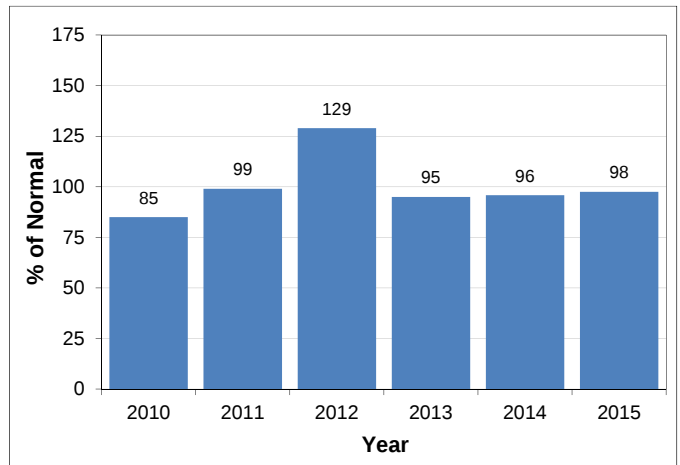
Central Coast



Skagit

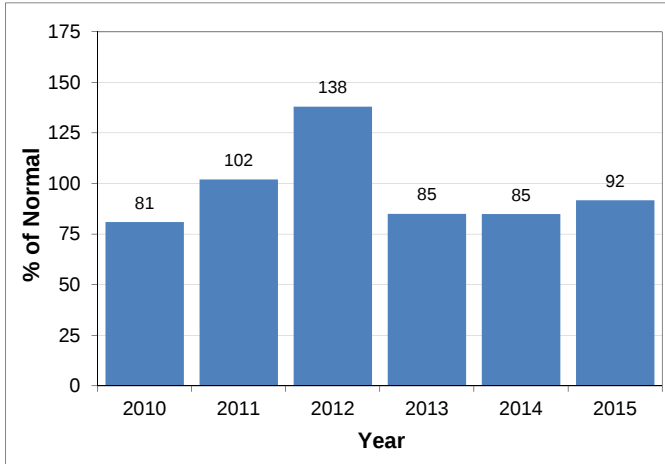


Peace

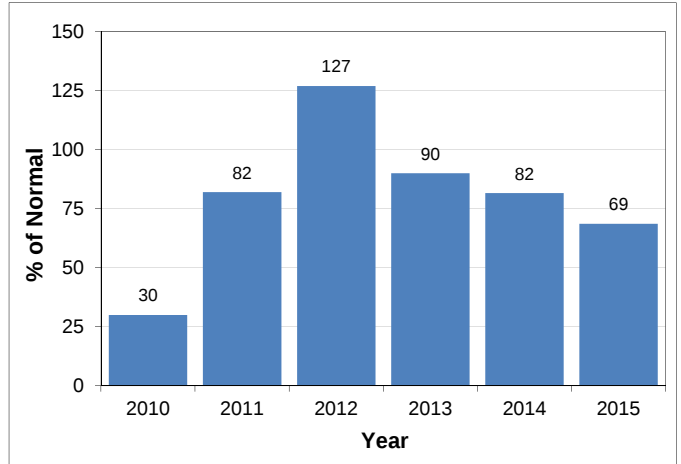


Snow Basin Index Graphs - April 1, 2015

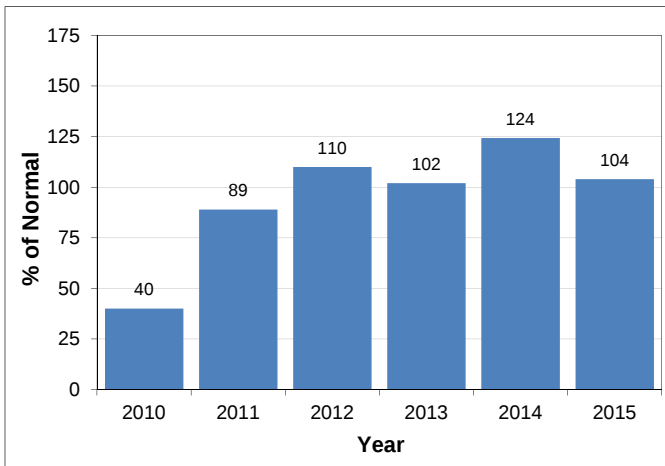
Skeena-Nass



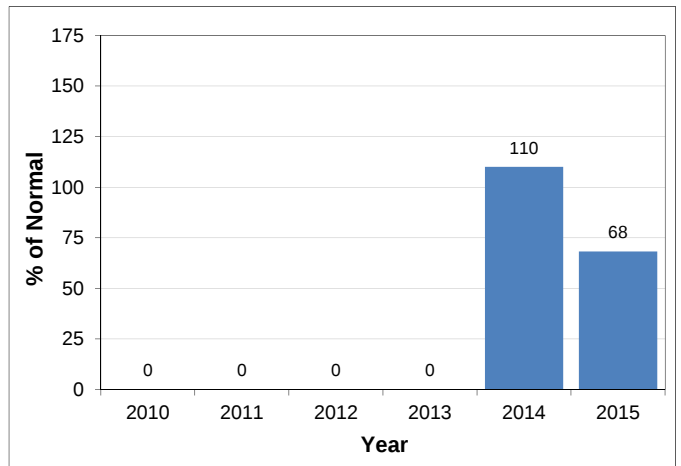
Stikine



Liard



Northwest



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

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					3563	3699	96%	307	5042	5166	98%	381
	McGregor at Lower Canyon					3621	3964	91%	428	4676	5010	93%	564
	Fraser at Shelley					14328	15670	91%	1179	18388	19730	93%	1562
Middle Fraser Basin	Quesnel River at Quesnel	4127	4541	91%	418					5387	5872	92%	568
Thompson Basin	N. Thompson at McLure	8287	8916	93%	481					10414	11085	94%	753
	S. Thompson at Chase	5918	5792	102%	448					7568	7359	103%	686
	Thompson at Spences Bridge	14760	15114	98%	973					18842	19094	99%	1560
Bulkley and Skeena	Bulkley at Quick	2739	2625	104%	236					3355	3222	104%	272
	Skeena at Usk	19226	18673	103%	1173					23616	23017	103%	1698
Nicola Lake	Inflows	69	121	57%	30	80	138	58%	35				
Nicola River	at Spences Bridge	251	486	52%	82	263	554	48%	101				
Okanagan and Kalamalka- Wood Lake	Okanagan Lake Inflow	458	440	104%	88	489	465	105%	108				
	Kalamalka-Wood Lake Inflow	17.9	28.0	64%	11.3	14.7	29.4	50%	13.2				
Similkameen River	Similkameen at Nighthawk	1065	1273	84%	128					1292	1583	82%	156
	Similkameen at Hedley	795	989	80%	96					917	1177	78%	96
Cowichan River	Cowichan Lake Inflows	155	248	63%	57					191	292	65%	57

1 kdam³=1,000,000 m³

Note that missing values reflect that forecasts were not made for that time interval

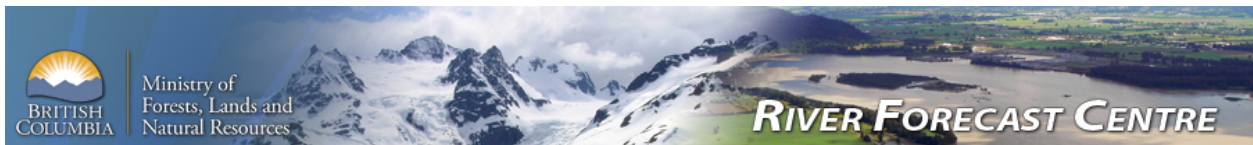
Disclaimer: Seasonal forecasts were developed using a Principle Component Analysis of snow pack, climate and streamflow data.

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



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 report¹.

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

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 – 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

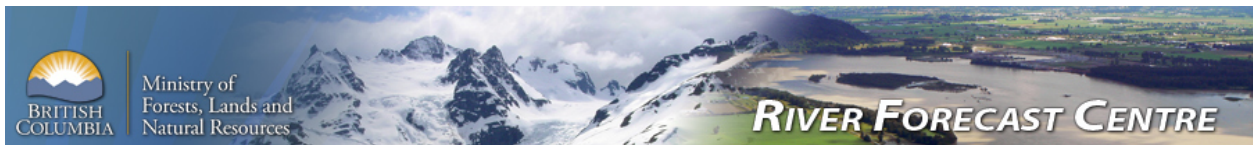
*indicates record low snow basin index for May 1 snow survey (1985-2015)

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.



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

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.

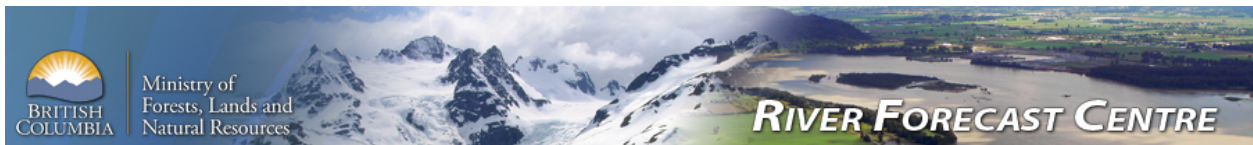
At a basin-wide scale, much higher than normal snow packs in the Upper Fraser West basin indicate increased seasonal flood risk in the Nechako basin this year. Elsewhere in the province, the seasonal flood risk is about normal in the Peace, Liard, Upper Fraser East, Skeena-Nass, Stikine, and Thompson 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 m³/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

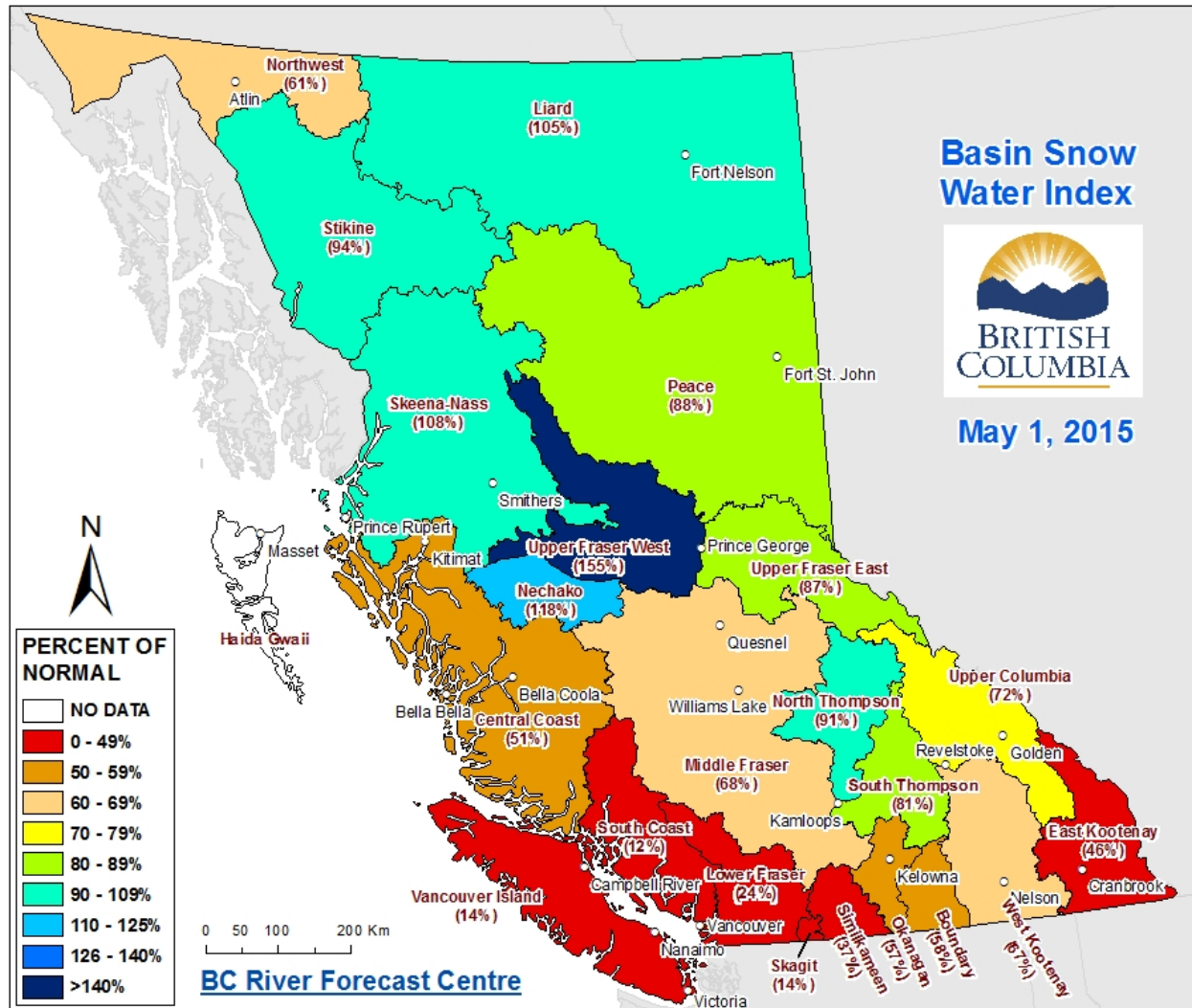
included below. Slightly below average seasonal runoff is forecast for most basins, with very low runoff forecast for the Nicola (58 to 73% of normal), Kalamalka-Wood (33 to 42% of normal), Okanagan (71% to 74% of normal) and Cowichan (46 to 54% of normal).

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

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

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



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	DOMO 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

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
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

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
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

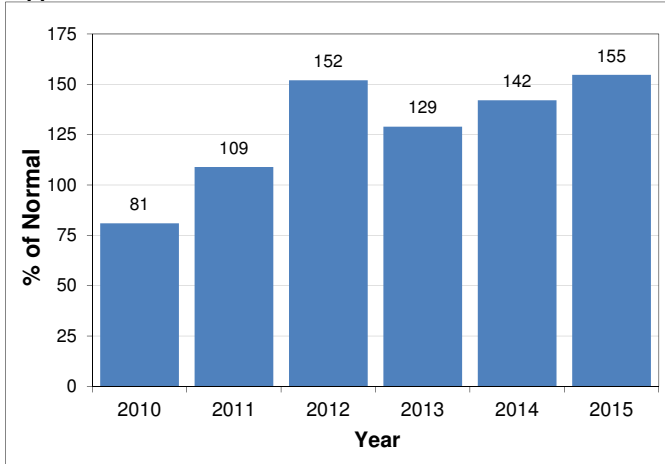
2015 Automated Snow Pillow/Manual Snow Survey Data				May					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
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 KOBAN	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

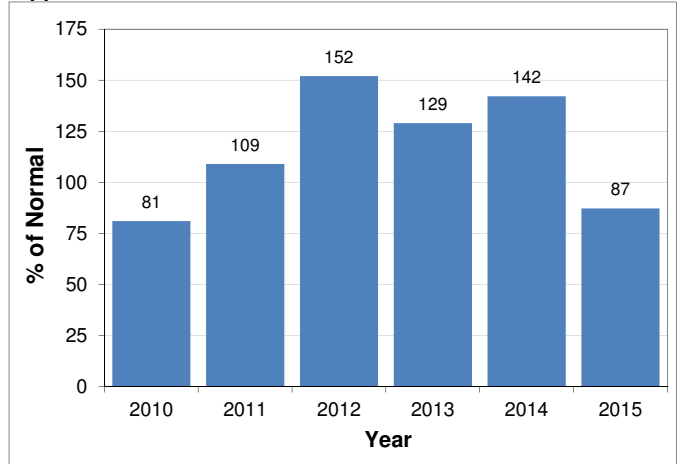
2015 Automated Snow Pillow/Manual Snow Survey Data				May					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
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

