



## Water Supply and Snow Survey Bulletin – March 1, 2010

The March 1 snow survey is now complete. Data from 152 snow courses and 50 snow pillows around the province, with 18 out-of-province sampling locations and climate data from Environment Canada, have been used to form the basis of the following report<sup>1</sup>.

### Weather

Weather has been variable over the winter, with the effects of a moderate El Niño dominating weather across much of the province for the past two months. Beginning near Christmas and lasting through to today, much of central and southern BC has experienced warm weather, with well above normal temperatures. For some locations in BC, the January and/or February average temperature was the warmest on record, or close to the warmest on record. As a result of the unseasonably warm weather, melt of low and mid slope snow occurred in most areas of the Coast and Interior.

Precipitation was variable during January, with a series of Pacific frontal storms bringing heavy rain to Vancouver Island and the South Coast (producing flooding on Vancouver Island). Some small parts of the very southern parts of BC, including Penticton and the south Okanagan, appeared to be in the path of January's frontal storms, and received above normal precipitation during January, but precipitation was generally well below normal throughout most of the interior. February brought a similar pattern, with near normal or slightly below normal precipitation on Vancouver Island and the South Coast, but with well below normal precipitation throughout most of the interior. Castlegar, in the West Kootenay, experienced the lowest February snowfall ever recorded (based on a 45-year record). The Skeena and Nass basins have been particularly dry. Precipitation at Terrace from October 1st to Feb 28th was the lowest of record for that period (based on a 55-year record).

### Snowpack

Snowpacks in all major river basins across B.C. are below normal for March 1st, varying from a low of 65% of normal in the East Kootenay basin to a high of 95% of normal in the North Thompson. Basin snow water indices have declined steadily over the last two months across the province, following the warm and dry January and February.

In most areas, low elevation snow is generally absent and mid-elevation snow throughout Interior valleys is well below normal, following the warm weather of January and February. This is generally not measured well by the BC snow survey, which is biased towards high elevation locations. Use caution in interpreting the basin snow index numbers reported here, as they are likely to indicate greater snow water in some basins than is actually present.

**Upper Fraser:** Individual snow courses range from 63% of normal (Kaza Lake) to 105% (McBride Upper), with an overall basin index of 92%.

**Nechako:** Similar to the Upper Fraser, with an overall basin index of 88%.

**Mid Fraser:** Individual snow courses range from 48% of normal (Deadman River) to 127% (Green Mountain snow pillow), with an overall basin index of 91%. High elevation portions of the Quesnel Highland and the Fraser Plateau appear to be near 65-90%. Some portions of the Bridge River basin have been affected by January's frontal storms, and have localized heavier snowpacks.

**North Thompson:** Individual snow courses range from 62% of normal (Knouff Lake) to 107% (Mount Cook snow pillow), with an overall basin index of 95%.

**South Thompson:** Individual snow courses range from 59% of normal (Anglemeont) to 103% (Celista snow pillow), with an overall basin index of 94%.

**Upper Columbia:** Individual snow courses range from 56% of normal (Field) to 107% (Downie Slide), with an overall basin index of 88%.

**Lower Columbia:** The Lower Columbia is very dry. Individual snow courses range from 72% of normal (St. Leon Creek) to 90% (Record Mountain), with an overall basin index of 77%.

**East Kootenay:** The east Kootenay is very dry. Individual snow courses range from 35% of normal (Sinclair Pass) to 83% (Floe Lake), with an overall basin index of 65%.

**West Kootenay:** The West Kootenay is very dry. Individual snow courses range from 53% of normal (Nelson) to 94% (Redfish Creek snow pillow), with an overall basin index of 77%.

**Kettle:** The Kettle basin is very dry. Individual snow courses range from 66% of normal (Monashee pass) to 90% (Big White Mountain), with an overall basin index of 75%.

**Okanagan:** The Okanagan basin is dry. Individual snow courses range from 43% of normal (Vaseux Creek) to 119% (Mount Kobau), with an overall basin index of 86%. A portion of the South Okanagan (approximately Penticton and south) appears to have near or above normal snow at high elevation, while the rest of the Okanagan is below normal.

**Similkameen:** The Similkameen basin is very dry. Individual snow courses range from 51% of normal (Hamilton Hill) to 78% (Blackwall Peak snow pillow), with an overall basin index of 67%.

**South Coast:** Individual snow courses range from 53% of normal (Dog Mountain) to 108% (Upper Mosley snow pillow), with an overall basin index of 84%. The Metro Vancouver north shore basins appear to be in the 55-90% of normal range, with the highest amounts at high elevation.

**Vancouver Island:** There are very few snow measurement sites on Vancouver Island. Individual snow courses range from 60% of normal (Jump Creek snow pillow) to 117% (Wolf River Middle), with an overall basin index of 89%.

**Peace:** The Peace is very dry. Individual snow courses range from 62% of normal (Aiken Lake snow pillow) to 88% (Monkman Creek), with an overall basin index of 79%.

**Skeena/Nass:** The Skeena, Nass and Bulkley river basins are very dry. Individual snow courses range from 45% of normal (Cedar-Kiteen snow pillow) to 102% (Tsai Creek snow pillow), with an overall basin index of 73%.

### BC Snow Basin Indices – March 1, 2010

Basin	% of Normal <sup>1</sup>	Basin	% of Normal <sup>1</sup>
Upper Fraser	92%	Kootenay	71%
Nechako	94%	Okanagan-Kettle	86%
Middle Fraser	91%	Similkameen	67%
Lower Fraser	88%	South Coast	84%
North Thompson	95%	Vancouver Island	89%
South Thompson	94%	Peace	79%
Columbia	83%	Skeena-Nass	73%

### Outlook

By this date, generally about 80% of the BC mountain snowpack has accumulated, and there is only 4-6 weeks of winter remaining to accumulate additional snow. Conditions as of March 1st indicate a likelihood of below normal freshet runoff during May and June, and low risk for freshet flooding risk in the major river basins (Fraser, Thompson, Skeena, Nass, Peace, etc.). The below average snowpack conditions across much of the Interior (Okanagan, Nicola, Kettle, Similkameen, South Thompson, Kootenay, Skeena, Nass, Peace) indicate potential for water-supply challenges to develop this summer. To reduce the potential for summer low flow or drought problems, spring rainfall (April, May and June) will need to be at or above normal. In the case of the South Interior (Okanagan, Nicola, Kettle, Similkameen, South Thompson), current snow conditions suggest the potential to redevelop conditions similar to the 2009 summer drought (which resulted in very low river levels, and depletion of lake, reservoir and groundwater storage in the South Interior and in other parts of the province), should the spring weather remain dry.