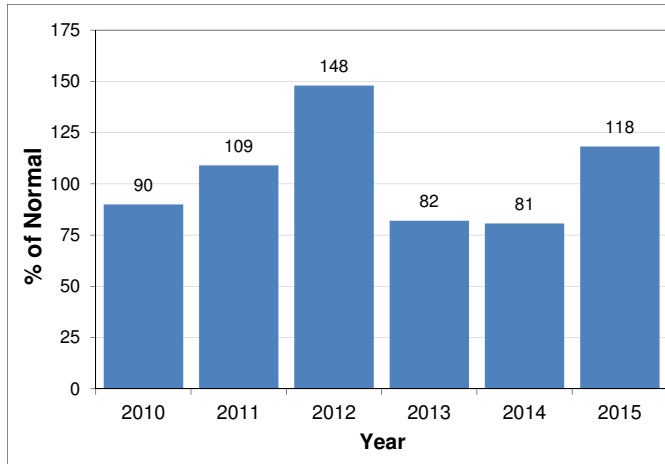
Upper Fraser West



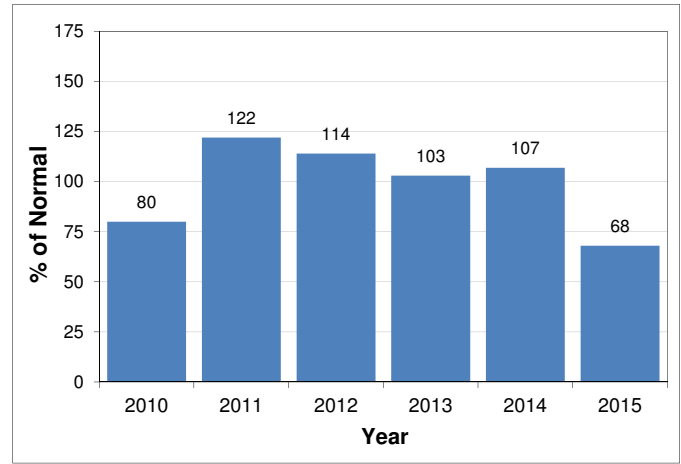
Upper Fraser East



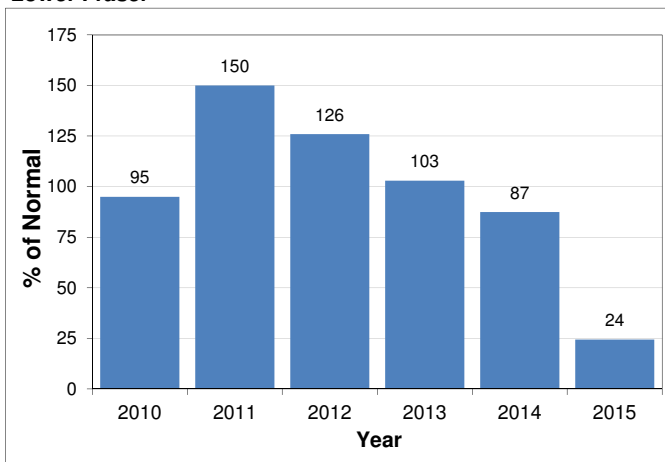
Nechako



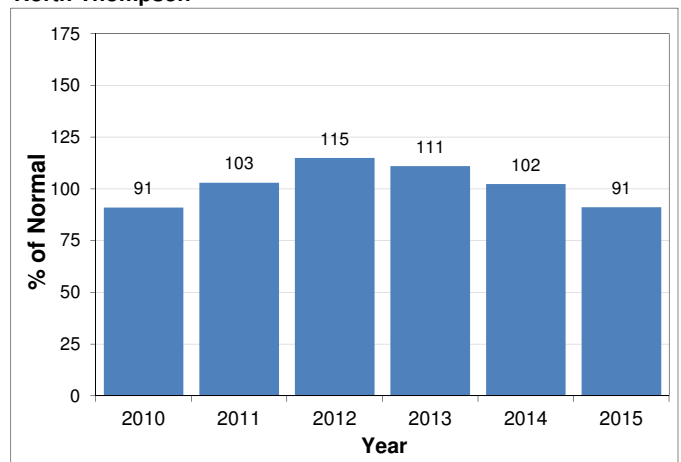
Middle Fraser



Lower Fraser

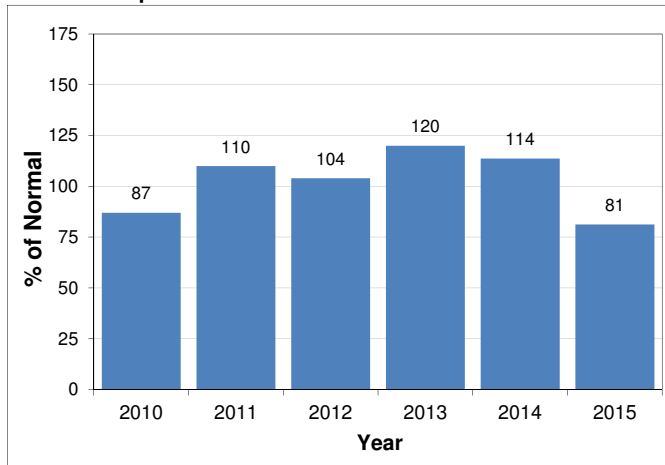


North Thompson

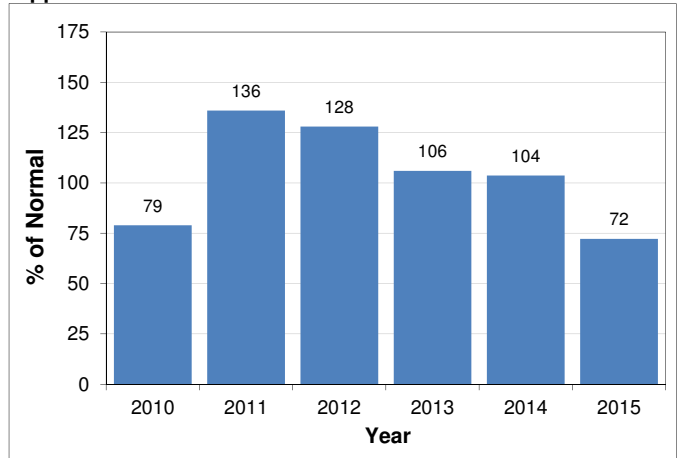


Snow Basin Index Graphs - May 1, 2015

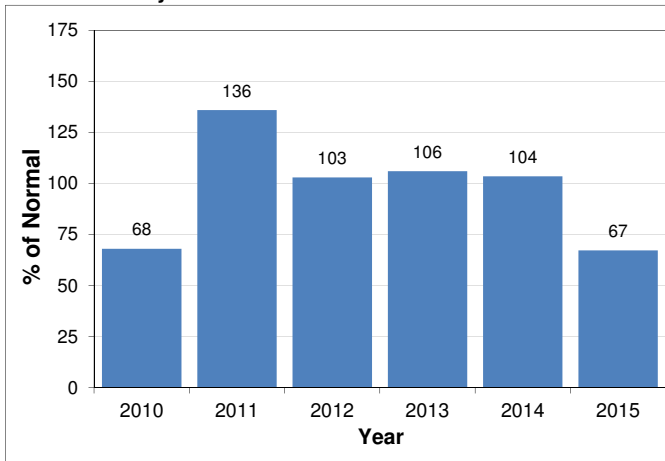
South Thompson



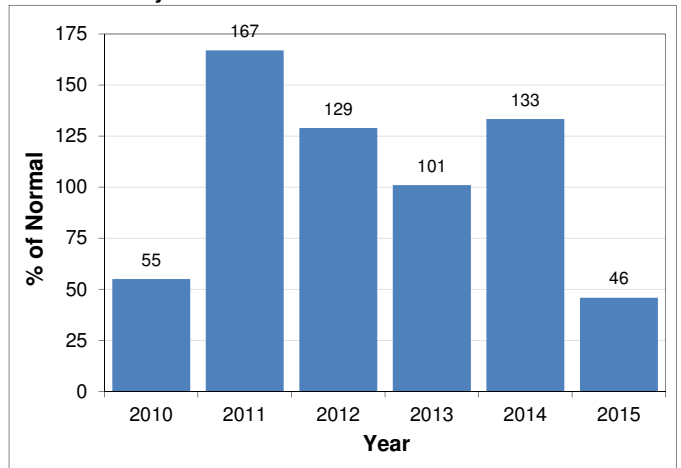
Upper Columbia



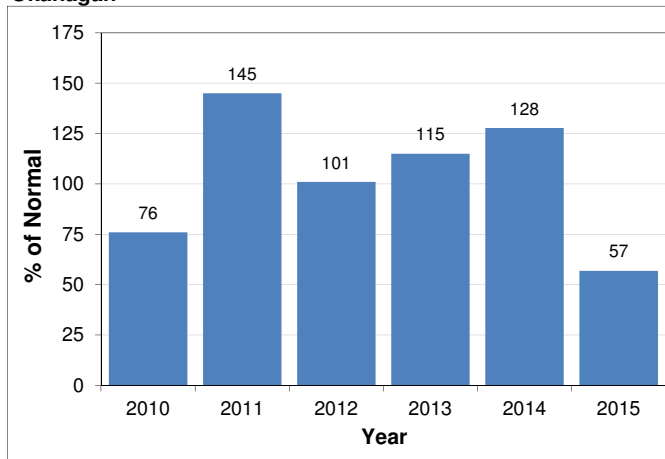
West Kootenay



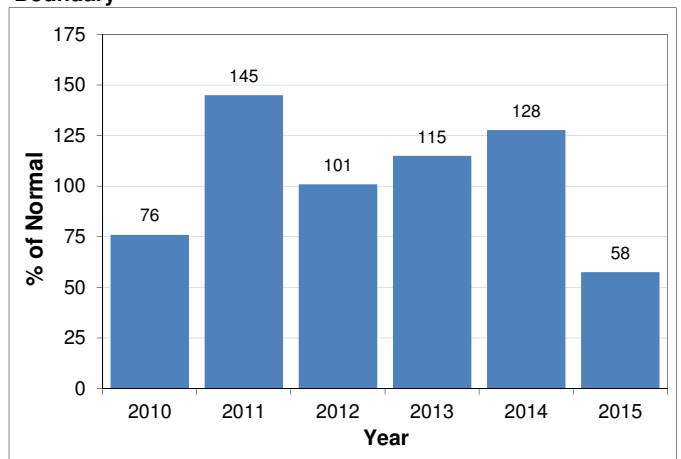
East Kootenay



Okanagan

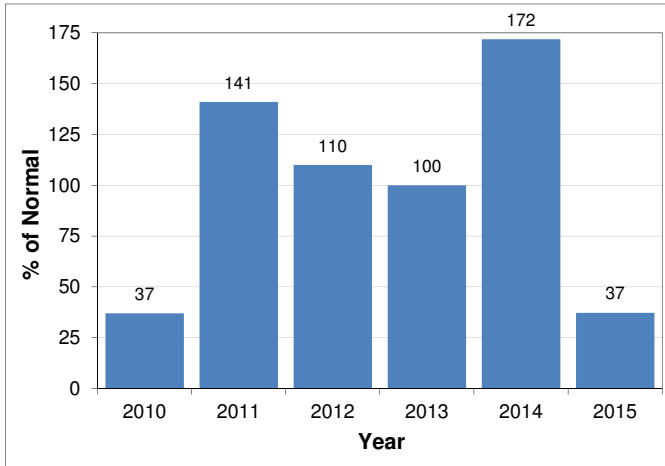


Boundary

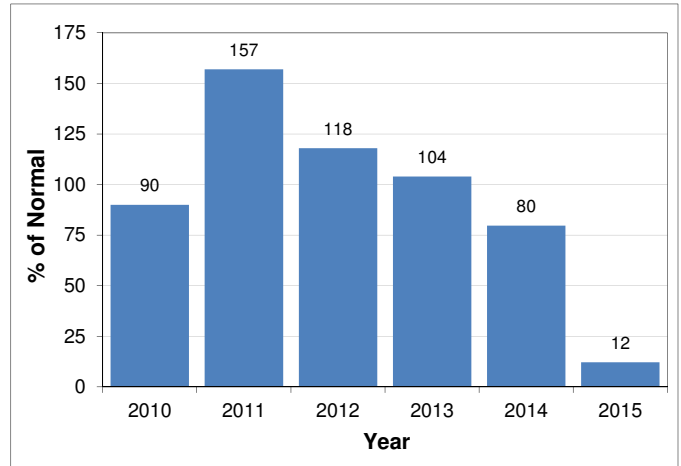


Snow Basin Index Graphs - May 1, 2015

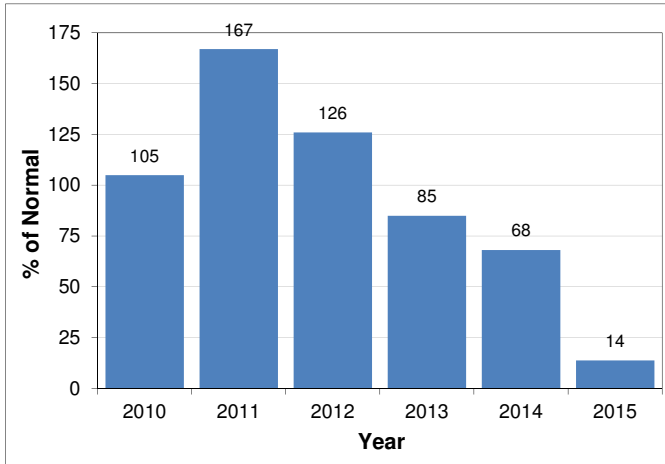
Similkameen



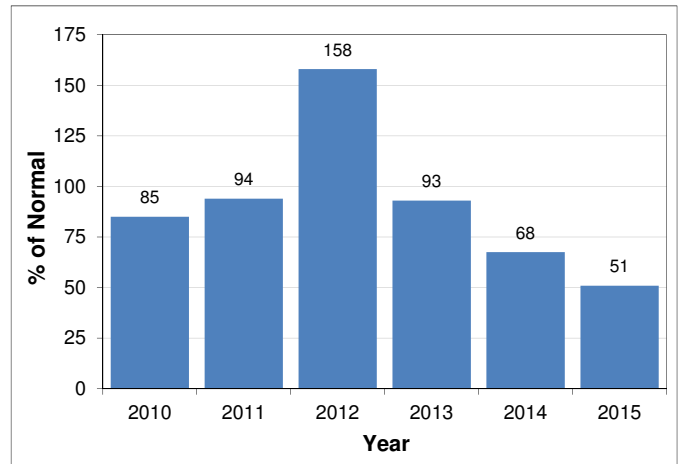
South Coast



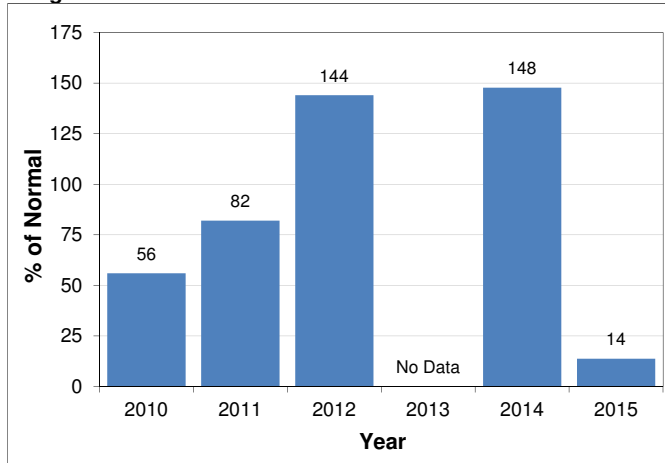
Vancouver Island



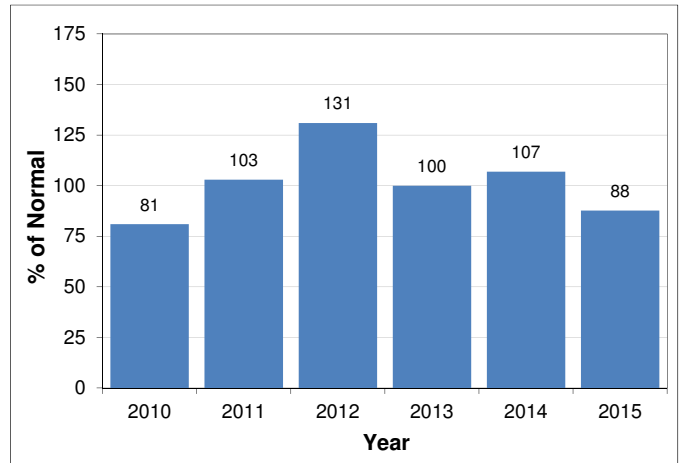
Central Coast



Skagit

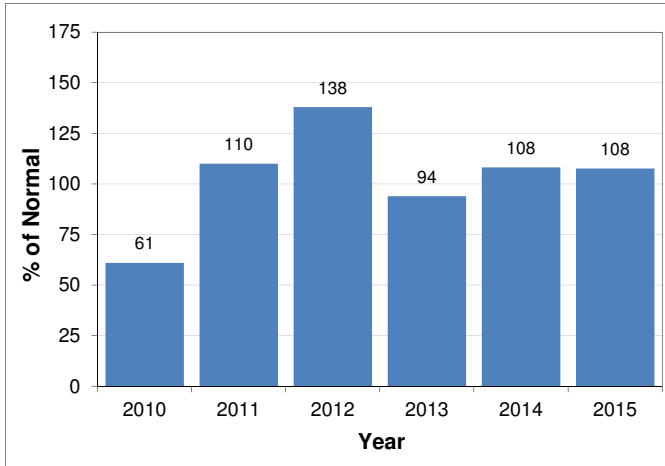


Peace

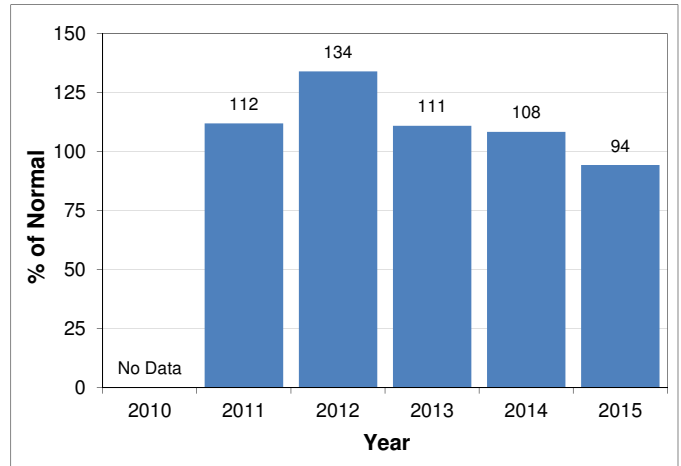


Snow Basin Index Graphs - May 1, 2015

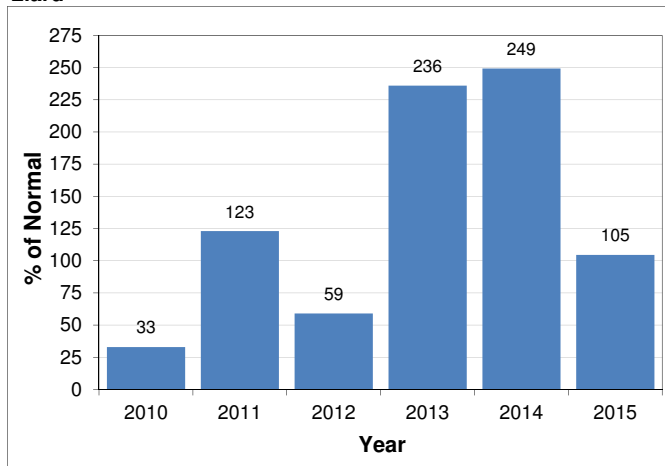
Skeena-Nass



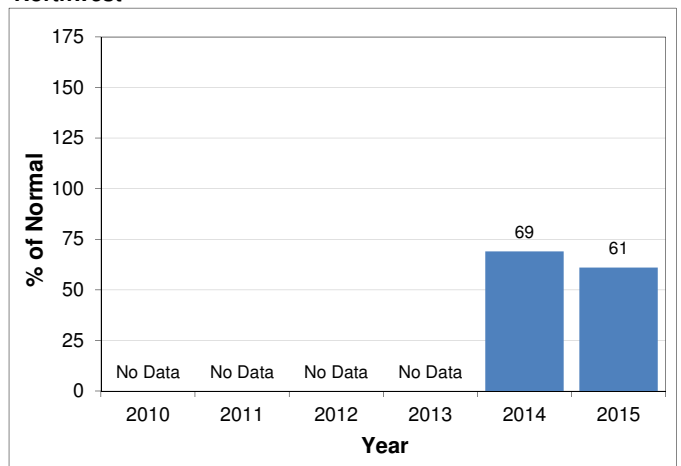
Stikine



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 kdam³=1,000,000 m³

Note that missing values reflect that forecasts were not made for that time interval

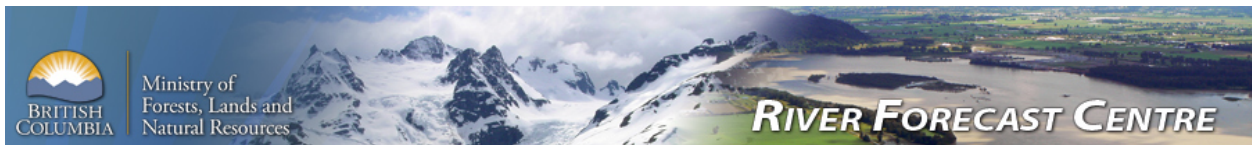
Disclaimer: Seasonal forecasts were developed using a Principle Component Analysis of snow pack, climate and streamflow data.

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



Snow Survey and Water Supply Bulletin – May 15th, 2015

The May 15th snow survey is now complete. Data from 27 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 report¹.

Weather

The first week in May saw a cold low pressure system move across British Columbia, bringing cooler temperatures and scattered precipitation. Into the second week of the month, a blocking high pressure ridge developed over northern BC and this pattern has largely persisted. This has brought extremely warm, summer-like temperatures across the northern portions of the province (20-25°C) and warm conditions through other areas. Thunderstorms over the period have been the primary source of precipitation through the month, leading to sporadic and localized rain events. Wide-spread rainfall has been limited in May.

Snow Pack

Warm weather through early May has led to rapid snow melt across the province. Most snow survey locations across the province experienced 50-200 mm of snow water equivalent loss over the May 1st to May 15th period. Current melt rates at snow pillows range from 5-25mm/day through most of the province, with some regions experiencing up to 30-40mm/day of melt.

May 15th snow basin indices have declined through most of the province since May 1st, and range from a low of 11% of normal in the South Coast and Vancouver Island, to a high of 122% of normal in the Nechako. May 15th snow basin indices have increased since May 1st in the Upper Fraser-East, Nechako, Lower Fraser, Upper Columbia, Boundary, and Central Coast.

Most regions of the province have extremely low May 15th snow basin indices (<49% of normal) (Figure 1). This includes the Middle Fraser, Lower Fraser, East Kootenay, Okanagan, Similkameen, South Coast, Vancouver Island and Peace. Below normal snow basin indices (50-79%) are present in the Boundary, South Thompson, West Kootenay and Stikine. Slightly below normal (80-89%) basin indices are present in the North Thompson, Upper Columbia, and Central Coast. Near normal (90-109%) snow basin indices are present in the Upper Fraser and Skeena-Nass basins. Above normal (>120%) snow pack conditions are present in the Nechako basin.

The average of all provincial snow water equivalent measurements for May 15th is 60% of average conditions. This is the lowest province-wide average for the May 15th bulletin in the past 31 years of record.

The extremely low snow pack this season is the result of warm winter and spring temperatures that have led to a higher than normal portion of the winter precipitation falling as rain rather than snow and high rates of early season melt.

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 – May 15th, 2015

Table 1 - BC Snow Basin Indices – May 15, 2015

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	No Data ¹	Boundary	70
Upper Fraser East	103	Similkameen	29
Nechako	122	South Coast	11
Middle Fraser	41	Vancouver Island	11
Lower Fraser	37	Central Coast	83
North Thompson	86	Skagit	No Data ¹
South Thompson	73	Peace	47
Upper Columbia	86	Skeena-Nass	91
West Kootenay	55	Stikine	70
East Kootenay	24	Liard	No Data ¹
Okanagan	41	Northwest	No Data ¹

¹ Data is not available either because there were no scheduled snow surveys or no snow surveys were completed.

Streamflow Runoff

Many rivers across the province experienced much higher than normal streamflow over the late-winter and spring period. This was a result of increased runoff due to winter and spring precipitation as rain and rapid early season snow melt.

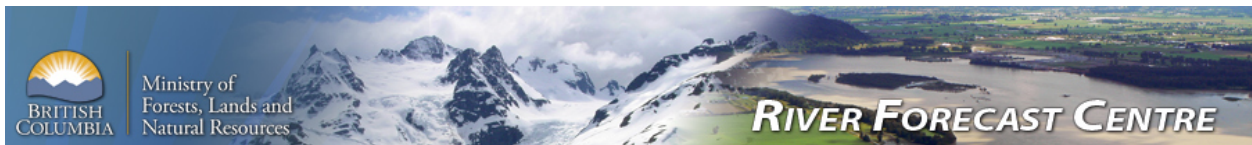
In some regions of the province, particularly where there is still significant high-elevation snow packs remaining, streamflows remain above normal as unseasonably hot temperatures have been driving rapid snow melt. In unregulated streams in the Nechako River basin, for example, flow rates are currently at 5-year to 50-year return period flow levels.

In the southern part of the province, particularly on Vancouver Island, the depletion of this seasons' marginal snow pack has transitioned rivers to extremely low levels for this time of year. Flow conditions in mid-May this year are more similar to what is observed in July or August in an average year and is an early indication that there is a risk of extreme low flows this season if the region does not experience wetter than normal summer weather.

Snow packs are still sufficient across some regions of the province to provide on-going seasonal risk for flooding. This is the case for regions that typically experience peak levels later in the melt season, including the Fraser River and Thompson River.

Outlook

Current weather patterns are persistent, with a blocking ridge over northern British Columbia leading to limited flow of upper air and continued hot weather with some



Snow Survey and Water Supply Bulletin – May 15th, 2015

instability and thundershowers. This pattern is expected to continue through the weekend and into next week, with persistent above-normal temperatures. Current long-range temperature forecasts from Environment Canada indicate a high likelihood of above normal temperatures across British Columbia through the short (1 month) and long (3-month) terms. Precipitation forecasts, which are less reliable than temperature, suggest normal precipitation over the next three months, with the exception of the eastern third of the province that may experience above normal precipitation.

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.

In the Nechako and Bulkley Rivers, snow packs are nearing a point where flows on natural systems are expected to peak within the coming week. On the Nechako River near the confluence with the Fraser, the peak is expected to occur later as flows from the Stuart River are forecast to continue to rise. In the larger rivers of the province, warmer weather over the next 5-10 days is expected to continue the on-going rapid snow melt, and steady rises in river levels are expected.

With current weather conditions and outlook, the low flow season is expected to begin early this season. The extent of low flows will largely be affected by late-spring and summer temperature and precipitation. However, with the shift to earlier season low flows, there is the potential for very low summer flows in some regions unless wetter than normal summer weather occurs.

The River Forecast Centre will continue to monitor snow pack conditions and streamflow across the province and provide flood and low streamflow advisories as needed. 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 Monday, June 8th.

BC River Forecast Centre
May 21, 2015

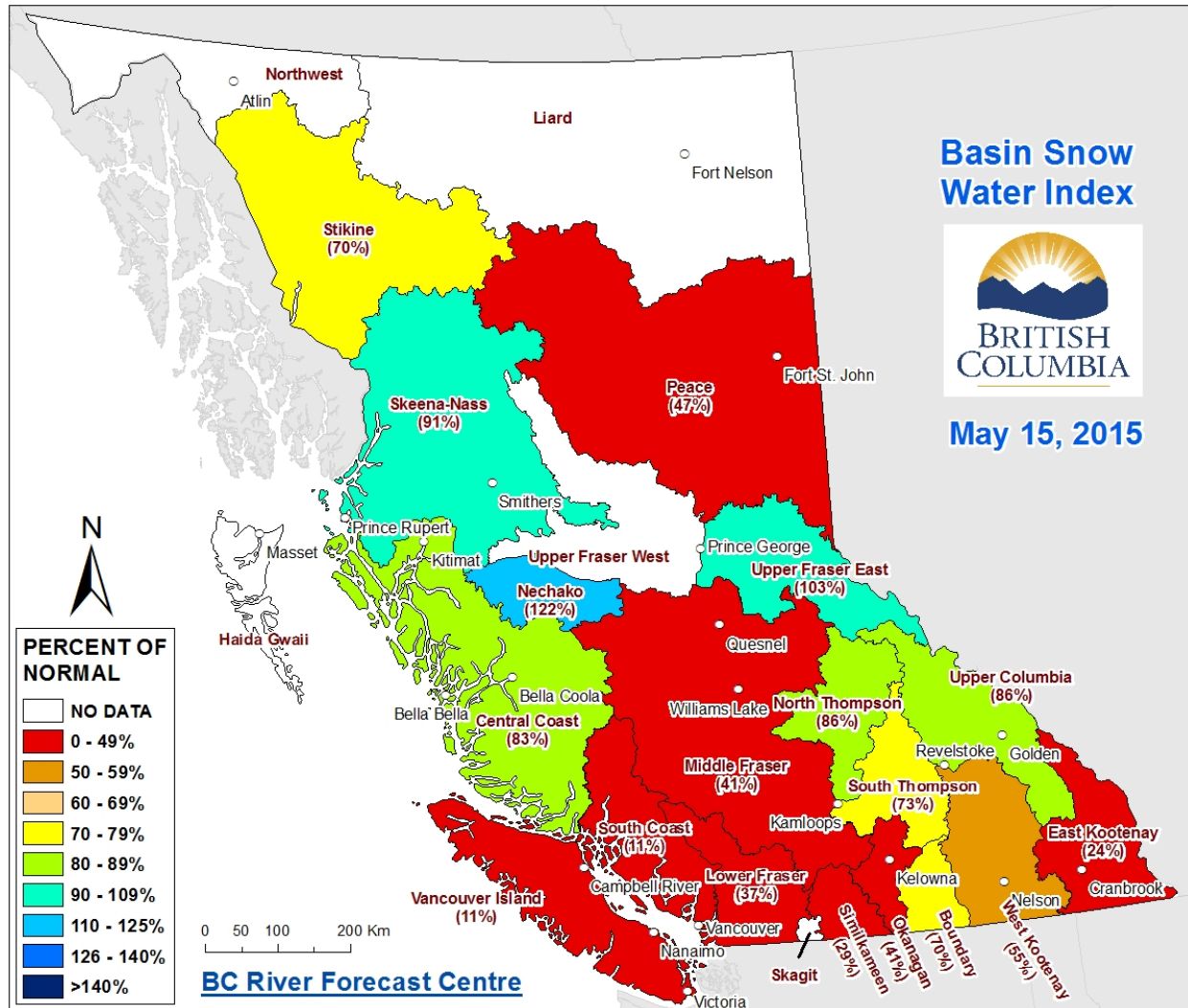


Ministry of
Forests, Lands and
Natural Resources

RIVER FORECAST CENTRE

Snow Survey and Water Supply Bulletin – May 15th, 2015

Figure 1: Basin Snow Water Index Map – May 15th, 2015



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2015 Automated Snow Pillow/Manual Snow Survey Data			May 15th						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	2014-05-15	97	481		92%	586	457	143	833	522	16
1A02P	MC BRIDE (UPPER)	Upper Fraser East	1608	2014-05-15	99	428		106%	536	353	65	656	403	21
1A03P	BARKERVILLE	Upper Fraser East	1483	2014-05-15	0	12		6%	363	136	0	503	213	38
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	NS					NS	NS	292	1219	798	55
1A06A	HANSARD	Upper Fraser East	622	NS					NS	NS	NA	NA	0	0
1A10	PRINCE GEORGE A	Upper Fraser East	684	NS					NS	NS	0	76	5	23
1A11	PACIFIC LAKE	Upper Fraser East	756	NS					NS	NS	0	728	339	35
1A12	KAZA LAKE	Upper Fraser West	1247	NS					NS	NS	212	212	212	1
1A14P	HEDRICK LAKE	Upper Fraser East	1118	2014-05-15	97	338	E	45%	1307	1139	435	1277	754	13
1A15	KNUDSEN LAKE	Upper Fraser East	1598	NS					NS	NS	359	1271	836	34
1A16	BURNS LAKE	Upper Fraser West	820	NS					NS	NS	0	0	0	17
1A17P	REVOLUTION CREEK	Upper Fraser East	1676	2014-05-15	205	785		110%	1247	913	228	1307	716	28
1A19P	DOMA MOUNTAIN	Upper Fraser East	1768	2014-05-15	168	810		98%	1039	859	555	1215	828	7
1A23	BIRD CREEK	Upper Fraser West	1196	NS					NS	NS	0	0	0	1
1B01	MOUNT WELLS	Nechako	1489	NS					NS	NS	164	869	280	3
1B01P	MOUNT WELLS	Nechako	1489	2014-05-15	N/A	696		142%	418	317	171	946	491	21
1B02	TAHTSA LAKE	Nechako	1319	NS					NS	NS	924	1687	924	2
1B02P	TAHTSA LAKE	Nechako	1319	2014-05-15	N/A	1217		95%	818	733	674	2340	1287	21
1B05	SKINS LAKE	Nechako	877	NS					NS	NS	0	0	0	2
1B06	MOUNT SWANNELL	Nechako	1596	NS					NS	NS	0	331	166	2
1B07	NUTLI LAKE	Nechako	1502	NS					NS	NS	197	197	197	1
1B08P	MOUNT PONDOSY	Nechako	1413	2014-05-15	N/A	815		130%	314	264	216	1198	628	21
1C01	BROOKMERE	Middle Fraser	994	NS					NS	NS	0	208	22	28
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	NS					NS	NS	184	965	455	20
1C06	PAVILION	Middle Fraser	1209	NS					NS	NS	0	0	0	6
1C08	NAZKO	Middle Fraser	1029	NS					NS	NS	NA	NA	NA	NA
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	NS					NS	NS	0	30	3	25
1C12P	GREEN MOUNTAIN	Middle Fraser	1766	2014-05-15	N/A	583		73%	536	514	424	1369	803	19
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	NS					NS	NS	655	655	655	1
1C14	BRALORNE	Middle Fraser	1382	NS					NS	NS	0	80	11	20
1C17	MOUNT TIMOTHY	Middle Fraser	1632	NS					NS	NS	0	466	181	42
1C18P	MISSION RIDGE	Middle Fraser	1903	2014-05-15	N/A	124		37%	330	345	0	972	336	43
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	NS					NS	NS	0	157	23	22
1C20P	BOSS MOUNTAIN MINE	Middle Fraser	1477	2014-05-15	40	215		47%	417	368	176	746	455	19
1C21	BIG CREEK	Middle Fraser	1130	NS					NS	NS	NA	NA	NA	NA
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	NS					NS	NS	0	0	NA	2
1C23	PENFOLD CREEK	Middle Fraser	1687	NS					NS	1078	585	1400	1022	44
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	NS					NS	NS	0	67	22	5
1C28	DUFFEY LAKE	Middle Fraser	1253	NS					NS	NS	NA	NA	NA	NA

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1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	NS					NS	NS	NA	NA	NA	NA
1C32	DEADMAN RIVER	Middle Fraser	1463	NS					NS	NS	NA	NA	NA	NA
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	NS					NS	NS	NA	NA	NA	NA
1C37	BRALORNE(UPPER)	Middle Fraser	1980	NS					NS	NS	NA	NA	NA	NA
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	NS					NS	NS	NA	NA	NA	NA
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	NS					NS	NS	NA	NA	NA	NA
1C40	TYAUGHTON CREEK (NORTH)	Middle Fraser	1946	NS					NS	NS	NA	NA	NA	NA
1C41P	YANKS PEAK, EAST	Middle Fraser	1683	2014-05-15	125	750		97%	1183	843	386	1129	774	16
1C42	CAVERHILL LAKE NEW	Middle Fraser	N/A	NS					NS					
1D06P	TENQUILLE LAKE	Lower Fraser	1669	2014-05-15	220	727		75%	692	754	469	1693	973	12
1D08	STAVE LAKE	Lower Fraser	1211	NS					NS	NS	2438	2438	NA	1
1D09	WAHLEACH LAKE	Lower Fraser	1395	NS					NS	NS	102	656	428	10
1D09P	WAHLEACH LAKE	Lower Fraser	1408	2014-05-15	N/A	300		30%	940	1097	310	1793	1001	21
1D10	NAHATLATCH RIVER	Lower Fraser	1530	NS					NS	NS	1202	2423	1467	4
1D16	DICKSON LAKE	Lower Fraser	1147	NS					NS	NS	2070	2070	2070	1
1D17P	CHILLIWACK RIVER	Lower Fraser	1621	2014-05-15	91	529		38%	2200	1777	405	2540	1398	21
1D19P	SPUZZUM CREEK	Lower Fraser	1197	2014-05-15	0	0			1434	1646	49	2900	1533	14
1E01B	BLUE RIVER	North Thompson	673	NS					NS	NS	0	213	N/A	11
1E02P	MOUNT COOK	North Thompson	1574	2014-05-15	198	1096		82%	1328	1353	855	1793	1334	13
1E03A	TROPHY MOUNTAIN	North Thompson	1907	NS					697	637	301	1114	618	32
1E05	KNOUFF LAKE	North Thompson	1189	NS					NS	NS	NA	NA	NA	NA
1E07	ADAMS RIVER	North Thompson	1769	2015-05-19	97	451		65%	785	684	280	1158	690	43
1E08P	AZURE RIVER	North Thompson	1625	2014-05-15	195	1274		111%	1006	1398	746	1684	1152	16
1E10P	KOSTAL LAKE	North Thompson	1760	2014-05-15	163	754		87%	883	922	569	1358	870	28
1F01A	ABERDEEN LAKE	South Thompson	1262	NS					NS	NS	0	28	14	11
1F02	ANGLEMONT	South Thompson	1168	NS					113	NS	0	361	99	20
1F03P	PARK MOUNTAIN	South Thompson	1857	2014-05-15	161	827		89%	1145	1009	315	1358	929	28
1F04	ENDERBY	South Thompson	1948	NS					1247	1183	662	1499	1072	51
1F06P	CELISTA MOUNTAIN	South Thompson	1533	2014-05-15	118	659		78%	1044	1021	420	1163	841	8
2A01A	CANOE RIVER	Upper Columbia	866	NS					NS	NS	0	0	0	5
2A02	GLACIER	Upper Columbia	1249	NS					NS	NS	114	1034	498	47
2A03A	FIELD	Upper Columbia	1310	NS					NS	NS	0	0	0	3
2A06P	MOUNT REVELSTOKE	Upper Columbia	1770	2014-05-15	N/A	968		78%	1177	1312	700	1777	1235	20
2A07	KICKING HORSE	Upper Columbia	1648	NS					NS	NS	0	521	229	47
2A11	BEAVERFOOT	Upper Columbia	1924	NS					NS	NS	0	399	146	4
2A14	MOUNT ABBOT	Upper Columbia	2031	NS					NS	NS	837	1944	1319	37
2A16	GOLDSTREAM	Upper Columbia	1914	NS					NS	NS	1055	1055	1055	1
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	NS					NS	NS	837	1950	1271	33
2A18	KEYSTONE CREEK	Upper Columbia	1839	NS					NS	NS	683	683	683	1

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2A19	VERMONT CREEK	Upper Columbia	1533	NS					NS	NS	225	813	225	2
2A21P	MOLSON CREEK	Upper Columbia	1930	2014-05-15	N/A	1009		93%	1091	1167	602	1707	1085	32
2A22	SUNBEAM LAKE	Upper Columbia	2066	NS					NS	NS	863	863	863	1
2A23	BUSH RIVER	Upper Columbia	1982	NS					NS	NS	766	766	766	1
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	NS					NS	NS	1130	1257	1194	2
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	NS					NS	NS	0	522	297	9
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	NS					NS	NS	582	1425	1284	9
2B02A	FARRON	West Kootenay	1229	2015-05-13	0	0			25	0	0	222	63	34
2B05	WHATSHAN (UPPER)	West Kootenay	1476	NS					NS	NS	164	737	164	3
2B06	BARNES CREEK	West Kootenay	1598	NS					NS	NS	260	594	260	3
2B06P	BARNES CREEK	West Kootenay	1595	2014-05-15	N/A	321		73%	630	494	98	758	438	20
2B07	KOCH CREEK	West Kootenay	1813	NS					NS	NS	675	1148	675	2
2B08	ST. LEON CREEK	West Kootenay	1828	NS					NS	NS	1218	1218	1218	1
2B08P	ST. LEON CREEK	West Kootenay	1822	2014-05-15	N/A	879		88%	1292	1130	639	1568	1004	20
2B09	RECORD MOUNTAIN	West Kootenay	1906	2015-05-17	23	114		18%	550	366	83	1367	645	39
2C01	SINCLAIR PASS	East Kootenay	1374	NS					NS	NS	0	107	0	22
2C04	SULLIVAN MINE	East Kootenay	1580	2015-05-15	0	0	T		248	0	0	457	80	62
2C07	FERNIE EAST	East Kootenay	1213	2015-05-15	0	0			62	0	0	298	34	52
2C09Q	MORRISSEY RIDGE	East Kootenay	1966	2014-05-15	N/A	95		20%	1079	93	0	1102	484	33
2C10P	MOYIE MOUNTAIN	East Kootenay	1840	2014-05-15	2	0			458	0	0	678	225	34
2C11	KIMBERLEY (UPPER) VOR	East Kootenay	2148	NS					NS	NS	570	570	N/A	1
2C12	KIMBERLEY (MIDDLE) VOR	East Kootenay	1692	NS					NS	NS	44	44	N/A	1
2C14	FLOE LAKE	East Kootenay	2087	NS					NS	NS	733	733	733	1
2C14P	FLOE LAKE	East Kootenay	2110	2014-05-15	N/A	588		78%	923	731	304	1101	752	20
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	NS					NS	NS	534	534	534	1
2C16	MOUNT JOFFRE	East Kootenay	1763	NS					NS	NS	338	338	338	1
2C17	THUNDER CREEK	East Kootenay	2062	NS					NS	NS	220	220	220	1
2C20	VERMILLION RIVER NO. 3	East Kootenay	1612	NS					NS	NS	0	381	N/A	7
2D02	FERGUSON	West Kootenay	929	NS					NS	NS	20	640	302	36
2D03	SANDON	West Kootenay	1072	NS					NS	NS	0	218	N/A	8
2D04	NELSON	West Kootenay	952	NS					NS	NS	0	243	46	41
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	NS					NS	NS	0	709	330	49
2D06	CHAR CREEK	West Kootenay	1290	2015-05-15	0	0			378	212	NA	NA	272	
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS					NS	NS	NA	NA	NA	NA
2D08P	EAST CREEK	West Kootenay	2004	2014-05-15	N/A	865		99%	952	533	461	1387	874	32
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	NS					NS	NS	978	978	978	1
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	NS					NS	NS	311	1194	709	30
2D14P	REDFISH CREEK	West Kootenay	2086	2014-05-15	238	1374		105%	1497	1352	1024	1771	1309	11
2E01	MONASHEE PASS	Boundary	1387	NS					NS	NS	0	363	206	27

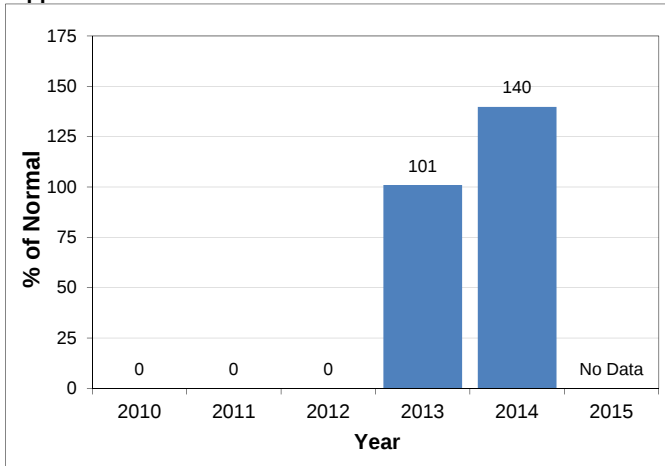
2015 Automated Snow Pillow/Manual Snow Survey Data			May 15th						Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
2E02	CARMI	Boundary	1254	NS					NS	NS	0	0	N/A	14
2E03	BIG WHITE MOUNTAIN	Boundary	1672	NS					421	297	0	732	366	48
2E06	BLUEJOINT MOUNTAIN	Boundary	1990	NS					NS	NS	NA	NA	NA	NA
2E07P	GRANO CREEK	Boundary	1874	2014-05-15	63	333		64%	582	553	290	881	520	15
2F01A	TROUT CREEK (WEST)	Okanagan	1430	2015-05-12	0	0	T		60	0	0	243	58	4
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	2015-05-15	0	0			NS	0	0	218	13	48
2F03	MC CULLOCH	Okanagan	1266	NS					NS	NS	0	102	0	37
2F04	GRAYSTOKE LAKE	Okanagan	1818	NS					NS	NS	0	742	360	17
2F05P	MISSION CREEK	Okanagan	1794	2014-05-15	66	293		76%	679	469	0	829	386	43
2F07	POSTILL LAKE	Okanagan	1358	NS					NS	NS	71	180	143	7
2F08	GRAYBACK RESERVOIR	Okanagan	1548	2015-05-11	15	55		70%	225	0	0	323	79	43
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2015-05-13	36	167		47%	375	439	0	968	357	43
2F10	SILVER STAR MOUNTAIN	Okanagan	1834	2015-05-13	110	424		64%	810	724	100	1054	665	55
2F11	ISINTOK LAKE	Okanagan	1651	2015-05-15	0	0			0	0	0	386	46	48
2F12	MOUNT KOBAU	Okanagan	1817	2015-05-14	17	74		29%	163	379	0	516	253	47
2F13	ESPERON CR (UPPER)	Okanagan	1634	2015-05-10	38	174		57%	NS	310	66	625	306	10
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	2015-05-10	16	62		38%	NS	128	0	380	164	12
2F18P	BRENDA MINE	Okanagan	1453	2014-05-15	N/A	0			0	10	0	208	20	20
2F19	OYAMA LAKE	Okanagan	1365	NS					NS	NS	97	97	N/A	1
2F20	VASEUX CREEK	Okanagan	1403	2015-05-14	0	0			0	NS	0	80	7	40
2F21	BOULEAU LAKE	Okanagan	1405	NS					NS	NS	173	328	328	3
2F23	MACDONALD LAKE	Okanagan	1742	2015-05-15	40	180		54%	NS	NS	0	652	334	19
2F24	ISLAHT LAKE	Okanagan	1492	NS					115	0	0	352	221	6
2F25	POSTILL LAKE (UPPER)	Okanagan	1500	NS					NS	NS	N/A	N/A	N/A	N/A
2G03P	BLACKWALL PEAK	Similkameen	1934	2014-05-15	102	469		70%	844	571	208	1481	671	45
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	2015-05-14	34	126		75%	285	92	0	577	169	47
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	2015-05-14	0	0			138	0	0	218	32	50
2G06	HAMILTON HILL	Similkameen	1477	2015-05-20	0	0			NS	0	0	434	110	35
3A01	GROUSE MOUNTAIN	South Coast	1126	NS					NS	NS	528	1714	N/A	3
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS					NS	NS	816	816	816	1
3A05	POWELL RIVER (LOWER)	South Coast	882	NS					NS	NS	378	378	378	1
3A09	PALISADE LAKE	South Coast	898	NS					NS	NS	336	3600	1968	4
3A10	DOG MOUNTAIN	South Coast	1007	2014-05-20	0	0			NS	1180	0	2920	1041	27
3A19	ORCHID LAKE	South Coast	1178	2014-05-20	0	0			NS	NS	774	3730	1729	30
3A20	CALLAGHAN CREEK	South Coast	1009	NS					NS	NS	55	1311	444	16
3A22P	NOSTETUKO RIVER	South Coast	1457	2014-05-15	0	0			229	164	19	939	355	24
3A24P	UPPER MOSLEY CREEK	South Coast	1655	2014-05-15	14	98		66%	135	0	0	467	149	24
3A25P	SQUAMISH RIVER (UPPER)	South Coast	1387	2014-05-15	14	474		32%	984	1582	709	2980	1486	23
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	NS					NS	NS	345	2631	1576	27