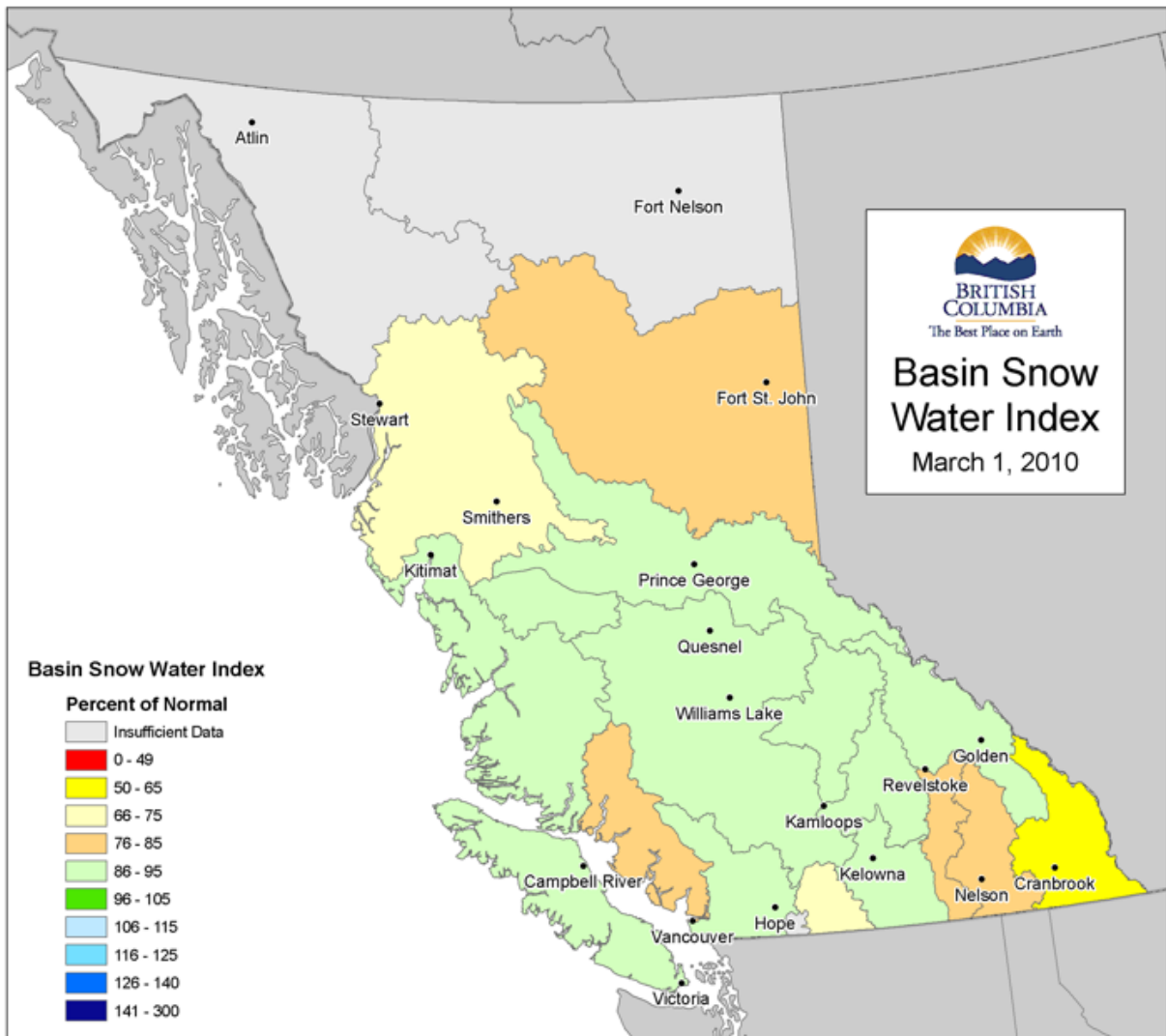
Based on current snow and weather conditions, and incorporating the dryness of 2009, the River Forecast Centre is forecasting inflows to Okanagan Lake for the Feb-July period to be 69% of normal ( $\pm 19\%$ ), and inflows to Nicola Lake to be 63% of normal ( $\pm 20\%$ ).

The El Niño Southern Oscillation (ENSO) is an important factor for determining seasonal weather patterns in western North America. British Columbia is currently being affected by a warm ENSO (El Niño), and the warm and dry weather over the past 10 weeks is consistent with the El Niño. Recent commentary from the National Oceanic and Atmospheric Administration (NOAA) anticipated a continuation of El Niño conditions through spring, resulting in potential for continuation of the above normal temperatures and below normal precipitation.

March 8, 2010

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



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## UPPER FRASER Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
HANSARD	1A06A	610	02-Mar	41	126	64	243	206	396	44	196	37
PRINCE GEORGE A	1A10	690	27-Feb	36	108	79	162	132	296	0	136	48
PACIFIC LAKE	1A11	770	28-Feb	141	487	86	728	633	832	277	569	47
BURNS LAKE	1A16	800	24-Feb	49	98	69	148	156	250	60	143	38
CANOE RIVER	2A01A	910	01-Mar	34	102A	90	110	101	251	19	113	69
PHILIP LAKE	4A13	980	25-Feb	80	200	79	229	291	400	138	252	46
HEDRICK LAKE	1A14	1100	28-Feb	151	509	82	793	725	954	327	618	42
HEDRICK LAKE	1A14P	1100	01-Mar	168	614	94	844	788	919	386	656*	10
BIRD CREEK	1A23	1180	27-Feb	55	118	90	148	148	232	72	131*	20
KAZA LAKE	1A12	1190	25-Feb	79	187	63	343	336	478	186	297	44
LU LAKE	4B15	1300	26-Feb	89	240	89	272	242	412	122	269	31
LU LAKE	4B15P	1310	01-Mar	59	218	81	263	247	402	116	269	11
EQUITY MINE	4B14	1420	26-Feb	111	324	92	386	314	546	190	351	32
MOUNT SHEBA	4A18	1490	28-Feb	184	684	96	808	871	1123	394	715	39
BARKERVILLE	1A03P	1520	01-Mar	87	246	77	300	266	479	150A	319	31
MC BRIDE (UPPER)	1A02	1580	26-Feb	112	379	105	333	351	594	169	361	56
KNUDSEN LAKE	1A15	1580	28-Feb	158	548	76	840	797	1098	404	722	39
MCBRIDE (UPPER)	1A02P	1620	01-Mar	119	365	97	360	356	525	259	375*	4
REVOLUTION CREEK	1A17P	1690	01-Mar	190	582	84	763	773	1119	336	696	24
LONGWORTH (UPPER)	1A05	1740	28-Feb	168	654	97	794	832	1104	307	674	51
DOMA MOUNTAIN	1A19	1820	26-Feb	156	541	83	646	658	981	318	650	36
DOMA MOUNTAIN	1A19P	1820	01-Mar	N/A	465	72	630	634	859	450	643*	4
MARMOT JASPER	AL12	1830	02-Mar	85	251	130	160	177	314	91	193*	26
YELLOWHEAD	1A01P	1860	01-Mar	129	509	102	379	454	720	266	499	13

## NECHAKO Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
SKINS LAKE	1B05	880	26-Feb	52	109	95	86	118	226	54	115	46
TAHTSA LAKE	1B02	1300	26-Feb	280	991	97	960	1056	1504	571	1025	58
TAHTSA LAKE	1B02P	1300	01-Mar	N/A	1085	100	1027	1091	1719	661	1084	16
KIDPRICE LAKE	4B01	1370	26-Feb	208	767	96	954	808	1252	429	802	57
MOUNT PONDOSY	1B08P	1400	01-Mar	N/A	616	87	539	606	994	360	710	17
MOUNT WELLS	1B01	1490	27-Feb	125	414	89	513	424	886	244	464	57
MOUNT WELLS	1B01P	1490	01-Mar	N/A	426	86	616	469	738	244	495	17
NUTLI LAKE	1B07	1490	27-Feb	137	460	100	467	434	717	229	462*	19
MOUNT SWANNELL	1B06	1620	27-Feb	85	239	94	334	244	446	132	254*	21