2015 Automated Snow Pillow/Manual Snow Survey Data				May 15th					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
3B02A	MT. COKELY	Vancouver Island	1267	NS					NS	NS	NA	NA	NA	NA
3B04	ELK RIVER	Vancouver Island	270	NS					NS	NS	NA	NA	NA	NA
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	NS					NS	NS	1364	2697	1731	7
3B13	HEATHER MOUNTAIN	Vancouver Island	1170	NS					NS	NS	1519	1519	N/A	1
3B17P	WOLF RIVER	Vancouver Island	1422	2014-05-15	N/A	137		11%	681	860	213	2719	1229	31
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	NS					NS	NS	0	1148	481	13
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	NS					NS	NS	0	549	78	13
3B23P	JUMP CREEK	Vancouver Island	1134	2014-05-15	N/A	0			440	544	0	3500	1097	17
3B24	HEATHER MOUNTAIN UPPER	Vancouver Island	N/A	NS					NS	NS	NA	NA	NA	NA
3C07	WEDEENE RIVER SOUTH	Central Coast	196	NS					NS	NS	232	232	232	1
3C08P	BURNT BRIDGE CREEK	Central Coast	1329	2014-05-15	83	526		83%	586	418	184	1438	634	15
3D01C	SUMALLO RIVER WEST	Skagit	801	NS					NS	NS	NA	NA	NA	NA
3D02	LIGHTNING LAKE	Skagit	1254	NS					NS	NS	544	544	NA	1
3D03A	KLESILKWA	Skagit	1134	NS					NS	NS	0	490	11	4
4A02	PINE PASS	Peace	1439	NS					NS	NS	408	1570	1242	25
4A02P	PINE PASS	Peace	1386	2014-05-15	186	923		92%	1030	941	813	1654	999	24
4A03	WARE (UPPER)	Peace	1563	NS					NS	NS	114	114	114	1
4A04	WARE (LOWER)	Peace	969	NS					NS	NS	0	0	0	1
4A05	GERMANSEN (UPPER)	Peace	1489	NS					NS	NS	272	414	272	4
4A06	TUTIZZI LAKE	Peace	1043	NS					NS	NS	0	0	0	1
4A07	LADY LAURIER LAKE	Peace		NS					NS	NS	420	420	420	1
4A09	PULPIT LAKE	Peace	1331	NS					NS	NS	230	293	262	2
4A09P	PULPIT LAKE	Peace	1331	2014-05-15	64	188		70%	256	288	14	562	267	23
4A10	FREDRICKSON LAKE	Peace	1323	NS					NS	NS	74	74	74	1
4A11	TRYGVE LAKE	Peace	1409	NS					NS	NS	269	269	269	1
4A12	TSAYDAYCHI LAKE	Peace	1173	NS					NS	NS	302	302	302	1
4A13	PHILIP LAKE	Peace	1013	NS					NS	NS	128	128	128	1
4A16	MORFEE MOUNTAIN	Peace	1427	NS					NS	NS	343	1072	535	10
4A18	MOUNT SHEBA	Peace	1480	NS					NS	NS	340	1179	794	9
4A20	MONKMAN CREEK	Peace	1566	NS					NS	NS	0	912	478	8
4A21	MOUNT STEARNS	Peace	1514	NS					NS	NS	45	45	45	1
4A25	FORT ST. JOHN AIRPORT	Peace	692	NS					NS	NS	0	0	N/A	4
4A27P	KWADACHA RIVER	Peace	1695	2014-05-15	58	4		1%	67	266	90	468	334	16
4A30P	AIKEN LAKE	Peace	1061	2014-05-15	N/A	3		5%	68	4	0	206	55	28
4B01	KIDPRICE LAKE	Skeena-Nass	1415	NS					NS	NS	534	1278	534	2
4B02	JOHANSON LAKE	Skeena-Nass	1480	NS					NS	NS	178	178	178	1
4B03A	HUDSON BAY MTN	Skeena-Nass	1452	2015-05-15	82	384		91%	381	274	160	822	424	41
4B04	CHAPMAN LAKE	Skeena-Nass	1485	2015-05-15	76	344		75%	NS	NS	238	689	461	6
4B06	TACHEK CREEK	Skeena-Nass	1133	NS					NS	NS	18	152	N/A	4

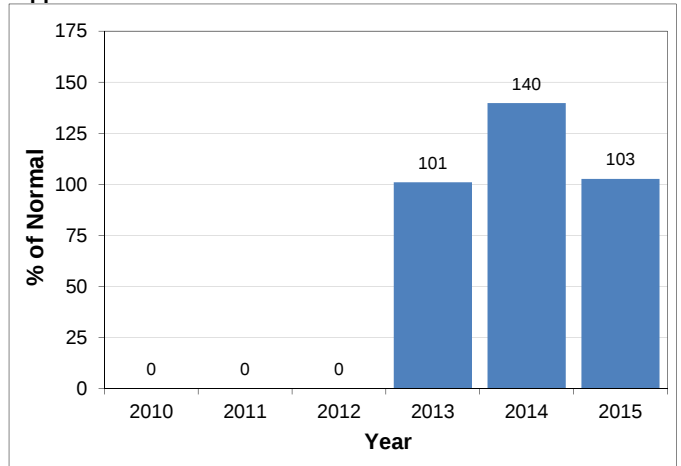
2015 Automated Snow Pillow/Manual Snow Survey Data				May 15th					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	SD (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	2015-05-15	0	0	T		NS	NS	0	320	127	20
4B08	MOUNT CRONIN	Skeena-Nass	1491	2015-05-15	124	538		82%	NS	NS	481	927	660	12
4B10	NINGUNSAW PASS	Skeena-Nass	647	NS					NS	NS	0	208	27	14
4B11A	BEAR PASS	Skeena-Nass	437	NS					NS	NS	80	488	290	8
4B13A	TERRACE AIRPORT	Skeena-Nass	219	NS					992	NS	0	0	0	1
4B14	EQUITY MINE	Skeena-Nass	1434	NS					NS	NS	0	396	274	12
4B15	LU LAKE	Skeena-Nass	1296	NS					NS	NS	0	330	191	13
4B15P	LU LAKE	Skeena-Nass	1308	2014-05-15	37	248		172%		42	0	489	144	15
4B16P	SHEDIN CREEK	Skeena-Nass	1320	2014-05-15	122	593		63%	85	768	574	1280	940	17
4B17P	TSAI CREEK	Skeena-Nass	1369	2014-05-15	194	1332		104%	498	981	810	2135	1275	15
4B18P	CEDAR - KITEEN	Skeena-Nass	912	2014-05-15	0	12		3%	950	245	29	968	422	12
4C01	SIKANNI LAKE	Liard	1390	NS					429	NS	130	130	130	1
4C02	SUMMIT LAKE	Liard	1291	NS					NS	NS	0	160	42	7
4C03	DEASE LAKE	Liard	805	NS					NS	NS	0	0	N/A	6
4C05	FORT NELSON A	Liard	368	NS					NS	NS	0	16	1	13
4C15	JADE CITY	Liard	943	NS					NS	NS	162	162	162	1
4D01	TELEGRAPH CREEK	Stikine	490	NS					NS	NS	0	0	0	1
4D02	ISKUT	Stikine	931	NS					NS	NS	0	0	0	15
4D11P	KINASKAN LAKE	Stikine	1020	2014-05-15	39	119		57%						
4E02B	ATLIN LAKE	Northwest		NS					NS	NS	N/A	N/A	N/A	N/A
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 15, 2015

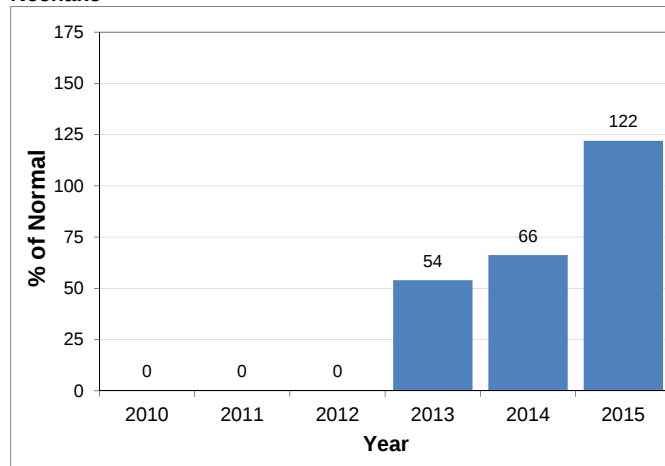
Upper Fraser West



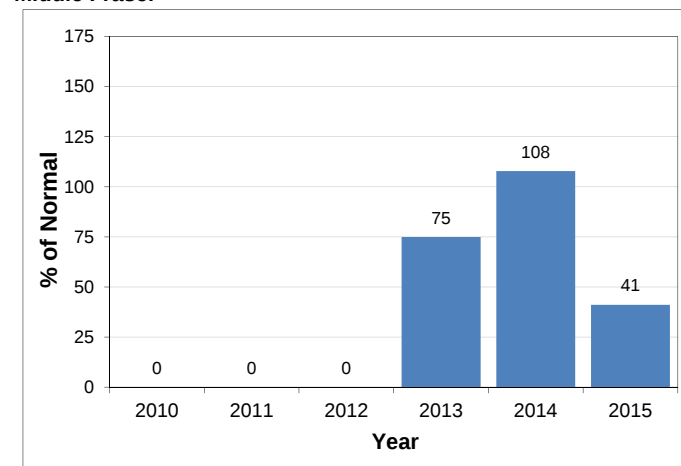
Upper Fraser East



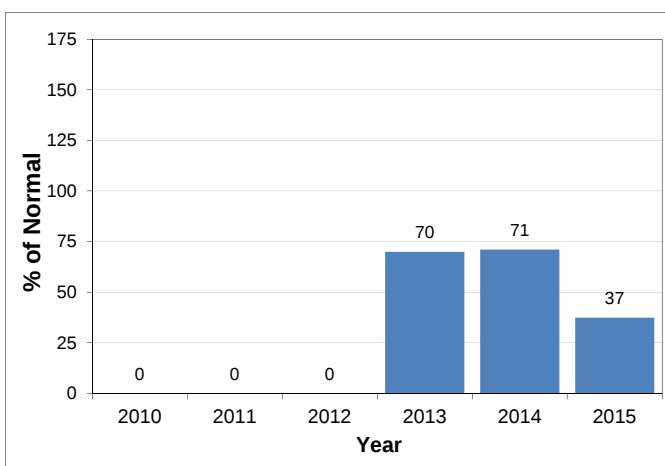
Nechako



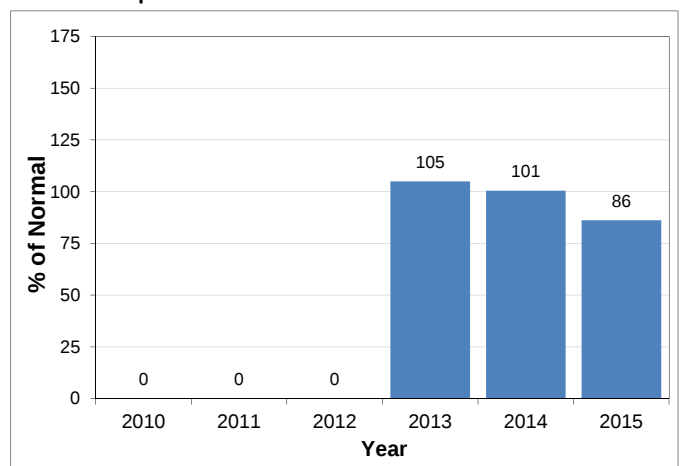
Middle Fraser



Lower Fraser

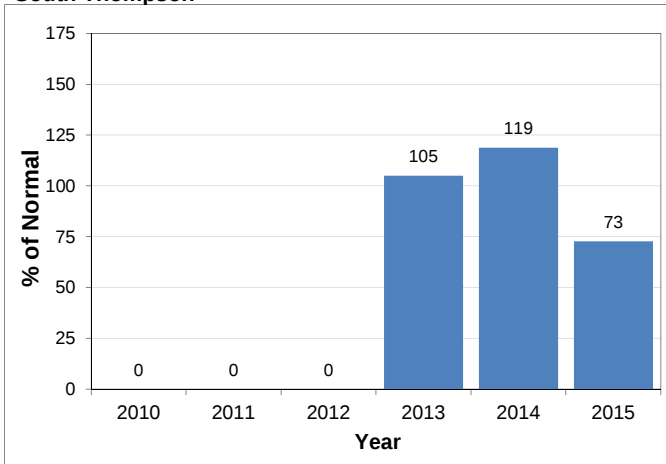


North Thompson

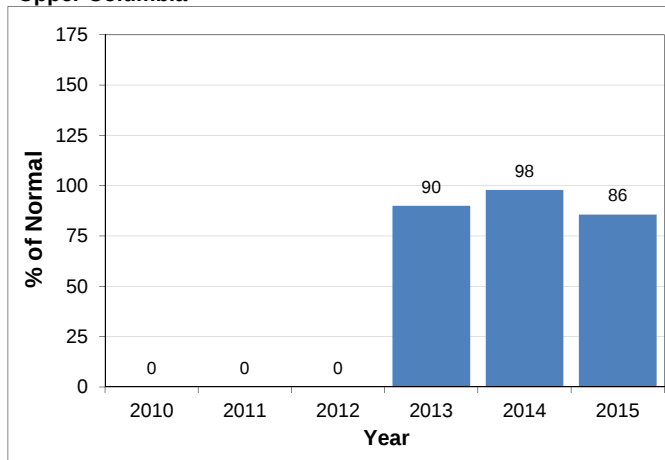


Snow Basin Index Graphs - May 15, 2015

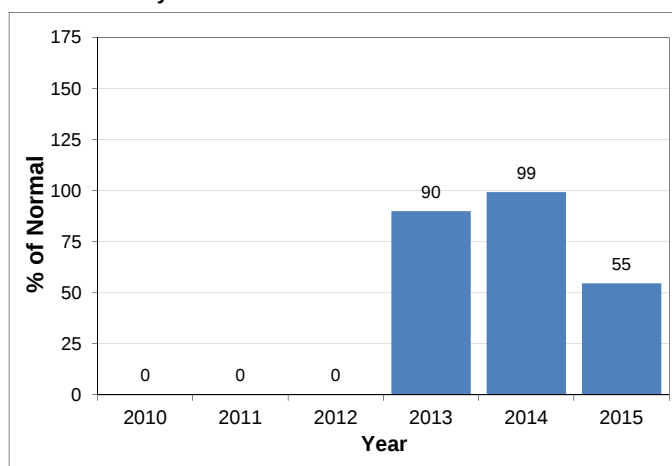
South Thompson



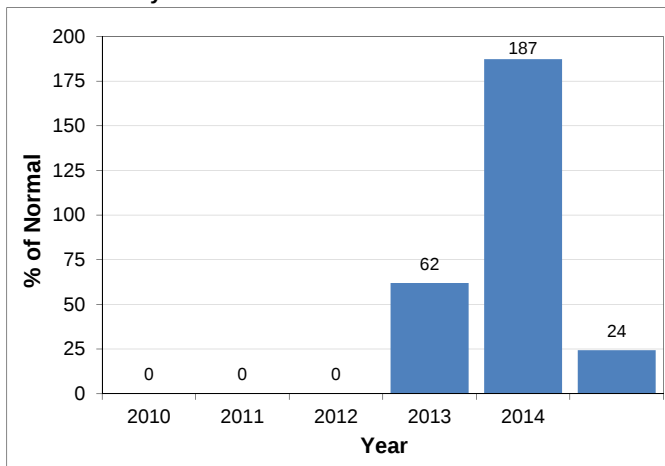
Upper Columbia



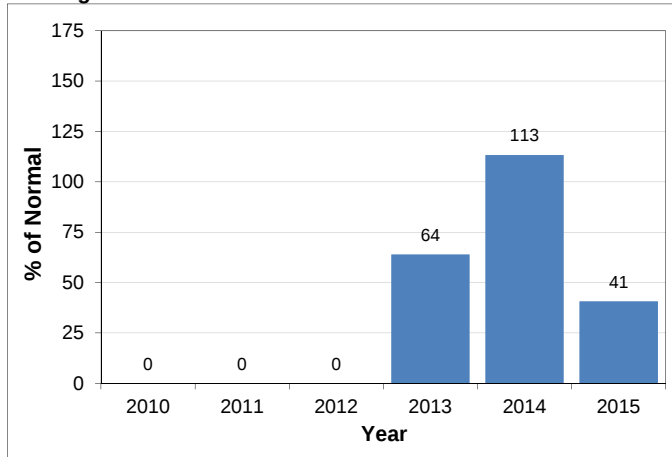
West Kootenay



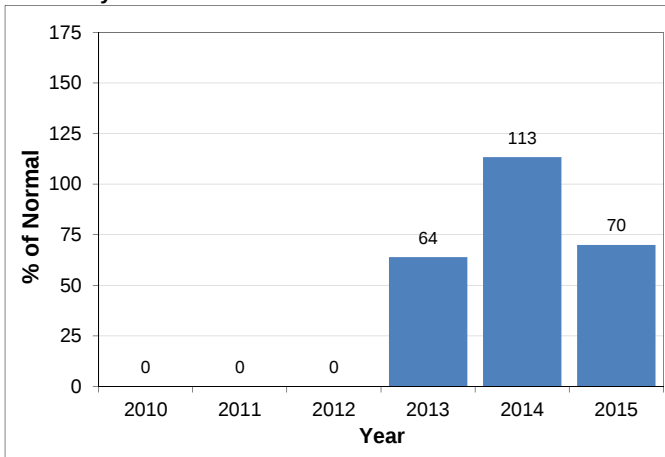
East Kootenay



Okanagan

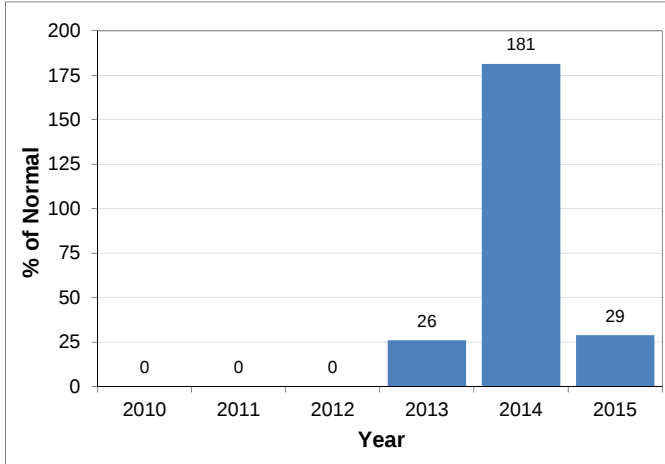


Boundary

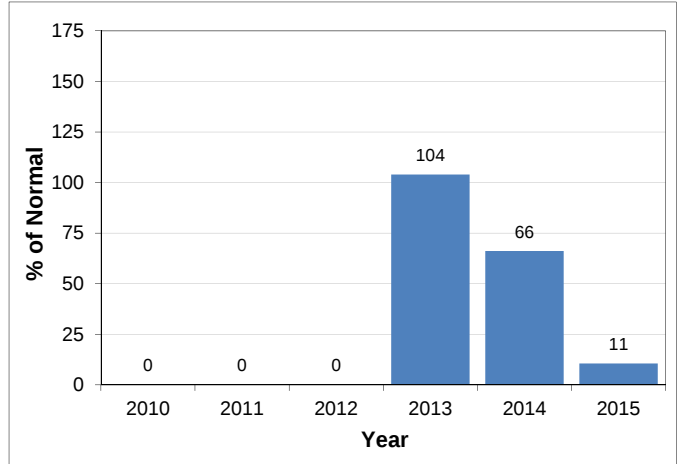


Snow Basin Index Graphs - May 15, 2015

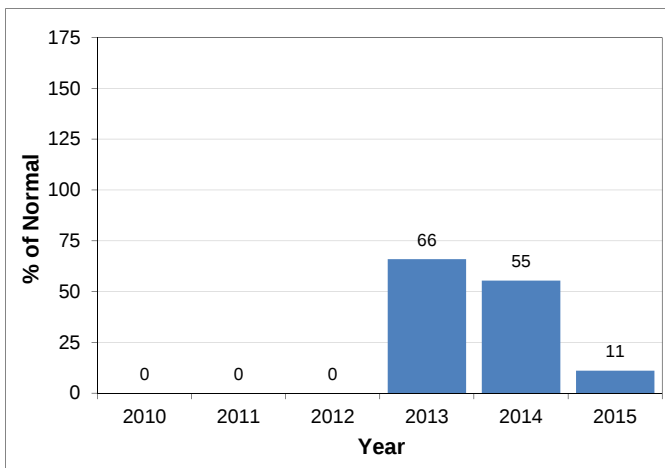
Similkameen



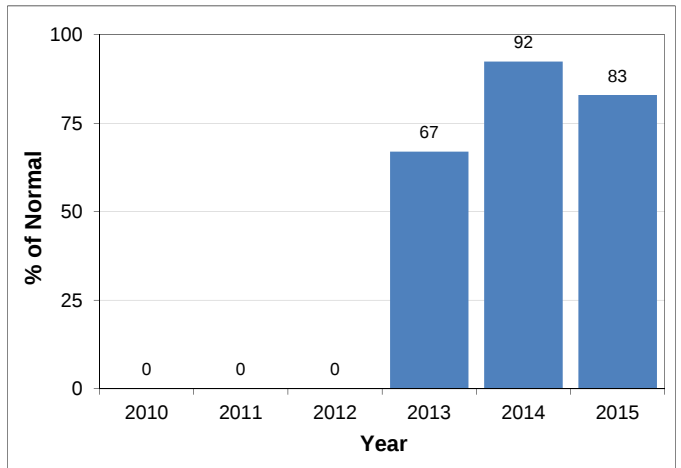
South Coast



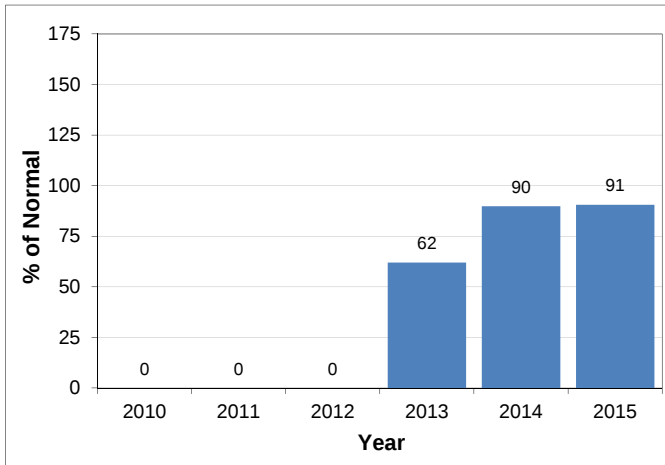
Vancouver Island



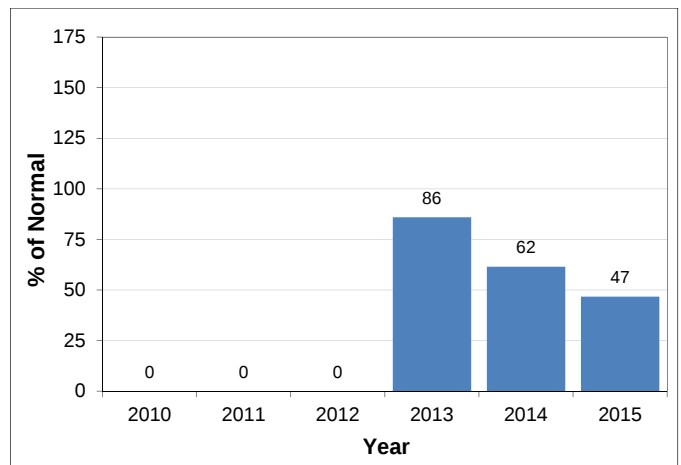
Central Coast



Skeena-Nass

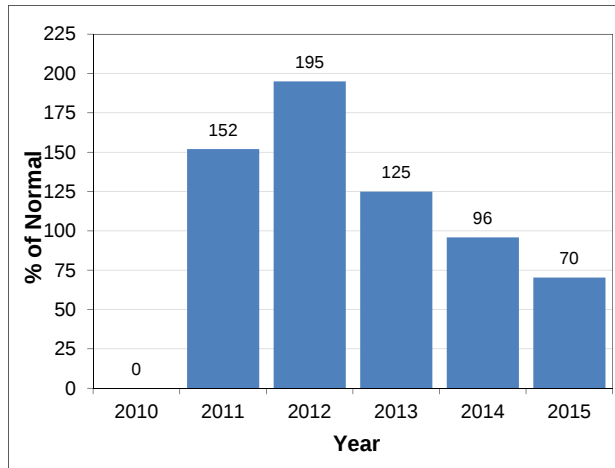


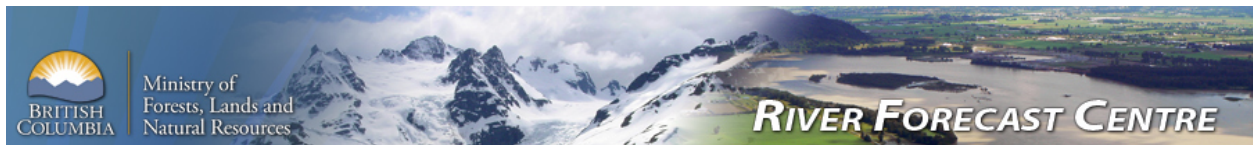
Peace



Snow Basin Index Graphs - May 15, 2015

Stikine





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

The June 1st snow survey is now complete. Data from 24 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 report¹.

Weather

May has been a warm month across the province, with temperatures typically 1-2°C warmer than normal in the south half of the province, and 2-4°C warmer than normal in the north. Conditions were drier than normal across most of the province. Precipitation was largely in the form of convective rainfall and thundershowers. This included episodes of intense, short-duration rainfall (such as in Cache Creek), but organized, persistent wet patterns were lacking through the month.

Snow Pack

Warm weather through May has led to rapid melt of the province's snow pack.

Approximately half of the province's automated snow pillows are reading no or trace amounts of snow as of June 4th. With warm temperatures, melt at the remaining snow pillows has been in the order of 25-50 mm/day.

June 1st snow basin indices have declined significantly through most of the province since May 15th. Snow basin indices range from 0% in Okanagan, South Coast, Central Coast and Stikine, to a high of 82% in the Nechako (Figure 1).

Caution should be used when interpreting the extremely low June 1st snow basin indices; low values this season reflect a much earlier melt of the seasonal snow pack than in normal years. April 1st snow basin values still represent the best picture of this season's overall snow accumulation. Early seasonal melt has meant that the snowmelt runoff that contributes to river flow, reservoir and lake filling, and soil moisture and groundwater recharge has occurred much earlier than usual this year.

As of June 1st, limited snow is present throughout British Columbia, excepting mountainous high elevation regions, such as the Coast Mountains, Columbia Mountain and Rocky Mountains. Conditions in those regions are more similar to what might be experienced later in the summer in a typical year.

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 – June 1st, 2015

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

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	NO DATA*	Boundary	1
Upper Fraser East	46	Similkameen	25
Nechako	82	South Coast	0 [!]
Middle Fraser	6	Vancouver Island	3
Lower Fraser	9	Central Coast	0 [!]
North Thompson	57	Skagit	NO DATA*
South Thompson	35	Peace	27
Upper Columbia	57	Skeena-Nass	43
West Kootenay	30	Stikine	0 [!]
East Kootenay	10	Liard	NO DATA*
Okanagan	0 [!]	Northwest	NO DATA*

* Data is not available either because there were no scheduled snow surveys or no snow surveys were completed.

! Zero values are the result of no snow being observed at snow basin index survey locations. Snow may still be present at higher, unsampled, locations

Streamflow Runoff

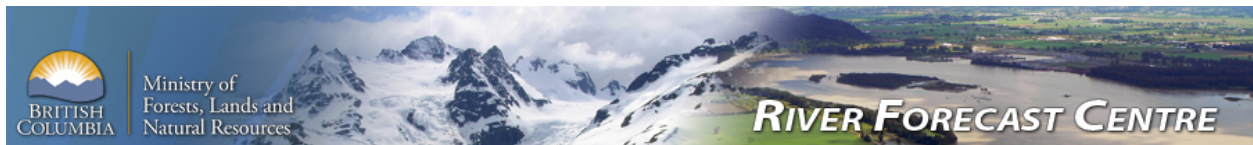
With earlier than normal melt of the snow pack across the province, spring runoff has also occurred earlier. In the larger rivers of the province, the peak of the melt season generally occurs when 30-40% of the volume of April to September runoff has occurred. As of early June, the larger rivers of the province including the Fraser, North Thompson, and Skeena have seen 45-55% of their forecasted April to September flow pass.

Streamflows remain high in areas that had higher snow packs earlier this season, including the Nechako River.

With the early depletion of snow packs, many rivers have seen declining river levels, with below normal flows for this time of year now being observed. This is particularly the case for rivers with watersheds that drain mid-elevation terrain where snow melted earliest. Lower than normal flows are present through areas of northern BC, Peace, and southern BC. On the South Coast, Vancouver Island and Haida Gwaii, most rivers are extremely low, with conditions that are near or at record minimums for this time of year.

Outlook

Short-term weather forecasts indicate a continued warm spell across the province, particularly for southern BC. Long-term weather forecasts from Environment Canada continue to indicate a high likelihood of above-normal temperatures across the province through the summer. Warm sea surface temperature anomalies in the North Pacific Ocean, and building El Niño conditions along the equatorial Pacific reinforce the high likelihood of a warmer than normal summer.



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

With much of this season's snow melt past, flood risk is waning across the province. For most regions of the province, including the Fraser River (from upstream of Prince George through to the Lower Mainland), flood risk due to snow melt alone is now limited and rivers have reached their peak levels for the year. In basins with higher elevation terrain or large lake influences, including the Stuart River and South Thompson River, peak river levels are expected over the next 1-3 weeks. While snow melt driven freshet flooding is now over for most of the province, flooding from extreme rainfall remains a possibility.

With the emergence of low flow patterns already this season, and the forecast for a warmer than normal summer, there is a risk of extreme low flows this summer, particularly in southern BC, Vancouver Island, and Haida Gwaii. Summer rainfall, however, can contribute significantly to streamflow and will be a factor in the extent of low flows throughout the remainder of the summer.

The River Forecast Centre will continue to monitor snow pack conditions and streamflow across the province and provide flood and low streamflow advisories as needed.

The last Snow Survey and Water Supply Bulletin for the year is scheduled for release on Monday, June 22nd.

BC River Forecast Centre
June 8, 2015

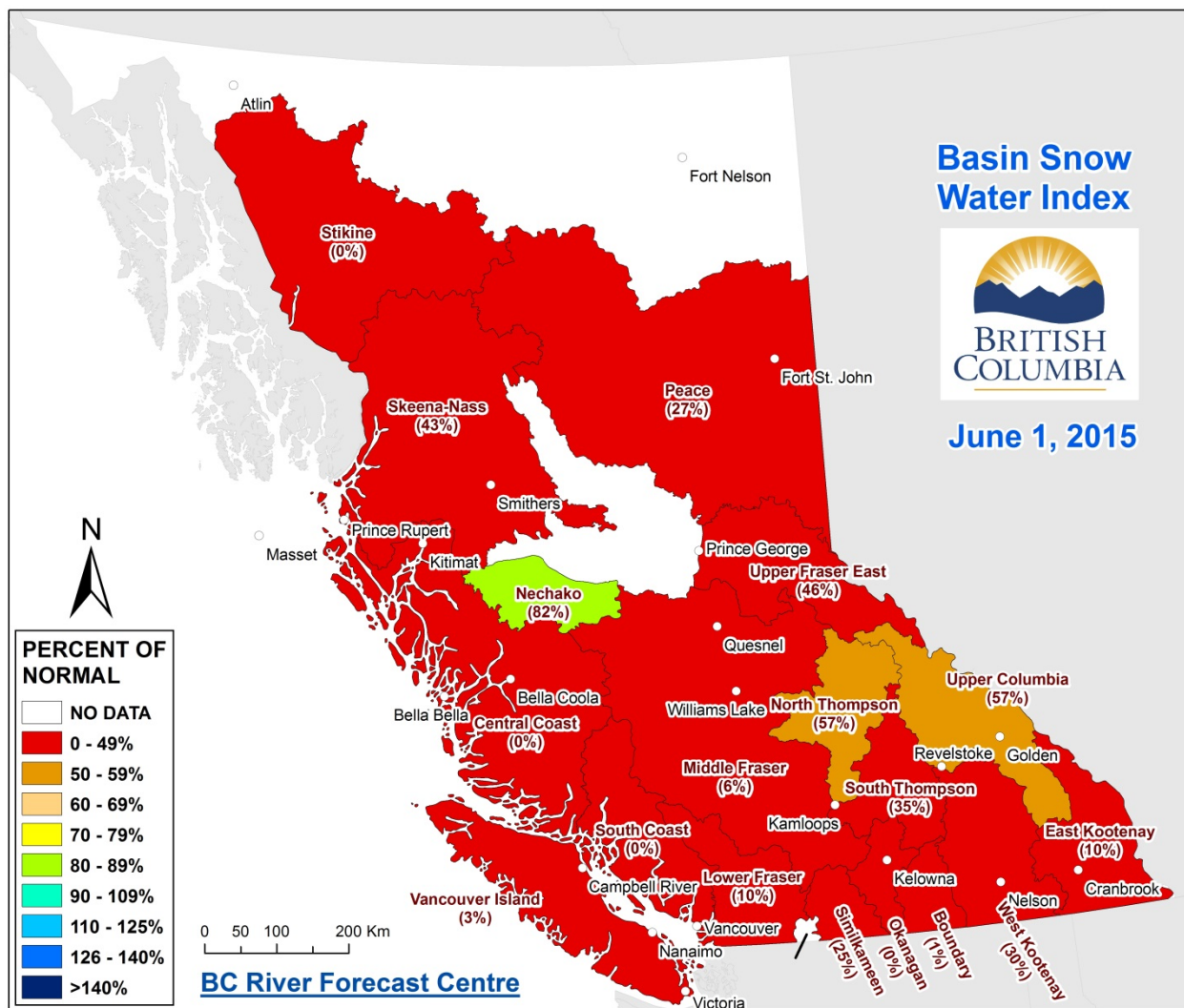


Ministry of
Forests, Lands and
Natural Resources

RIVER FORECAST CENTRE

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

Figure 1: Basin Snow Water Index Map – June 1st, 2015. Caution should be used when interpreting the extremely low June 1st snow basin indices; low values this season reflect a much earlier melt of the seasonal snow pack than in normal years.



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.

2015 Automated Snow Pillow/Manual Snow Survey Data				June 1st				Historic Snow Water Equivalent (mm)						
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	Snow Depth (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	2015-06-01	8	79		22%	366	236	0	857	354	16
1A02P	MC BRIDE (UPPER)	Upper Fraser East	1608	2015-06-01	2	47		31%	268	114	11	412	155	21
1A03P	BARKERVILLE	Upper Fraser East	1483	2015-06-01	2	1		2%	63	1	0	291	46	38
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	NS					910	NS	0	1194	613	51
1A06A	HANSARD	Upper Fraser East	622	NS						NS	NS	NS	0	
1A10	PRINCE GEORGE A	Upper Fraser East	684	NS						NS	NS	NS	0	
1A11	PACIFIC LAKE	Upper Fraser East	756	NS						NS	NS	NS	96	
1A12	KAZA LAKE	Upper Fraser West	1247	NS						NS	NS	NS	0	
1A14P	HEDRICK LAKE	Upper Fraser East	1118	2015-06-01	0	8		2%	936	949	0	1038	365	13
1A15	KNUDSEN LAKE	Upper Fraser East	1598	NS					668	NS	0	1113	652	33
1A16	BURNS LAKE	Upper Fraser West	820	NS						NS	NS	NS	0	
1A17P	REVOLUTION CREEK	Upper Fraser East	1676	2015-06-01	116	405		85%	948	725	0	1127	478	28
1A19P	DOME MOUNTAIN	Upper Fraser East	1768	2015-06-01	83	449		70%	823	655	255	1080	639	7
1A23	BIRD CREEK	Upper Fraser West	1196	2015-05-30	0	0			0	0	0	0	0	18
1B01	MOUNT WELLS	Nechako	1489	2015-05-30	40	201		93%	0	95	0	529	217	33
1B01P	MOUNT WELLS	Nechako	1489	2015-06-01	N/A	266		115%	14	75	0	716	231	21
1B02	TAHTSA LAKE	Nechako	1319	2015-05-30	166	845		86%	463	623	406	1829	982	35
1B02P	TAHTSA LAKE	Nechako	1319	2015-06-01	N/A	736		74%	427	395	277	2157	992	21
1B05	SKINS LAKE	Nechako	877	2015-05-30	0	0			0	0	0	0	0	20
1B06	MOUNT SWANNELL	Nechako	1596	2015-05-30	0	0		0%	0	58	0	350	110	24
1B07	NUTLI LAKE	Nechako	1502	2015-05-30	0	0		0%	0	0	0	618	241	21
1B08P	MOUNT PONDOSY	Nechako	1413	2015-06-01	N/A	253		79%	8	8	0	951	320	21
1C01	BROOKMERE	Middle Fraser	994	NS						NS	NS	NS	0	
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	NS						NS	NS	NS	264	
1C06	PAVILION	Middle Fraser	1209	NS						NS	NS	NS	0	
1C08	NAZKO	Middle Fraser	1029	NS						NS	NS	NS	0	
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	NS						NS	NS	NS	0	
1C12P	GREEN MOUNTAIN	Middle Fraser	1766	2015-06-01	N/A	148		28%	274	328	140	1186	537	19
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	NS						NS	NS	NS	0	
1C14	BRALORNE	Middle Fraser	1382	NS						NS	NS	NS	0	
1C17	MOUNT TIMOTHY	Middle Fraser	1632	2015-05-28	0	0		0%	0	0	0	332	52	41
1C18P	MISSION RIDGE	Middle Fraser	1903	2015-06-01	N/A	0		0%	0	77	0	709	98	43
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	NS						NS	NS	NS	0	
1C20P	BOSS MOUNTAIN MINE	Middle Fraser	1477	2015-06-01	0	0		0%	68	71	0	401	126	19
1C21	BIG CREEK	Middle Fraser	1130	NS						NS	NS	NS	0	
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	NS						NS	NS	NS	0	
1C23	PENFOLD CREEK	Middle Fraser	1687	NS					834	810	353	1354	841	42
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	NS						NS	NS	NS	0	
1C28	DUFFEY LAKE	Middle Fraser	1253	NS						NS	NS	NS	0	
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	NS						NS	NS	NS	0	
1C32	DEADMAN RIVER	Middle Fraser	1463	NS						NS	NS	NS	0	
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	NS						NS	NS	NS	0	
1C37	BRALORNE(UPPER)	Middle Fraser	1980	NS						NS	NS	NS	0	
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	NS						NS	NS	NS	0	
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	NS						NS	NS	NS	0	
1C40	TYAUGHTON CREEK (NORTH)	Middle Fraser	1946	NS						NS	NS	NS	0	
1C41P	YANKS PEAK, EAST	Middle Fraser	1683	2015-06-01	38	285		60%	877	534	128	979	475	16
1C42	CAVERHILL LAKE NEW	Middle Fraser	N/A	NS						NS	NS	NS	0	
1D06P	TENQUILLE LAKE	Lower Fraser	1669	2015-06-01	221	204		28%	408	530	225	1414	719	12
1D08	STAVE LAKE	Lower Fraser	1211	NS						NS	NS	NS	1872	
1D09	WAHLEACH LAKE	Lower Fraser	1395	NS						NS	NS	NS	266	
1D09P	WAHLEACH LAKE	Lower Fraser	1408	2015-06-01	N/A	11		2%	810	928	0	1525	720	21
1D10	NAHATLATCH RIVER	Lower Fraser	1530	NS						NS	NS	NS	1497	
1D16	DICKSON LAKE	Lower Fraser	1147	NS						NS	NS	NS	0	
1D17P	CHILLIWACK RIVER	Lower Fraser	1621	2015-06-01	0	0		0%	1873	1628	0	2186	1082	21
1D19P	SPUZZUM CREEK	Lower Fraser	1197	2015-06-01	3	0		0%	1084	1248	0	2650	1248	14
1E01B	BLUE RIVER	North Thompson	673	NS						NS	NS	NS	0	
1E02P	MOUNT COOK	North Thompson	1574	2015-06-01	95	670		63%	1092	1180	593	1579	1071	13
1E03A	TROPHY MOUNTAIN	North Thompson	1907	NS						NS	NS	NS	0	
1E05	KNOUFF LAKE	North Thompson	1189	NS						NS	NS	NS	0	
1E07	ADAMS RIVER	North Thompson	1769	2015-05-29	44	220		41%	548	473	0	1155	540	41