## MIDDLE FRASER Drainage Basin

Snow Course Name and Number		Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record
				Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm	
PUNTZI MOUNTAIN	1C22	940	01-Mar	24	64	102	50	36	128	0	63	39
BROOKMERE	1C01	980	28-Feb	45	109	56	64	160	351	53	194	65
NAZKO	1C08	1070	03-Mar	29	62	78	98	72	155	0	80	33
BIG CREEK	1C21	1140	28-Feb	14	32	58	66	30	112	0	55	38
GRANITE MOUNTAIN	1C33A	1150	25-Feb	54	136	83	196	211	254	87	164	17
DUFFEY LAKE	1C28	1200	27-Feb	127	422	92	334	452	762	194	459	31
BRIDGE GLACIER (LOWER)	1C39	1400	04-Mar	202	714	142	146	472	954	146	502*	15
DEADMAN RIVER	1C32	1430	28-Feb	27	50	48	120	96	191	44	105	26
BRALORNE	1C14	1450	04-Mar	57	165	98	67	97	363	0	169	46
SHOVELNOSE MOUNTAIN	1C29	1450	27-Feb	72	197	78	117	183	398	100	253	29
BOSS MOUNTAIN MINE	1C20P	1460	01-Mar	N/A	464	91	473	600	735	308	511	16
LAC LE JEUNE (UPPER)	1C25	1460	25-Feb	45	114	85	80	83	213	13A	134	37
BRENDA MINE	2F18	1460	25-Feb	80	256	89	160	240	495	130	287	41
BRENDA MINE	2F18P	1460	01-Mar	N/A	286E	84	198	288	431	184	342	17
HIGHLAND VALLEY	1C09A	1510	04-Mar	43	88	99	68	64	229	25A	89	44
BARKERVILLE	1A03P	1520	01-Mar	87	246	77	300	266	479	150A	319	31
HORSEFLY MOUNTAIN	1C13A	1550	01-Mar	123	392	94	504	472	624	238	418	37
GNAWED MOUNTAIN	1C19	1580	02-Mar	54	128	115	62	110	259	15	111	42
MOUNT TIMOTHY	1C17	1660	26-Feb	92	254	89	305	315	468	141	285	47
YANKS PEAK EAST	1C41P	1670	01-Mar	142	564	81	777	754	900	398	700	13
PENFOLD CREEK	1C23	1680	26-Feb	204	793	96	766	888	1132	453	828	34
GREEN MOUNTAIN	1C12P	1780	01-Mar	N/A	988	127	311	762	1259	311	754	16
MCGILLIVRAY PASS	1C05	1800	04-Mar	162	588	113	260	443	1016	222	522	58
MISSION RIDGE	1C18P	1850	01-Mar	N/A	436	85	282	490	866	269	515	23
DOWNTON LAKE (UPPER)	1C38	1890	04-Mar	236	946	125	302	732	1250	302	755	15
TYAUGHTON CREEK (NORTH)	1C40	1950	04-Mar	151	570	155	180	366	916	180	368	15
BRALORNE(UPPER)	1C37	1980	04-Mar	166	624	99	268	440	944	268	631	15

## LOWER FRASER Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
SUMALLO RIVER WEST	3D01C	790	05-Mar	2	7	4	193	338	442	44	271	18
BROOKMERE	1C01	980	28-Feb	45	109	56	64	160	351	53	194	65
DISAPPOINTMENT LAKE	1D18P	1040	01-Mar	N/A	881	78			1746	300P	1123*	8
CALLAGHAN CREEK	3A20	1040	01-Mar	182	740	96	440	925A	1260	200	770	32
DICKSON LAKE	1D16	1070	05-Mar	192	842	67	910	1810	1814	322	1263	17
DOG MOUNTAIN	3A10	1080	25-Feb	125	538	53	843	1412	2146Z	256	1016	26
BEAVER PASS	WA12	1120	27-Feb	132	467	72	465	836	1298	30	646*	61
KLESILKWA	3D03A	1130	05-Mar	13	47	16		342	759	0	296	57
SPUZZUM CREEK	1D19P	1180	01-Mar	237	1054	88	713	1545	1909	341	1200*	10
DUFFEY LAKE	1C28	1200	27-Feb	127	422	92	334	452	762	194	459	31
STAVE LAKE	1D08	1210	03-Mar	250	1060	82	731	1542	2500A	304	1285	42
WAHLEACH LAKE	1D09	1400	05-Mar	100	351	66	333	613	1072	86	528	43
WAHLEACH LAKE	1D09P	1400	01-Mar	N/A	664	70	558	1030	1213	451	955	17
NAHATLATCH RIVER	1D10	1520	05-Mar	296	1320	111	585	1215	2380A	400	1194	41
EASY PASS	WA13	1580			Not sampled		889	1727	2913	478	1638*	39
CHILLIWACK RIVER	1D17P	1600	01-Mar	239	1095	95	994	1373	1703	506	1153*	16
TENQUILLE LAKE	1D06P	1680	01-Mar	121	1023	131	484	881	1227	518	782*	9

## NORTH THOMPSON Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
BLUE RIVER	1E01B	670	24-Feb	71	241	83	328	318	411	179	290	27
KNOUFF LAKE	1E05	1200	01-Mar	27	82	62	125	136	284	36	133	51
BOSS MOUNTAIN MINE	1C20P	1460	01-Mar	N/A	464	91	473	600	735	308	511	16
MOUNT COOK	1E02P	1550	01-Mar	273	1046	107	919	1324	1324	680	981*	9
AZURE RIVER	1E08P	1620	01-Mar	219	969	99	743	1110	1335	548	980	13
ADAMS RIVER	1E07	1720	26-Feb	160	608	106	490	644Z	892	262	575	39
KOSTAL LAKE	1E10P	1770	01-Mar	197	633	86	716	836	1019	477	733	25
TROPHY MOUNTAIN	1E03A	1860	27-Feb	129	433	96	470	524Z	778	216	453	35

## SOUTH THOMPSON Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
ANGLEMONT	1F02	1190	27-Feb	66	198	59	301	355	635	160	337	53
ABERDEEN LAKE	1F01A	1310						106	231	51	145	56
MONASHEE PASS	2E01	1370	03-Mar	68	201	66	315	258	442	149	306	50
BOULEAU LAKE	2F21	1400	27-Feb	91	190	64	166	216	432A	165	295	39
CELISTA	1F06P	1500	01-Mar	198	769	98	589	725A	923	589	782*	5
ADAMS RIVER	1E07	1720	26-Feb	160	608	106	490	644Z	892	262	575	39
KIRBYVILLE LAKE	2A25	1750	28-Feb	265	1014	103	820	1086	1476	526	986	36
SILVER STAR MOUNTAIN	2F10	1840	02-Mar	146	562	88	502	649	912	347	636	51
PARK MOUNTAIN	1F03P	1890	01-Mar	N/A	613	83	679	698	1021	383	739	25
ENDERBY	1F04	1900			Not Sampled		701	819	1200	440	859	46

## UPPER COLUMBIA Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
CANOE RIVER	2A01A	910	01-Mar	34	102A	90	110	101	251	19	113	69
DOWNIE SLIDE (LOWER)	2A27	980			Not Sampled		532	662	1018	378	631	29
GLACIER	2A02	1250	28-Feb	131	473	75	550	665	952	251	631	70
FIELD	2A03A	1280	01-Mar	31	90	56	140	171	248	53	162	70
SUNWAPTA FALLS	AL11	1400	02-Mar	72	176	106	137	174	277	79	166*	38
VERMONT CREEK	2A19	1520	23-Feb	95	305	76	218	381	643	152	400	43
AZURE RIVER	1E08P	1620	01-Mar	219	969	99	743	1110	1335	548	980	13
DOWNIE SLIDE (UPPER)	2A29	1630	28-Feb	307	1214	107	846	1252	2120	614	1139	30
KICKING HORSE	2A07	1650	25-Feb	78	228	74	214	273	462	140	308	63
KIRBYVILLE LAKE	2A25	1750	28-Feb	265	1014	103	820	1086	1476	526	986	36
MOUNT REVELSTOKE	2A06P	1830	01-Mar	N/A	821	81	773	1133	1487	537	1014	15
FIDELITY MOUNTAIN	2A17	1870	27-Feb	233	979	91	966	1258	1703	534	1081	47
BEAVERFOOT	2A11	1890	23-Feb	52	124	65	122	158	333	80A	192	48
KEYSTONE CREEK	2A18	1890	28-Feb	190	707	102	488	781	1277	357	696	41
GOLDSTREAM	2A16	1920	28-Feb	230	879	91	832	1129	1351	553	968	46
BUSH RIVER	2A23	1920	28-Feb	183	724	100	416	688	1078	281	727	42
NIGEL CREEK	AL10	1920	02-Mar	102	336	94	277	333	655	135	358*	38
MOUNT ABBOT	2A14	1980	25-Feb	209	900	86	816	1162	1448	508	1051	50
MOLSON CREEK	2A21P	1980	01-Mar	N/A	893	103	724	1047	1215	437	865	26
SUNBEAM LAKE	2A22	2010	28-Feb	198	788	101	655	794	1117	389	780	41
MIRROR LAKE	AL06	2030	25-Feb	76	203	81	181	213	483	122	251*	43
BOW SUMMIT II	AL07A	2080	24-Feb	92	265	84	230	281	533	124	315*	30



## LOWER COLUMBIA Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
FERGUSON	2D02	880	02-Mar	121	441	82	397	490	796	283	539	58
BAIRD	WA02	980	23-Feb	41	124	67		208	368	0	184*	50
FARRON	2B02A	1220	26-Feb	76	223	76			450	79	295	35
MONASHEE PASS	2E01	1370	03-Mar	68	201	66	315	258	442	149	306	50
WHATSHAN (UPPER)	2B05	1480	03-Mar	128	421	69	509	513	918	285	611	47
BARNES CREEK	2B06	1620	03-Mar	99	307	69	451	415	634	251	447	48
BARNES CREEK	2B06P	1620	01-Mar	N/A	341	78	461	439	682	229	440	16
ST. LEON CREEK	2B08	1800	03-Mar	216	814	74	820	1040	1621	500	1098	40
ST. LEON CREEK	2B08P	1800	01-Mar	N/A	701	72	720	881	1392	416	974	16
KOCH CREEK	2B07	1860	03-Mar	163	605	97	411	596	996	269	625	44
RECORD MOUNTAIN	2B09	1890	01-Mar	165	564	90	356	596	1136	147	628	34
EAST CREEK	2D08P	2030	01-Mar	N/A	615	78	503	844	1167	312	790	29

## EAST KOOTENAY Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
KISHENEHN	MT01	1190	28-Feb	36	84	40		259	399	36	209*	63
FERNIE EAST	2C07	1250	28-Feb	54	151	48	197	348	584	61	313	59
SINCLAIR PASS	2C01	1370	27-Feb	21	44	35		112	262	48	126	63
BRUSH CREEK TIMBER	MT03	1520	26-Feb	56	157	71	292	272	432	86	222*	55
SULLIVAN MINE	2C04	1550	26-Feb	60	134	50	166	254	465	53	268	64
WEASEL DIVIDE	MT02	1660	26-Feb	147	518	72	556	721	1257	254	724*	51
KIMBERLEY (MIDDLE) VOR	2C12	1680	01-Mar	50	129	53	155	229	386	97	242	40
BANFIELD MOUNTAIN	MT05P	1710	01-Mar	81	209	56		472	663	188	371*	11
MOUNT JOFFRE	2C16	1750	23-Feb	80	219	67	227	268	551	122	329	38
MORRISSEY RIDGE	2C09Q	1800	01-Mar	N/A	401	65	412	604	1074	232	620	26
MOYIE MOUNTAIN	2C10P	1930	01-Mar	61	245	72	312	424	653	149	338	30
HAWKINS LAKE	MT06P	1970	01-Mar	127	389	77		612	881	254	507*	11
ALLISON PASS	AL01	1980	26-Feb	86	252	66	259	384	625	189	382*	27
WILKINSON SUMMIT (BUSH)	AL03	1980	26-Feb	74	94	57	114		307	62	165*	17
THUNDER CREEK	2C17	2010	23-Feb	74	181	76	152	175	378	91	239	39
FLOE LAKE	2C14	2090	23-Feb	144	543	82	521	615	993	279	665	40
FLOE LAKE	2C14P	2090	01-Mar	N/A	473	77	499	608	889	254	614	15
KIMBERLEY (UPPER) VOR	2C11	2140	01-Mar	95	303	78	223	364	696	152	390	41
HIGHWOOD SUMMIT (BUSH)	AL02	2210	01-Mar	96	285	90	226	272	455	145	315*	31
MOUNT ASSINIBOINE	2C15	2230	23-Feb	113	358	79	321	418	680	185	454	40
SUNSHINE VILLAGE	AL05	2230	02-Mar	113	362	75	408	478	770	211	484*	39

## WEST KOOTENAY Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
DUNCAN LAKE NO. 2	2D07A	650				194	192	263	72	144*	19	
FERGUSON	2D02	880	02-Mar	121	441	82	397	490	796	283	539	58
NELSON	2D04	930	01-Mar	58	186	53	254	336	558	140	353	70
CHAR CREEK	2D06	1310	01-Mar	114	347	73	322	496	754	231	476	42
BUNCHGRASS MEADOW	WA01P	1520	01-Mar	168	511	84	447	587	1049	318	609*	12
GRAY CREEK (LOWER)	2D05	1550	26-Feb	90	287	71		376	663	201	406	58
KOCH CREEK	2B07	1860	03-Mar	163	605	97	411	596	996	269	625	44
MOUNT TEMPLEMAN	2D09	1860	23-Feb	174	668	71			1534	490	935	37
GRAY CREEK (UPPER)	2D10	1910	26-Feb	142	502	77	477	676	955	343	651	38
EAST CREEK	2D08P	2030	01-Mar	N/A	615	78	503	844	1167	312	790	29
REDFISH CREEK	2D14P	2104	01-Mar	242	919	96	608	1201	1256	761	957*	8

## KETTLE Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
GOAT CREEK	WA04	1100	25-Feb	48	147	91		188	300	0	162*	46
FARRON	2B02A	1220	26-Feb	76	223	76			450	79	295	35
CARMI	2E02	1250	06-Mar	35	98	67	152	88	274	56	147	47
MONASHEE PASS	2E01	1370	03-Mar	68	201	66	315	258	442	149	306	50
SUMMIT G.S.	WA05	1400	25-Feb	81	224	115		208	305	63	195*	45
BIG WHITE MOUNTAIN	2E03	1680	05-Mar	117	384	90	304	348	676	213	426	44
GRANO CREEK	2E07P	1860	01-Mar	108	315	76	296	398	634	206	415*	12

## OKANAGAN Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
SUMMERLAND RESERVOIR	2F02	1280	25-Feb	68	174	81	128	187	381	97	214	49
MC CULLOCH	2F03	1280	01-Mar	46	127	81	223	115	249	71	157	70
ABERDEEN LAKE	1F01A	1310						106	231	51	145	55
OYAMA LAKE	2F19	1340	01-Mar	44	110	70	135	116	241	73	157	40
POSTILL LAKE	2F07	1370	01-Mar	43	116	62	152	121	274	98	186	60
VASEUX CREEK	2F20	1400	03-Mar	22	60	43	86	72	284	52	139	39
BOULEAU LAKE	2F21	1400	27-Feb	91	190	64	166	216	432A	165	295	39
TROUT CREEK	2F01	1430	25-Feb	61	172	102	141	154	335	55	169	70
TROUT CREEK (WEST)	2F01A	1430	24-Feb	58	196	N/A	No historic record					1
BRENDA MINE	2F18	1460	25-Feb	80	256	89	160	240	495	130	287	41
BRENDA MINE	2F18P	1460	01-Mar	N/A	286E	84	198	288	431	184	342	17
ISLAHT LAKE	2F24	1480	25-Feb	91	230	73	163	287	497	161	317	28
GREYBACK RESERVOIR	2F08	1550	03-Mar	61	192	97	184	154	312	91	198	43
ESPERON CR (UPPER)	2F13	1650	26-Feb	95	260	70	206	284	635	157	371	41
ISINTOK LAKE	2F11	1680	25-Feb	48	116	71	92	89	358	53	164	45
MACDONALD LAKE	2F23	1740	25-Feb	117	346	88	225	387	583	170	394	33
MUTTON CREEK NO. 1	WA07	1740	26-Feb	114	320	104		325	589	0	307*	65
MISSION CREEK	2F05P	1780	01-Mar	101	308	79	330	349	610	206	388	38
GRAYSTOKE LAKE	2F04	1810						230Z	605	128	330	29
MOUNT KOBAU	2F12	1810	28-Feb	105	308	119	164	195	488	61	259	44
WHITEROCKS MOUNTAIN	2F09	1830	28-Feb		Not sampled		248	464	809	180	499	54
SILVER STAR MOUNTAIN	2F10	1840	02-Mar	146	562	88	502	649	912	347	636	51