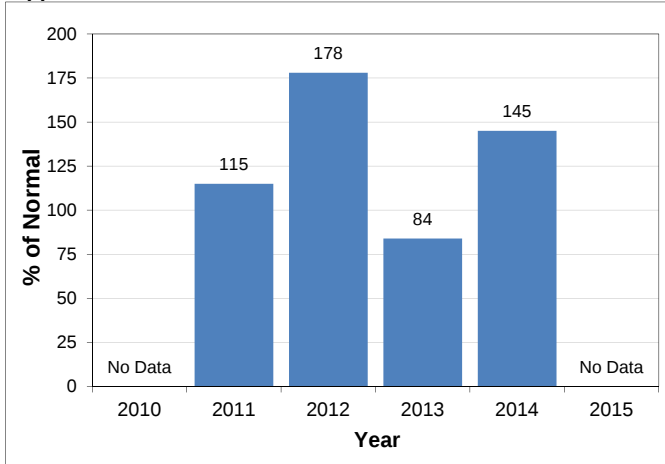
2015 Automated Snow Pillow/Manual Snow Survey Data				June 1st					Historic Snow Water Equivalent (mm)						
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record	
1E08P	AZURE RIVER	North Thompson	1625	2015-06-01		95		79%	729	943	473	1729	902	16	
1E10P	KOSTAL LAKE	North Thompson	1760	2015-06-01		75		46%	818	757	155	1386	683	28	
1F01A	ABERDEEN LAKE	South Thompson	1262	NS						NS	NS	NS	0		
1F02	ANGLEMONT	South Thompson	1168	NS						NS	NS	NS	8		
1F03P	PARK MOUNTAIN	South Thompson	1857	2015-06-01	80	474		64%	1129	834	0	1269	740	28	
1F04	ENDERBY	South Thompson	1948	NS					1097	996	430	1422	919	48	
1F06P	CELISTA MOUNTAIN	South Thompson	1533	2015-06-01	20	96		19%	685	596	53	894	495	8	
2A01A	CANOE RIVER	Upper Columbia	866	NS						NS	NS	NS	0		
2A02	GLACIER	Upper Columbia	1249	NS						NS	NS	NS	263		
2A03A	FIELD	Upper Columbia	1310	NS						NS	NS	NS	0		
2A06P	MOUNT REVELSTOKE	Upper Columbia	1770	2015-06-01	N/A	497		48%	1132	1017	240	2063	1025	20	
2A07	KICKING HORSE	Upper Columbia	1648	NS						NS	NS	NS	66		
2A11	BEAVERFOOT	Upper Columbia	1924	NS						NS	NS	NS	0		
2A14	MOUNT ABBOT	Upper Columbia	2031	NS						NS	NS	NS	1162		
2A16	GOLDSTREAM	Upper Columbia	1914	NS						NS	NS	NS	0		
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	NS						NS	NS	NS	1121		
2A18	KEYSTONE CREEK	Upper Columbia	1839	NS						NS	NS	NS	0		
2A19	VERMONT CREEK	Upper Columbia	1533	NS						NS	NS	NS	0		
2A21P	MOLSON CREEK	Upper Columbia	1930	2015-06-01	N/A	562		66%	900	1007	82	1462	849	32	
2A22	SUNBEAM LAKE	Upper Columbia	2066	NS						NS	NS	NS	0		
2A23	BUSH RIVER	Upper Columbia	1982	NS						NS	NS	NS	0		
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	NS						NS	NS	NS	969		
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	NS						NS	NS	NS	99		
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	NS						NS	NS	NS	1130		
2B02A	FARRON	West Kootenay	1229	NS						NS	NS	NS	3		
2B05	WHATSHAN (UPPER)	West Kootenay	1476	NS						NS	NS	NS	0		
2B06	BARNES CREEK	West Kootenay	1598	NS						NS	NS	NS	0		
2B06P	BARNES CREEK	West Kootenay	1595	2015-06-01	N/A	1		1%	362	102	0	627	157	20	
2B07	KOCH CREEK	West Kootenay	1813	NS						NS	NS	NS	0		
2B08	ST. LEON CREEK	West Kootenay	1828	NS						NS	NS	NS	0		
2B08P	ST. LEON CREEK	West Kootenay	1822	2015-06-01	N/A	431	E	52%	1162	877	225	1560	830	20	
2B09	RECORD MOUNTAIN	West Kootenay	1906	2015-05-30	0	0		0%	196	204	0	1073	384	37	
2C01	SINCLAIR PASS	East Kootenay	1374	NS						NS	NS	NS	0		
2C04	SULLIVAN MINE	East Kootenay	1580	2015-05-29	0	0		0%	0	0	0	137	6	31	
2C07	FERNIE EAST	East Kootenay	1213	NS						NS	NS	NS	4		
2C09Q	MORRISSEY RIDGE	East Kootenay	1966	2015-06-01	N/A	0		0%	518	63	0	874	171	33	
2C10P	MOYIE MOUNTAIN	East Kootenay	1840	2015-06-01	2	1		3%	4	0	0	466	30	34	
2C11	KIMBERLEY (UPPER) VOR	East Kootenay	2148	NS						NS	NS	NS	0		
2C12	KIMBERLEY (MIDDLE) VOR	East Kootenay	1692	NS						NS	NS	NS	0		
2C14	FLOE LAKE	East Kootenay	2087	NS						NS	NS	NS	0		
2C14P	FLOE LAKE	East Kootenay	2110	2015-06-01	N/A	197		35%	703	687	94	979	565	20	
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	NS						NS	NS	NS	0		
2C16	MOUNT JOFFRE	East Kootenay	1763	NS						NS	NS	NS	0		
2C17	THUNDER CREEK	East Kootenay	2062	NS						NS	NS	NS	0		
2C20	VERMILLION RIVER NO. 3	East Kootenay	1612	NS						NS	NS	NS	0		
2D02	FERGUSON	West Kootenay	929	NS						NS	NS	NS	65		
2D03	SANDON	West Kootenay	1072	NS						NS	NS	NS	0		
2D04	NELSON	West Kootenay	952	NS						NS	NS	NS	1		
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	2015-05-28	0	0		0%	303	94	0	551	148	58	
2D06	CHAR CREEK	West Kootenay	1290	2015-06-03	0	0		0%	68	0	0	362	82	37	
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS						NS	NS	NS	0		
2D08P	EAST CREEK	West Kootenay	2004	2015-06-01	N/A	445		62%	707	503	111	1256	713	32	
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	NS						NS	NS	NS	0		
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	2015-05-28	44	199		42%	652	552	0	1120	470	41	
2D14P	REDFISH CREEK	West Kootenay	2086	2015-06-01	140	899		80%	1421	1323	878	1822	1127	11	
2E01	MONASHEE PASS	Boundary	1387	NS						NS	NS	NS	62		
2E02	CARMI	Boundary	1254	NS						NS	NS	NS	0		
2E03	BIG WHITE MOUNTAIN	Boundary	1672	NS						NS	NS	NS	151		

2015 Automated Snow Pillow/Manual Snow Survey Data				June 1st					Historic Snow Water Equivalent (mm)					
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	Snow Depth (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
2E06	BLUEJOINT MOUNTAIN	Boundary	1990	NS						NS	NS	NS	0	
2E07P	GRANO CREEK	Boundary	1874	2015-06-01	0	9	E	3%	451	408	0	750	287	15
2F01A	TROUT CREEK (WEST)	Okanagan	1430	NS						NS	NS	NS	0	
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	NS						NS	NS	NS	0	
2F03	MC CULLOCH	Okanagan	1266	NS						NS	NS	NS	0	
2F04	GRAYSTOKE LAKE	Okanagan	1818	NS						NS	NS	NS	236	
2F05P	MISSION CREEK	Okanagan	1794	2015-06-01	0	1		1%	532	338	0	641	168	43
2F07	POSTILL LAKE	Okanagan	1358	NS						NS	NS	NS	0	
2F08	GRAYBACK RESERVOIR	Okanagan	1548	NS						NS	NS	NS	11	
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	2015-05-30	0	0		0%	57	255	0	848	128	42
2F10	SILVER STAR MOUNTAIN	Okanagan	1834	NS					596	585	0	980	460	55
2F11	ISINTOK LAKE	Okanagan	1651	NS						NS	NS	NS	1	
2F12	MOUNT KOBALU	Okanagan	1817	2015-05-30	0	0		0%	0	184	0	488	121	48
2F13	ESPERON CR (UPPER)	Okanagan	1634	2015-05-30	0	0		0%		NS	NS	NS	173	
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	2015-05-30	0	0		0%		NS	NS	NS	27	
2F18P	BRENDA MINE	Okanagan	1453	2015-06-01	N/A	0		0%	0	9	0	9	3	20
2F19	OYAMA LAKE	Okanagan	1365	NS						NS	NS	NS	391	
2F20	VASEUX CREEK	Okanagan	1403	NS						NS	NS	NS	0	
2F21	BOULEAU LAKE	Okanagan	1405	NS						NS	NS	NS	0	
2F23	MACDONALD LAKE	Okanagan	1742	NS						NS	NS	NS	172	
2F24	ISLAHT LAKE	Okanagan	1492	NS						NS	NS	NS	0	
2F25	POSTILL LAKE (UPPER)	Okanagan	1500	NS						NS	NS	NS		
2G03P	BLACKWALL PEAK	Similkameen	1934	2015-06-01	19	100		25%	671	472	0	1253	403	45
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	NS						NS	NS	NS	106	
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	NS						NS	NS	NS	0	
2G06	HAMILTON HILL	Similkameen	1477	NS						NS	NS	NS	2	
3A01	GROUSE MOUNTAIN	South Coast	1126	NS						NS	NS	NS	0	
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS						NS	NS	NS	0	
3A05	POWELL RIVER (LOWER)	South Coast	882	NS						NS	NS	NS	0	
3A09	PALISADE LAKE	South Coast	898	NS						NS	NS	NS	350	
3A10	DOG MOUNTAIN	South Coast	1007	2015-06-02	0	0		0%	210	895	0	2480	714	27
3A19	ORCHID LAKE	South Coast	1178	2015-06-02	0	0		0%	820	1330	174	3648	1409	34
3A20	CALLAGHAN CREEK	South Coast	1009	2015-05-30	0	0		0%	50	80	0	1228	233	29
3A22P	NOSTETUKO RIVER	South Coast	1457	2015-06-01	0	0		0%	0	0	0	675	102	24
3A24P	UPPER MOSLEY CREEK	South Coast	1655	2015-06-01	0	0		0%	0	0	0	236	27	24
3A25P	SQUAMISH RIVER (UPPER)	South Coast	1387	2015-06-01	745	0	E	0%	796	1196	461	2800	1184	23
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	NS						NS	NS	NS	1222	
3B02A	MT. COKELY	Vancouver Island	1267	NS						NS	NS	NS	0	
3B04	ELK RIVER	Vancouver Island	270	NS						NS	NS	NS	0	
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	NS						NS	NS	NS	995	
3B13	HEATHER MOUNTAIN	Vancouver Island	1170	NS						NS	NS	NS		
3B17P	WOLF RIVER	Vancouver Island	1422	2015-06-01	N/A	33		3%	341	668	58	2466	981	31
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	NS						NS	NS	NS	237	
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	NS						NS	NS	NS	0	
3B23P	JUMP CREEK	Vancouver Island	1134	2015-06-01	N/A	0		0%	5	212	0	3142	694	17
3B24	HEATHER MOUNTAIN UPPE	Vancouver Island	N/A	NS						NS	NS	NS		
3C07	WEDEENE RIVER SOUTH	Central Coast	196	NS						NS	NS	NS	0	
3C08P	BURNT BRIDGE CREEK	Central Coast	1329	2015-06-01	0	0		0%	104	91	0	1116	304	15
3D01C	SUMALLO RIVER WEST	Skagit	801	NS						NS	NS	NS	0	
3D02	LIGHTNING LAKE	Skagit	1254	NS						NS	NS	NS	0	
3D03A	KLESILKWA	Skagit	1134	NS						NS	NS	NS	0	
4A02	PINE PASS	Peace	1439	NS						NS	NS	NS	1012	
4A02P	PINE PASS	Peace	1386	2015-06-01	94	388		54%	800	671	183	1658	713	24
4A03	WARE (UPPER)	Peace	1563	NS						NS	NS	NS	0	
4A04	WARE (LOWER)	Peace	969	NS						NS	NS	NS	0	
4A05	GERMANSEN (UPPER)	Peace	1489	NS						NS	NS	NS	0	
4A06	TUTIZZI LAKE	Peace	1043	NS						NS	NS	NS	0	
4A07	LADY LAURIER LAKE	Peace		NS						NS	NS	NS	0	

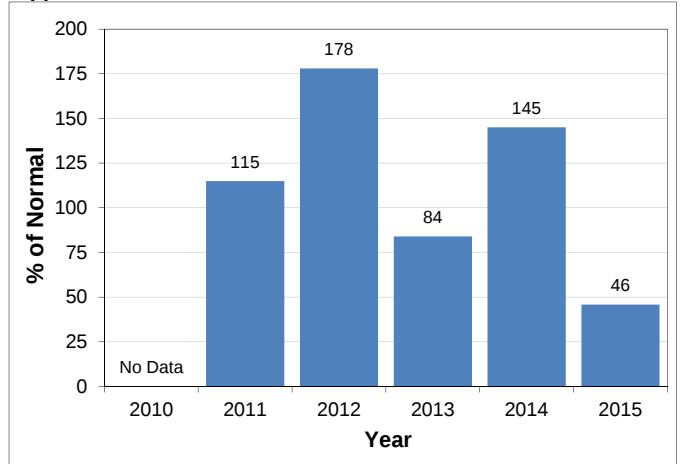
2015 Automated Snow Pillow/Manual Snow Survey Data				June 1st					Historic Snow Water Equivalent (mm)						
Station ID	Name	Basin	Elevation (masl)	Survey Date YYYY-MM-DD	Snow Depth (cm)	SWE (mm)	Code	SWE % 1981-2010 Normal	2014 SWE (mm)	2013 SWE (mm)	Minimum (mm)	Maximum (mm)	1981-2010 Normal (mm)	Years of Record	
4A09	PULPIT LAKE	Peace	1331	NS						NS	NS	NS		0	
4A09P	PULPIT LAKE	Peace	1331	2015-06-01	1	0		0%	0	0	0	225	43	23	
4A10	FREDRICKSON LAKE	Peace	1323	NS						NS	NS	NS		0	
4A11	TRYGVE LAKE	Peace	1409	NS						NS	NS	NS		0	
4A12	TSAYDAYCHI LAKE	Peace	1173	NS						NS	NS	NS		0	
4A13	PHILIP LAKE	Peace	1013	NS						NS	NS	NS		0	
4A16	MORFEE MOUNTAIN	Peace	1427	NS						NS	NS	NS		249	
4A18	MOUNT SHEBA	Peace	1480	NS						NS	NS	NS		663	
4A20	MONKMAN CREEK	Peace	1566	NS						NS	NS	NS		491	
4A21	MOUNT STEARNS	Peace	1514	NS						NS	NS	NS		0	
4A25	FORT ST. JOHN AIRPORT	Peace	692	NS						NS	NS	NS		0	
4A27P	KWADACHA RIVER	Peace	1695	2015-06-01	1	0	E	0%	0	0	0	374	192	16	
4A30P	AIKEN LAKE	Peace	1061	2015-06-01	N/A	2		40%	4	8	0	8	5	28	
4B01	KIDPRICE LAKE	Skeena-Nass	1415	2015-05-30	88	429		68%	0	283	0	1359	630	36	
4B02	JOHANSON LAKE	Skeena-Nass	1480	NS						NS	NS	NS		0	
4B03A	HUDSON BAY MTN	Skeena-Nass	1452	2015-05-29	12	47		18%	84	48	0	729	259	41	
4B04	CHAPMAN LAKE	Skeena-Nass	1485	NS						NS	NS	NS		455	
4B06	TACHEK CREEK	Skeena-Nass	1133	NS						NS	NS	NS		0	
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	NS						NS	NS	NS		22	
4B08	MOUNT CRONIN	Skeena-Nass	1491	NS						NS	NS	NS		646	
4B10	NINGUNSAW PASS	Skeena-Nass	647	NS						NS	NS	NS		0	
4B11A	BEAR PASS	Skeena-Nass	437	NS						NS	NS	NS		33	
4B13A	TERRACE AIRPORT	Skeena-Nass	219	NS						NS	NS	NS		0	
4B14	EQUITY MINE	Skeena-Nass	1434	NS						NS	NS	NS		81	
4B15	LU LAKE	Skeena-Nass	1296	NS						NS	NS	NS		28	
4B15P	LU LAKE	Skeena-Nass	1308	2015-06-01	0	15		63%	1	0	0	180	24	15	
4B16P	SHEDIN CREEK	Skeena-Nass	1320	2015-06-01	39	218		31%	338	390	98	1261	703	17	
4B17P	TSAI CREEK	Skeena-Nass	1369	2015-06-01	124	931		91%	593	636	371	2103	1028	15	
4B18P	CEDAR - KITEEN	Skeena-Nass	912	2015-06-01	0	9		5%	0	7	0	640	166	12	
4C01	SIKANNI LAKE	Liard	1390	NS						NS	NS	NS		0	
4C02	SUMMIT LAKE	Liard	1291	NS						NS	NS	NS		0	
4C03	DEASE LAKE	Liard	805	NS						NS	NS	NS		0	
4C05	FORT NELSON A	Liard	368	NS						NS	NS	NS		0	
4C15	JADE CITY	Liard	943	NS						NS	NS	NS		0	
4D01	TELEGRAPH CREEK	Stikine	490	NS						NS	NS	NS		0	
4D02	ISKUT	Stikine	931	NS						NS	NS	NS		0	
4D11P	KINASKAN LAKE	Stikine	1020	2015-06-01	2	0			NA	NA	NS	NS			
4E02B	ATLIN LAKE	Northwest		NS						NS	NS	NS			
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 - June 1, 2015

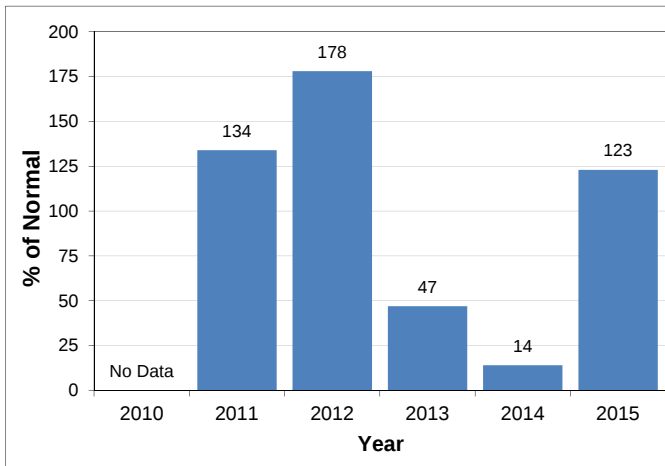
Upper Fraser West



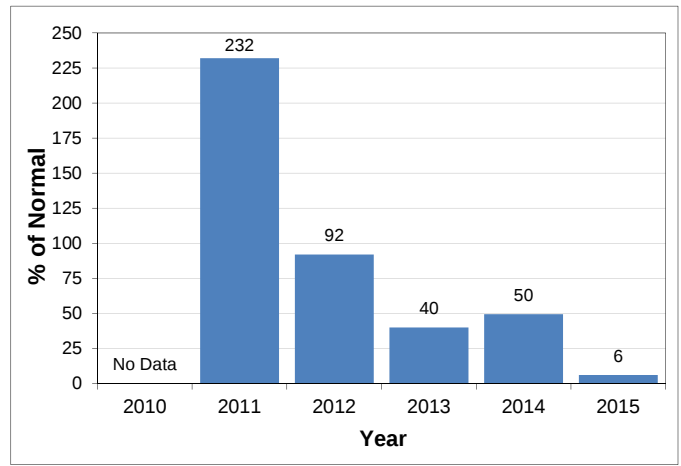
Upper Fraser East



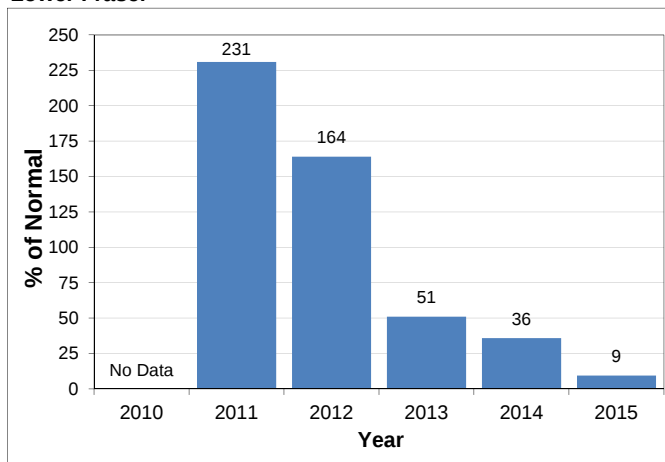
Nechako



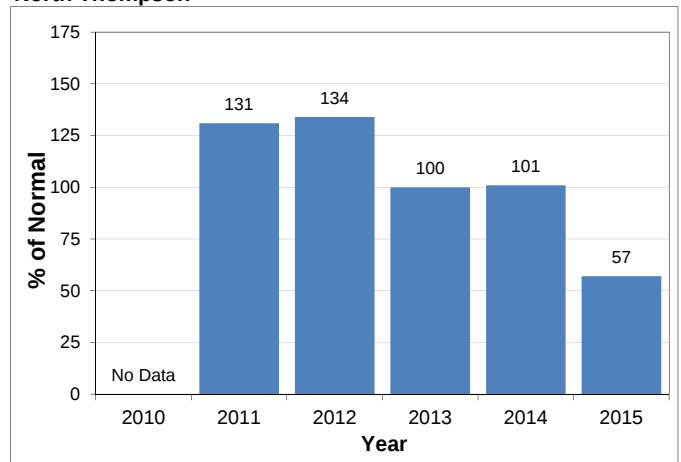
Middle Fraser



Lower Fraser

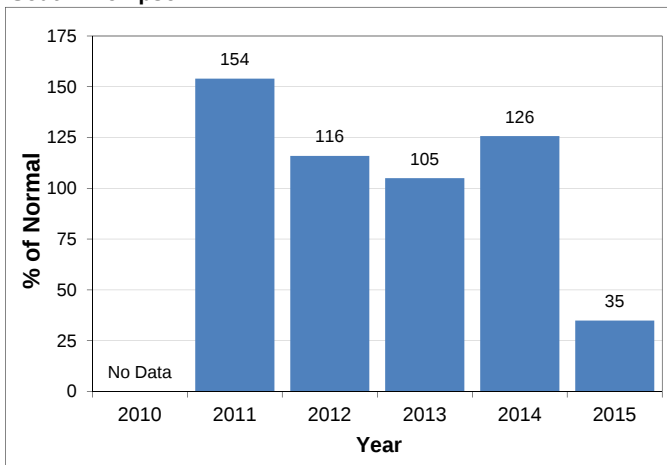


North Thompson

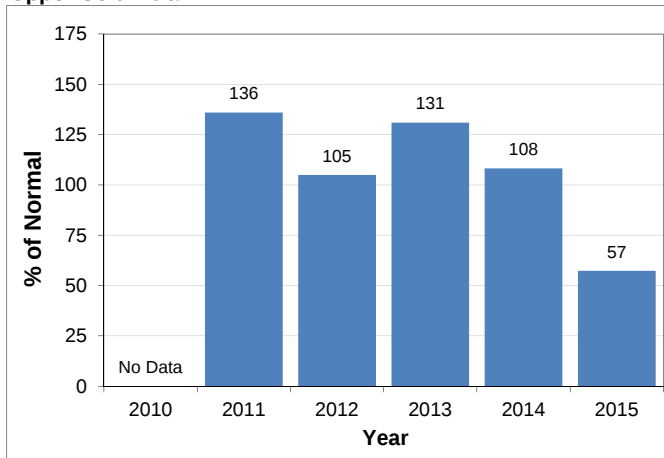


Snow Basin Index Graphs - June 1, 2015

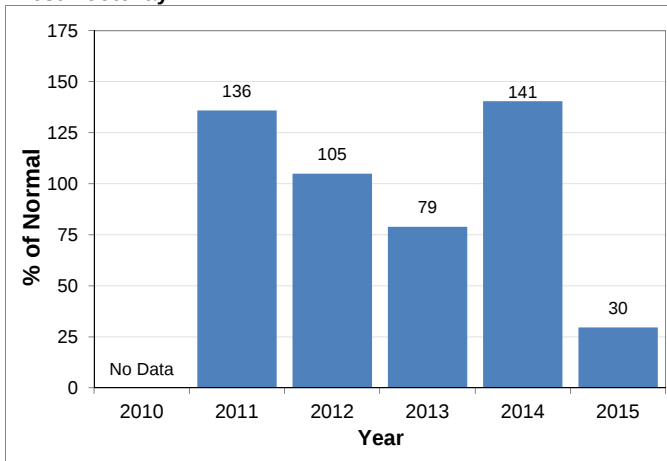
South Thompson



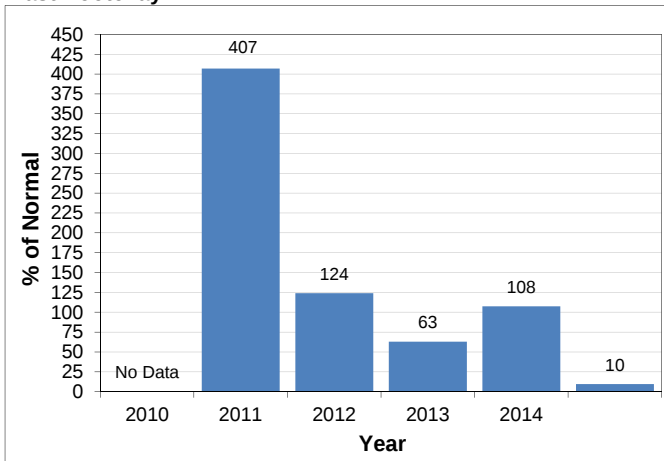
Upper Columbia



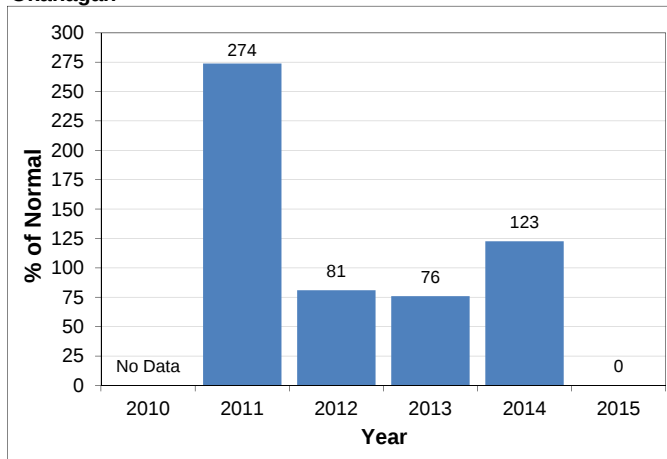
West Kootenay



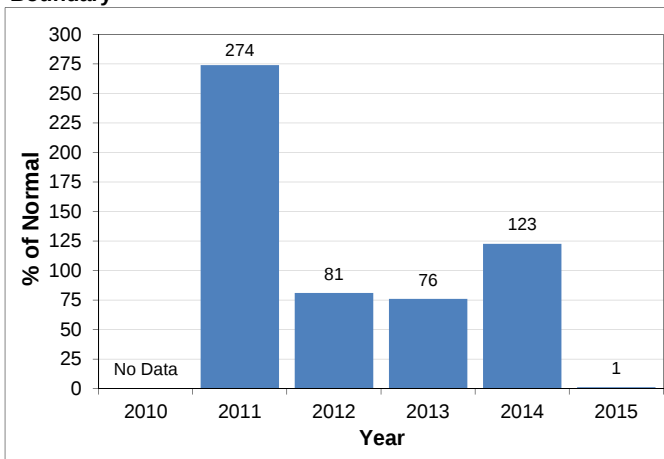
East Kootenay



Okanagan

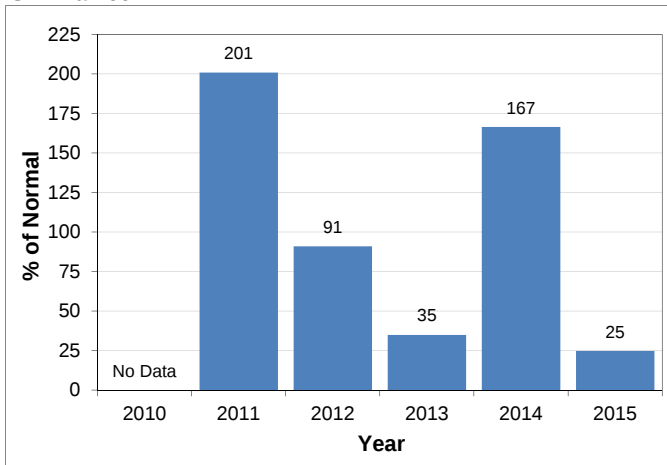


Boundary

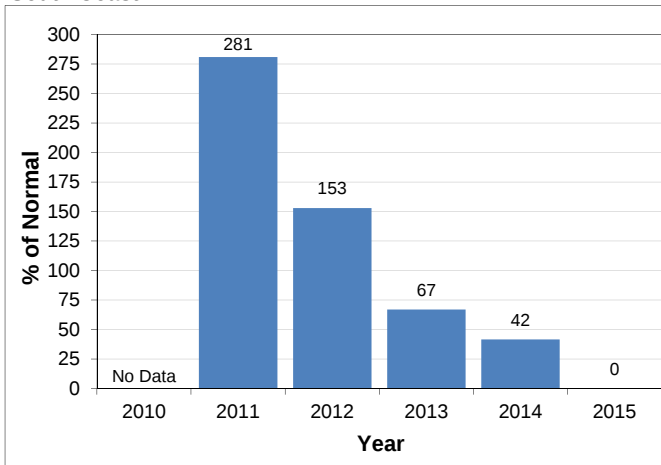


Snow Basin Index Graphs - June 1, 2015

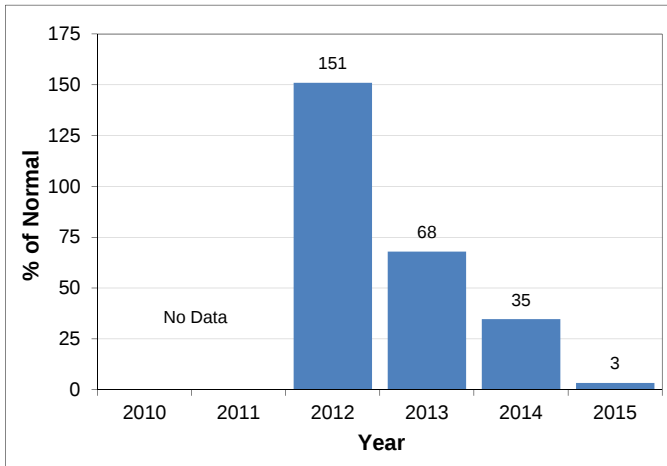
Similkameen



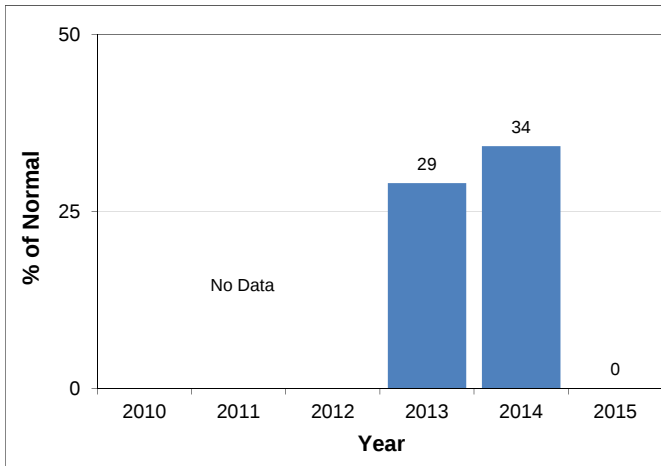
South Coast



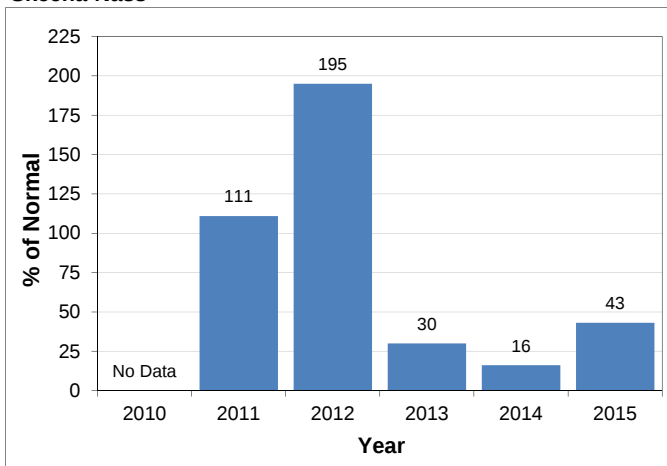
Vancouver Island



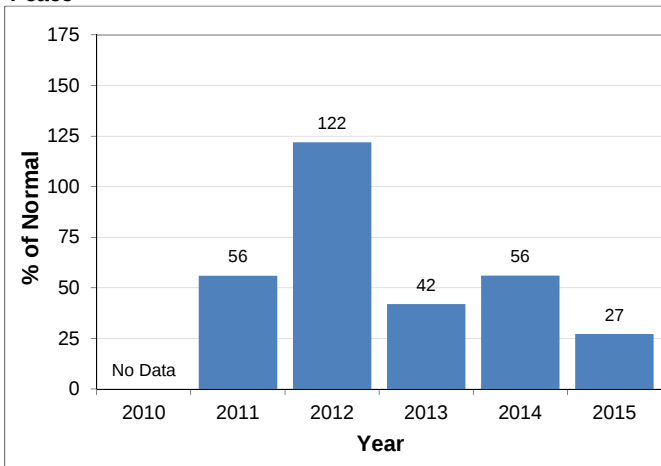
Central Coast



Skeena-Nass



Peace



Snow Survey and Water Supply Bulletin – June 15th, 2015

The June 15th snow survey is now complete. Data from 2 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 report¹. This is the final Snow Survey report for the season.

Weather

June weather has continued to be warm across the province. This included a prolonged hot spell through the second week of the month which saw temperature records being broken in many areas of the province. Episodes of low pressure brought some wetter periods in the first half of June, particularly in the Kootenay, Prince George area and north-east. Coastal areas in the south-west and western parts of the province have seen limited precipitation in June.

Snow Pack

Rapid melt of the province's snow pack in May has left very little snow across the province as of June 15th. Snow basin indices are extremely low for June 15th (Table 1), and this reflects the rapid melt of the snow pack earlier this season. Snow basin indices range from 0% to 20% of normal, with a provincial average of snow observations of 5% of normal.

Most snow observation sites (automated snow pillows and manual snow surveys) are located in sub-alpine or forested areas at mid-elevation, and the lack of snow reported on June 15th reflects snow conditions in similar terrain across the province. Remaining snow is limited to the alpine terrain of the province's mountainous regions.

Table 1 - BC Snow Basin Indices – June 15, 2015

Basin	% of Normal	Basin	% of Normal
Upper Fraser West	NO DATA*	Boundary	3
Upper Fraser East	10	Similkameen	0 [!]
Nechako	17	South Coast	0 [!]
Middle Fraser	8	Vancouver Island	0 [!]
Lower Fraser	0 [!]	Central Coast	0 [!]
North Thompson	20	Skagit	NO DATA*
South Thompson	7	Peace	0 [!]
Upper Columbia	5	Skeena-Nass	0 [!]
West Kootenay	11	Stikine	0 [!]
East Kootenay	1	Liard	NO DATA*
Okanagan	0 [!]	Northwest	NO DATA*

* Data is not available either because there were no scheduled snow surveys or no snow surveys were completed.

! Zero values are the result of no snow being observed at snow basin index survey locations. Snow may still be present at higher, unsampled, locations

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 – June 15th, 2015

Streamflow Runoff

With earlier than normal melt of the snow pack across the province, most rivers are now on the receding end of the snow melt freshet. With waning influence of snow melt on river flow, many rivers in the province have declined to below normal flows for this time of year. In lower elevation areas, and areas that had limited initial snow packs this season, river levels have dropped to extremely low levels for mid-June. Flows are at or near minimum levels for this time of year in most rivers on Vancouver Island, Haida Gwaii and South Coast. Current flows in these regions are below levels normally observed in late-summer.

Well below normal flows are also present through the South Interior, Central Interior, Kootenay, and areas of the Peace. Current flows in these regions are at levels more typically observed in mid-July to August.

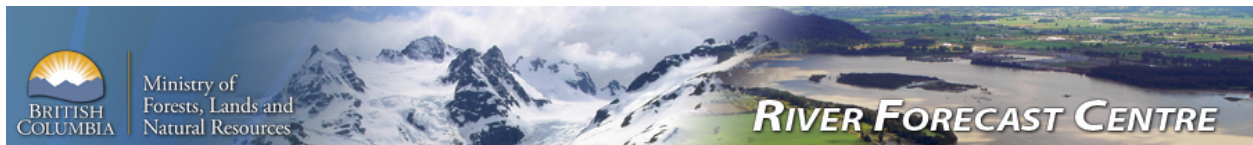
The Fraser River at Hope (08MF005) has seen 65% of the forecasted April to September runoff volume passed as of June 18th, and flows have dropped to 5200 m³/s from a peak of 7950 m³/s earlier this month. Flows are at approximately 75% of normal levels for this time of year. There is now a limited supply of snow in the watershed that flood risk has now subsided.

Elsewhere in the province, current flows are variable, with most rivers at near-normal levels, with localized areas of above-normal (particularly around the Nechako River) and below-normal flows. A flood warning remains for the Nechako River with current flows at Vanderhoof (08JC001) of approximately 651 m³/s (5.29m) and at Isle Pierre (08JC002) of 1030 m³/s (4.97m).

Outlook

Short-term weather forecasts indicate the potential for rainfall over the next week, with wet conditions across central British Columbia, and moderate rainfall elsewhere. Long-term weather forecasts from Environment Canada continue to indicate a high likelihood of above-normal temperatures across the province through the summer. Warm sea surface temperature anomalies in the North Pacific Ocean, and building El Niño conditions along the equatorial Pacific reinforce the high likelihood of a warmer than normal summer. Seasonal precipitation forecasts indicate a modest likelihood of below normal precipitation in south-east BC. Elsewhere in the province, normal to below normal precipitation is forecast to be more likely than above normal conditions.

With the emergence of low flow patterns already this season and the forecast for a warmer than normal summer, there is a high risk of extreme low flows this summer. Areas where extreme low flows are expected include southern BC, Vancouver Island, and Haida Gwaii and potentially in other regions including the Peace and South Interior. Summer rainfall can contribute significantly to streamflow and will be a determinant in the extent of low flows



Snow Survey and Water Supply Bulletin – June 15th, 2015

later in the summer. Given the likelihood for normal or below normal precipitation, there is an increased risk that low flow conditions will continue to deteriorate across the province; wetter than normal conditions through the summer may alleviate some of this risk.

The River Forecast Centre will continue to monitor weather and streamflow across the province and will provide [Water Supply Bulletins](#) and low streamflow advisories as needed. The Flood Watch currently posted for the Nechako River will be revised as conditions warrant.