## SIMILKAMEEN Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
BROOKMERE	1C01	980	28-Feb	45	109	56	64	160	351	53	194	65
FREEZEOUT CREEK TRAIL	WA11	1070	26-Feb	46	132	49	229	312	615	15	269*	60
LIGHTNING LAKE	3D02	1220	27-Feb	68	184	65	201	314	497	36	282	36
HAMILTON HILL	2G06	1490	27-Feb	61	166	51	149	247	676	102	326	48
MISSEZULA MOUNTAIN	2G05	1550	26-Feb	54	128	58	88	145	363	76	221	46
ISINTOK LAKE	2F11	1680	25-Feb	48	116	71	92	89	358	53	164	45
LOST HORSE MOUNTAIN	2G04	1920	02-Mar	45	158	77	154	135	508	92	204	47
BLACKWALL PEAK	2G03P	1940	01-Mar	154	566	78	484	739	1323	213	728	42
HARTS PASS	WA09	1980	25-Feb	201	746	80	668	1021	1636	312	931*	59
HARTS PASS	WA09P	1980	01-Mar	170	674	84	620	902	1320A	356	805*	12

## SOUTH COASTAL Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
PALISADE LAKE	3A09	880	01-Mar	148	736	62	791	1613	3150A	95	1183	55
PALISADE LAKE	3A09P	880	01-Mar	44	272	N/A	<i>Historic record unavailable</i>					
CALLAGHAN CREEK	3A20	1040	01-Mar	182	740	96	440	925A	1260	200	770	32
DOG MOUNTAIN	3A10	1080	25-Feb	125	538	53	843	1412	2146Z	256	1016	26
GROUSE MOUNTAIN	3A01	1100	01-Mar	147	590	59	968	1542	2320A	143	997	59
ORCHID LAKE	3A19	1190	01-Mar	335	1399	89	860	1780	2960A	444	1568	35
ORCHID LAKE	3A19P	1190	01-Mar	329	1156	74			3093	417	1560*	20
UPPER SQUAMISH RIVER	3A25P	1340	01-Mar	347	1326	96		1384	2301	574	1380	19
NOSTETUKO RIVER	3A22P	1500	01-Mar	56	458	92		533	852	165	500*	19
UPPER MOSELY CREEK	3A24P	1650	01-Mar	97	298	112	233	228	555	98	267*	21

## VANCOUVER ISLAND Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
ELK RIVER	3B04	270				238	217	546	0	114	49	
WOLF RIVER (LOWER)	3B19	640	25-Feb	69	274	79	196	578	1064	0	347	39
UPPER THELWOOD LAKE	3B10	980				736	1834	2440A	126	1204	49	
WOLF RIVER (MIDDLE)	3B18	1070	25-Feb	173	624	117	260	756	1344	20	532	39
FORBIDDEN PLATEAU	3B01	1130	25-Feb	327	1350	106	652	1752	2730A	101	1279	54
JUMP CREEK	3B23P	1160	01-Mar	140	589	60	589	1451	2016	64	977	14
WOLF RIVER (UPPER)	3B17P	1490	01-Mar	N/A	1301	110	564	1213	1777	195	1178	21

## NORTH COASTAL Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
WEDEENE RIVER SOUTH	3C07	300					729	817	119	407*	24	
TAHTSA LAKE	1B02	1300	26-Feb	280	991	97	960	1056	1504	571	1025	58
TAHTSA LAKE	1B02P	1300	01-Mar	N/A	1085	100	1027	1091	1719	661	1084	16
BURNT BRIDGE CREEK	3C08P	1330	01-Mar	N/A	609	87		806	1148	274	697*	11

## SKAGIT Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
SUMALLO RIVER WEST	3D01C	790	05-Mar	2	7	4	193	338	442	44	271	18
FREEZEOUT CREEK TRAIL	WA11	1070	26-Feb	46	132	49	229	312	615	15	268*	60
BEAVER PASS	WA12	1120	27-Feb	132	467	72	465	836	1298	30	646*	61
KLESILKWA	3D03A	1130	05-Mar	13	47	16		342	759	0	296	57
LIGHTNING LAKE	3D02	1220	27-Feb	68	184	65	201	314	497	36	282	36
HARTS PASS	WA09	1980	25-Feb	201	746	80	668	1021	1636	312	931*	59
HARTS PASS	WA09P	1980	01-Mar	170	674	84	620	902	1320A	356	805*	12

## PEACE Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
PACIFIC LAKE	1A11	770	28-Feb	141	487	86	728	633	832	277	569	47
WARE (LOWER)	4A04	980	26-Feb	62	139	85	225		246	97	164	45
PHILIP LAKE	4A13	980	25-Feb	80	200	79	229	291	400	138	252	46
AIKEN LAKE	4A30P	1040	01-Mar	N/A	150	62	248	248	363	150	252	23
TUTIZZI LAKE	4A06	1070	25-Feb	73	167	73	243	253	386	140	230	46
TSAYDAYCHI LAKE	4A12	1160	25-Feb	106	285	83	288	409	540	166	342	46
KAZA LAKE	1A12	1190	25-Feb	79	187	63	343	336	478	186	297	44
PULPIT LAKE	4A09	1310	26-Feb	105	264	74	527	438	531	233	357	45
PULPIT LAKE	4A09P	1310	01-Mar	N/A	283	78	518	454	518	271	361	19
FREDRICKSON LAKE	4A10	1310	25-Feb	61	134	63	238	235	315	129	214	45
PINE PASS	4A02P	1400	01-Mar	N/A	728	79	864	1073	1485	600	921	18
TRYGVE LAKE	4A11	1400	25-Feb	88	224	71	384	376	453	211	315	45
SIKANNI LAKE	4C01	1400	26-Feb	66	140	61	302	264	335	107	229	44
PINE PASS	4A02	1430	27-Feb	239	890	89	1041	1316	1502	480	1005	46
MORFEE MOUNTAIN	4A16	1450	24-Feb	141	509	69	661	819	1166	312	739	42
LADY LAURIER LAKE	4A07	1460	26-Feb	122	373	85	486	509	662	255	438	43
MOUNT SHEBA	4A18	1490	28-Feb	184	684	96	808	871	1123	394	715	39
GERMANSEN (UPPER)	4A05	1500	25-Feb	93	252	83	277	362	520	174	302	49
MOUNT STEARNS	4A21	1500	26-Feb	51	99	80	139	121	227	56	123	35
JOHANSON LAKE	4B02	1540	25-Feb	74	169	67	280	252	368	148	253	46
MONKMAN CREEK	4A20	1550	28-Feb	135	459	88		473	925	211	522	27
WARE (UPPER)	4A03	1570	26-Feb	73	169	77	260	224	360	114	220	49
KWADACHA RIVER	4A27P	1620	01-Mar	N/A	206	71	330	323	405	195	289*	25

## LIARD Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
WATSON LAKE A	YK01	700	23-Feb	55	113	87		152	216	61	130*	43
FRANCES RIVER	YK02	730	23-Feb	60	120	86		164	312	65	140*	33
DEASE LAKE	4C03	820	01-Mar	37	60	48	190	123	229	45	125	44
JADE CITY	4C15	940	28-Feb	63	142	66	310	196	310	128	214*	8
SUMMIT LAKE	4C02	1280	26-Feb	66	175	165	124	94	190	0T	106	40
SIKANNI LAKE	4C01	1400	26-Feb	66	140	61	302	264	335	107	229	44