BC River Forecast Centre
June 18, 2015

2015 Automated Snow Pillow/Manual Snow Survey Data			June 15th							Historic Snow Water Equivalent					
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	2015-06-15	2	23		17%	122	29	0	641	135	16	
1A02P	MC BRIDE (UPPER)	Upper Fraser East	1608	2015-06-15	N/A	0		0%	18	0	0	159	1	21	
1A03P	BARKERVILLE	Upper Fraser East	1483	2015-06-15	1	1		33%	0	1	0	37	3	38	
1A05	LONGWORTH (UPPER)	Upper Fraser East	1693	NS						NS	N/A	N/A		388	
1A06A	HANSARD	Upper Fraser East	622	NS						NS	N/A	N/A		0	
1A10	PRINCE GEORGE A	Upper Fraser East	684	NS						NS	N/A	N/A		0	
1A11	PACIFIC LAKE	Upper Fraser East	756	NS						NS	N/A	N/A		0	
1A12	KAZA LAKE	Upper Fraser West	1247	NS						NS	N/A	N/A		0	
1A14P	HEDRICK LAKE	Upper Fraser East	1118	2015-06-15	0	9		24%	624	375	0	587	38	13	
1A15	KNUDSEN LAKE	Upper Fraser East	1598	NS						NS	N/A	N/A		714	
1A16	BURNS LAKE	Upper Fraser West	820	NS						NS	N/A	N/A		0	
1A17P	REVOLUTION CREEK	Upper Fraser East	1676	2015-06-15	37	26		12%	727	436	0	927	223	28	
1A19P	DOME MOUNTAIN	Upper Fraser East	1768	2015-06-15	16	84		23%	612	388	0	925	367	7	
1A23	BIRD CREEK	Upper Fraser West	1196	NS						NS	N/A	N/A		0	
1B01	MOUNT WELLS	Nechako	1489	NS						NS	N/A	N/A		0	
1B01P	MOUNT WELLS	Nechako	1489	2015-06-15	N/A	0		0%	0	0	0	321	44	21	
1B02	TAHTSA LAKE	Nechako	1319	NS						NS	N/A	N/A		0	
1B02P	TAHTSA LAKE	Nechako	1319	2015-06-15	N/A	264		43%	29	44	0	1870	617	21	
1B05	SKINS LAKE	Nechako	877	NS						NS	N/A	N/A		0	
1B06	MOUNT SWANNELL	Nechako	1596	NS						NS	N/A	N/A		0	
1B07	NUTLI LAKE	Nechako	1502	NS						NS	N/A	N/A		0	
1B08P	MOUNT PONDOSY	Nechako	1413	2015-06-15	N/A	7		9%	7	0	0	520	75	21	
1C01	BROOKMERE	Middle Fraser	994	NS						NS	N/A	N/A		0	
1C05	MCGILLIVRAY PASS	Middle Fraser	1715	NS						NS	N/A	N/A		0	
1C06	PAVILION	Middle Fraser	1209	NS						NS	N/A	N/A		0	
1C08	NAZKO	Middle Fraser	1029	NS						NS	N/A	N/A		0	
1C09A	HIGHLAND VALLEY	Middle Fraser	1547	NS						NS	N/A	N/A		0	
1C12P	GREEN MOUNTAIN	Middle Fraser	1766	2015-06-15	N/A	2		1%	2	14	0	887	272	19	
1C13A	HORSEFLY MOUNTAIN	Middle Fraser	1612	NS						NS	N/A	N/A		0	
1C14	BRALORNE	Middle Fraser	1382	NS						NS	N/A	N/A		0	
1C17	MOUNT TIMOTHY	Middle Fraser	1632	NS						NS	N/A	N/A	126		
1C18P	MISSION RIDGE	Middle Fraser	1903	2015-06-15	N/A	0		0%	0	0	0	387	15	43	
1C19	GNAWED MOUNTAIN	Middle Fraser	1617	NS						NS	N/A	N/A		0	
1C20P	BOSS MOUNTAIN MINE	Middle Fraser	1477	2015-06-15	0	0		0%	0	0	0	83	6	19	
1C21	BIG CREEK	Middle Fraser	1130	NS						NS	N/A	N/A		0	
1C22	PUNTZI MOUNTAIN	Middle Fraser	939	NS						NS	N/A	N/A		0	
1C23	PENFOLD CREEK	Middle Fraser	1687	NS						NS	N/A	N/A	643		
1C25	LAC LE JEUNE (UPPER)	Middle Fraser	1471	NS						NS	N/A	N/A		0	
1C28	DUFFEY LAKE	Middle Fraser	1253	NS						NS	N/A	N/A		0	
1C29	SHOVELNOSE MOUNTAIN	Middle Fraser	1456	NS						NS	N/A	N/A		0	
1C32	DEADMAN RIVER	Middle Fraser	1463	NS						NS	N/A	N/A		0	
1C33A	GRANITE MOUNTAIN	Middle Fraser	1175	NS						NS	N/A	N/A		0	
1C37	BRALORNE(UPPER)	Middle Fraser	1980	NS						NS	N/A	N/A		0	
1C38	DOWNTON LAKE (UPPER)	Middle Fraser	1884	NS						NS	N/A	N/A		0	
1C39	BRIDGE GLACIER (LOWER)	Middle Fraser	1393	NS						NS	N/A	N/A		0	
1C40	TYAUGHTON CREEK (NORTH)	Middle Fraser	1946	NS						NS	N/A	N/A		0	
1C41P	YANKS PEAK, EAST	Middle Fraser	1683	2015-06-15	0	0		0%	577	211	0	698	191	16	
1C42	CAVERHILL LAKE NEW	Middle Fraser	N/A	NS						NS	N/A	N/A			
1D06P	TENQUILLE LAKE	Lower Fraser	1669	2015-06-15	222	0		0%	1	181	0	1177	434	12	
1D08	STAVE LAKE	Lower Fraser	1211	NS						NS	N/A	N/A		0	
1D09	WAHLEACH LAKE	Lower Fraser	1395	NS						NS	N/A	N/A		71	
1D09P	WAHLEACH LAKE	Lower Fraser	1408	2015-06-15	N/A	8		1%	620	751	0	1281	643	21	
1D10	NAHATLATCH RIVER	Lower Fraser	1530	NS						NS	N/A	N/A		697	
1D16	DICKSON LAKE	Lower Fraser	1147	NS						NS	N/A	N/A		0	
1D17P	CHILLIWACK RIVER	Lower Fraser	1621	2015-06-15	1	0	E	0%	1424	1263	0	2022	797	21	
1D19P	SPUZZUM CREEK	Lower Fraser	1197	2015-06-15	0	0		0%	632	764	0	2320	886	14	
1E01B	BLUE RIVER	North Thompson	673	NS						NS	N/A	N/A		0	
1E02P	MOUNT COOK	North Thompson	1574	2015-06-15	4	206		30%	866	892	281	1155	681	13	
1E03A	TROPHY MOUNTAIN	North Thompson	1907	NS						NS	N/A	N/A		0	
1E05	KNOUFF LAKE	North Thompson	1189	NS						NS	N/A	N/A		0	
1E07	ADAMS RIVER	North Thompson	1769	NS						NS	N/A	N/A		255	
1E08P	AZURE RIVER	North Thompson	1625	2015-06-15	15	150		30%	405	583	75	1500	499	16	
1E10P	KOSTAL LAKE	North Thompson	1760	2015-06-15	0	1		0%	563	539	0	1248	351	28	
1F01A	ABERDEEN LAKE	South Thompson	1262	NS						NS	N/A	N/A		0	
1F02	ANGLEMONT	South Thompson	1168	NS						NS	N/A	N/A		0	
1F03P	PARK MOUNTAIN	South Thompson	1857	2015-06-15	12	31		7%	751	591	0	1095	458	28	
1F04	ENDERBY	South Thompson	1948	NS						738	N/A	N/A	684		
1F06P	CELISTA MOUNTAIN	South Thompson	1533	2015-06-15		7		4%	284	143	0	573	179	8	
2A01A	CANOE RIVER	Upper Columbia	866	NS						NS	N/A	N/A		0	
2A02	GLACIER	Upper Columbia	1249	NS						NS	N/A	N/A		47	
2A03A	FIELD	Upper Columbia	1310	NS						NS	N/A	N/A		0	
2A06P	MOUNT REVELSTOKE	Upper Columbia	1770	2015-06-15	N/A	0		0%	808	679	0	1801	700	20	
2A07	KICKING HORSE	Upper Columbia	1648	NS						NS	N/A	N/A		0	
2A11	BEAVERFOOT	Upper Columbia	1924	NS						NS	N/A	N/A		0	
2A14	MOUNT ABBOT	Upper Columbia	2031	NS						NS	N/A	N/A	841		
2A16	GOLDSTREAM	Upper Columbia	1914	NS						NS	N/A	N/A		0	
2A17	FIDELITY MOUNTAIN	Upper Columbia	1852	NS						NS	N/A	N/A	816		
2A18	KEYSTONE CREEK	Upper Columbia	1839	NS						NS	N/A	N/A		0	
2A19	VERMONT CREEK	Upper Columbia	1533	NS						NS	N/A	N/A		0	
2A21P	MOLSON CREEK	Upper Columbia	1930	2015-06-15	N/A	53		9%	683	740	0	1136	575	32	
2A22	SUNBEAM LAKE	Upper Columbia	2066	NS						NS	N/A	N/A		0	
2A23	BUSH RIVER	Upper Columbia	1982	NS						NS	N/A	N/A		0	
2A25	KIRBYVILLE LAKE	Upper Columbia	1739	NS						NS	N/A	N/A		0	

2015 Automated Snow Pillow/Manual Snow Survey Data				June 15th					Historic Snow Water Equivalent					
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
2A27	DOWNIE SLIDE (LOWER)	Upper Columbia	964	NS						NS	N/A	N/A		0
2A29	DOWNIE SLIDE (UPPER)	Upper Columbia	1628	NS						NS	N/A	N/A	540	
2B02A	FARRON	West Kootenay	1229	NS						NS	N/A	N/A	0	
2B05	WHATSHAN (UPPER)	West Kootenay	1476	NS						NS	N/A	N/A	0	
2B06	BARNES CREEK	West Kootenay	1598	NS						NS	N/A	N/A	0	
2B06P	BARNES CREEK	West Kootenay	1595	2015-06-15	N/A	0		0%	0	0	0	211	10	20
2B07	KOCH CREEK	West Kootenay	1813	NS						NS	N/A	N/A	0	
2B08	ST. LEON CREEK	West Kootenay	1828	NS						NS	N/A	N/A	0	
2B08P	ST. LEON CREEK	West Kootenay	1822	2015-06-15	N/A	48		9%	874	597	0	1336	509	20
2B09	RECORD MOUNTAIN	West Kootenay	1906	2015-06-15	0	0		0%	N/A	36	N/A	N/A	127	
2C01	SINCLAIR PASS	East Kootenay	1374	NS						NS	N/A	N/A	0	
2C04	SULLIVAN MINE	East Kootenay	1580	NS						NS	N/A	N/A	0	
2C07	FERNIE EAST	East Kootenay	1213	NS						NS	N/A	N/A	0	
2C09Q	MORRISSEY RIDGE	East Kootenay	1966	2015-06-15	N/A	0		0%	21	0	0	458	34	33
2C10P	MOYIE MOUNTAIN	East Kootenay	1840	2015-06-15	2	0		0%	0	0	0	69	1	34
2C11	KIMBERLEY (UPPER) VOR	East Kootenay	2148	NS						NS	N/A	N/A	0	
2C12	KIMBERLEY (MIDDLE) VOR	East Kootenay	1692	NS						NS	N/A	N/A	0	
2C14	FLOE LAKE	East Kootenay	2087	NS						NS	N/A	N/A	0	
2C14P	FLOE LAKE	East Kootenay	2110	2015-06-15	N/A	6		2%	484	470	0	866	334	20
2C15	MOUNT ASSINIBOINE	East Kootenay	2230	NS						NS	N/A	N/A	0	
2C16	MOUNT JOFFRE	East Kootenay	1763	NS						NS	N/A	N/A	0	
2C17	THUNDER CREEK	East Kootenay	2062	NS						NS	N/A	N/A	0	
2C20	VERMILLION RIVER NO. 3	East Kootenay	1612	NS						NS	N/A	N/A	0	
2D02	FERGUSON	West Kootenay	929	NS						NS	N/A	N/A	30	
2D03	SANDON	West Kootenay	1072	NS						NS	N/A	N/A	0	
2D04	NELSON	West Kootenay	952	NS						NS	N/A	N/A	0	
2D05	GRAY CREEK (LOWER)	West Kootenay	1558	NS						NS	N/A	N/A	28	
2D06	CHAR CREEK	West Kootenay	1290	NS						NS	N/A	N/A	32	
2D07A	DUNCAN LAKE NO. 2	West Kootenay	662	NS						NS	N/A	N/A	0	
2D08P	EAST CREEK	West Kootenay	2004	2015-06-15	N/A	42	E	9%	634	351	0	1163	464	32
2D09	MOUNT TEMPLEMAN	West Kootenay	1879	NS						NS	N/A	N/A	0	
2D10	GRAY CREEK (UPPER)	West Kootenay	1926	NS						NS	N/A	N/A	201	
2D14P	REDFISH CREEK	West Kootenay	2086	2015-06-15	39	292		35%	996	991	645	1722	831	11
2E01	MONASHEE PASS	Boundary	1387	NS						NS	N/A	N/A	0	
2E02	CARMI	Boundary	1254	NS						NS	N/A	N/A	0	
2E03	BIG WHITE MOUNTAIN	Boundary	1672	NS						NS	N/A	N/A	46	
2E06	BLUEJOINT MOUNTAIN	Boundary	1990	NS						NS	N/A	N/A	0	
2E07P	GRANO CREEK	Boundary	1874	2015-06-15	0	5	E	6%	179	61	0	509	84	15
2F01A	TROUT CREEK (WEST)	Okanagan	1430	NS						NS	N/A	N/A	0	
2F02	SUMMERLAND RESERVOIR	Okanagan	1304	NS						NS	N/A	N/A	0	
2F03	MC CULLOCH	Okanagan	1266	NS						NS	N/A	N/A	0	
2F04	GRAYSTOKE LAKE	Okanagan	1818	NS						NS	N/A	N/A	78	
2F05P	MISSION CREEK	Okanagan	1794	2015-06-15	0	0		0%	225	0	0	424	53	43
2F07	POSTILL LAKE	Okanagan	1358	NS						NS	N/A	N/A	0	
2F08	GRAYBACK RESERVOIR	Okanagan	1548	NS						NS	N/A	N/A	0	
2F09	WHITEROCKS MOUNTAIN	Okanagan	1789	NS						NS	N/A	N/A	26	
2F10	SILVER STAR MOUNTAIN	Okanagan	1834	NS						NS	N/A	N/A	195	
2F11	ISINTOK LAKE	Okanagan	1651	NS						NS	N/A	N/A	0	
2F12	MOUNT KOBALU	Okanagan	1817	NS						NS	N/A	N/A	72	
2F13	ESPERON CR (UPPER)	Okanagan	1634	NS						NS	N/A	N/A	0	
2F14	ESPERON CR (MIDDLE)	Okanagan	1440	NS						NS	N/A	N/A	0	
2F18P	BRENDA MINE	Okanagan	1453	2015-06-15	N/A	0		0%	0	8	0	8	3	20
2F19	OYAMA LAKE	Okanagan	1365	NS						NS	N/A	N/A	0	
2F20	VASEUX CREEK	Okanagan	1403	NS						NS	N/A	N/A	0	
2F21	BOULEAU LAKE	Okanagan	1405	NS						NS	N/A	N/A	0	
2F23	MACDONALD LAKE	Okanagan	1742	NS						NS	N/A	N/A	0	
2F24	ISLAHT LAKE	Okanagan	1492	NS						NS	N/A	N/A	0	
2F25	POSTILL LAKE (UPPER)	Okanagan	1500	NS						0				
2G03P	BLACKWALL PEAK	Similkameen	1934	2015-06-15	0	0		0%	438	175	0	1031	218	45
2G04	LOST HORSE MOUNTAIN	Similkameen	1988	NS						NS	N/A	N/A	25	
2G05	MISSEZULA MOUNTAIN	Similkameen	1602	NS						NS	N/A	N/A	0	
2G06	HAMILTON HILL	Similkameen	1477	NS						NS	N/A	N/A	0	
3A01	GROUSE MOUNTAIN	South Coast	1126	NS						NS	N/A	N/A	0	
3A02	POWELL RIVER (UPPER)	South Coast	1002	NS						NS	N/A	N/A	0	
3A05	POWELL RIVER (LOWER)	South Coast	882	NS						NS	N/A	N/A	0	
3A09	PALISADE LAKE	South Coast	898	NS						NS	N/A	N/A	0	
3A10	DOG MOUNTAIN	South Coast	1007	NS						520	N/A	N/A	399	
3A19	ORCHID LAKE	South Coast	1178	NS						880	N/A	N/A	1002	
3A20	CALLAGHAN CREEK	South Coast	1009	NS						NS	N/A	N/A	0	
3A22P	NOSTETUKO RIVER	South Coast	1457	2015-06-15	0	0		0%	0	0	0	266	20	24
3A24P	UPPER MOSLEY CREEK	South Coast	1655	2015-06-15	0	0		0%	0	0	0	0	1	24
3A25P	SQUAMISH RIVER (UPPER)	South Coast	1387	2015-06-15	0	0	E	0%	11	732	131	2505	786	23
3B01	FORBIDDEN PLATEAU	Vancouver Island	1110	NS						NS	N/A	N/A	830	
3B02A	MT. COKELY	Vancouver Island	1267	NS						NS	N/A	N/A	0	
3B04	ELK RIVER	Vancouver Island	270	NS						NS	N/A	N/A	0	
3B10	UPPER THELWOOD LAKE	Vancouver Island	1014	NS						NS	N/A	N/A	0	
3B13	HEATHER MOUNTAIN	Vancouver Island	1170	NS						0				
3B17P	WOLF RIVER	Vancouver Island	1422	2015-06-15	N/A	0		0%	1	346	0	2183	609	31
3B18	WOLF RIVER (MIDDLE)	Vancouver Island	1050	NS						NS	N/A	N/A	0	
3B19	WOLF RIVER (LOWER)	Vancouver Island	615	NS						NS	N/A	N/A	0	

2015 Automated Snow Pillow/Manual Snow Survey Data			June 15th							Historic Snow Water Equivalent					
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	
3B23P	JUMP CREEK	Vancouver Island	1134	2015-06-15	N/A		0	0%	2	3	0	2700	337	17	
3B24	HEATHER MOUNTAIN UPPER	Vancouver Island	N/A	NS						0					
3C07	WEDEENE RIVER SOUTH	Central Coast	196	NS						NS	N/A	N/A	0		
3C08P	BURN'T BRIDGE CREEK	Central Coast	1329	2015-06-15		0	0	0%	0	0	0	739	99	15	
3D01C	SUMALLO RIVER WEST	Skagit	801	NS						NS	N/A	N/A	0		
3D02	LIGHTNING LAKE	Skagit	1254	NS						NS	N/A	N/A	0		
3D03A	KLESILKWA	Skagit	1134	NS						NS	N/A	N/A	0		
4A02	PINE PASS	Peace	1439	NS						NS	N/A	N/A	722		
4A02P	PINE PASS	Peace	1386	2015-06-15		9	3	1%	601	237	0	1142	324	24	
4A03	WARE (UPPER)	Peace	1563	NS						NS	N/A	N/A	0		
4A04	WARE (LOWER)	Peace	969	NS						NS	N/A	N/A	0		
4A05	GERMANSEN (UPPER)	Peace	1489	NS						NS	N/A	N/A	0		
4A06	TUTIZZI LAKE	Peace	1043	NS						NS	N/A	N/A	0		
4A07	LADY LAURIER LAKE	Peace		NS						NS	N/A	N/A	0		
4A09	PULPIT LAKE	Peace	1331	NS						NS	N/A	N/A	0		
4A09P	PULPIT LAKE	Peace	1331	2015-06-15		1	0	0%	0	0	0	0	2	23	
4A10	FREDRICKSON LAKE	Peace	1323	NS						NS	N/A	N/A	0		
4A11	TRYGVE LAKE	Peace	1409	NS						NS	N/A	N/A	0		
4A12	TSAYDAYCHI LAKE	Peace	1173	NS						NS	N/A	N/A	0		
4A13	PHILIP LAKE	Peace	1013	NS						NS	N/A	N/A	0		
4A16	MORFEE MOUNTAIN	Peace	1427	NS						NS	N/A	N/A	0		
4A18	MOUNT SHEBA	Peace	1480	NS						NS	N/A	N/A	0		
4A20	MONKMAN CREEK	Peace	1566	NS						NS	N/A	N/A	0		
4A21	MOUNT STEARNS	Peace	1514	NS						NS	N/A	N/A	0		
4A25	FORT ST. JOHN AIRPORT	Peace	692	NS						NS	N/A	N/A	0		
4A27P	KWADACHA RIVER	Peace	1695	2015-06-15		1	0	0%	0	0	0	224	33	16	
4A30P	AIKEN LAKE	Peace	1061	2015-06-15	N/A		2	40%	4	8	0	8	5	28	
4B01	KIDPRICE LAKE	Skeena-Nass	1415	NS						NS	N/A	N/A	0		
4B02	JOHANSON LAKE	Skeena-Nass	1480	NS						NS	N/A	N/A	0		
4B03A	HUDSON BAY MTN	Skeena-Nass	1452	2015-06-15		0	0	0%	0	0	N/A	N/A	96		
4B04	CHAPMAN LAKE	Skeena-Nass	1485	NS						NS	N/A	N/A	0		
4B06	TACHEK CREEK	Skeena-Nass	1133	NS						NS	N/A	N/A	0		
4B07	MCKENDRICK CREEK	Skeena-Nass	1048	NS						NS	N/A	N/A	0		
4B08	MOUNT CRONIN	Skeena-Nass	1491	NS						NS	N/A	N/A	0		
4B10	NINGUNSAW PASS	Skeena-Nass	647	NS						NS	N/A	N/A	0		
4B11A	BEAR PASS	Skeena-Nass	437	NS						NS	N/A	N/A	0		
4B13A	TERRACE AIRPORT	Skeena-Nass	219	NS						NS	N/A	N/A	0		
4B14	EQUITY MINE	Skeena-Nass	1434	NS						NS	N/A	N/A	0		
4B15	LU LAKE	Skeena-Nass	1296	NS						NS	N/A	N/A	0		
4B15P	LU LAKE	Skeena-Nass	1308	2015-06-15		0	14		0	0	0	7	0	15	
4B16P	SHEDIN CREEK	Skeena-Nass	1320	2015-06-15		0	4	1%	7	41	0	916	340	17	
4B17P	TSAI CREEK	Skeena-Nass	1369	2015-06-15		54	384	63%	158	121	0	1772	612	15	
4B18P	CEDAR - KITEEN	Skeena-Nass	912	2015-06-15		2	11	157%	0	7	0	154	7	12	
4C01	SIKANNI LAKE	Liard	1390	NS						NS	N/A	N/A	0		
4C02	SUMMIT LAKE	Liard	1291	NS						NS	N/A	N/A	0		
4C03	DEASE LAKE	Liard	805	NS						NS	N/A	N/A	0		
4C05	FORT NELSON A	Liard	368	NS						NS	N/A	N/A	0		
4C15	JADE CITY	Liard	943	NS						NS	N/A	N/A	0		
4D01	TELEGRAPH CREEK	Stikine	490	NS						NS	N/A	N/A	0		
4D02	ISKUT	Stikine	931	NS						NS	N/A	N/A	0		
4D11P	KINASKAN LAKE	Stikine	1020	2015-06-15		0	0	0%	N/A	N/A	N/A	N/A	0		
4E02B	ATLIN LAKE	Northwest		NS						0					
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														