## SKEENA/NASS Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
BEAR PASS	4B11A	460	01-Mar	81	329	54	697	534	824	400A	610	25
NINGUNSAW PASS	4B10	690	02-Mar	72	224	55	470	429	629	232	408	35
CEDAR-KITEEN	4B18P	885	01-Mar	N/A	280	45	947	685	833	319	621*	9
TACHEK CREEK	4B06	1140	25-Feb	76	182	88	186	190	332	117	206	42
KAZA LAKE	1A12	1190	25-Feb	79	187	63	343	336	478	186	297	44
LU LAKE	4B15	1300	26-Feb	89	240	89	272	242	412	122	269	31
LU LAKE	4B15P	1310	01-Mar	59	218	81	263	247	402	116	269	11
TSAI CREEK	4B17P	1360	01-Mar	206	967	101	1057	1071	1407	694	961*	12
KIDPRICE LAKE	4B01	1370	26-Feb	208	767	96	954	808	1252	429	802	57
TRYGVE LAKE	4A11	1400	25-Feb	88	224	71	384	376	453	211	315	45
EQUITY MINE	4B14	1420	26-Feb	111	324	92	386	314	546	190	351	32
HUDSON BAY MTN.	4B03A	1480	01-Mar	124	396	86	461	488	719	287	459	38
SHEDIN CREEK	4B16P	1480	01-Mar	133	509	69	853	787	904	563	735*	14
JOHANSON LAKE	4B02	1540	25-Feb	74	169	67	280	252	368	148	253	46

## STIKINE/TAKU Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
SPEEL RIVER	AK03	80	28-Feb	117	432	66	1011	858	1024	353	659*	39
TELEGRAPH CREEK	4D01	580	25-Feb	34	62	40	240	74	345	53	156	35
NINGUNSAW PASS	4B10	690	02-Mar	72	224	55	470	429	629	232	408	35
DEASE LAKE	4C03	820	01-Mar	37	60	48	190	123	229	45	125	44
ISKUT	4D02	1000	02-Mar	28	54	50	146	77	176	33	107	35

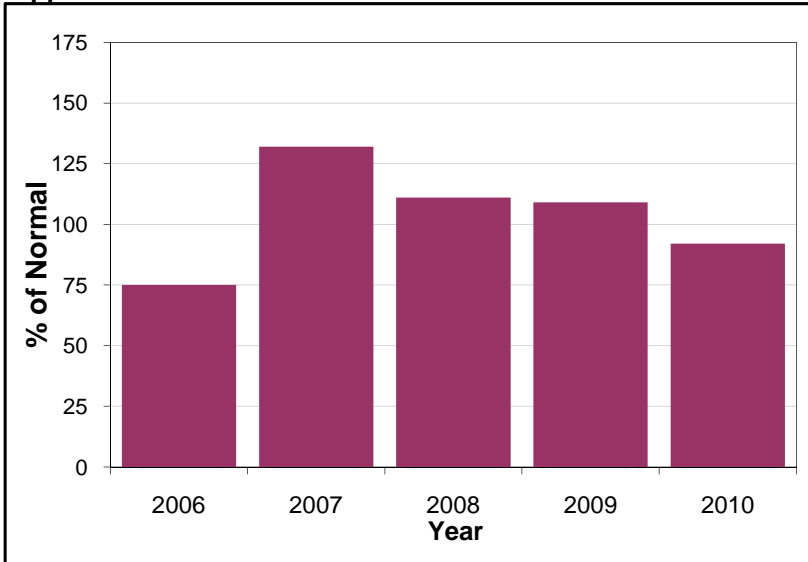
## YUKON Drainage Basin

Snow Course Name and Number	Elev. metres	Date of Survey	Mar 2010			Historic, Water Equivalent (mm)					Yrs of Record	
			Snow Depth cm	Water Equiv. mm	% of Normal	2009 mm	2008 mm	Max. mm	Min. mm	Normal mm		
ATLIN LAKE	4E02A	730	06-Mar	46	94	85	146	92	185A	50	111*	26
LOG CABIN	4E01	880	25-Feb	109	332	101	454	295	514	124	330	49
PINE LK AIRSTRIP	YK03	1010	23-Feb	73	175	91		238	330	25	192*	34
MONTANA MTN.	YK05	1020	25-Feb	59	141	110		139	202	65	128*	34
TAGISH	YK04	1080	24-Feb	68	128	102		159	227	75	125*	34

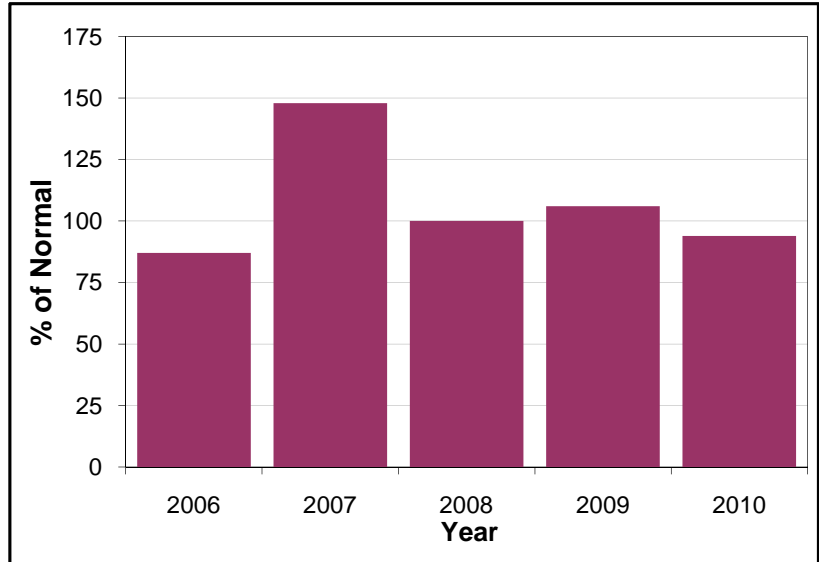
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 B - EARLY OR LATE SAMPLING  
 C - EARLY OR LATE SAMPLING WITH PROBLEMS ENCOUNTERED  
 E - ESTIMATED BASED ON AREAL AVERAGE  
 \* - PERIOD OF RECORD AVERAGE

# Snow Basin Index Graphs - March 1, 2010

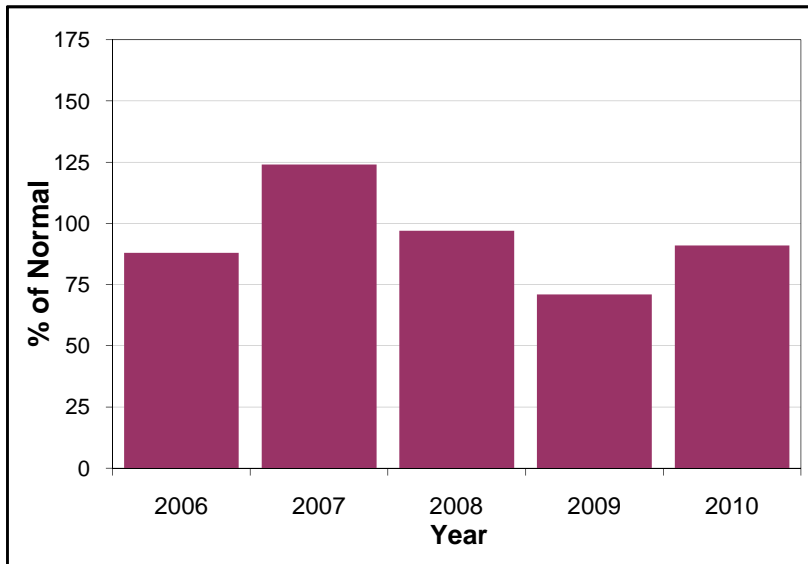
## Upper Fraser



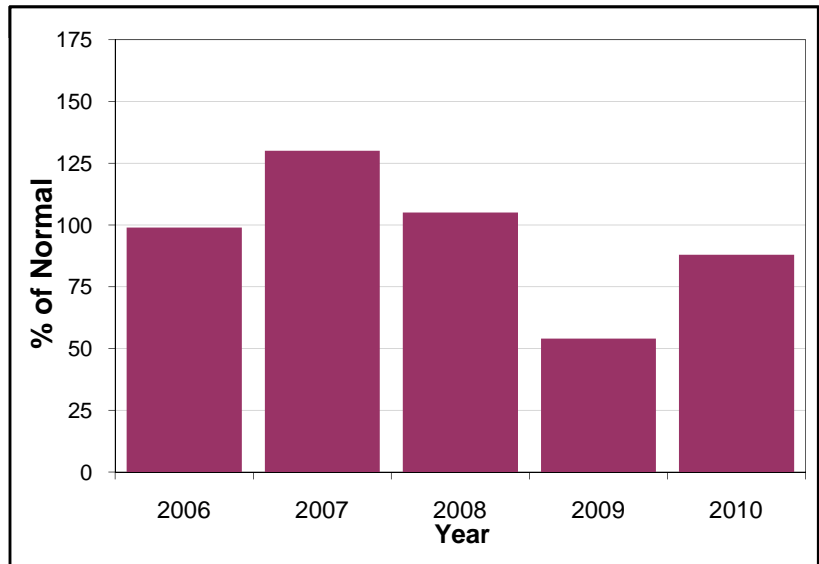
## Nechako



## Middle Fraser

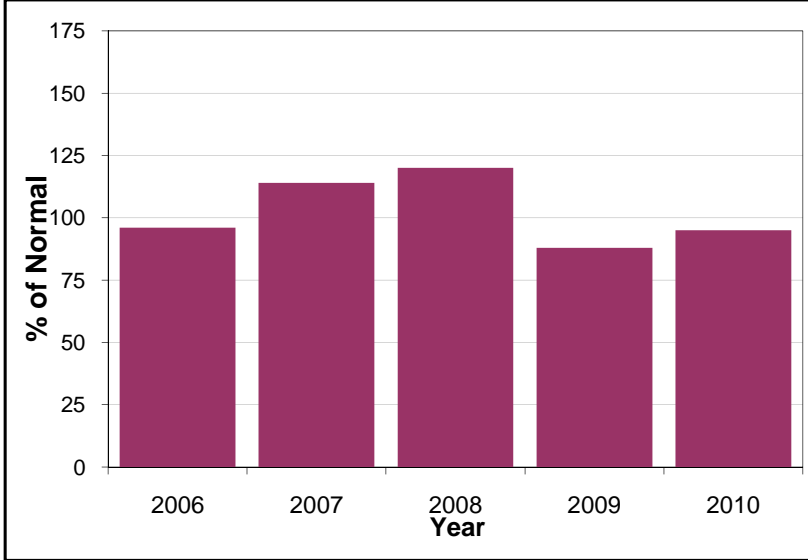


## Lower Fraser

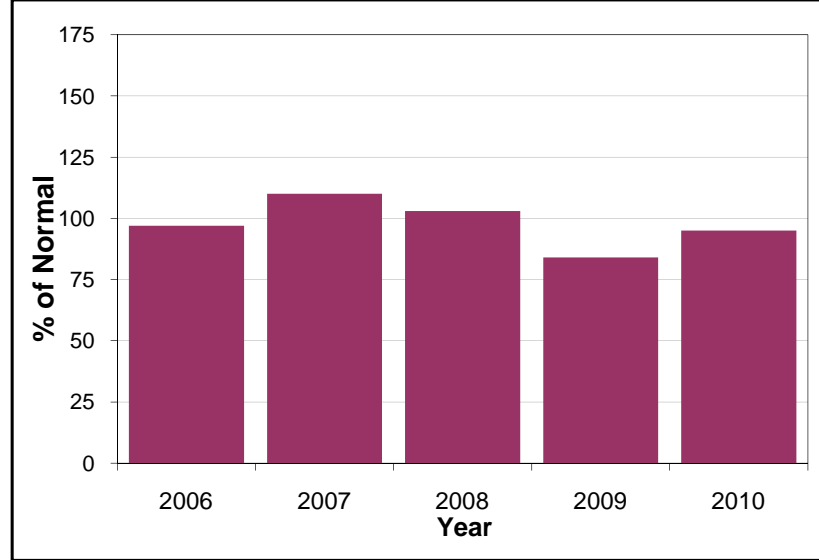




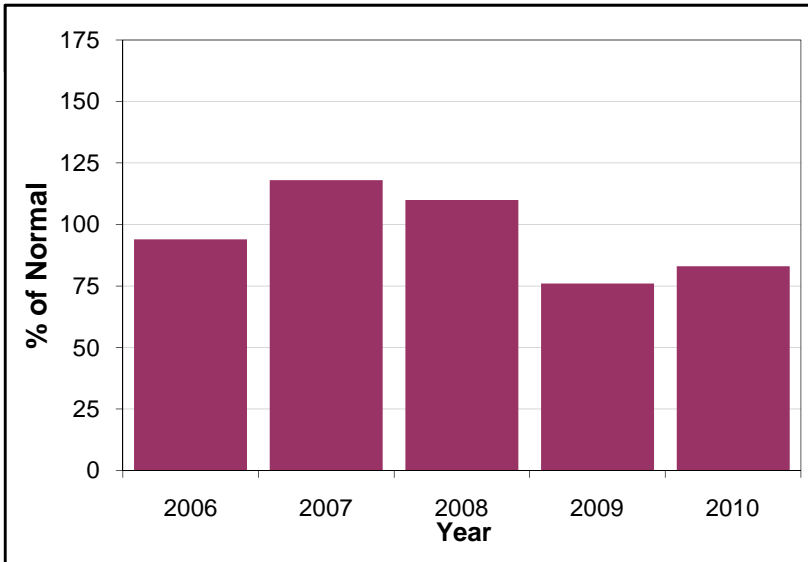
**North Thompson**



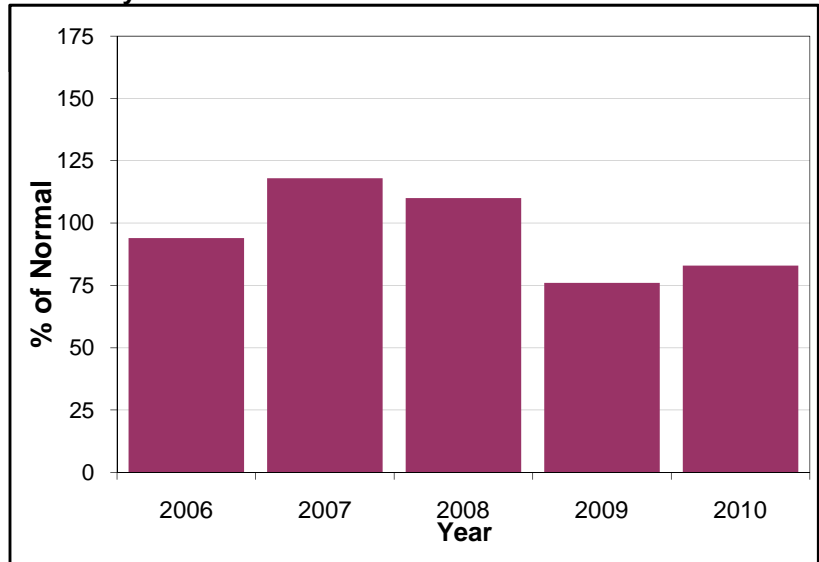
**South Thompson**



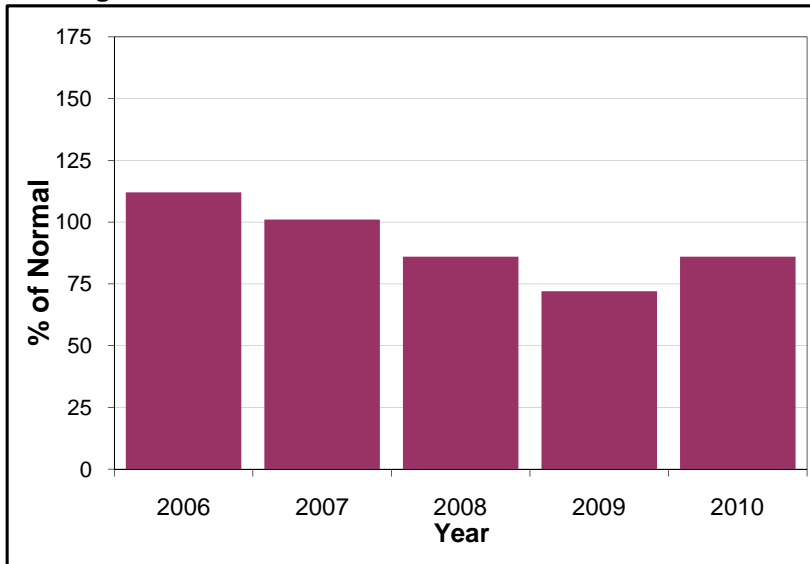
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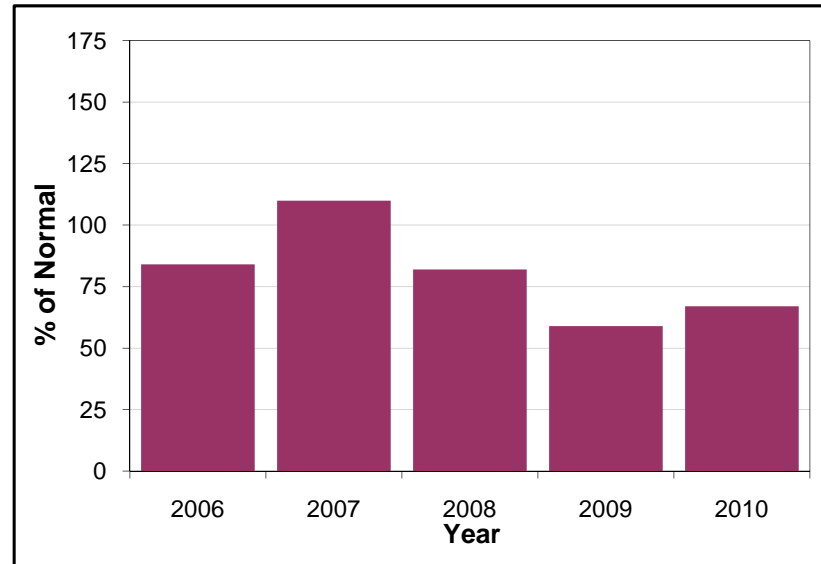
**Kootenay**



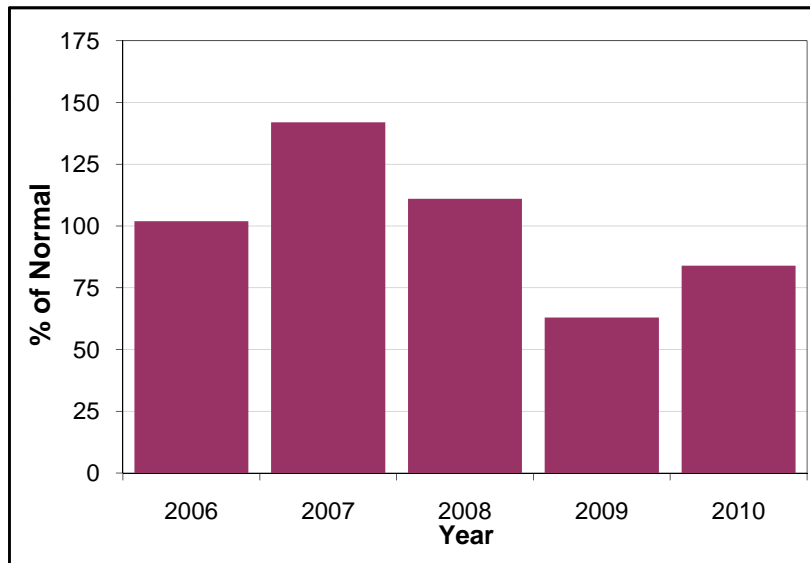
**Okanagan-Kettle**



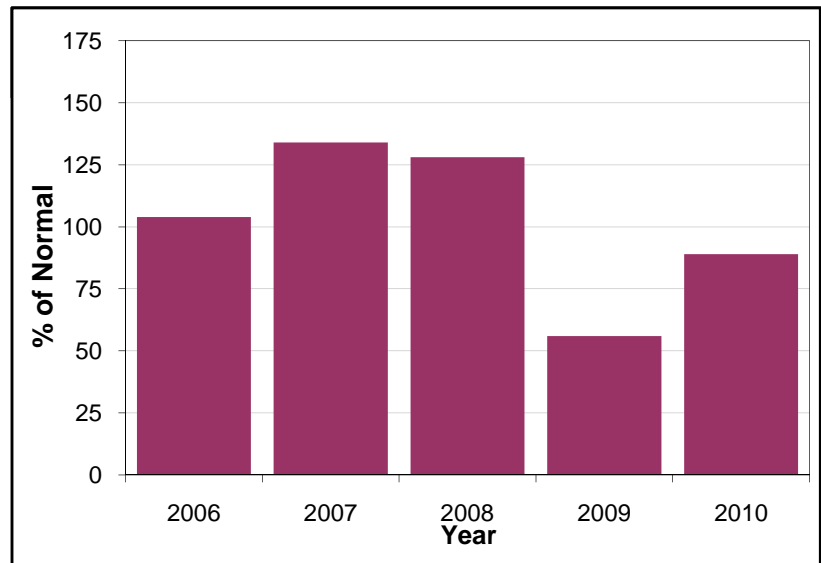
**Similkameen**



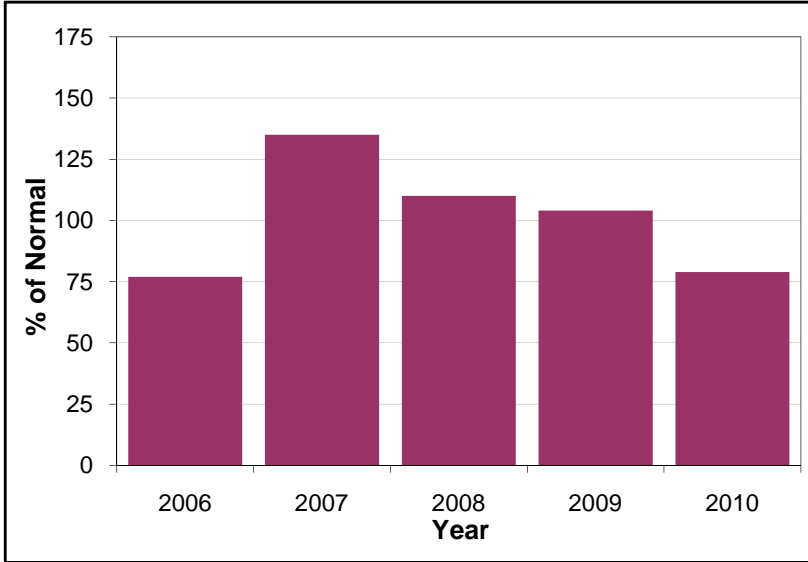
**South Coast**



**Vancouver Island**



**Peace**



**Skeena-Nass**

